Laboratory Report of Analysis

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

Report Number: **1184812**

Client Project: **Wasilla WWTP**

Dear John Marshall,

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

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

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

Sincerely,
SGS North America Inc.

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

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1184812**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

1184815001DUP (1471090) 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.

*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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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
SW1	1184812001	08/28/2018	08/28/2018	Water (Surface, Eff., Ground)
SW2	1184812002	08/28/2018	08/28/2018	Water (Surface, Eff., Ground)
SW3	1184812003	08/28/2018	08/28/2018	Water (Surface, Eff., Ground)
SW4	1184812004	08/28/2018	08/28/2018	Water (Surface, Eff., Ground)
SW5	1184812005	08/28/2018	08/28/2018	Water (Surface, Eff., Ground)
SW6	1184812006	08/28/2018	08/28/2018	Water (Surface, Eff., Ground)
SW7	1184812007	08/28/2018	08/28/2018	Water (Surface, Eff., Ground)
SW8	1184812008	08/28/2018	08/28/2018	Water (Surface, Eff., Ground)
SW9	1184812009	08/28/2018	08/28/2018	Water (Surface, Eff., Ground)
SW10	1184812010	08/28/2018	08/28/2018	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: **SW1**
Lab Sample ID: 1184812001

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	24.7	mg/L
	E. Coli	42	MPN/100mL
	Fecal Coliform	39	col/100mL
	Total Coliform	1553	MPN/100mL
Waters Department	Ammonia-N	0.106	mg/L
	Total Kjeldahl Nitrogen	0.782J	mg/L
	Total Phosphorus	0.0674	mg/L
	Total Suspended Solids	3.00	mg/L

Client Sample ID: **SW2**
Lab Sample ID: 1184812002

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.07	mg/L
	E. Coli	8	MPN/100mL
	Fecal Coliform	6.0	col/100mL
	Total Coliform	649	MPN/100mL
Waters Department	Ammonia-N	0.0753J	mg/L
	Total Kjeldahl Nitrogen	0.854J	mg/L
	Total Phosphorus	0.0259	mg/L
	Total Suspended Solids	2.14	mg/L

Client Sample ID: **SW3**
Lab Sample ID: 1184812003

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	20	MPN/100mL
	Fecal Coliform	13	col/100mL
	Total Coliform	15530	MPN/100mL
Waters Department	Ammonia-N	0.0746J	mg/L
	Total Kjeldahl Nitrogen	0.369J	mg/L
	Total Phosphorus	0.0126J	mg/L

Client Sample ID: **SW4**
Lab Sample ID: 1184812004

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	31	MPN/100mL
	Fecal Coliform	20	col/100mL
	Total Coliform	12030	MPN/100mL
Waters Department	Ammonia-N	0.0582J	mg/L
	Total Phosphorus	0.0385	mg/L
	Total Suspended Solids	3.94	mg/L

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Detectable Results Summary

Client Sample ID: **SW5**
Lab Sample ID: 1184812005

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.74	mg/L
	E. Coli	61	MPN/100mL
	Fecal Coliform	38	col/100mL
	Total Coliform	17330	MPN/100mL
Waters Department	Ammonia-N	0.0690J	mg/L
	Total Kjeldahl Nitrogen	0.505J	mg/L
	Total Phosphorus	0.0300	mg/L
	Total Suspended Solids	4.20	mg/L

Client Sample ID: **SW6**
Lab Sample ID: 1184812006

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	57	MPN/100mL
	Fecal Coliform	21	col/100mL
	Total Coliform	770	MPN/100mL
Waters Department	Ammonia-N	0.0793J	mg/L
	Total Kjeldahl Nitrogen	0.364J	mg/L

Client Sample ID: **SW7**
Lab Sample ID: 1184812007

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	52	MPN/100mL
	Fecal Coliform	14	col/100mL
	Total Coliform	2280	MPN/100mL
Waters Department	Ammonia-N	0.0655J	mg/L
	Total Phosphorus	0.00850J	mg/L
	Total Suspended Solids	0.500J	mg/L

Client Sample ID: **SW8**
Lab Sample ID: 1184812008

	Parameter	Result	Units
Microbiology Laboratory	Total Coliform	5790	MPN/100mL
Waters Department	Ammonia-N	0.0702J	mg/L
	Total Kjeldahl Nitrogen	0.671J	mg/L
	Total Phosphorus	0.0546	mg/L
	Total Suspended Solids	2.40	mg/L

Client Sample ID: **SW9**
Lab Sample ID: 1184812009

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	3	MPN/100mL
	Fecal Coliform	2.0	col/100mL
	Total Coliform	6130	MPN/100mL
Waters Department	Ammonia-N	0.0683J	mg/L
	Total Phosphorus	0.00970J	mg/L
	Total Suspended Solids	1.67	mg/L

