Laboratory Report of Analysis

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

Report Number: **1185492**

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: **1185492**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

MB for HBN 1786800 [BOD/6153] (1478471) MB

5210B – BOD - MB (0.22 mg/L) is greater than the recommended limit of 0.2 mg/L. Samples >10X the MB are not significantly affected. Samples <10X the MB results may be biased high.

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

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Laboratory Qualifiers

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

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

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

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

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

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

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
MW10	1185492001	09/25/2018	09/25/2018	Water (Surface, Eff., Ground)
MW15	1185492002	09/25/2018	09/25/2018	Water (Surface, Eff., Ground)
B1	1185492003	09/25/2018	09/25/2018	Water (Surface, Eff., Ground)
SW2	1185492004	09/25/2018	09/25/2018	Water (Surface, Eff., Ground)
SW1	1185492005	09/25/2018	09/25/2018	Water (Surface, Eff., Ground)
B3	1185492006	09/25/2018	09/25/2018	Water (Surface, Eff., Ground)
SW3	1185492007	09/25/2018	09/25/2018	Water (Surface, Eff., Ground)
B6	1185492008	09/25/2018	09/25/2018	Water (Surface, Eff., Ground)
B4	1185492009	09/25/2018	09/25/2018	Water (Surface, Eff., Ground)
SW6	1185492010	09/25/2018	09/25/2018	Water (Surface, Eff., Ground)
SW7	1185492011	09/25/2018	09/25/2018	Water (Surface, Eff., Ground)
SW4	1185492012	09/25/2018	09/25/2018	Water (Surface, Eff., Ground)
SW5	1185492013	09/25/2018	09/25/2018	Water (Surface, Eff., Ground)
MW6	1185492014	09/25/2018	09/25/2018	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)
SM21 4500NO3-F	Flow Injection Analysis
SM21 4500-N D	TKN by Phenate (W)
SM21 9223B	Total Coliform P/A Quant Tray
SM21 4500P-B,E	Total Phosphorus (W)
SM21 2540D	Total Suspended Solids SM20 2540D

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Detectable Results Summary

Client Sample ID: **MW10**
Lab Sample ID: 1185492001
Waters Department

Parameter	Result	Units
Ammonia-N	0.0395J	mg/L
Nitrate-N	0.101	mg/L

Client Sample ID: **MW15**
Lab Sample ID: 1185492002
Waters Department

Parameter	Result	Units
Ammonia-N	0.241	mg/L
Total Kjeldahl Nitrogen	0.476J	mg/L

Client Sample ID: **B1**
Lab Sample ID: 1185492003
Waters Department

Parameter	Result	Units
Ammonia-N	0.119	mg/L
Nitrate-N	0.0286J	mg/L

Client Sample ID: **SW2**
Lab Sample ID: 1185492004
Microbiology Laboratory

Parameter	Result	Units
Biochemical Oxygen Demand	3.47	mg/L
Fecal Coliform	1.0	col/100mL
Total Coliform	5170	MPN/100mL

Waters Department

Parameter	Result	Units
Ammonia-N	0.149	mg/L
Total Kjeldahl Nitrogen	1.06	mg/L
Total Phosphorus	0.0891	mg/L
Total Suspended Solids	5.88	mg/L

Client Sample ID: **SW1**
Lab Sample ID: 1185492005
Microbiology Laboratory

Parameter	Result	Units
Biochemical Oxygen Demand	28.5	mg/L
E. Coli	8	MPN/100mL
Fecal Coliform	2.0	col/100mL
Total Coliform	GT2420	MPN/100mL

Waters Department

Parameter	Result	Units
Ammonia-N	0.141	mg/L
Total Kjeldahl Nitrogen	0.872J	mg/L
Total Phosphorus	0.0540	mg/L
Total Suspended Solids	4.00	mg/L

Client Sample ID: **B3**
Lab Sample ID: 1185492006
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Fecal Coliform	1.0	col/100mL
Ammonia-N	0.112	mg/L

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Detectable Results Summary

Client Sample ID: **SW3**
Lab Sample ID: 1185492007

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.67	mg/L
	E. Coli	2	MPN/100mL
	Fecal Coliform	9.0	col/100mL
	Total Coliform	517	MPN/100mL
Waters Department	Ammonia-N	0.106	mg/L
	Total Kjeldahl Nitrogen	0.675J	mg/L
	Total Phosphorus	0.106	mg/L
	Total Suspended Solids	14.5	mg/L

Client Sample ID: **B6**
Lab Sample ID: 1185492008

	Parameter	Result	Units
Waters Department	Ammonia-N	0.0961J	mg/L

Client Sample ID: **B4**
Lab Sample ID: 1185492009

	Parameter	Result	Units
Waters Department	Ammonia-N	0.0595J	mg/L
	Nitrate-N	1.47	mg/L

Client Sample ID: **SW6**
Lab Sample ID: 1185492010

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.57	mg/L
	E. Coli	14	MPN/100mL
	Fecal Coliform	10	col/100mL
	Total Coliform	345	MPN/100mL
Waters Department	Ammonia-N	0.0517J	mg/L
	Total Kjeldahl Nitrogen	0.503J	mg/L
	Total Phosphorus	0.0161J	mg/L
	Total Suspended Solids	90.8	mg/L

Client Sample ID: **SW7**
Lab Sample ID: 1185492011

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	46	MPN/100mL
	Fecal Coliform	51	col/100mL
	Total Coliform	461	MPN/100mL
Waters Department	Ammonia-N	0.0552J	mg/L
	Total Kjeldahl Nitrogen	0.451J	mg/L
	Total Phosphorus	0.0141J	mg/L
	Total Suspended Solids	1.73	mg/L

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Detectable Results Summary

Client Sample ID: **SW4**
Lab Sample ID: 1185492012

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	18	MPN/100mL
	Fecal Coliform	11	col/100mL
	Total Coliform	24200	MPN/100mL
Waters Department	Ammonia-N	0.0475J	mg/L
	Total Kjeldahl Nitrogen	0.359J	mg/L
	Total Phosphorus	0.0158J	mg/L
	Total Suspended Solids	2.90	mg/L

Client Sample ID: **SW5**
Lab Sample ID: 1185492013

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	41	MPN/100mL
	Fecal Coliform	26	col/100mL
	Total Coliform	7700	MPN/100mL
Waters Department	Ammonia-N	0.0596J	mg/L
	Total Kjeldahl Nitrogen	0.539J	mg/L
	Total Phosphorus	0.0189J	mg/L
	Total Suspended Solids	6.93	mg/L

Client Sample ID: **MW6**
Lab Sample ID: 1185492014

	Parameter	Result	Units
Waters Department	Ammonia-N	0.0990J	mg/L
	Nitrate-N	0.0286J	mg/L
	Total Kjeldahl Nitrogen	0.331J	mg/L

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Results of **MW10**

Client Sample ID: **MW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492001
Lab Project ID: 1185492

Collection Date: 09/25/18 12:10
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		09/25/18 18:12

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/25/18 18:12
Container ID: 1185492001-A

Results of **MW10**

Client Sample ID: **MW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492001
Lab Project ID: 1185492

Collection Date: 09/25/18 12:10
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

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		09/28/18 14:37

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 14:37
Container ID: 1185492001-B

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.0395 J		0.100	0.0310	mg/L	1		09/27/18 10:10

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:10
Container ID: 1185492001-B

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.101		0.100	0.0250	mg/L	2		09/26/18 18:47
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 18:47

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/18 18:47
Container ID: 1185492001-C

Print Date: 10/01/2018 3:49:51PM

J flagging is activated

Results of **MW15**

Client Sample ID: **MW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492002
Lab Project ID: 1185492

Collection Date: 09/25/18 12:31
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		09/25/18 18:12

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/25/18 18:12
Container ID: 1185492002-A

Results of **MW15**

Client Sample ID: **MW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492002
Lab Project ID: 1185492

Collection Date: 09/25/18 12:31
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.476	J	1.00	0.310	mg/L	1		09/28/18 14:41

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 14:41
Container ID: 1185492002-B

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.241		0.100	0.0310	mg/L	1		09/27/18 10:12

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:12
Container ID: 1185492002-B

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500	U	0.100	0.0250	mg/L	2		09/26/18 18:48
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		09/26/18 18:48

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/18 18:48
Container ID: 1185492002-C

Print Date: 10/01/2018 3:49:51PM

J flagging is activated

Results of **B1**

Client Sample ID: **B1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492003
Lab Project ID: 1185492

Collection Date: 09/25/18 12:50
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		09/25/18 18:12

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/25/18 18:12
Container ID: 1185492003-A

Results of **B1**

Client Sample ID: **B1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492003
Lab Project ID: 1185492

Collection Date: 09/25/18 12:50
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

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		09/28/18 14:42

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 14:42
Container ID: 1185492003-B

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.119		0.100	0.0310	mg/L	1		09/27/18 10:14

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:14
Container ID: 1185492003-B

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0286	J	0.100	0.0250	mg/L	2		09/26/18 18:50
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		09/26/18 18:50

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/18 18:50
Container ID: 1185492003-C

Print Date: 10/01/2018 3:49:51PM

J flagging is activated

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492004
Lab Project ID: 1185492

Collection Date: 09/25/18 11:02
Received Date: 09/25/18 17:04
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	3.47		2.00	2.00	mg/L	1		09/26/18 17:41

Batch Information

Analytical Batch: BOD6153
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/26/18 17:41
Container ID: 1185492004-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.0		1.00	1.00	col/100mL	1		09/25/18 18:12

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/25/18 18:12
Container ID: 1185492004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		09/26/18 12:07
Total Coliform	5170		10	10	MPN/100m	10		09/26/18 12:07

Batch Information

Analytical Batch: BTF16911
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/18 12:07
Container ID: 1185492004-F

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492004
Lab Project ID: 1185492

Collection Date: 09/25/18 11:02
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	5.88		1.25	0.388	mg/L	1		09/26/18 14:50

Batch Information

Analytical Batch: STS6036
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/18 14:50
Container ID: 1185492004-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	1.06		1.00	0.310	mg/L	1		09/28/18 14:43

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 14:43
Container ID: 1185492004-B

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.149		0.100	0.0310	mg/L	1		09/27/18 10:15

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:15
Container ID: 1185492004-B

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 18:52
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 18:52

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492004
Lab Project ID: 1185492

Collection Date: 09/25/18 11:02
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/18 18:52
Container ID: 1185492004-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0891		0.0200	0.00500	mg/L	1		09/26/18 15:09

Batch Information

Analytical Batch: WDA4417
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/26/18 15:09
Container ID: 1185492004-B

Prep Batch: WXX12569
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/26/18 13:26
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492005
Lab Project ID: 1185492

Collection Date: 09/25/18 10:18
Received Date: 09/25/18 17:04
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	28.5		2.00	2.00	mg/L	1		09/26/18 17:41

Batch Information

Analytical Batch: BOD6153
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/26/18 17:41
Container ID: 1185492005-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	2.0		1.00	1.00	col/100mL	1		09/25/18 18:12

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/25/18 18:12
Container ID: 1185492005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	8		1	1	MPN/100m	1		09/26/18 12:07
Total Coliform	>2420		10	10	MPN/100m	10		09/26/18 12:07

Batch Information

Analytical Batch: BTF16911
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/18 12:07
Container ID: 1185492005-F

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492005
Lab Project ID: 1185492

Collection Date: 09/25/18 10:18
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	4.00		1.25	0.388	mg/L	1		09/26/18 14:50

Batch Information

Analytical Batch: STS6036
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/18 14:50
Container ID: 1185492005-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.872 J		1.00	0.310	mg/L	1		09/28/18 14:44

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 14:44
Container ID: 1185492005-B

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.141		0.100	0.0310	mg/L	1		09/27/18 10:17

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:17
Container ID: 1185492005-B

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 18:54
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 18:54

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492005
Lab Project ID: 1185492

Collection Date: 09/25/18 10:18
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/18 18:54
Container ID: 1185492005-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0540		0.0200	0.00500	mg/L	1		09/26/18 15:10

Batch Information

Analytical Batch: WDA4417
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/26/18 15:10
Container ID: 1185492005-B

Prep Batch: WXX12569
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/26/18 13:26
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **B3**

Client Sample ID: **B3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492006
Lab Project ID: 1185492

Collection Date: 09/25/18 13:20
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.0		1.00	1.00	col/100mL	1		09/25/18 18:12

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/25/18 18:12
Container ID: 1185492006-A

Results of **B3**

Client Sample ID: **B3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492006
Lab Project ID: 1185492

Collection Date: 09/25/18 13:20
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

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		09/28/18 14:48

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 14:48
Container ID: 1185492006-B

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.112		0.100	0.0310	mg/L	1		09/27/18 10:19

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:19
Container ID: 1185492006-B

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 18:55
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 18:55

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/18 18:55
Container ID: 1185492006-C

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492007
Lab Project ID: 1185492

Collection Date: 09/25/18 13:33
Received Date: 09/25/18 17:04
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	2.67		2.00	2.00	mg/L	1		09/26/18 17:41

Batch Information

Analytical Batch: BOD6153
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/26/18 17:41
Container ID: 1185492007-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	9.0		1.00	1.00	col/100mL	1		09/25/18 18:12

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/25/18 18:12
Container ID: 1185492007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	2		1	1	MPN/100m	1		09/26/18 12:07
Total Coliform	517		1	1	MPN/100m	1		09/26/18 12:07

Batch Information

Analytical Batch: BTF16911
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/18 12:07
Container ID: 1185492007-F

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492007
Lab Project ID: 1185492

Collection Date: 09/25/18 13:33
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	14.5		1.16	0.360	mg/L	1		09/26/18 14:50

Batch Information

Analytical Batch: STS6036
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/18 14:50
Container ID: 1185492007-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.675 J		1.00	0.310	mg/L	1		09/28/18 14:49

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 14:49
Container ID: 1185492007-B

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.106		0.100	0.0310	mg/L	1		09/27/18 10:20

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:20
Container ID: 1185492007-B

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 18:57
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 18:57

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492007
Lab Project ID: 1185492

Collection Date: 09/25/18 13:33
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/18 18:57
Container ID: 1185492007-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.106		0.0200	0.00500	mg/L	1		09/26/18 15:11

Batch Information

Analytical Batch: WDA4417
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/26/18 15:11
Container ID: 1185492007-B

Prep Batch: WXX12569
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/26/18 13:26
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 10/01/2018 3:49:51PM

J flagging is activated

Results of **B6**

Client Sample ID: **B6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492008
Lab Project ID: 1185492

Collection Date: 09/25/18 13:47
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		09/25/18 18:12

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/25/18 18:12
Container ID: 1185492008-A

Results of **B6**

Client Sample ID: **B6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492008
Lab Project ID: 1185492

Collection Date: 09/25/18 13:47
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

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		09/28/18 14:51

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 14:51
Container ID: 1185492008-B

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.0961	J	0.100	0.0310	mg/L	1		09/27/18 10:25

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:25
Container ID: 1185492008-B

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500	U	0.100	0.0250	mg/L	2		09/26/18 18:59
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		09/26/18 18:59

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/18 18:59
Container ID: 1185492008-C

Print Date: 10/01/2018 3:49:51PM

J flagging is activated

Results of **B4**

Client Sample ID: **B4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492009
Lab Project ID: 1185492

Collection Date: 09/25/18 14:08
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		09/25/18 18:12

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/25/18 18:12
Container ID: 1185492009-A

Results of **B4**

Client Sample ID: **B4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492009
Lab Project ID: 1185492

Collection Date: 09/25/18 14:08
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

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		09/28/18 14:52

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 14:52
Container ID: 1185492009-B

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.0595	J	0.100	0.0310	mg/L	1		09/27/18 10:27

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:27
Container ID: 1185492009-B

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	1.47		0.100	0.0250	mg/L	2		09/26/18 19:09
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		09/26/18 19:09

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/18 19:09
Container ID: 1185492009-C

Print Date: 10/01/2018 3:49:51PM

J flagging is activated

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492010
Lab Project ID: 1185492

Collection Date: 09/25/18 14:45
Received Date: 09/25/18 17:04
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	2.57		2.00	2.00	mg/L	1		09/26/18 17:41

Batch Information

Analytical Batch: BOD6153
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/26/18 17:41
Container ID: 1185492010-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	10		1.00	1.00	col/100mL	1		09/25/18 18:12

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/25/18 18:12
Container ID: 1185492010-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	14		1	1	MPN/100m	1		09/26/18 12:07
Total Coliform	345		1	1	MPN/100m	1		09/26/18 12:07

Batch Information

Analytical Batch: BTF16911
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/18 12:07
Container ID: 1185492010-F

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492010
Lab Project ID: 1185492

Collection Date: 09/25/18 14:45
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	90.8		1.25	0.388	mg/L	1		09/26/18 14:50

Batch Information

Analytical Batch: STS6036
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/18 14:50
Container ID: 1185492010-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.503 J		1.00	0.310	mg/L	1		09/28/18 15:08

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 15:08
Container ID: 1185492010-B

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.0517 J		0.100	0.0310	mg/L	1		09/27/18 10:32

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:32
Container ID: 1185492010-B

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 19:11
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 19:11

Print Date: 10/01/2018 3:49:51PM

J flagging is activated

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492010
Lab Project ID: 1185492

Collection Date: 09/25/18 14:45
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/18 19:11
Container ID: 1185492010-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0161	J	0.0200	0.00500	mg/L	1		09/26/18 15:12

Batch Information

Analytical Batch: WDA4417
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/26/18 15:12
Container ID: 1185492010-B

Prep Batch: WXX12569
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/26/18 13:26
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 10/01/2018 3:49:51PM

J flagging is activated

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492011
Lab Project ID: 1185492

Collection Date: 09/25/18 15:00
Received Date: 09/25/18 17:04
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		09/26/18 17:41

Batch Information

Analytical Batch: BOD6153
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/26/18 17:41
Container ID: 1185492011-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	51		1.00	1.00	col/100mL	1		09/25/18 18:12

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/25/18 18:12
Container ID: 1185492011-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	46		1	1	MPN/100m	1		09/26/18 12:07
Total Coliform	461		1	1	MPN/100m	1		09/26/18 12:07

Batch Information

Analytical Batch: BTF16911
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/18 12:07
Container ID: 1185492011-F

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492011
Lab Project ID: 1185492

Collection Date: 09/25/18 15:00
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	1.73		1.02	0.316	mg/L	1		09/26/18 14:50

Batch Information

Analytical Batch: STS6036
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/18 14:50
Container ID: 1185492011-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.451 J		1.00	0.310	mg/L	1		09/28/18 15:09

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 15:09
Container ID: 1185492011-B

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.0552 J		0.100	0.0310	mg/L	1		09/27/18 10:34

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:34
Container ID: 1185492011-B

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 19:13
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 19:13

Print Date: 10/01/2018 3:49:51PM

J flagging is activated

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492011
Lab Project ID: 1185492

Collection Date: 09/25/18 15:00
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/18 19:13
Container ID: 1185492011-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0141	J	0.0200	0.00500	mg/L	1		09/26/18 15:08

Batch Information

Analytical Batch: WDA4417
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/26/18 15:08
Container ID: 1185492011-B

Prep Batch: WXX12569
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/26/18 13:26
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492012
Lab Project ID: 1185492

Collection Date: 09/25/18 15:15
Received Date: 09/25/18 17:04
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		09/26/18 17:41

Batch Information

Analytical Batch: BOD6153
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/26/18 17:41
Container ID: 1185492012-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	11		1.00	1.00	col/100mL	1		09/25/18 18:12

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/25/18 18:12
Container ID: 1185492012-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	18		1	1	MPN/100m	1		09/26/18 12:07
Total Coliform	24200		10	10	MPN/100m	10		09/26/18 12:07

Batch Information

Analytical Batch: BTF16911
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/18 12:07
Container ID: 1185492012-F

Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492012
Lab Project ID: 1185492

Collection Date: 09/25/18 15:15
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	2.90		1.00	0.310	mg/L	1		09/26/18 14:50

Batch Information

Analytical Batch: STS6036
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/18 14:50
Container ID: 1185492012-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.359 J		1.00	0.310	mg/L	1		09/28/18 15:11

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 15:11
Container ID: 1185492012-B

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.0475 J		0.100	0.0310	mg/L	1		09/27/18 10:35

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:35
Container ID: 1185492012-B

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 19:15
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 19:15

Print Date: 10/01/2018 3:49:51PM

J flagging is activated

Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492012
Lab Project ID: 1185492

Collection Date: 09/25/18 15:15
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/18 19:15
Container ID: 1185492012-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0158	J	0.0200	0.00500	mg/L	1		09/26/18 15:17

Batch Information

Analytical Batch: WDA4417
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/26/18 15:17
Container ID: 1185492012-B

Prep Batch: WXX12569
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/26/18 13:26
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 10/01/2018 3:49:51PM

J flagging is activated

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492013
Lab Project ID: 1185492

Collection Date: 09/25/18 15:35
Received Date: 09/25/18 17:04
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		09/26/18 17:41

Batch Information

Analytical Batch: BOD6153
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/26/18 17:41
Container ID: 1185492013-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	26		1.00	1.00	col/100mL	1		09/25/18 18:12

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/25/18 18:12
Container ID: 1185492013-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	41		1	1	MPN/100m	1		09/26/18 12:07
Total Coliform	7700		10	10	MPN/100m	10		09/26/18 12:07

Batch Information

Analytical Batch: BTF16911
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/18 12:07
Container ID: 1185492013-F

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492013
Lab Project ID: 1185492

Collection Date: 09/25/18 15:35
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	6.93		0.990	0.307	mg/L	1		09/26/18 14:50

Batch Information

Analytical Batch: STS6036
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/18 14:50
Container ID: 1185492013-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.539 J		1.00	0.310	mg/L	1		09/28/18 15:12

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 15:12
Container ID: 1185492013-B

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.0596 J		0.100	0.0310	mg/L	1		09/27/18 10:37

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:37
Container ID: 1185492013-B

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 19:16
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/26/18 19:16

Print Date: 10/01/2018 3:49:51PM

J flagging is activated

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492013
Lab Project ID: 1185492

Collection Date: 09/25/18 15:35
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/18 19:16
Container ID: 1185492013-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0189	J	0.0200	0.00500	mg/L	1		09/26/18 15:16

Batch Information

Analytical Batch: WDA4417
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/26/18 15:16
Container ID: 1185492013-B

Prep Batch: WXX12569
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/26/18 13:26
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **MW6**

Client Sample ID: **MW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492014
Lab Project ID: 1185492

Collection Date: 09/25/18 10:18
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		09/25/18 18:12

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/25/18 18:12
Container ID: 1185492014-A

Results of **MW6**

Client Sample ID: **MW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185492014
Lab Project ID: 1185492

Collection Date: 09/25/18 10:18
Received Date: 09/25/18 17:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.331	J	1.00	0.310	mg/L	1		09/28/18 15:13

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 15:13
Container ID: 1185492014-B

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.0990	J	0.100	0.0310	mg/L	1		09/27/18 10:39

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:39
Container ID: 1185492014-B

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0286	J	0.100	0.0250	mg/L	2		09/26/18 19:18
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		09/26/18 19:18

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/18 19:18
Container ID: 1185492014-C

Print Date: 10/01/2018 3:49:51PM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1786800 [BOD/6153]
Blank Lab ID: 1478471

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185492004, 1185492005, 1185492007, 1185492010, 1185492011, 1185492012, 1185492013

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: BOD6153
Analytical Method: SM21 5210B
Instrument:
Analyst: A.L
Analytical Date/Time: 9/26/2018 5:41:26PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1185492 [BOD6153]
Blank Spike Lab ID: 1478472
Date Analyzed: 09/26/2018 17:41

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185492004, 1185492005, 1185492007, 1185492010, 1185492011, 1185492012, 1185492013

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: **BOD6153**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **A.L**

Print Date: 10/01/2018 3:49:57PM

Method Blank

Blank ID: MB for HBN 1786735 [BTF/16908]
Blank Lab ID: 1478203

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185492001, 1185492002, 1185492003, 1185492004, 1185492005, 1185492006, 1185492007, 1185492008, 1185492009, 1185492010, 1185492011, 1185492012, 1185492013, 1185492014

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF16908
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 9/25/2018 6:12:00PM

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Method Blank

Blank ID: MB for HBN 1786771 [BTF/16911]
Blank Lab ID: 1478330

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185492004, 1185492005, 1185492007, 1185492010, 1185492011, 1185492012, 1185492013

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: BTF16911
Analytical Method: SM21 9223B
Instrument:
Analyst: K.W
Analytical Date/Time: 9/26/2018 12:07:00PM

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Method Blank

Blank ID: MB for HBN 1786756 [STS/6036]
Blank Lab ID: 1478271

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185492004, 1185492005, 1185492007, 1185492010, 1185492011, 1185492012, 1185492013

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: STS6036
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW
Analytical Date/Time: 9/26/2018 2:50:46PM

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Duplicate Sample Summary

Original Sample ID: 1185466001
Duplicate Sample ID: 1478274
QC for Samples:

Analysis Date: 09/26/2018 14:50
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	1880	1840	mg/L	2.20	(< 5)

Batch Information

Analytical Batch: STS6036
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 10/01/2018 3:50:02PM

Duplicate Sample Summary

Original Sample ID: 1185480001
Duplicate Sample ID: 1478275

Analysis Date: 09/26/2018 14:50
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1185492004, 1185492005, 1185492007, 1185492010, 1185492011, 1185492012, 1185492013

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	236	234	mg/L	0.85	(< 5)

Batch Information

Analytical Batch: STS6036
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 10/01/2018 3:50:02PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185492 [STS6036]
Blank Spike Lab ID: 1478272
Date Analyzed: 09/26/2018 14:50

Spike Duplicate ID: LCSD for HBN 1185492 [STS6036]
Spike Duplicate Lab ID: 1478273
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185492004, 1185492005, 1185492007, 1185492010, 1185492011, 1185492012, 1185492013

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	23.7	95	25	24.4	98	(75-125)	2.90	(< 5)

Batch Information

Analytical Batch: **STS6036**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **EWW**

Print Date: 10/01/2018 3:50:03PM

Method Blank

Blank ID: MB for HBN 1786885 (WFI/2758) Matrix: Water (Surface, Eff., Ground)
Blank Lab ID: 1478853

QC for Samples:
1185492001, 1185492002, 1185492003, 1185492004, 1185492005, 1185492006, 1185492007, 1185492008, 1185492009, 1185492010, 1185492011, 1185492012, 1185492013, 1185492014

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.0500U	0.100	0.0250	mg/L
Nitrite-N	0.0500U	0.100	0.0250	mg/L
Total Nitrate/Nitrite-N	0.0500U	0.100	0.0250	mg/L

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/26/2018 6:41:56PM

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Method Blank

Blank ID: MB for HBN 1786885 (WFI/2758) Matrix: Water (Surface, Eff., Ground)
Blank Lab ID: 1478855

QC for Samples:
1185492001, 1185492002, 1185492003, 1185492004, 1185492005, 1185492006, 1185492007, 1185492008, 1185492009, 1185492010, 1185492011, 1185492012, 1185492013, 1185492014

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.0500U	0.100	0.0250	mg/L
Nitrite-N	0.0500U	0.100	0.0250	mg/L
Total Nitrate/Nitrite-N	0.0500U	0.100	0.0250	mg/L

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/26/2018 7:57:46PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1185492 [WFI2758]
Blank Spike Lab ID: 1478837
Date Analyzed: 09/26/2018 18:40

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185492001, 1185492002, 1185492003, 1185492004, 1185492005, 1185492006, 1185492007, 1185492008, 1185492009, 1185492010, 1185492011, 1185492012, 1185492013, 1185492014

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.47	99	(70-130)
Nitrite-N	2.5	2.59	103	(90-110)
Total Nitrate/Nitrite-N	5	5.06	101	(90-110)

Batch Information

Analytical Batch: **WFI2758**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AYC**

Print Date: 10/01/2018 3:50:06PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185492 [WFI2758]
Blank Spike Lab ID: 1478854
Date Analyzed: 09/26/2018 19:56

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185492001, 1185492002, 1185492003, 1185492004, 1185492005, 1185492006, 1185492007, 1185492008, 1185492009, 1185492010, 1185492011, 1185492012, 1185492013, 1185492014

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.54	102	(70-130)
Nitrite-N	2.5	2.46	98	(90-110)
Total Nitrate/Nitrite-N	5	4.99	100	(90-110)

Batch Information

Analytical Batch: **WFI2758**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AYC**

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Matrix Spike Summary

Original Sample ID: 1185449001
MS Sample ID: 1478832 MS
MSD Sample ID: 1478833 MSD

Analysis Date: 09/26/2018 20:13
Analysis Date: 09/26/2018 20:15
Analysis Date: 09/26/2018 20:17
Matrix: Drinking Water

QC for Samples: 1185492009, 1185492010, 1185492011, 1185492012, 1185492013, 1185492014

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Nitrate/Nitrite-N	0.100U	5.00	4.5	90	5.00	4.69	94	90-110	4.20	(< 25)

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/26/2018 8:15:16PM

Print Date: 10/01/2018 3:50:08PM

Matrix Spike Summary

Original Sample ID: 1185492008
MS Sample ID: 1478834 MS
MSD Sample ID: 1478835 MSD

Analysis Date: 09/26/2018 18:59
Analysis Date: 09/26/2018 19:01
Analysis Date: 09/26/2018 19:02
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185492001, 1185492002, 1185492003, 1185492004, 1185492005, 1185492006, 1185492007, 1185492008, 1185492009, 1185492010, 1185492011, 1185492012, 1185492013, 1185492014

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.0500U	2.50	2.5	100	2.50	2.57	103	70-130	2.90	(< 25)
Nitrite-N	0.0500U	2.50	2.52	101	2.50	2.39	96	90-110	5.50	(< 25)

Batch Information

Analytical Batch: WFI2758
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/26/2018 7:01:11PM

Print Date: 10/01/2018 3:50:08PM

Method Blank

Blank ID: MB for HBN 1786786 [WXX/12569]
Blank Lab ID: 1478417

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185492004, 1185492005, 1185492007, 1185492010, 1185492011, 1185492012, 1185492013

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: WDA4417
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/26/2018 3:03:59PM

Prep Batch: WXX12569
Prep Method: SM21 4500P-B,E
Prep Date/Time: 9/26/2018 1:26:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1185492 [WXX12569]
Blank Spike Lab ID: 1478418
Date Analyzed: 09/26/2018 15:04