Detectable Results Summary

Client Sample ID: **SW10**
Lab Sample ID: 1184812010

Microbiology Laboratory

Waters Department

Parameter	Result	Units
E. Coli	411	MPN/100mL
Fecal Coliform	390	col/100mL
Total Coliform	1553	MPN/100mL
Ammonia-N	0.0833J	mg/L
Total Kjeldahl Nitrogen	0.424J	mg/L
Total Phosphorus	0.0308	mg/L
Total Suspended Solids	1.92	mg/L

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Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812001
Lab Project ID: 1184812

Collection Date: 08/28/18 10:01
Received Date: 08/28/18 16:03
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	24.7		2.00	2.00	mg/L	1		08/29/18 13:38

Batch Information

Analytical Batch: BOD6128
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/18 13:38
Container ID: 1184812001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	39		1.00	1.00	col/100mL	1		08/28/18 17:06

Batch Information

Analytical Batch: BTF16832
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/28/18 17:06
Container ID: 1184812001-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	42		1	1	MPN/100m	1		08/29/18 10:19
Total Coliform	1553		1	1	MPN/100m	1		08/29/18 10:19

Batch Information

Analytical Batch: BTF16835
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/18 10:19
Container ID: 1184812001-F

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812001
Lab Project ID: 1184812

Collection Date: 08/28/18 10:01
Received Date: 08/28/18 16:03
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	3.00		1.43	0.443	mg/L	1		08/29/18 15:39

Batch Information

Analytical Batch: STS5997
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 08/29/18 15:39
Container ID: 1184812001-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.782 J		1.00	0.310	mg/L	1		08/30/18 17:54

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 17:54
Container ID: 1184812001-D

Prep Batch: WXX12509
Prep Method: METHOD
Prep Date/Time: 08/29/18 16:19
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		08/29/18 12:05

Batch Information

Analytical Batch: WDA4385
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/29/18 12:05
Container ID: 1184812001-D

Prep Batch: WXX12507
Prep Method: METHOD
Prep Date/Time: 08/29/18 11:30
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		08/28/18 17:51
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		08/28/18 17:51

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812001
Lab Project ID: 1184812

Collection Date: 08/28/18 10:01
Received Date: 08/28/18 16:03
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2746
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/28/18 17:51
Container ID: 1184812001-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0674		0.0200	0.00500	mg/L	1		09/05/18 11:05

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:05
Container ID: 1184812001-D

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812002
Lab Project ID: 1184812

Collection Date: 08/28/18 10:27
Received Date: 08/28/18 16:03
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	2.07		2.00	2.00	mg/L	1		08/29/18 13:38

Batch Information

Analytical Batch: BOD6128
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/18 13:38
Container ID: 1184812002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	6.0		1.00	1.00	col/100mL	1		08/28/18 17:06

Batch Information

Analytical Batch: BTF16832
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/28/18 17:06
Container ID: 1184812002-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	8		1	1	MPN/100m	1		08/29/18 10:19
Total Coliform	649		1	1	MPN/100m	1		08/29/18 10:19

Batch Information

Analytical Batch: BTF16835
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/18 10:19
Container ID: 1184812002-F

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812002
Lab Project ID: 1184812

Collection Date: 08/28/18 10:27
Received Date: 08/28/18 16:03
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	2.14		1.43	0.443	mg/L	1		08/29/18 15:39

Batch Information

Analytical Batch: STS5997
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 08/29/18 15:39
Container ID: 1184812002-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.854 J		1.00	0.310	mg/L	1		08/30/18 17:58

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 17:58
Container ID: 1184812002-D

Prep Batch: WXX12509
Prep Method: METHOD
Prep Date/Time: 08/29/18 16:19
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	0.0753 J		0.100	0.0310	mg/L	1		08/29/18 12:07

Batch Information

Analytical Batch: WDA4385
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/29/18 12:07
Container ID: 1184812002-D

Prep Batch: WXX12507
Prep Method: METHOD
Prep Date/Time: 08/29/18 11:30
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		08/28/18 17:53
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		08/28/18 17:53

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812002
Lab Project ID: 1184812

Collection Date: 08/28/18 10:27
Received Date: 08/28/18 16:03
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2746
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/28/18 17:53
Container ID: 1184812002-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0259		0.0200	0.00500	mg/L	1		09/05/18 11:06

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:06
Container ID: 1184812002-D

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812003
Lab Project ID: 1184812

Collection Date: 08/28/18 10:44
Received Date: 08/28/18 16:03
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		08/29/18 13:38