Spike Duplicate ID: LCSD for HBN 1185492 [WXX12569]
Spike Duplicate Lab ID: 1478419
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185492004, 1185492005, 1185492007, 1185492010, 1185492011, 1185492012, 1185492013

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	0.196	98	0.2	0.191	96	(75-125)	2.60	(< 25)

Batch Information

Analytical Batch: **WDA4417**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12569**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **09/26/2018 13:26**
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: 1185492010
MS Sample ID: 1478420 MS
MSD Sample ID: 1478421 MSD

Analysis Date: 09/26/2018 15:12
Analysis Date: 09/26/2018 15:14
Analysis Date: 09/26/2018 15:15
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185492004, 1185492005, 1185492007, 1185492010, 1185492011, 1185492012, 1185492013

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	0.0161J	0.200	.195	90	0.200	0.199	92	75-125	2.20	(< 25)

Batch Information

Analytical Batch: WDA4417
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/26/2018 3:14:46PM

Prep Batch: WXX12569
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 9/26/2018 1:26:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 10/01/2018 3:50:10PM

Method Blank

Blank ID: MB for HBN 1786875 [WXX/12572]
Blank Lab ID: 1478761

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185492001, 1185492002, 1185492003, 1185492004, 1185492005, 1185492006, 1185492007, 1185492008, 1185492009, 1185492010, 1185492011, 1185492012, 1185492013, 1185492014

Results by **SM21 4500-NH3 G**

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

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/27/2018 10:05:39AM

Prep Batch: WXX12572
Prep Method: METHOD
Prep Date/Time: 9/27/2018 9:59:00AM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185492 [WXX12572]
Blank Spike Lab ID: 1478762
Date Analyzed: 09/27/2018 10:07

Spike Duplicate ID: LCSD for HBN 1185492 [WXX12572]
Spike Duplicate Lab ID: 1478763
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185492001, 1185492002, 1185492003, 1185492004, 1185492005, 1185492006, 1185492007, 1185492008, 1185492009, 1185492010, 1185492011, 1185492012, 1185492013, 1185492014

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	0.971	97	1	0.962	96	(75-125)	0.98	(< 25)

Batch Information

Analytical Batch: **WDA4418**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12572**
Prep Method: **METHOD**
Prep Date/Time: **09/27/2018 09:59**
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: 1185492009
MS Sample ID: 1478764 MS
MSD Sample ID: 1478765 MSD

Analysis Date: 09/27/2018 10:27
Analysis Date: 09/27/2018 10:29
Analysis Date: 09/27/2018 10:30
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185492001, 1185492002, 1185492003, 1185492004, 1185492005, 1185492006, 1185492007, 1185492008, 1185492009, 1185492010, 1185492011, 1185492012, 1185492013, 1185492014

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	0.0595J	1.00	.926	87	1.00	0.950	89	75-125	2.60	(< 25)

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/27/2018 10:29:05AM

Prep Batch: WXX12572
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 9/27/2018 9:59:00AM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 10/01/2018 3:50:13PM

Method Blank

Blank ID: MB for HBN 1786958 [WXX/12576]
Blank Lab ID: 1479244

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185492001, 1185492002, 1185492003, 1185492004, 1185492005, 1185492006, 1185492007, 1185492008, 1185492009, 1185492010, 1185492011, 1185492012, 1185492013, 1185492014

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: WDA4420
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/28/2018 2:33:13PM

Prep Batch: WXX12576
Prep Method: METHOD
Prep Date/Time: 9/27/2018 5:30:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185492 [WXX12576]
Blank Spike Lab ID: 1479245
Date Analyzed: 09/28/2018 14:34

Spike Duplicate ID: LCSD for HBN 1185492 [WXX12576]
Spike Duplicate Lab ID: 1479246
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185492001, 1185492002, 1185492003, 1185492004, 1185492005, 1185492006, 1185492007, 1185492008, 1185492009, 1185492010, 1185492011, 1185492012, 1185492013, 1185492014

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	4.33	108	4	3.96	99	(75-125)	8.90	(< 25)

Batch Information

Analytical Batch: **WDA4420**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12576**
Prep Method: **METHOD**
Prep Date/Time: **09/27/2018 17:30**
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: 1185492001
MS Sample ID: 1479247 MS
MSD Sample ID: 1479248 MSD

Analysis Date: 09/28/2018 14:37
Analysis Date: 09/28/2018 14:38
Analysis Date: 09/28/2018 14:39
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185492001, 1185492002, 1185492003, 1185492004, 1185492005, 1185492006, 1185492007, 1185492008, 1185492009, 1185492010, 1185492011, 1185492012, 1185492013, 1185492014

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	0.500U	4.00	3.99	100	4.00	4.09	102	75-125	2.50	(< 25)

Batch Information

Analytical Batch: WDA4420
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/28/2018 2:38:28PM

Prep Batch: WXX12576
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 9/27/2018 5:30:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 10/01/2018 3:50:16PM

SGS REVIEWED KET

SGS North America Inc.
CHAIN OF CUSTODY RECORD

1185492

Locations Nationwide
laska | Maryland
lew Jersey | New York
lorth Carolina | Indiana
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Instructions: Sections 1 - 5 must be filled out.
Omissions may delay the onset of analysis.

Page 1 of 2

Section 1

CLIENT: Stantec
CONTACT: Jake Alward PHONE NO: 343-5202
PROJECT NAME: Wasilla WWTP PROJECT/ PWSID/ PERMIT#:
REPORTS TO: E-MAIL: jake.alward@stantec.com
INVOICE TO: QUOTE #: P.O. #: 20470045

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	TSS	FC	TC (Total Coliform) 1X/10X	TKN/ TP	TKN/ Ammonia	Nitrate/ Nitrite				REMARKS/ LOC ID
Preservative							1	1	Na_2SO_4	Na_2SO_4	H_2SO_4	H_2SO_4	1				
① A-C	MW10	9/25/18	1210	Water	3	G			1			1	1				
② A-C	MW5	↓	1231	↓	3	↓			1			1	1				
③ A-~~F~~C	B1		1250		3				1			1	1				
④ A-F	SW2		1102		6		1	1	1	1	1		1				
⑤ A-F	SW1		1018		6		1	1	1	1	1		1				
⑥ A-C	B3		1320		3				1			1	1				
⑦ A-F	SW3		1333		6		1	1	1	1	1		1				
⑧ A-C	B6		1347		3				1			1	1				
⑨ A-C	B4		1408		3				1			1	1				
⑩ A-F	SW6	↓	1445	↓	6	↓	1	1	1	1	1		1				

Section 5

Relinquished By:	Date	Time	Received By:
(1) [signature]	9/25/18	1704	
(2)			
(3)			
(4)	9/25/18	17:04	Received For Laboratory By: [signature] KET

Section 4 DOD Project? Yes No

Cooler ID: ______

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: ______ or Ambient [ ]
(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT (circled)
(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

5.0 D44
3.0 D36

F083-Kit_Request_and_COC_Templates-Blank
Revised 2013-03-24

SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

1185492

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 2 of 2

Section 1

CLIENT: Stantec

CONTACT: Jake Alward PHONE NO: 343-5202

PROJECT NAME: PROJECT/ PWSID/ PERMIT#:

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

INVOICE TO: QUOTE #:

P.O. #: 2417000415

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: 1	1	Na2SO4	Na2SO4	H2SO4	H2SO4	1			REMARKS/ LOC ID
							BOD	TSS	FC	TC (Quanti-Tex)	TKN / Ammonia	TKN / Ammonia	Nitrate / Nitrite			
(11) A-F	SW7	9/25/18	1500	Water	6	G	1	1	1	1	1		1			
(12) A-F	SW4	"	1515	"	6	"	1	1	1	1	1		1			
(13) A-F	SW5	"	1535	"	6	"	1	1	1	1	1		1			
(14) A-C																

Section 5

	Date	Time	Received By:
Relinquished By: (1)	9/25/18	1704	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	9/25/18	17:04	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C:

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

e-Sample Receipt Form

SGS Workorder #: **1185492**

1 1 8 5 4 9 2

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	
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 @ 5.0 °C Therm. ID: D44
	YES	Cooler ID: 2 @ 3.0 °C Therm. ID: D36
	N/A	Cooler ID: @ °C Therm. ID:
	N/A	Cooler ID: @ °C Therm. ID:
	N/A	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	
If samples received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	YES	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	NO	See Notes.
**Note: If times differ <1hr, record details & login per COC.		
Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis)	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 labelled MW6 arrived with samples but not on COC. Logged in for Fecal Coli, TKN/Ammonia, and Nitrate/Nitrite per containers and collected at 10:18 per JAN.

Sample Containers and Preservatives

Container Id	Preservative	Container Condition
1185492001-A	Na2S2O3 for Chlorine Redu	OK
1185492001-B	H2SO4 to pH < 2	OK
1185492001-C	No Preservative Required	OK
1185492002-A	Na2S2O3 for Chlorine Redu	OK
1185492002-B	H2SO4 to pH < 2	OK
1185492002-C	No Preservative Required	OK
1185492003-A	Na2S2O3 for Chlorine Redu	OK
1185492003-B	H2SO4 to pH < 2	OK
1185492003-C	No Preservative Required	OK
1185492004-A	Na2S2O3 for Chlorine Redu	OK
1185492004-B	H2SO4 to pH < 2	OK
1185492004-C	No Preservative Required	OK
1185492004-D	No Preservative Required	OK
1185492004-E	No Preservative Required	OK
1185492004-F	Na2S2O3 for Chlorine Redu	OK
1185492005-A	Na2S2O3 for Chlorine Redu	OK
1185492005-B	H2SO4 to pH < 2	OK
1185492005-C	No Preservative Required	OK
1185492005-D	No Preservative Required	OK
1185492005-E	No Preservative Required	OK
1185492005-F	Na2S2O3 for Chlorine Redu	OK
1185492006-A	Na2S2O3 for Chlorine Redu	OK
1185492006-B	H2SO4 to pH < 2	OK
1185492006-C	No Preservative Required	OK
1185492007-A	Na2S2O3 for Chlorine Redu	OK
1185492007-B	H2SO4 to pH < 2	OK
1185492007-C	No Preservative Required	OK
1185492007-D	No Preservative Required	OK
1185492007-E	No Preservative Required	OK
1185492007-F	Na2S2O3 for Chlorine Redu	OK
1185492008-A	Na2S2O3 for Chlorine Redu	OK
1185492008-B	H2SO4 to pH < 2	OK
1185492008-C	No Preservative Required	OK
1185492009-A	Na2S2O3 for Chlorine Redu	OK
1185492009-B	H2SO4 to pH < 2	OK
1185492009-C	No Preservative Required	OK
1185492010-A	Na2S2O3 for Chlorine Redu	OK
1185492010-B	H2SO4 to pH < 2	OK
1185492010-C	No Preservative Required	OK
1185492010-D	No Preservative Required	OK
1185492010-E	No Preservative Required	OK
1185492010-F	Na2S2O3 for Chlorine Redu	OK
1185492011-A	Na2S2O3 for Chlorine Redu	OK
1185492011-B	H2SO4 to pH < 2	OK
1185492011-C	No Preservative Required	OK
1185492011-D	No Preservative Required	OK
1185492011-E	No Preservative Required	OK
1185492011-F	Na2S2O3 for Chlorine Redu	OK
1185492012-A	Na2S2O3 for Chlorine Redu	OK
1185492012-B	H2SO4 to pH < 2	OK
1185492012-C	No Preservative Required	OK
1185492012-D	No Preservative Required	OK
1185492012-E	No Preservative Required	OK
1185492012-F	Na2S2O3 for Chlorine Redu	OK
1185492013-A	Na2S2O3 for Chlorine Redu	OK
1185492013-B	H2SO4 to pH < 2	OK
1185492013-C	No Preservative Required	OK
1185492013-D	No Preservative Required	OK
1185492013-E	No Preservative Required	OK
1185492013-F	Na2S2O3 for Chlorine Redu	OK
1185492014-A	Na2S2O3 for Chlorine Redu	OK
1185492014-B	H2SO4 to pH < 2	OK
1185492014-C	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.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

Laboratory Report of Analysis

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

Report Number: **1185522**

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: **1185522**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

1185517002DUP (1479040) DUP

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

MB for HBN 1786892 [BOD/6154] (1478881) MB

5210B – BOD - MB depletion (0.46 mg/L) is greater than the recommended limit of 0.2 mg/L. Samples >10X the MB are not significantly affected; Samples <10X the MB results may be biased high.

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

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Laboratory Qualifiers

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

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SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

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

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

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

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
Shaw	1185522001	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
MW20	1185522002	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
MW14A	1185522003	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
MW14B	1185522004	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
SW10	1185522005	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
MW17	1185522006	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
SW9	1185522007	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
SW8	1185522008	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
MW9	1185522009	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
DUP2	1185522010	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
SW13	1185522011	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
SW12	1185522012	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
MW12	1185522013	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
MW16	1185522014	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
SW11	1185522015	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
B11	1185522016	09/26/2018	09/26/2018	Water (Surface, Eff., Ground)
DUP1	1185522017	09/26/2018	09/26/2018	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)
SM21 4500NO3-F	Flow Injection Analysis
SM21 4500-N D	TKN by Phenate (W)
SM21 9223B	Total Coliform P/A Quant Tray
SM21 4500P-B,E	Total Phosphorus (W)
SM21 2540D	Total Suspended Solids SM20 2540D

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Detectable Results Summary

Client Sample ID: **Shaw**
Lab Sample ID: 1185522001

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	10	MPN/100mL
	Fecal Coliform	12	col/100mL
	Total Coliform	770	MPN/100mL
Waters Department	Ammonia-N	0.0789J	mg/L
	Nitrate-N	0.0336J	mg/L
	Total Kjeldahl Nitrogen	0.518J	mg/L
	Total Phosphorus	0.0599	mg/L
	Total Suspended Solids	4.16	mg/L

Client Sample ID: **MW20**
Lab Sample ID: 1185522002

	Parameter	Result	Units
Waters Department	Ammonia-N	0.0605J	mg/L
	Nitrate-N	0.248	mg/L

Client Sample ID: **MW14A**
Lab Sample ID: 1185522003

	Parameter	Result	Units
Waters Department	Ammonia-N	0.0490J	mg/L
	Nitrate-N	0.0786J	mg/L

Client Sample ID: **MW14B**
Lab Sample ID: 1185522004

	Parameter	Result	Units
Waters Department	Ammonia-N	0.406	mg/L
	Nitrate-N	0.0514J	mg/L
	Total Kjeldahl Nitrogen	0.621J	mg/L

Client Sample ID: **SW10**
Lab Sample ID: 1185522005

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	10.348	MPN/100mL
	Fecal Coliform	10	col/100mL
	Total Coliform	227.656	MPN/100mL
Waters Department	Ammonia-N	0.0530J	mg/L
	Nitrate-N	0.0282J	mg/L
	Total Kjeldahl Nitrogen	0.379J	mg/L
	Total Phosphorus	0.0134J	mg/L
	Total Suspended Solids	0.800J	mg/L

Client Sample ID: **MW17**
Lab Sample ID: 1185522006

	Parameter	Result	Units
Waters Department	Ammonia-N	1.36	mg/L
	Total Kjeldahl Nitrogen	9.73	mg/L

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Detectable Results Summary

Client Sample ID: **SW9**
Lab Sample ID: 1185522007
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	29.7	mg/L
Fecal Coliform	1.0	col/100mL
Total Coliform	238	MPN/100mL
Ammonia-N	0.0415J	mg/L
Total Phosphorus	0.0134J	mg/L
Total Suspended Solids	3.43	mg/L

Client Sample ID: **SW8**
Lab Sample ID: 1185522008
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	2.02	mg/L
Total Coliform	488	MPN/100mL
Ammonia-N	0.0597J	mg/L
Total Kjeldahl Nitrogen	0.554J	mg/L
Total Phosphorus	0.0451	mg/L
Total Suspended Solids	2.06	mg/L

Client Sample ID: **MW9**
Lab Sample ID: 1185522009
Waters Department

Parameter	Result	Units
Ammonia-N	0.208	mg/L
Nitrate-N	0.0298J	mg/L
Total Kjeldahl Nitrogen	0.434J	mg/L

Client Sample ID: **DUP2**
Lab Sample ID: 1185522010
Microbiology Laboratory
Waters Department

Parameter	Result	Units
E. Coli	1	MPN/100mL
Fecal Coliform	2.0	col/100mL
Total Coliform	13000	MPN/100mL
Ammonia-N	0.0472J	mg/L
Total Kjeldahl Nitrogen	0.472J	mg/L
Total Phosphorus	0.0194J	mg/L
Total Suspended Solids	0.700J	mg/L

Client Sample ID: **SW13**
Lab Sample ID: 1185522011
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Total Coliform	1203	MPN/100mL
Ammonia-N	0.0798J	mg/L
Total Kjeldahl Nitrogen	0.396J	mg/L
Total Phosphorus	0.0285	mg/L
Total Suspended Solids	0.600J	mg/L

Detectable Results Summary

Client Sample ID: **SW12**
Lab Sample ID: 1185522012

Parameter	Result	Units
Microbiology Laboratory		
E. Coli	36	MPN/100mL
Fecal Coliform	86	col/100mL
Total Coliform	24200	MPN/100mL
Waters Department		
Ammonia-N	0.0798J	mg/L
Total Kjeldahl Nitrogen	0.434J	mg/L
Total Phosphorus	0.0580	mg/L
Total Suspended Solids	10.5	mg/L

Client Sample ID: **MW12**
Lab Sample ID: 1185522013

Parameter	Result	Units
Waters Department		
Ammonia-N	0.264	mg/L
Nitrite-N	0.0272J	mg/L
Total Kjeldahl Nitrogen	2.06	mg/L

Client Sample ID: **MW16**
Lab Sample ID: 1185522014

Parameter	Result	Units
Microbiology Laboratory		
Fecal Coliform	1.0	col/100mL
Waters Department		
Ammonia-N	0.114	mg/L
Total Kjeldahl Nitrogen	0.483J	mg/L

Client Sample ID: **SW11**
Lab Sample ID: 1185522015

Parameter	Result	Units
Microbiology Laboratory		
E. Coli	4	MPN/100mL
Fecal Coliform	14	col/100mL
Total Coliform	24200	MPN/100mL
Waters Department		
Ammonia-N	0.0626J	mg/L
Total Phosphorus	0.249	mg/L
Total Suspended Solids	15.8	mg/L

Client Sample ID: **B11**
Lab Sample ID: 1185522016

Parameter	Result	Units
Waters Department		
Ammonia-N	0.185	mg/L

Client Sample ID: **DUP1**
Lab Sample ID: 1185522017

Parameter	Result	Units
Waters Department		
Ammonia-N	0.180	mg/L

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Results of **Shaw**

Client Sample ID: **Shaw**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522001
Lab Project ID: 1185522

Collection Date: 09/26/18 09:44
Received Date: 09/26/18 16:37
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		09/27/18 17:37

Batch Information

Analytical Batch: BOD6154
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/27/18 17:37
Container ID: 1185522001-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	12		1.00	1.00	col/100mL	1		09/26/18 17:43

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 17:43
Container ID: 1185522001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	10		1	1	MPN/100m	1		09/27/18 10:54
Total Coliform	770		1	1	MPN/100m	1		09/27/18 10:54

Batch Information

Analytical Batch: BTF16918
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/27/18 10:54
Container ID: 1185522001-D

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **Shaw**

Client Sample ID: **Shaw**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522001
Lab Project ID: 1185522

Collection Date: 09/26/18 09:44
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	4.16		0.990	0.307	mg/L	1		09/28/18 16:39

Batch Information

Analytical Batch: STS6039
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/28/18 16:39
Container ID: 1185522001-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.518 J		1.00	0.310	mg/L	1		10/02/18 11:13

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:13
Container ID: 1185522001-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.0789 J		0.100	0.0310	mg/L	1		09/27/18 10:49

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:49
Container ID: 1185522001-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0336 J		0.100	0.0250	mg/L	2		09/27/18 19:40
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:40

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **Shaw**

Client Sample ID: **Shaw**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522001
Lab Project ID: 1185522

Collection Date: 09/26/18 09:44
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:40
Container ID: 1185522001-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0599		0.0200	0.00500	mg/L	1		10/01/18 13:45

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/01/18 13:45
Container ID: 1185522001-B

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/01/18 11:06
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **MW20**

Client Sample ID: **MW20**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522002
Lab Project ID: 1185522

Collection Date: 09/26/18 10:20
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		09/26/18 17:43

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 17:43
Container ID: 1185522002-A

Results of **MW20**

Client Sample ID: **MW20**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522002
Lab Project ID: 1185522

Collection Date: 09/26/18 10:20
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

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		10/02/18 11:14

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:14
Container ID: 1185522002-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.0605	J	0.100	0.0310	mg/L	1		09/27/18 10:50

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:50
Container ID: 1185522002-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.248		0.100	0.0250	mg/L	2		09/27/18 18:58
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 18:58

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 18:58
Container ID: 1185522002-C

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **MW14A**

Client Sample ID: **MW14A**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522003
Lab Project ID: 1185522

Collection Date: 09/26/18 10:55
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		09/26/18 17:43

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 17:43
Container ID: 1185522003-A

Results of **MW14A**

Client Sample ID: **MW14A**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522003
Lab Project ID: 1185522

Collection Date: 09/26/18 10:55
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

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		10/02/18 11:18

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:18
Container ID: 1185522003-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.0490 J		0.100	0.0310	mg/L	1		09/27/18 10:52

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:52
Container ID: 1185522003-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0786 J		0.100	0.0250	mg/L	2		09/27/18 19:00
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:00

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:00
Container ID: 1185522003-C

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **MW14B**

Client Sample ID: **MW14B**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522004
Lab Project ID: 1185522

Collection Date: 09/26/18 11:11
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	20.0	U	20.0	20.0	col/100mL	1		09/26/18 18:28

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 18:28
Container ID: 1185522004-A

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Results of **MW14B**

Client Sample ID: **MW14B**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522004
Lab Project ID: 1185522

Collection Date: 09/26/18 11:11
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.621	J	1.00	0.310	mg/L	1		10/02/18 11:19

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:19
Container ID: 1185522004-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.406		0.100	0.0310	mg/L	1		09/27/18 10:57

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:57
Container ID: 1185522004-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0514	J	0.100	0.0250	mg/L	2		09/27/18 19:01
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 19:01

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:01
Container ID: 1185522004-C

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Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522005
Lab Project ID: 1185522

Collection Date: 09/26/18 12:05
Received Date: 09/26/18 16:37
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		09/27/18 17:37

Batch Information

Analytical Batch: BOD6154
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/27/18 17:37
Container ID: 1185522005-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	10		1.00	1.00	col/100mL	1		09/26/18 18:28

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 18:28
Container ID: 1185522005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	10.348		2.587	2.587	MPN/100m	2.587		09/27/18 10:54
Total Coliform	227.656		2.587	2.587	MPN/100m	2.587		09/27/18 10:54

Batch Information

Analytical Batch: BTF16918
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/27/18 10:54
Container ID: 1185522005-D

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522005
Lab Project ID: 1185522

Collection Date: 09/26/18 12:05
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	0.800	J	1.00	0.310	mg/L	1		09/28/18 16:39

Batch Information

Analytical Batch: STS6039
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/28/18 16:39
Container ID: 1185522005-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.379	J	1.00	0.310	mg/L	1		10/02/18 11:21

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:21
Container ID: 1185522005-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.0530	J	0.100	0.0310	mg/L	1		09/27/18 10:59

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 10:59
Container ID: 1185522005-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0282	J	0.100	0.0250	mg/L	2		09/27/18 19:03
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 19:03

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522005
Lab Project ID: 1185522

Collection Date: 09/26/18 12:05
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:03
Container ID: 1185522005-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0134	J	0.0200	0.00500	mg/L	1		10/01/18 14:04

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/01/18 14:04
Container ID: 1185522005-B

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/01/18 11:06
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **MW17**

Client Sample ID: **MW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522006
Lab Project ID: 1185522

Collection Date: 09/26/18 12:15
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	20.0	U	20.0	20.0	col/100mL	1		09/26/18 18:28

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 18:28
Container ID: 1185522006-A

Results of **MW17**

Client Sample ID: **MW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522006
Lab Project ID: 1185522

Collection Date: 09/26/18 12:15
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	9.73		1.00	0.310	mg/L	1		10/02/18 11:25

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:25
Container ID: 1185522006-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	1.36		0.100	0.0310	mg/L	1		09/27/18 11:00

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 11:00
Container ID: 1185522006-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:05
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:05

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:05
Container ID: 1185522006-C

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522007
Lab Project ID: 1185522

Collection Date: 09/26/18 12:30
Received Date: 09/26/18 16:37
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	29.7		2.00	2.00	mg/L	1		09/27/18 17:37

Batch Information

Analytical Batch: BOD6154
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/27/18 17:37
Container ID: 1185522007-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.0		1.00	1.00	col/100mL	1		09/26/18 18:28

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 18:28
Container ID: 1185522007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		09/27/18 10:54
Total Coliform	238		1	1	MPN/100m	1		09/27/18 10:54

Batch Information

Analytical Batch: BTF16918
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/27/18 10:54
Container ID: 1185522007-D

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522007
Lab Project ID: 1185522

Collection Date: 09/26/18 12:30
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	3.43		0.980	0.304	mg/L	1		09/28/18 16:39

Batch Information

Analytical Batch: STS6039
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/28/18 16:39
Container ID: 1185522007-F

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		10/02/18 11:26

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:26
Container ID: 1185522007-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.0415 J		0.100	0.0310	mg/L	1		09/27/18 11:05

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 11:05
Container ID: 1185522007-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:07
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:07

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522007
Lab Project ID: 1185522

Collection Date: 09/26/18 12:30
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:07
Container ID: 1185522007-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0134	J	0.0200	0.00500	mg/L	1		10/01/18 13:48

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/01/18 13:48
Container ID: 1185522007-B

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/01/18 11:06
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522008
Lab Project ID: 1185522

Collection Date: 09/26/18 12:51
Received Date: 09/26/18 16:37
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	2.02		2.00	2.00	mg/L	1		09/27/18 17:37

Batch Information

Analytical Batch: BOD6154
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/27/18 17:37
Container ID: 1185522008-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		09/26/18 18:28

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 18:28
Container ID: 1185522008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		09/27/18 10:54
Total Coliform	488		1	1	MPN/100m	1		09/27/18 10:54

Batch Information

Analytical Batch: BTF16918
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/27/18 10:54
Container ID: 1185522008-D

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522008
Lab Project ID: 1185522

Collection Date: 09/26/18 12:51
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	2.06		0.980	0.304	mg/L	1		09/28/18 16:39

Batch Information

Analytical Batch: STS6039
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/28/18 16:39
Container ID: 1185522008-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.554 J		1.00	0.310	mg/L	1		10/02/18 11:27

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:27
Container ID: 1185522008-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.0597 J		0.100	0.0310	mg/L	1		09/27/18 11:07

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 11:07
Container ID: 1185522008-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:17
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:17

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522008
Lab Project ID: 1185522

Collection Date: 09/26/18 12:51
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:17
Container ID: 1185522008-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0451		0.0200	0.00500	mg/L	1		10/01/18 13:49

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/01/18 13:49
Container ID: 1185522008-B

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/01/18 11:06
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **MW9**

Client Sample ID: **MW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522009
Lab Project ID: 1185522

Collection Date: 09/26/18 12:58
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	2.00	U	2.00	2.00	col/100mL	1		09/26/18 18:28

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 18:28
Container ID: 1185522009-A

Results of **MW9**

Client Sample ID: **MW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522009
Lab Project ID: 1185522

Collection Date: 09/26/18 12:58
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.434	J	1.00	0.310	mg/L	1		10/02/18 11:28

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:28
Container ID: 1185522009-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.208		0.100	0.0310	mg/L	1		09/27/18 11:08

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 11:08
Container ID: 1185522009-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0298	J	0.100	0.0250	mg/L	2		09/27/18 19:19
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 19:19

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:19
Container ID: 1185522009-C

Results of **DUP2**

Client Sample ID: **DUP2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522010
Lab Project ID: 1185522

Collection Date: 09/26/18 13:55
Received Date: 09/26/18 16:37
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		09/27/18 17:37

Batch Information

Analytical Batch: BOD6154
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/27/18 17:37
Container ID: 1185522010-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	2.0		1.00	1.00	col/100mL	1		09/26/18 18:28

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 18:28
Container ID: 1185522010-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1		1	1	MPN/100m	1		09/27/18 10:54
Total Coliform	13000		10	10	MPN/100m	10		09/27/18 10:54

Batch Information

Analytical Batch: BTF16918
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/27/18 10:54
Container ID: 1185522010-D

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **DUP2**

Client Sample ID: **DUP2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522010
Lab Project ID: 1185522

Collection Date: 09/26/18 13:55
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	0.700	J	1.00	0.310	mg/L	1		09/28/18 16:39

Batch Information

Analytical Batch: STS6039
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/28/18 16:39
Container ID: 1185522010-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.472	J	1.00	0.310	mg/L	1		10/02/18 11:30

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:30
Container ID: 1185522010-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.0472	J	0.100	0.0310	mg/L	1		09/27/18 11:10

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 11:10
Container ID: 1185522010-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 19:21
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 19:21

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **DUP2**

Client Sample ID: **DUP2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522010
Lab Project ID: 1185522

Collection Date: 09/26/18 13:55
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:21
Container ID: 1185522010-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0194	J	0.0200	0.00500	mg/L	1		10/01/18 13:50

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/01/18 13:50
Container ID: 1185522010-B

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/01/18 11:06
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522011
Lab Project ID: 1185522

Collection Date: 09/26/18 13:55
Received Date: 09/26/18 16:37
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		09/27/18 17:37

Batch Information

Analytical Batch: BOD6154
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/27/18 17:37
Container ID: 1185522011-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		09/26/18 18:28

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 18:28
Container ID: 1185522011-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		09/27/18 10:54
Total Coliform	1203		1	1	MPN/100m	1		09/27/18 10:54

Batch Information

Analytical Batch: BTF16918
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/27/18 10:54
Container ID: 1185522011-D

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522011
Lab Project ID: 1185522

Collection Date: 09/26/18 13:55
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	0.600	J	1.00	0.310	mg/L	1		09/28/18 16:39

Batch Information

Analytical Batch: STS6039
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/28/18 16:39
Container ID: 1185522011-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.396	J	1.00	0.310	mg/L	1		10/02/18 11:31