Batch Information

Analytical Batch: BOD6128
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/18 13:38
Container ID: 1184812003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	13		1.00	1.00	col/100mL	1		08/28/18 17:06

Batch Information

Analytical Batch: BTF16832
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/28/18 17:06
Container ID: 1184812003-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	20		1	1	MPN/100m	1		08/29/18 10:19
Total Coliform	15530		10	10	MPN/100m	10		08/29/18 10:19

Batch Information

Analytical Batch: BTF16835
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/18 10:19
Container ID: 1184812003-F

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812003
Lab Project ID: 1184812

Collection Date: 08/28/18 10:44
Received Date: 08/28/18 16:03
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	0.500 U		1.00	0.310	mg/L	1		08/29/18 15:39

Batch Information

Analytical Batch: STS5997
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 08/29/18 15:39
Container ID: 1184812003-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.369 J		1.00	0.310	mg/L	1		08/30/18 17:59

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 17:59
Container ID: 1184812003-D

Prep Batch: WXX12509
Prep Method: METHOD
Prep Date/Time: 08/29/18 16:19
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	0.0746 J		0.100	0.0310	mg/L	1		08/29/18 12:08

Batch Information

Analytical Batch: WDA4385
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/29/18 12:08
Container ID: 1184812003-D

Prep Batch: WXX12507
Prep Method: METHOD
Prep Date/Time: 08/29/18 11:30
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		08/28/18 17:55
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		08/28/18 17:55

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812003
Lab Project ID: 1184812

Collection Date: 08/28/18 10:44
Received Date: 08/28/18 16:03
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2746
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/28/18 17:55
Container ID: 1184812003-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0126	J	0.0200	0.00500	mg/L	1		09/05/18 11:09

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:09
Container ID: 1184812003-D

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
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: 1184812004
Lab Project ID: 1184812

Collection Date: 08/28/18 12:19
Received Date: 08/28/18 16:03
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		08/29/18 13:38

Batch Information

Analytical Batch: BOD6128
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/18 13:38
Container ID: 1184812004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	20		1.00	1.00	col/100mL	1		08/28/18 17:06

Batch Information

Analytical Batch: BTF16832
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/28/18 17:06
Container ID: 1184812004-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	31		1	1	MPN/100m	1		08/29/18 10:19
Total Coliform	12030		10	10	MPN/100m	10		08/29/18 10:19

Batch Information

Analytical Batch: BTF16835
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/18 10:19
Container ID: 1184812004-F

Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812004
Lab Project ID: 1184812

Collection Date: 08/28/18 12:19
Received Date: 08/28/18 16:03
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	3.94		1.01	0.313	mg/L	1		08/29/18 15:39

Batch Information

Analytical Batch: STS5997
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 08/29/18 15:39
Container ID: 1184812004-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500 U		1.00	0.310	mg/L	1		08/30/18 18:00

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:00
Container ID: 1184812004-D

Prep Batch: WXX12509
Prep Method: METHOD
Prep Date/Time: 08/29/18 16:19
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	0.0582 J		0.100	0.0310	mg/L	1		08/29/18 12:10

Batch Information

Analytical Batch: WDA4385
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/29/18 12:10
Container ID: 1184812004-D

Prep Batch: WXX12507
Prep Method: METHOD
Prep Date/Time: 08/29/18 11:30
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		08/28/18 17:57
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		08/28/18 17:57

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812004
Lab Project ID: 1184812

Collection Date: 08/28/18 12:19
Received Date: 08/28/18 16:03
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2746
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/28/18 17:57
Container ID: 1184812004-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0385		0.0200	0.00500	mg/L	1		09/05/18 11:10

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:10
Container ID: 1184812004-D

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812005
Lab Project ID: 1184812

Collection Date: 08/28/18 12:38
Received Date: 08/28/18 16:03
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	2.74		2.00	2.00	mg/L	1		08/29/18 13:38

Batch Information

Analytical Batch: BOD6128
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/18 13:38
Container ID: 1184812005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	38		1.00	1.00	col/100mL	1		08/28/18 17:06

Batch Information

Analytical Batch: BTF16832
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/28/18 17:06
Container ID: 1184812005-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	61		1	1	MPN/100m	1		08/29/18 10:19
Total Coliform	17330		10	10	MPN/100m	10		08/29/18 10:19

Batch Information

Analytical Batch: BTF16835
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/18 10:19
Container ID: 1184812005-F

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812005
Lab Project ID: 1184812

Collection Date: 08/28/18 12:38
Received Date: 08/28/18 16:03
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	4.20		1.00	0.310	mg/L	1		08/29/18 15:39