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:31
Container ID: 1185522011-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.0798	J	0.100	0.0310	mg/L	1		09/27/18 11:29

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 11:29
Container ID: 1185522011-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 19:22
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 19:22

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522011
Lab Project ID: 1185522

Collection Date: 09/26/18 13:55
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:22
Container ID: 1185522011-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0285		0.0200	0.00500	mg/L	1		10/01/18 13:51

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/01/18 13:51
Container ID: 1185522011-B

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/01/18 11:06
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522012
Lab Project ID: 1185522

Collection Date: 09/26/18 14:20
Received Date: 09/26/18 16:37
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		09/27/18 17:37

Batch Information

Analytical Batch: BOD6154
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/27/18 17:37
Container ID: 1185522012-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	86		1.00	1.00	col/100mL	1		09/26/18 18:28

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 18:28
Container ID: 1185522012-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	36		1	1	MPN/100m	1		09/27/18 10:54
Total Coliform	24200		10	10	MPN/100m	10		09/27/18 10:54

Batch Information

Analytical Batch: BTF16918
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/27/18 10:54
Container ID: 1185522012-D

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522012
Lab Project ID: 1185522

Collection Date: 09/26/18 14:20
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	10.5		1.18	0.365	mg/L	1		09/28/18 16:39

Batch Information

Analytical Batch: STS6039
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/28/18 16:39
Container ID: 1185522012-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.434 J		1.00	0.310	mg/L	1		10/02/18 11:32

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:32
Container ID: 1185522012-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.0798 J		0.100	0.0310	mg/L	1		09/27/18 11:30

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 11:30
Container ID: 1185522012-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:24
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:24

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522012
Lab Project ID: 1185522

Collection Date: 09/26/18 14:20
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:24
Container ID: 1185522012-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0580		0.0200	0.00500	mg/L	1		10/01/18 13:54

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/01/18 13:54
Container ID: 1185522012-B

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/01/18 11:06
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **MW12**

Client Sample ID: **MW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522013
Lab Project ID: 1185522

Collection Date: 09/26/18 14:00
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	2.00	U	2.00	2.00	col/100mL	1		09/26/18 18:28

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 18:28
Container ID: 1185522013-A

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **MW12**

Client Sample ID: **MW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522013
Lab Project ID: 1185522

Collection Date: 09/26/18 14:00
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	2.06		1.00	0.310	mg/L	1		10/02/18 11:34

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:34
Container ID: 1185522013-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.264		0.100	0.0310	mg/L	1		09/27/18 11:32

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 11:32
Container ID: 1185522013-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 19:26
Nitrite-N	0.0272	J	0.100	0.0250	mg/L	2		09/27/18 19:26

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:26
Container ID: 1185522013-C

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **MW16**

Client Sample ID: **MW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522014
Lab Project ID: 1185522

Collection Date: 09/26/18 14:37
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.0		1.00	1.00	col/100mL	1		09/26/18 18:28

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 18:28
Container ID: 1185522014-A

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Results of **MW16**

Client Sample ID: **MW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522014
Lab Project ID: 1185522

Collection Date: 09/26/18 14:37
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.483	J	1.00	0.310	mg/L	1		10/02/18 11:35

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:35
Container ID: 1185522014-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.114		0.100	0.0310	mg/L	1		09/27/18 11:34

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 11:34
Container ID: 1185522014-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 19:28
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 19:28

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:28
Container ID: 1185522014-C

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522015
Lab Project ID: 1185522

Collection Date: 09/26/18 15:00
Received Date: 09/26/18 16:37
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		09/27/18 17:37

Batch Information

Analytical Batch: BOD6154
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/27/18 17:37
Container ID: 1185522015-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	14		1.00	1.00	col/100mL	1		09/26/18 18:28

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 18:28
Container ID: 1185522015-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	4		1	1	MPN/100m	1		09/27/18 10:54
Total Coliform	24200		10	10	MPN/100m	10		09/27/18 10:54

Batch Information

Analytical Batch: BTF16918
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/27/18 10:54
Container ID: 1185522015-D

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522015
Lab Project ID: 1185522

Collection Date: 09/26/18 15:00
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	15.8		1.54	0.477	mg/L	1		09/28/18 16:39

Batch Information

Analytical Batch: STS6039
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/28/18 16:39
Container ID: 1185522015-F

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		10/02/18 11:36

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:36
Container ID: 1185522015-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.0626 J		0.100	0.0310	mg/L	1		09/27/18 11:36

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 11:36
Container ID: 1185522015-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:29
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:29

Print Date: 10/02/2018 3:18:01PM

J flagging is activated

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522015
Lab Project ID: 1185522

Collection Date: 09/26/18 15:00
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:29
Container ID: 1185522015-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.249		0.0200	0.00500	mg/L	1		10/01/18 13:55

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/01/18 13:55
Container ID: 1185522015-B

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/01/18 11:06
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **B11**

Client Sample ID: **B11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522016
Lab Project ID: 1185522

Collection Date: 09/26/18 15:15
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		09/26/18 18:28

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 18:28
Container ID: 1185522016-A

Results of **B11**

Client Sample ID: **B11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522016
Lab Project ID: 1185522

Collection Date: 09/26/18 15:15
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

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		10/02/18 11:40

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:40
Container ID: 1185522016-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.185		0.100	0.0310	mg/L	1		09/27/18 11:37

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 11:37
Container ID: 1185522016-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:31
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:31

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:31
Container ID: 1185522016-C

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Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522017
Lab Project ID: 1185522

Collection Date: 09/26/18 15:15
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		09/26/18 18:28

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/18 18:28
Container ID: 1185522017-A

Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185522017
Lab Project ID: 1185522

Collection Date: 09/26/18 15:15
Received Date: 09/26/18 16:37
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

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		10/02/18 11:41

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 10/02/18 11:41
Container ID: 1185522017-B

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/01/18 10:10
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	0.180		0.100	0.0310	mg/L	1		09/27/18 11:42

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 11:42
Container ID: 1185522017-B

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 09/27/18 09:59
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:33
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:33

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:33
Container ID: 1185522017-C

Method Blank

Blank ID: MB for HBN 1786892 [BOD/6154]
Blank Lab ID: 1478881

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185522001, 1185522005, 1185522007, 1185522008, 1185522010, 1185522011, 1185522012, 1185522015

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: BOD6154
Analytical Method: SM21 5210B
Instrument:
Analyst: A.L
Analytical Date/Time: 9/27/2018 5:37:00PM

Print Date: 10/02/2018 3:18:06PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185522 [BOD6154]
Blank Spike Lab ID: 1478882
Date Analyzed: 09/27/2018 17:37

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185522001, 1185522005, 1185522007, 1185522008, 1185522010, 1185522011, 1185522012, 1185522015

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	225	114	(84.6-115.4

Batch Information

Analytical Batch: **BOD6154**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **A.L**

Print Date: 10/02/2018 3:18:07PM

Method Blank

Blank ID: MB for HBN 1786803 [BTF/16914]
Blank Lab ID: 1478481

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185522001, 1185522002, 1185522003, 1185522004, 1185522005, 1185522006, 1185522007, 1185522008, 1185522009, 1185522010, 1185522011, 1185522012, 1185522013, 1185522014, 1185522015, 1185522016, 1185522017

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 9/26/2018 5:43:00PM

Print Date: 10/02/2018 3:18:08PM

Method Blank

Blank ID: MB for HBN 1786803 [BTF/16914]
Blank Lab ID: 1478482

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185522001, 1185522002, 1185522003, 1185522004, 1185522005, 1185522006, 1185522007, 1185522008, 1185522009, 1185522010, 1185522011, 1185522012, 1185522013, 1185522014, 1185522015, 1185522016, 1185522017

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF16914
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 9/26/2018 6:28:00PM

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Method Blank

Blank ID: MB for HBN 1786848 [BTF/16918]
Blank Lab ID: 1478659

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185522001, 1185522005, 1185522007, 1185522008, 1185522010, 1185522011, 1185522012, 1185522015

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: BTF16918
Analytical Method: SM21 9223B
Instrument:
Analyst: K.W
Analytical Date/Time: 9/27/2018 10:54:00AM

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Method Blank

Blank ID: MB for HBN 1786927 [STS/6039]
Blank Lab ID: 1479037

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185522001, 1185522005, 1185522007, 1185522008, 1185522010, 1185522011, 1185522012, 1185522015

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: STS6039
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW
Analytical Date/Time: 9/28/2018 4:39:00PM

Print Date: 10/02/2018 3:18:11PM

Duplicate Sample Summary

Original Sample ID: 1185517002
Duplicate Sample ID: 1479040

Analysis Date: 09/28/2018 16:39
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1185522001, 1185522005, 1185522007, 1185522008, 1185522010, 1185522011, 1185522012, 1185522015

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	12.0	10.3	mg/L	14.90*	(< 5)

Batch Information

Analytical Batch: STS6039
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 10/02/2018 3:18:12PM

Duplicate Sample Summary

Original Sample ID: 1479036
Duplicate Sample ID: 1479041

Analysis Date: 09/28/2018 16:39
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1185522001, 1185522005, 1185522007, 1185522008, 1185522010, 1185522011, 1185522012, 1185522015

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	4520	4540	mg/L	0.44	(< 5)

Batch Information

Analytical Batch: STS6039
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 10/02/2018 3:18:12PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185522 [STS6039]
Blank Spike Lab ID: 1479038
Date Analyzed: 09/28/2018 16:39

Spike Duplicate ID: LCSD for HBN 1185522 [STS6039]
Spike Duplicate Lab ID: 1479039
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185522001, 1185522005, 1185522007, 1185522008, 1185522010, 1185522011, 1185522012, 1185522015

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	24.3	97	25	24.5	98	(75-125)	0.82	(< 5)

Batch Information

Analytical Batch: **STS6039**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **EWW**

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Method Blank

Blank ID: MB for HBN 1786955 (WFI/2759) Matrix: Water (Surface, Eff., Ground)
Blank Lab ID: 1479261

QC for Samples:
1185522002, 1185522003, 1185522004, 1185522005, 1185522006, 1185522007, 1185522008, 1185522009, 1185522010, 1185522011, 1185522012, 1185522013, 1185522014, 1185522015, 1185522016, 1185522017

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.0314J	0.100	0.0250	mg/L
Nitrite-N	0.0500U	0.100	0.0250	mg/L
Total Nitrate/Nitrite-N	0.0314J	0.100	0.0250	mg/L

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/27/2018 6:54:58PM

Method Blank

Blank ID: MB for HBN 1786955 (WFI/2759)
Blank Lab ID: 1479263

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185522001, 1185522002, 1185522003, 1185522004, 1185522005, 1185522006, 1185522007, 1185522008, 1185522009, 1185522010, 1185522011, 1185522012, 1185522013, 1185522014, 1185522015, 1185522016, 1185522017

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.0500U	0.100	0.0250	mg/L
Nitrite-N	0.0500U	0.100	0.0250	mg/L
Total Nitrate/Nitrite-N	0.0500U	0.100	0.0250	mg/L

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/27/2018 7:36:58PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1185522 [WFI2759]
Blank Spike Lab ID: 1479236
Date Analyzed: 09/27/2018 18:53

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185522002, 1185522003, 1185522004, 1185522005, 1185522006, 1185522007, 1185522008, 1185522009, 1185522010, 1185522011, 1185522012, 1185522013, 1185522014, 1185522015, 1185522016, 1185522017

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.29	92	(70-130)
Nitrite-N	2.5	2.45	98	(90-110)
Total Nitrate/Nitrite-N	5	4.74	95	(90-110)

Batch Information

Analytical Batch: **WFI2759**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AYC**

Print Date: 10/02/2018 3:18:16PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185522 [WFI2759]
Blank Spike Lab ID: 1479262
Date Analyzed: 09/27/2018 19:35

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185522001, 1185522002, 1185522003, 1185522004, 1185522005, 1185522006, 1185522007, 1185522008, 1185522009, 1185522010, 1185522011, 1185522012, 1185522013, 1185522014, 1185522015, 1185522016, 1185522017

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.86	114	(70-130)
Nitrite-N	2.5	2.43	97	(90-110)
Total Nitrate/Nitrite-N	5	5.28	106	(90-110)

Batch Information

Analytical Batch: **WFI2759**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AYC**

Print Date: 10/02/2018 3:18:16PM

Matrix Spike Summary

Original Sample ID: 1185522007
MS Sample ID: 1479225 MS
MSD Sample ID: 1479226 MSD

Analysis Date: 09/27/2018 19:07
Analysis Date: 09/27/2018 19:08
Analysis Date: 09/27/2018 19:10
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185522001, 1185522002, 1185522003, 1185522004, 1185522005, 1185522006, 1185522007, 1185522008, 1185522009, 1185522010, 1185522011, 1185522012, 1185522013, 1185522014, 1185522015, 1185522016, 1185522017

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.0500U	2.50	2.67	107	2.50	2.78	111	70-130	4.10	(< 25)
Nitrite-N	0.0500U	2.50	2.41	97	2.50	2.39	96	90-110	0.87	(< 25)

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/27/2018 7:08:57PM

Print Date: 10/02/2018 3:18:17PM

Matrix Spike Summary

Original Sample ID: 1185536007
MS Sample ID: 1479227 MS
MSD Sample ID: 1479228 MSD

Analysis Date: 09/27/2018 19:52
Analysis Date: 09/27/2018 19:54
Analysis Date: 09/27/2018 19:56
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185522001, 1185522008, 1185522009, 1185522010, 1185522011, 1185522012, 1185522013, 1185522014, 1185522015, 1185522016, 1185522017

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	5.21	2.50	7.43	89	2.50	7.63	97	70-130	2.70	(< 25)
Nitrite-N	0.0500U	2.50	2.27	91	2.50	2.29	92	90-110	0.86	(< 25)

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/27/2018 7:54:27PM

Print Date: 10/02/2018 3:18:17PM

Method Blank

Blank ID: MB for HBN 1786876 [WXX/12573]
Blank Lab ID: 1478766

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185522001, 1185522002, 1185522003, 1185522004, 1185522005, 1185522006, 1185522007, 1185522008, 1185522009, 1185522010, 1185522011, 1185522012, 1185522013, 1185522014, 1185522015, 1185522016, 1185522017

Results by **SM21 4500-NH3 G**

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

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/27/2018 10:40:48AM

Prep Batch: WXX12573
Prep Method: METHOD
Prep Date/Time: 9/27/2018 9:59:00AM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Print Date: 10/02/2018 3:18:18PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185522 [WXX12573]
Blank Spike Lab ID: 1478767
Date Analyzed: 09/27/2018 10:45

Spike Duplicate ID: LCSD for HBN 1185522 [WXX12573]
Spike Duplicate Lab ID: 1478768
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185522001, 1185522002, 1185522003, 1185522004, 1185522005, 1185522006, 1185522007, 1185522008, 1185522009, 1185522010, 1185522011, 1185522012, 1185522013, 1185522014, 1185522015, 1185522016, 1185522017

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	1.00	100	1	0.984	98	(75-125)	1.80	(< 25)

Batch Information

Analytical Batch: **WDA4418**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12573**
Prep Method: **METHOD**
Prep Date/Time: **09/27/2018 09:59**
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: 1185522003
MS Sample ID: 1478769 MS
MSD Sample ID: 1478770 MSD

Analysis Date: 09/27/2018 10:52
Analysis Date: 09/27/2018 10:54
Analysis Date: 09/27/2018 10:55
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185522001, 1185522002, 1185522003, 1185522004, 1185522005, 1185522006, 1185522007, 1185522008, 1185522009, 1185522010, 1185522011, 1185522012, 1185522013, 1185522014, 1185522015, 1185522016, 1185522017

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	0.0490J	1.00	.884	84	1.00	0.936	89	75-125	5.80	(< 25)

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/27/2018 10:54:10AM

Prep Batch: WXX12573
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 9/27/2018 9:59:00AM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 10/02/2018 3:18:20PM

Method Blank

Blank ID: MB for HBN 1787032 [WXX/12578]
Blank Lab ID: 1479595

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185522001, 1185522005, 1185522007, 1185522008, 1185522010, 1185522011, 1185522012, 1185522015

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

Parameter	Results	LOQ/CL	DL	Units
Total Phosphorus	0.00590J	0.0200	0.00500	mg/L

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 10/1/2018 1:27:08PM

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/1/2018 11:06:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185522 [WXX12578]
Blank Spike Lab ID: 1479596
Date Analyzed: 10/01/2018 13:27

Spike Duplicate ID: LCSD for HBN 1185522 [WXX12578]
Spike Duplicate Lab ID: 1479597
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185522001, 1185522005, 1185522007, 1185522008, 1185522010, 1185522011, 1185522012, 1185522015

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	0.216	108	0.2	0.205	103	(75-125)	5.20	(< 25)

Batch Information

Analytical Batch: **WDA4422**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12578**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **10/01/2018 11:06**
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: 1185522001
MS Sample ID: 1479598 MS
MSD Sample ID: 1479599 MSD

Analysis Date: 10/01/2018 13:45
Analysis Date: 10/01/2018 13:46
Analysis Date: 10/01/2018 13:47
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185522001, 1185522005, 1185522007, 1185522008, 1185522010, 1185522011, 1185522012, 1185522015

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	0.0599	0.200	.261	101	0.200	0.258	99	75-125	1.30	(< 25)

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 10/1/2018 1:46:27PM

Prep Batch: WXX12578
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 10/1/2018 11:06:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 10/02/2018 3:18:24PM

Method Blank

Blank ID: MB for HBN 1787109 [WXX/12582]
Blank Lab ID: 1479970

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185522001, 1185522002, 1185522003, 1185522004, 1185522005, 1185522006, 1185522007, 1185522008, 1185522009, 1185522010, 1185522011, 1185522012, 1185522013, 1185522014, 1185522015, 1185522016, 1185522017

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: WDA4424
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 10/2/2018 11:09:19AM

Prep Batch: WXX12582
Prep Method: METHOD
Prep Date/Time: 10/1/2018 10:10:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1185522 [WXX12582]
Blank Spike Lab ID: 1479971
Date Analyzed: 10/02/2018 11:10

Spike Duplicate ID: LCSD for HBN 1185522 [WXX12582]
Spike Duplicate Lab ID: 1479972
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185522001, 1185522002, 1185522003, 1185522004, 1185522005, 1185522006, 1185522007, 1185522008, 1185522009, 1185522010, 1185522011, 1185522012, 1185522013, 1185522014, 1185522015, 1185522016, 1185522017

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	4.44	111	4	4.26	106	(75-125)	4.10	(< 25)

Batch Information

Analytical Batch: **WDA4424**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12582**
Prep Method: **METHOD**
Prep Date/Time: **10/01/2018 10:10**
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: 1185522002
MS Sample ID: 1479973 MS
MSD Sample ID: 1479974 MSD

Analysis Date: 10/02/2018 11:14
Analysis Date: 10/02/2018 11:15
Analysis Date: 10/02/2018 11:17
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185522001, 1185522002, 1185522003, 1185522004, 1185522005, 1185522006, 1185522007, 1185522008, 1185522009, 1185522010, 1185522011, 1185522012, 1185522013, 1185522014, 1185522015, 1185522016, 1185522017

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	0.500U	4.00	4.42	111	4.00	4.15	104	75-125	6.40	(< 25)

Batch Information

Analytical Batch: WDA4424
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 10/2/2018 11:15:54AM

Prep Batch: WXX12582
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 10/1/2018 10:10:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 10/02/2018 3:18:26PM

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CHAIN OF CUSTODY RECORD

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1185522

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

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Section 1

CLIENT: Stantec

CONTACT: Jake Alward PHONE NO: 343-5202

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

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

INVOICE TO: QUOTE #:

P.O. #: 204710415

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	TSS	FC	TC (Quant) 1x/10x	TKN/Ammonia	TKN/Ammonia 2P	Nitrate/Nitrite				REMARKS/ LOC ID
Preservative							1	1	Na_2SO_4	Na_2SO_4	H_2SO_4	H_2SO_4	1				
① A-F	Shaw	9/26/18	944	Water	6	G	1	1	1	1		1	1				
② A-C	MW20	↓	1020	↓	3	↓			1		1		1				
③ A-C	MW14A		1055		3				1		1		1				
④ A-C	MW14B		1111		3				1		1		1				
⑤ A-F	SW10		1205		6		1	1	1	1		1	1				
⑥ A-C	MW17		1215		3				1		1		1				
⑦ A-F	SW9		1230		6		1	1	1	1		1	1				
⑧ A-F	SW8		1251		6		1	1	1	1		1	1				
⑨ A-C	MW8		1258		3				1		1		1				
⑩ A-F	DUP2	↓	1355	↓	6	↓	1	1	1	1		1	1				

Section 5

Relinquished By:	Date	Time	Received By:
(1) [signature]	9/26/18	16:37	
(2)			
(3)			
(4)	9/26/18	16:37	Received For Laboratory By: [signature]

Section 4 DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID: ____

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 7.3 D12 / 7.3 D1C

or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle) (+f)

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

SGS North America Inc.
CHAIN OF CUSTODY RECORD

1185522

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

Section 1

CLIENT:

CONTACT: PHONE NO:

PROJECT NAME: PROJECT/ PWSID/ PERMIT#:

REPORTS TO: E-MAIL:

INVOICE TO: QUOTE #: 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: BOD	TSS	FC	TC Quant x10x	TKN/Ammonia	TKN/Ammonia TP	Nitrate/Nitrite				REMARKS/ LOC ID
							1	1	Na_2SO_4	Na_2SO_4	H_2SO_4	H_2SO_4	1				
(11) A-F	SW13	9/26/19	1355	Water	6	G	1	1	1	1		1	1				
(12) A-F	SW12		1420		6		1	1	1			1	1				
(13) A-C	MW12		1400		3				1		1		1				
(14) A-C	MW16		1437		3				1		1		1				
(15) A-F	SW11		1500		6		1	1	1			1	1				
(16) A-C	B11		1515		3				1		1		1				
(17) A-C	DUP1		1515		3				1		1		1				

Section 5

	Date	Time	
Relinquished By: (1)	9/26/19	16:37	Received By:
Relinquished By: (2)			Received By:
Relinquished By: (3)			Received By:
Relinquished By: (4)	9/26/19	16:37	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 7.3 B12, 7.3 B11

or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle) (HB)

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

e-Sample Receipt Form

SGS Workorder #: **1185522**

1 1 8 5 5 2 2

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	
YES **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	NO	Cooler ID: 1 @ 7.3 °C Therm. ID: D12
	NO	Cooler ID: 2 @ 7.3 °C Therm. ID: D11
	N/A	Cooler ID: @ °C Therm. ID:
	N/A	Cooler ID: @ °C Therm. ID:
	N/A	Cooler ID: @ °C Therm. ID:
*If >6°C, were samples collected <8 hours ago?	YES	
If <0°C, were sample containers ice free?	N/A	
If samples received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	YES	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	YES	
**Note: If times differ <1hr, record details & login per COC.		
Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis)	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
1185522001-A	Na2S2O3 for Chlorine Redu	OK
1185522001-B	H2SO4 to pH < 2	OK
1185522001-C	No Preservative Required	OK
1185522001-D	Na2S2O3 for Chlorine Redu	OK
1185522001-E	No Preservative Required	OK
1185522001-F	No Preservative Required	OK
1185522002-A	Na2S2O3 for Chlorine Redu	OK
1185522002-B	H2SO4 to pH < 2	OK
1185522002-C	No Preservative Required	OK
1185522003-A	Na2S2O3 for Chlorine Redu	OK
1185522003-B	H2SO4 to pH < 2	OK
1185522003-C	No Preservative Required	OK
1185522004-A	Na2S2O3 for Chlorine Redu	OK
1185522004-B	H2SO4 to pH < 2	OK
1185522004-C	No Preservative Required	OK
1185522005-A	Na2S2O3 for Chlorine Redu	OK
1185522005-B	H2SO4 to pH < 2	OK
1185522005-C	No Preservative Required	OK
1185522005-D	Na2S2O3 for Chlorine Redu	OK
1185522005-E	No Preservative Required	OK
1185522005-F	No Preservative Required	OK
1185522006-A	Na2S2O3 for Chlorine Redu	OK
1185522006-B	H2SO4 to pH < 2	OK
1185522006-C	No Preservative Required	OK
1185522007-A	Na2S2O3 for Chlorine Redu	OK
1185522007-B	H2SO4 to pH < 2	OK
1185522007-C	No Preservative Required	OK
1185522007-D	Na2S2O3 for Chlorine Redu	OK
1185522007-E	No Preservative Required	OK
1185522007-F	No Preservative Required	OK
1185522008-A	Na2S2O3 for Chlorine Redu	OK
1185522008-B	H2SO4 to pH < 2	OK
1185522008-C	No Preservative Required	OK
1185522008-D	Na2S2O3 for Chlorine Redu	OK
1185522008-E	No Preservative Required	OK
1185522008-F	No Preservative Required	OK
1185522009-A	Na2S2O3 for Chlorine Redu	OK
1185522009-B	H2SO4 to pH < 2	OK
1185522009-C	No Preservative Required	OK
1185522010-A	Na2S2O3 for Chlorine Redu	OK
1185522010-B	H2SO4 to pH < 2	OK
1185522010-C	No Preservative Required	OK
1185522010-D	Na2S2O3 for Chlorine Redu	OK
1185522010-E	No Preservative Required	OK
1185522010-F	No Preservative Required	OK
1185522011-A	Na2S2O3 for Chlorine Redu	OK
1185522011-B	H2SO4 to pH < 2	OK
1185522011-C	No Preservative Required	OK
1185522011-D	Na2S2O3 for Chlorine Redu	OK
1185522011-E	No Preservative Required	OK
1185522011-F	No Preservative Required	OK
1185522012-A	Na2S2O3 for Chlorine Redu	OK
1185522012-B	H2SO4 to pH < 2	OK
1185522012-C	No Preservative Required	OK
1185522012-D	Na2S2O3 for Chlorine Redu	OK
1185522012-E	No Preservative Required	OK
1185522012-F	No Preservative Required	OK
1185522013-A	Na2S2O3 for Chlorine Redu	OK
1185522013-B	H2SO4 to pH < 2	OK
1185522013-C	No Preservative Required	OK
1185522014-A	Na2S2O3 for Chlorine Redu	OK
1185522014-B	H2SO4 to pH < 2	OK
1185522014-C	No Preservative Required	OK
1185522015-A	Na2S2O3 for Chlorine Redu	OK
1185522015-B	H2SO4 to pH < 2	OK
1185522015-C	No Preservative Required	OK
1185522015-D	Na2S2O3 for Chlorine Redu	OK
1185522015-E	No Preservative Required	OK
1185522015-F	No Preservative Required	OK
1185522016-A	Na2S2O3 for Chlorine Redu	OK
1185522016-B	H2SO4 to pH < 2	OK
1185522016-C	No Preservative Required	OK
1185522017-A	Na2S2O3 for Chlorine Redu	OK
1185522017-B	H2SO4 to pH < 2	OK
1185522017-C	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.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

Laboratory Report of Analysis

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

Report Number: **1185536**

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: **1185536**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

MB for HBN 1786892 [BOD/6154] (1478881) MB

5210B – BOD - MB depletion (0.46 mg/L) is greater than the recommended limit of 0.2 mg/L. Samples >10X the MB are not significantly affected; Samples <10X the MB results may be biased high.

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

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

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

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

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

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

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

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
SW16	1185536001	09/27/2018	09/27/2018	Water (Surface, Eff., Ground)
SW15	1185536002	09/27/2018	09/27/2018	Water (Surface, Eff., Ground)
SW14	1185536003	09/27/2018	09/27/2018	Water (Surface, Eff., Ground)
MW13	1185536004	09/27/2018	09/27/2018	Water (Surface, Eff., Ground)
DUP4	1185536005	09/27/2018	09/27/2018	Water (Surface, Eff., Ground)
SW17	1185536006	09/27/2018	09/27/2018	Water (Surface, Eff., Ground)
SW18	1185536007	09/27/2018	09/27/2018	Water (Surface, Eff., Ground)
DUP3	1185536008	09/27/2018	09/27/2018	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)
SM21 4500NO3-F	Flow Injection Analysis
SM21 4500-N D	TKN by Phenate (W)
SM21 9223B	Total Coliform P/A Quant Tray
SM21 4500P-B,E	Total Phosphorus (W)
SM21 2540D	Total Suspended Solids SM20 2540D

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
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Detectable Results Summary

Client Sample ID: **SW16**
Lab Sample ID: 1185536001
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	4.63	mg/L
Total Coliform	248	MPN/100mL
Ammonia-N	0.111	mg/L
Total Kjeldahl Nitrogen	0.653J	mg/L
Total Phosphorus	0.0299	mg/L
Total Suspended Solids	1.90	mg/L

Client Sample ID: **SW15**
Lab Sample ID: 1185536002
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	5.73	mg/L
E. Coli	1	MPN/100mL
Fecal Coliform	2.0	col/100mL
Total Coliform	579	MPN/100mL
Ammonia-N	0.113	mg/L
Total Kjeldahl Nitrogen	0.405J	mg/L
Total Phosphorus	0.0904	mg/L
Total Suspended Solids	32.2	mg/L

Client Sample ID: **SW14**
Lab Sample ID: 1185536003
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Total Coliform	113	MPN/100mL
Ammonia-N	0.0691J	mg/L
Total Phosphorus	0.0258	mg/L
Total Suspended Solids	0.490J	mg/L

Client Sample ID: **MW13**
Lab Sample ID: 1185536004
Waters Department

Parameter	Result	Units
Ammonia-N	0.465	mg/L
Nitrite-N	0.0832J	mg/L
Total Kjeldahl Nitrogen	0.365J	mg/L

Client Sample ID: **DUP4**
Lab Sample ID: 1185536005
Waters Department

Parameter	Result	Units
Ammonia-N	0.655	mg/L
Nitrite-N	0.0388J	mg/L
Total Kjeldahl Nitrogen	0.504J	mg/L

Client Sample ID: **SW17**
Lab Sample ID: 1185536006
Microbiology Laboratory
Waters Department

Parameter	Result	Units
E. Coli	25	MPN/100mL
Fecal Coliform	17	col/100mL
Total Coliform	613	MPN/100mL
Ammonia-N	0.0934J	mg/L
Nitrate-N	2.23	mg/L
Total Kjeldahl Nitrogen	0.463J	mg/L
Total Phosphorus	0.121	mg/L
Total Suspended Solids	4.27	mg/L

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Detectable Results Summary

Client Sample ID: **SW18**
Lab Sample ID: 1185536007

Microbiology Laboratory

Parameter	Result	Units
E. Coli	11	MPN/100mL
Fecal Coliform	8.0	col/100mL
Total Coliform	2420	MPN/100mL

Waters Department

Parameter	Result	Units
Ammonia-N	0.112	mg/L
Nitrate-N	5.21	mg/L
Total Kjeldahl Nitrogen	0.581J	mg/L
Total Phosphorus	0.807	mg/L
Total Suspended Solids	6.12	mg/L

Client Sample ID: **DUP3**
Lab Sample ID: 1185536008

Microbiology Laboratory

Parameter	Result	Units
E. Coli	5	MPN/100mL
Fecal Coliform	5.0	col/100mL
Total Coliform	2420	MPN/100mL

Waters Department

Parameter	Result	Units
Ammonia-N	0.115	mg/L
Nitrate-N	5.09	mg/L
Nitrite-N	0.0362J	mg/L
Total Kjeldahl Nitrogen	0.724J	mg/L
Total Phosphorus	0.810	mg/L
Total Suspended Solids	3.88	mg/L

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Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536001
Lab Project ID: 1185536

Collection Date: 09/27/18 09:30
Received Date: 09/27/18 12:38
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	4.63		2.00	2.00	mg/L	1		09/27/18 17:37

Batch Information

Analytical Batch: BOD6154
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/27/18 17:37
Container ID: 1185536001-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00 U		1.00	1.00	col/100mL	1		09/27/18 15:03

Batch Information

Analytical Batch: BTF16916
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/18 15:03
Container ID: 1185536001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1 U		1	1	MPN/100m	1		09/27/18 14:46
Total Coliform	248		1	1	MPN/100m	1		09/27/18 14:46

Batch Information

Analytical Batch: BTF16918
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/27/18 14:46
Container ID: 1185536001-D

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536001
Lab Project ID: 1185536

Collection Date: 09/27/18 09:30
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	1.90		1.00	0.310	mg/L	1		10/01/18 17:47

Batch Information

Analytical Batch: STS6041
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 10/01/18 17:47
Container ID: 1185536001-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.653 J		1.00	0.310	mg/L	1		09/28/18 16:53

Batch Information

Analytical Batch: WDA4421
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 16:53
Container ID: 1185536001-B

Prep Batch: WXX12577
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.111		0.100	0.0310	mg/L	1		09/27/18 14:15

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 14:15
Container ID: 1185536001-B

Prep Batch: WXX12574
Prep Method: METHOD
Prep Date/Time: 09/27/18 14:15
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:42
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:42

Print Date: 10/02/2018 3:19:15PM

J flagging is activated

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536001
Lab Project ID: 1185536

Collection Date: 09/27/18 09:30
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:42
Container ID: 1185536001-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0299		0.0200	0.00500	mg/L	1		10/01/18 13:56

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/01/18 13:56
Container ID: 1185536001-B

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/01/18 11:06
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: 1185536002
Lab Project ID: 1185536

Collection Date: 09/27/18 09:42
Received Date: 09/27/18 12:38
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	5.73		2.00	2.00	mg/L	1		09/27/18 17:37

Batch Information

Analytical Batch: BOD6154
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/27/18 17:37
Container ID: 1185536002-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	2.0		1.00	1.00	col/100mL	1		09/27/18 15:03

Batch Information

Analytical Batch: BTF16916
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/18 15:03
Container ID: 1185536002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1		1	1	MPN/100m	1		09/27/18 14:46
Total Coliform	579		1	1	MPN/100m	1		09/27/18 14:46

Batch Information

Analytical Batch: BTF16918
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/27/18 14:46
Container ID: 1185536002-D

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536002
Lab Project ID: 1185536

Collection Date: 09/27/18 09:42
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	32.2		0.980	0.304	mg/L	1		10/01/18 17:47

Batch Information

Analytical Batch: STS6041
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 10/01/18 17:47
Container ID: 1185536002-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.405 J		1.00	0.310	mg/L	1		09/28/18 16:54

Batch Information

Analytical Batch: WDA4421
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 16:54
Container ID: 1185536002-B

Prep Batch: WXX12577
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.113		0.100	0.0310	mg/L	1		09/27/18 14:17

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 14:17
Container ID: 1185536002-B

Prep Batch: WXX12574
Prep Method: METHOD
Prep Date/Time: 09/27/18 14:15
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:43
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:43

Print Date: 10/02/2018 3:19:15PM

J flagging is activated

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536002
Lab Project ID: 1185536

Collection Date: 09/27/18 09:42
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:43
Container ID: 1185536002-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0904		0.0200	0.00500	mg/L	1		10/01/18 13:57

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/01/18 13:57
Container ID: 1185536002-B

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/01/18 11:06
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: 1185536003
Lab Project ID: 1185536

Collection Date: 09/27/18 10:02
Received Date: 09/27/18 12:38
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		09/27/18 17:37

Batch Information

Analytical Batch: BOD6154
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/27/18 17:37
Container ID: 1185536003-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00 U		1.00	1.00	col/100mL	1		09/27/18 15:03

Batch Information

Analytical Batch: BTF16916
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/18 15:03
Container ID: 1185536003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1 U		1	1	MPN/100m	1		09/27/18 14:46
Total Coliform	113		1	1	MPN/100m	1		09/27/18 14:46

Batch Information

Analytical Batch: BTF16918
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/27/18 14:46
Container ID: 1185536003-D

Results of **SW14**

Client Sample ID: **SW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536003
Lab Project ID: 1185536

Collection Date: 09/27/18 10:02
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	0.490	J	0.980	0.304	mg/L	1		10/01/18 17:47

Batch Information

Analytical Batch: STS6041
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 10/01/18 17:47
Container ID: 1185536003-F

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		09/28/18 16:55

Batch Information

Analytical Batch: WDA4421
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 16:55
Container ID: 1185536003-B

Prep Batch: WXX12577
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.0691	J	0.100	0.0310	mg/L	1		09/27/18 14:18

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 14:18
Container ID: 1185536003-B

Prep Batch: WXX12574
Prep Method: METHOD
Prep Date/Time: 09/27/18 14:15
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 19:45
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 19:45

Print Date: 10/02/2018 3:19:15PM

J flagging is activated

Results of **SW14**

Client Sample ID: **SW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536003
Lab Project ID: 1185536

Collection Date: 09/27/18 10:02
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:45
Container ID: 1185536003-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0258		0.0200	0.00500	mg/L	1		10/01/18 13:57

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/01/18 13:57
Container ID: 1185536003-B

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/01/18 11:06
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **MW13**

Client Sample ID: **MW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536004
Lab Project ID: 1185536

Collection Date: 09/27/18 10:13
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	10.0	U	10.0	10.0	col/100mL	1		09/27/18 15:03

Batch Information

Analytical Batch: BTF16916
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/18 15:03
Container ID: 1185536004-A

Results of **MW13**

Client Sample ID: **MW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536004
Lab Project ID: 1185536

Collection Date: 09/27/18 10:13
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.365	J	1.00	0.310	mg/L	1		09/28/18 16:56

Batch Information

Analytical Batch: WDA4421
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 16:56
Container ID: 1185536004-B

Prep Batch: WXX12577
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.465		0.100	0.0310	mg/L	1		09/27/18 14:20

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 14:20
Container ID: 1185536004-B

Prep Batch: WXX12574
Prep Method: METHOD
Prep Date/Time: 09/27/18 14:15
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 19:47
Nitrite-N	0.0832	J	0.100	0.0250	mg/L	2		09/27/18 19:47

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:47
Container ID: 1185536004-C

Results of **DUP4**

Client Sample ID: **DUP4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536005
Lab Project ID: 1185536

Collection Date: 09/27/18 10:13
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	10.0	U	10.0	10.0	col/100mL	1		09/27/18 15:03

Batch Information

Analytical Batch: BTF16916
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/18 15:03
Container ID: 1185536005-A

Results of **DUP4**

Client Sample ID: **DUP4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536005
Lab Project ID: 1185536

Collection Date: 09/27/18 10:13
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.504	J	1.00	0.310	mg/L	1		09/28/18 16:58

Batch Information

Analytical Batch: WDA4421
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 16:58
Container ID: 1185536005-B

Prep Batch: WXX12577
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.655		0.100	0.0310	mg/L	1		09/27/18 14:22

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 14:22
Container ID: 1185536005-B

Prep Batch: WXX12574
Prep Method: METHOD
Prep Date/Time: 09/27/18 14:15
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500	U	0.100	0.0250	mg/L	2		09/27/18 19:49
Nitrite-N	0.0388	J	0.100	0.0250	mg/L	2		09/27/18 19:49

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:49
Container ID: 1185536005-C

Print Date: 10/02/2018 3:19:15PM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536006
Lab Project ID: 1185536

Collection Date: 09/27/18 10:33
Received Date: 09/27/18 12:38
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		09/27/18 17:37

Batch Information

Analytical Batch: BOD6154
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/27/18 17:37
Container ID: 1185536006-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	17		1.00	1.00	col/100mL	1		09/27/18 15:03

Batch Information

Analytical Batch: BTF16916
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/18 15:03
Container ID: 1185536006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	25		1	1	MPN/100m	1		09/27/18 14:46
Total Coliform	613		1	1	MPN/100m	1		09/27/18 14:46

Batch Information

Analytical Batch: BTF16918
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/27/18 14:46
Container ID: 1185536006-D

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536006
Lab Project ID: 1185536

Collection Date: 09/27/18 10:33
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	4.27		0.971	0.301	mg/L	1		10/01/18 17:47

Batch Information

Analytical Batch: STS6041
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 10/01/18 17:47
Container ID: 1185536006-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.463 J		1.00	0.310	mg/L	1		09/28/18 16:59

Batch Information

Analytical Batch: WDA4421
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 16:59
Container ID: 1185536006-B

Prep Batch: WXX12577
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.0934 J		0.100	0.0310	mg/L	1		09/27/18 14:23

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 14:23
Container ID: 1185536006-B

Prep Batch: WXX12574
Prep Method: METHOD
Prep Date/Time: 09/27/18 14:15
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	2.23		0.100	0.0250	mg/L	2		09/27/18 19:50
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:50

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536006
Lab Project ID: 1185536

Collection Date: 09/27/18 10:33
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:50
Container ID: 1185536006-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.121		0.0200	0.00500	mg/L	1		10/01/18 13:58

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/01/18 13:58
Container ID: 1185536006-B

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/01/18 11:06
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: 1185536007
Lab Project ID: 1185536

Collection Date: 09/27/18 10:52
Received Date: 09/27/18 12:38
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		09/27/18 17:37

Batch Information

Analytical Batch: BOD6154
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/27/18 17:37
Container ID: 1185536007-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	8.0		1.00	1.00	col/100mL	1		09/27/18 15:03

Batch Information

Analytical Batch: BTF16916
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/18 15:03
Container ID: 1185536007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	11		1	1	MPN/100m	1		09/27/18 14:46
Total Coliform	2420		1	1	MPN/100m	1		09/27/18 14:46

Batch Information

Analytical Batch: BTF16918
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/27/18 14:46
Container ID: 1185536007-D

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536007
Lab Project ID: 1185536

Collection Date: 09/27/18 10:52
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	6.12		0.971	0.301	mg/L	1		10/01/18 17:47

Batch Information

Analytical Batch: STS6041
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 10/01/18 17:47
Container ID: 1185536007-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.581 J		1.00	0.310	mg/L	1		09/28/18 17:00

Batch Information

Analytical Batch: WDA4421
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 17:00
Container ID: 1185536007-B

Prep Batch: WXX12577
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.112		0.100	0.0310	mg/L	1		09/27/18 14:25

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 14:25
Container ID: 1185536007-B

Prep Batch: WXX12574
Prep Method: METHOD
Prep Date/Time: 09/27/18 14:15
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	5.21		0.100	0.0250	mg/L	2		09/27/18 19:52
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		09/27/18 19:52

Print Date: 10/02/2018 3:19:15PM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536007
Lab Project ID: 1185536

Collection Date: 09/27/18 10:52
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/18 19:52
Container ID: 1185536007-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.807		0.200	0.0500	mg/L	1		10/01/18 15:37

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/01/18 15:37
Container ID: 1185536007-B

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/01/18 14:24
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

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Results of **DUP3**

Client Sample ID: **DUP3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536008
Lab Project ID: 1185536

Collection Date: 09/27/18 10:52
Received Date: 09/27/18 12:38
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		09/27/18 17:37

Batch Information

Analytical Batch: BOD6154
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 09/27/18 17:37
Container ID: 1185536008-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	5.0		1.00	1.00	col/100mL	1		09/27/18 15:03

Batch Information

Analytical Batch: BTF16916
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/18 15:03
Container ID: 1185536008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	5		1	1	MPN/100m	1		09/27/18 14:46
Total Coliform	2420		1	1	MPN/100m	1		09/27/18 14:46

Batch Information

Analytical Batch: BTF16918
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/27/18 14:46
Container ID: 1185536008-D

Results of **DUP3**

Client Sample ID: **DUP3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536008
Lab Project ID: 1185536

Collection Date: 09/27/18 10:52
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	3.88		0.971	0.301	mg/L	1		10/01/18 17:47

Batch Information

Analytical Batch: STS6041
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 10/01/18 17:47
Container ID: 1185536008-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.724 J		1.00	0.310	mg/L	1		09/28/18 17:04

Batch Information

Analytical Batch: WDA4421
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/28/18 17:04
Container ID: 1185536008-B

Prep Batch: WXX12577
Prep Method: METHOD
Prep Date/Time: 09/27/18 17:30
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	0.115		0.100	0.0310	mg/L	1		09/27/18 14:26

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/27/18 14:26
Container ID: 1185536008-B

Prep Batch: WXX12574
Prep Method: METHOD
Prep Date/Time: 09/27/18 14:15
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	5.09		0.100	0.0250	mg/L	2		09/28/18 09:16
Nitrite-N	0.0362 J		0.100	0.0250	mg/L	2		09/28/18 09:16

Print Date: 10/02/2018 3:19:15PM

J flagging is activated

Results of **DUP3**

Client Sample ID: **DUP3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1185536008
Lab Project ID: 1185536

Collection Date: 09/27/18 10:52
Received Date: 09/27/18 12:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2760
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/28/18 09:16
Container ID: 1185536008-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.810		0.200	0.0500	mg/L	1		10/01/18 15:38

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/01/18 15:38
Container ID: 1185536008-B

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/01/18 14:24
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1786892 [BOD/6154]
Blank Lab ID: 1478881

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185536001, 1185536002, 1185536003, 1185536006, 1185536007, 1185536008

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: BOD6154
Analytical Method: SM21 5210B
Instrument:
Analyst: A.L
Analytical Date/Time: 9/27/2018 5:37:00PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1185536 [BOD6154]
Blank Spike Lab ID: 1478882
Date Analyzed: 09/27/2018 17:37

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185536001, 1185536002, 1185536003, 1185536006, 1185536007, 1185536008

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	225	114	(84.6-115.4

Batch Information

Analytical Batch: **BOD6154**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **A.L**

Print Date: 10/02/2018 3:19:20PM

Method Blank

Blank ID: MB for HBN 1786845 [BTF/16916]
Blank Lab ID: 1478760

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185536001, 1185536002, 1185536003, 1185536004, 1185536005, 1185536006, 1185536007, 1185536008

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF16916
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 9/27/2018 3:03:00PM

Print Date: 10/02/2018 3:19:21PM

Method Blank

Blank ID: MB for HBN 1786848 [BTF/16918]
Blank Lab ID: 1478659

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185536001, 1185536002, 1185536003, 1185536006, 1185536007, 1185536008

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: BTF16918
Analytical Method: SM21 9223B
Instrument:
Analyst: K.W
Analytical Date/Time: 9/27/2018 10:54:00AM

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Method Blank

Blank ID: MB for HBN 1787009 [STS/6041]
Blank Lab ID: 1479477

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185536001, 1185536002, 1185536003, 1185536006, 1185536007, 1185536008

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: STS6041
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW
Analytical Date/Time: 10/1/2018 5:47:42PM

Print Date: 10/02/2018 3:19:26PM

Duplicate Sample Summary

Original Sample ID: 1185564001
Duplicate Sample ID: 1479480

Analysis Date: 10/01/2018 17:47
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1185536001, 1185536002, 1185536003, 1185536006, 1185536007, 1185536008

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	109	110	mg/L	0.91	(< 5)

Batch Information

Analytical Batch: STS6041
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 10/02/2018 3:19:27PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185536 [STS6041]
Blank Spike Lab ID: 1479478
Date Analyzed: 10/01/2018 17:47

Spike Duplicate ID: LCSD for HBN 1185536 [STS6041]
Spike Duplicate Lab ID: 1479479
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185536001, 1185536002, 1185536003, 1185536006, 1185536007, 1185536008

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	25.0	100	25	24.5	98	(75-125)	2.00	(< 5)

Batch Information

Analytical Batch: **STS6041**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **EWW**

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Method Blank

Blank ID: MB for HBN 1786955 (WFI/2759)
Blank Lab ID: 1479261

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.0314J	0.100	0.0250	mg/L
Nitrite-N	0.0500U	0.100	0.0250	mg/L
Total Nitrate/Nitrite-N	0.0314J	0.100	0.0250	mg/L

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/27/2018 6:54:58PM

Method Blank

Blank ID: MB for HBN 1786955 (WFI/2759) Matrix: Water (Surface, Eff., Ground)
Blank Lab ID: 1479263

QC for Samples:
1185536001, 1185536002, 1185536003, 1185536004, 1185536005, 1185536006, 1185536007

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.0500U	0.100	0.0250	mg/L
Nitrite-N	0.0500U	0.100	0.0250	mg/L
Total Nitrate/Nitrite-N	0.0500U	0.100	0.0250	mg/L

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/27/2018 7:36:58PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185536 [WFI2759]
Blank Spike Lab ID: 1479236
Date Analyzed: 09/27/2018 18:53

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.29	92	(70-130)
Nitrite-N	2.5	2.45	98	(90-110)
Total Nitrate/Nitrite-N	5	4.74	95	(90-110)

Batch Information

Analytical Batch: **WFI2759**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AYC**

Print Date: 10/02/2018 3:19:32PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185536 [WFI2759]
Blank Spike Lab ID: 1479262
Date Analyzed: 09/27/2018 19:35

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185536001, 1185536002, 1185536003, 1185536004, 1185536005, 1185536006, 1185536007

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.86	114	(70-130)
Nitrite-N	2.5	2.43	97	(90-110)
Total Nitrate/Nitrite-N	5	5.28	106	(90-110)

Batch Information

Analytical Batch: **WFI2759**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AYC**

Print Date: 10/02/2018 3:19:32PM

Matrix Spike Summary

Original Sample ID: 1185522007
MS Sample ID: 1479225 MS
MSD Sample ID: 1479226 MSD

Analysis Date: 09/27/2018 19:07
Analysis Date: 09/27/2018 19:08
Analysis Date: 09/27/2018 19:10
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185536001, 1185536002, 1185536003, 1185536004, 1185536005, 1185536006, 1185536007

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.0500U	2.50	2.67	107	2.50	2.78	111	70-130	4.10	(< 25)
Nitrite-N	0.0500U	2.50	2.41	97	2.50	2.39	96	90-110	0.87	(< 25)

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/27/2018 7:08:57PM

Print Date: 10/02/2018 3:19:33PM

Matrix Spike Summary

Original Sample ID: 1185536007
MS Sample ID: 1479227 MS
MSD Sample ID: 1479228 MSD

Analysis Date: 09/27/2018 19:52
Analysis Date: 09/27/2018 19:54
Analysis Date: 09/27/2018 19:56
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185536001, 1185536002, 1185536003, 1185536004, 1185536005, 1185536006, 1185536007

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	5.21	2.50	7.43	89	2.50	7.63	97	70-130	2.70	(< 25)
Nitrite-N	0.0500U	2.50	2.27	91	2.50	2.29	92	90-110	0.86	(< 25)

Batch Information

Analytical Batch: WFI2759
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/27/2018 7:54:27PM

Print Date: 10/02/2018 3:19:33PM

Method Blank

Blank ID: MB for HBN 1787036 (WFI/2760)
Blank Lab ID: 1479661

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185536008

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.0500U	0.100	0.0250	mg/L
Nitrite-N	0.0500U	0.100	0.0250	mg/L
Total Nitrate/Nitrite-N	0.0500U	0.100	0.0250	mg/L

Batch Information

Analytical Batch: WFI2760
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/28/2018 9:11:34AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185536 [WFI2760]
Blank Spike Lab ID: 1479655
Date Analyzed: 09/28/2018 09:09

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185536008

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.34	94	(70-130)
Nitrite-N	2.5	2.52	101	(90-110)
Total Nitrate/Nitrite-N	5	4.86	97	(90-110)

Batch Information

Analytical Batch: **WFI2760**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AYC**

Print Date: 10/02/2018 3:19:35PM

Matrix Spike Summary

Original Sample ID: 1185539012
MS Sample ID: 1479641 MS
MSD Sample ID: 1479642 MSD

QC for Samples: 1185536008

Analysis Date: 09/28/2018 9:20
Analysis Date: 09/28/2018 9:22
Analysis Date: 09/28/2018 9:23
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.100U	2.50	2.29	92	2.50	2.53	101	70-130	10.00	(< 25)

Batch Information

Analytical Batch: WFI2760
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/28/2018 9:22:04AM

Print Date: 10/02/2018 3:19:37PM

Method Blank

Blank ID: MB for HBN 1786877 [WXX/12574]
Blank Lab ID: 1478771

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185536001, 1185536002, 1185536003, 1185536004, 1185536005, 1185536006, 1185536007, 1185536008

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0314J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/27/2018 11:51:07AM

Prep Batch: WXX12574
Prep Method: METHOD
Prep Date/Time: 9/27/2018 9:59:00AM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Print Date: 10/02/2018 3:19:37PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185536 [WXX12574]
Blank Spike Lab ID: 1478772
Date Analyzed: 09/27/2018 11:52

Spike Duplicate ID: LCSD for HBN 1185536 [WXX12574]
Spike Duplicate Lab ID: 1478773
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185536001, 1185536002, 1185536003, 1185536004, 1185536005, 1185536006, 1185536007, 1185536008

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	1.00	100	1	1.04	104	(75-125)	3.50	(< 25)

Batch Information

Analytical Batch: **WDA4418**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12574**
Prep Method: **METHOD**
Prep Date/Time: **09/27/2018 09:59**
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: 1185519002
MS Sample ID: 1478774 MS
MSD Sample ID: 1478775 MSD

Analysis Date: 09/27/2018 11:57
Analysis Date: 09/27/2018 11:59
Analysis Date: 09/27/2018 12:01
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185536001, 1185536002, 1185536003, 1185536004, 1185536005, 1185536006, 1185536007, 1185536008

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	0.0524J	1.00	1.05	99	1.00	1.03	98	75-125	1.40	(< 25)

Batch Information

Analytical Batch: WDA4418
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/27/2018 11:59:31AM

Prep Batch: WXX12574
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 9/27/2018 9:59:00AM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 10/02/2018 3:19:40PM

Method Blank

Blank ID: MB for HBN 1786960 [WXX/12577]
Blank Lab ID: 1479264

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185536001, 1185536002, 1185536003, 1185536004, 1185536005, 1185536006, 1185536007, 1185536008

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: WDA4421
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/28/2018 4:33:28PM

Prep Batch: WXX12577
Prep Method: METHOD
Prep Date/Time: 9/27/2018 5:30:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1185536 [WXX12577]
Blank Spike Lab ID: 1479265
Date Analyzed: 09/28/2018 16:34

Spike Duplicate ID: LCSD for HBN 1185536 [WXX12577]
Spike Duplicate Lab ID: 1479266
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185536001, 1185536002, 1185536003, 1185536004, 1185536005, 1185536006, 1185536007, 1185536008

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	4.25	106	4	3.94	99	(75-125)	7.50	(< 25)

Batch Information

Analytical Batch: **WDA4421**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12577**
Prep Method: **METHOD**
Prep Date/Time: **09/27/2018 17:30**
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: 1185519002
MS Sample ID: 1479267 MS
MSD Sample ID: 1479268 MSD

Analysis Date: 09/28/2018 16:38
Analysis Date: 09/28/2018 16:40
Analysis Date: 09/28/2018 16:41
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185536001, 1185536002, 1185536003, 1185536004, 1185536005, 1185536006, 1185536007, 1185536008

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	0.500U	4.00	4.3	108	4.00	3.85	96	75-125	11.20	(< 25)

Batch Information

Analytical Batch: WDA4421
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/28/2018 4:40:00PM

Prep Batch: WXX12577
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 9/27/2018 5:30:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 10/02/2018 3:19:44PM

Method Blank

Blank ID: MB for HBN 1787032 [WXX/12578]
Blank Lab ID: 1479595

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1185536001, 1185536002, 1185536003, 1185536006, 1185536007, 1185536008

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

Parameter	Results	LOQ/CL	DL	Units
Total Phosphorus	0.00590J	0.0200	0.00500	mg/L

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 10/1/2018 1:27:08PM

Prep Batch: WXX12578
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/1/2018 11:06:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Blank Spike Summary

Blank Spike ID: LCS for HBN 1185536 [WXX12578]
Blank Spike Lab ID: 1479596
Date Analyzed: 10/01/2018 13:27

Spike Duplicate ID: LCSD for HBN 1185536 [WXX12578]
Spike Duplicate Lab ID: 1479597
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185536001, 1185536002, 1185536003, 1185536006, 1185536007, 1185536008

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	0.216	108	0.2	0.205	103	(75-125)	5.20	(< 25)

Batch Information

Analytical Batch: **WDA4422**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12578**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **10/01/2018 11:06**
Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

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

Matrix Spike Summary

Original Sample ID: 1185522001
MS Sample ID: 1479598 MS
MSD Sample ID: 1479599 MSD

Analysis Date: 10/01/2018 13:45
Analysis Date: 10/01/2018 13:46
Analysis Date: 10/01/2018 13:47
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1185536001, 1185536002, 1185536003, 1185536006, 1185536007, 1185536008

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	0.0599	0.200	.261	101	0.200	0.258	99	75-125	1.30	(< 25)

Batch Information

Analytical Batch: WDA4422
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 10/1/2018 1:46:27PM

Prep Batch: WXX12578
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 10/1/2018 11:06:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 10/02/2018 3:19:48PM

SGS

REVIEWED AET

SGS North America Inc.
CHAIN OF CUSTODY RECORD

1185536

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 Alward PHONE NO: 343-5202

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

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

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 Incremental Soils	Section 3 Preservative: 1	1	NaOH	NaOH	H2SO4	HNO3	1				REMARKS/ LOC ID
							BOD	TSS	FC	TC (Quanti 1x10x)	H2SO4/Ammonia	HNO3/Ammonia	Nitrate/Nitrite				
1 A-F	SW16	9/27/18	930	water	6	G	1	1	1	1		1	1				
2 A-F	SW15		942		6		1	1	1	1		1	1				
3 A-F	SW14		1002		6		1	1	1	1		1	1				
4 A-C	NW13		1013		3				1		1		1				
5 A-C	DUP4		1013		3				1		1		1				
6 A-F	SW17		1033		6		1	1	1	1		1	1				
7 A-F	SW18		1052		6		1	1	1	1		.	1				
8 A-F	DUP3		1052		6		1	1	1	1		1	1				

Section 5

	Date	Time	
Relinquished By: (1)	9/27/18	12:38	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	9/27/18	12:38	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 0.7 D12 / 0.2 D12 or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT HD

(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

e-Sample Receipt Form

SGS Workorder #: **1185536**

1185536

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	
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 @ 0.7 °C Therm. ID: D12
	YES	Cooler ID: 2 @ 0.2 °C Therm. ID: D12
	N/A	Cooler ID: @ °C Therm. ID:
	N/A	Cooler ID: @ °C Therm. ID:
	N/A	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	
If samples received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	YES	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	YES	
**Note: If times differ <1hr, record details & login per COC.		
Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis)	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
1185536001-A	Na2S2O3 for Chlorine Redu	OK			
1185536001-B	H2SO4 to pH < 2	OK			
1185536001-C	No Preservative Required	OK			
1185536001-D	Na2S2O3 for Chlorine Redu	OK			
1185536001-E	No Preservative Required	OK			
1185536001-F	No Preservative Required	OK			
1185536002-A	Na2S2O3 for Chlorine Redu	OK			
1185536002-B	H2SO4 to pH < 2	OK			
1185536002-C	No Preservative Required	OK			
1185536002-D	Na2S2O3 for Chlorine Redu	OK			
1185536002-E	No Preservative Required	OK			
1185536002-F	No Preservative Required	OK			
1185536003-A	Na2S2O3 for Chlorine Redu	OK			
1185536003-B	H2SO4 to pH < 2	OK			
1185536003-C	No Preservative Required	OK			
1185536003-D	Na2S2O3 for Chlorine Redu	OK			
1185536003-E	No Preservative Required	OK			
1185536003-F	No Preservative Required	OK			
1185536004-A	Na2S2O3 for Chlorine Redu	OK			
1185536004-B	H2SO4 to pH < 2	OK			
1185536004-C	No Preservative Required	OK			
1185536005-A	Na2S2O3 for Chlorine Redu	OK			
1185536005-B	H2SO4 to pH < 2	OK			
1185536005-C	No Preservative Required	OK			
1185536006-A	Na2S2O3 for Chlorine Redu	OK			
1185536006-B	H2SO4 to pH < 2	OK			
1185536006-C	No Preservative Required	OK			
1185536006-D	Na2S2O3 for Chlorine Redu	OK			
1185536006-E	No Preservative Required	OK			
1185536006-F	No Preservative Required	OK			
1185536007-A	Na2S2O3 for Chlorine Redu	OK			
1185536007-B	H2SO4 to pH < 2	OK			
1185536007-C	No Preservative Required	OK			
1185536007-D	Na2S2O3 for Chlorine Redu	OK			
1185536007-E	No Preservative Required	OK			
1185536007-F	No Preservative Required	OK			
1185536008-A	Na2S2O3 for Chlorine Redu	OK			
1185536008-B	H2SO4 to pH < 2	OK			
1185536008-C	No Preservative Required	OK			
1185536008-D	Na2S2O3 for Chlorine Redu	OK			
1185536008-E	No Preservative Required	OK			
1185536008-F	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.
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.