Batch Information

Analytical Batch: STS5997
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 08/29/18 15:39
Container ID: 1184812005-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.505 J		1.00	0.310	mg/L	1		08/30/18 18:02

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:02
Container ID: 1184812005-D

Prep Batch: WXX12509
Prep Method: METHOD
Prep Date/Time: 08/29/18 16:19
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	0.0690 J		0.100	0.0310	mg/L	1		08/29/18 12:15

Batch Information

Analytical Batch: WDA4385
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/29/18 12:15
Container ID: 1184812005-D

Prep Batch: WXX12507
Prep Method: METHOD
Prep Date/Time: 08/29/18 11:30
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		08/28/18 17:58
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		08/28/18 17:58

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812005
Lab Project ID: 1184812

Collection Date: 08/28/18 12:38
Received Date: 08/28/18 16:03
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2746
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/28/18 17:58
Container ID: 1184812005-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0300		0.0200	0.00500	mg/L	1		09/05/18 11:11

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:11
Container ID: 1184812005-D

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812006
Lab Project ID: 1184812

Collection Date: 08/28/18 12:00
Received Date: 08/28/18 16:03
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		08/29/18 13:38

Batch Information

Analytical Batch: BOD6128
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/18 13:38
Container ID: 1184812006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	21		1.00	1.00	col/100mL	1		08/28/18 17:06

Batch Information

Analytical Batch: BTF16832
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/28/18 17:06
Container ID: 1184812006-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	57		1	1	MPN/100m	1		08/29/18 10:19
Total Coliform	770		1	1	MPN/100m	1		08/29/18 10:19

Batch Information

Analytical Batch: BTF16835
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/18 10:19
Container ID: 1184812006-F

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812006
Lab Project ID: 1184812

Collection Date: 08/28/18 12:00
Received Date: 08/28/18 16:03
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	U	0.980	0.304	mg/L	1		08/29/18 15:39

Batch Information

Analytical Batch: STS5997
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 08/29/18 15:39
Container ID: 1184812006-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.364	J	1.00	0.310	mg/L	1		08/30/18 18:06

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:06
Container ID: 1184812006-D

Prep Batch: WXX12509
Prep Method: METHOD
Prep Date/Time: 08/29/18 16:19
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	0.0793	J	0.100	0.0310	mg/L	1		08/29/18 12:00

Batch Information

Analytical Batch: WDA4385
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/29/18 12:00
Container ID: 1184812006-D

Prep Batch: WXX12507
Prep Method: METHOD
Prep Date/Time: 08/29/18 11:30
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		08/28/18 18:09
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		08/28/18 18:09

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812006
Lab Project ID: 1184812

Collection Date: 08/28/18 12:00
Received Date: 08/28/18 16:03
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2746
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/28/18 18:09
Container ID: 1184812006-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0100	U	0.0200	0.00500	mg/L	1		09/05/18 11:14

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:14
Container ID: 1184812006-D

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
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

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812007
Lab Project ID: 1184812

Collection Date: 08/28/18 11:43
Received Date: 08/28/18 16:03
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		08/29/18 13:38

Batch Information

Analytical Batch: BOD6128
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/18 13:38
Container ID: 1184812007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	14		1.00	1.00	col/100mL	1		08/28/18 17:06

Batch Information

Analytical Batch: BTF16832
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/28/18 17:06
Container ID: 1184812007-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	52		1	1	MPN/100m	1		08/29/18 10:19
Total Coliform	2280		10	10	MPN/100m	10		08/29/18 10:19

Batch Information

Analytical Batch: BTF16835
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/18 10:19
Container ID: 1184812007-F

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812007
Lab Project ID: 1184812

Collection Date: 08/28/18 11:43
Received Date: 08/28/18 16:03
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	0.500	J	1.00	0.310	mg/L	1		08/29/18 15:39

Batch Information

Analytical Batch: STS5997
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 08/29/18 15:39
Container ID: 1184812007-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		08/30/18 18:07

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:07
Container ID: 1184812007-D

Prep Batch: WXX12509
Prep Method: METHOD
Prep Date/Time: 08/29/18 16:19
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	0.0655	J	0.100	0.0310	mg/L	1		08/29/18 12:17

Batch Information

Analytical Batch: WDA4385
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/29/18 12:17
Container ID: 1184812007-D

Prep Batch: WXX12507
Prep Method: METHOD
Prep Date/Time: 08/29/18 11:30
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		08/28/18 18:11
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		08/28/18 18:11

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812007
Lab Project ID: 1184812

Collection Date: 08/28/18 11:43
Received Date: 08/28/18 16:03
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2746
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/28/18 18:11
Container ID: 1184812007-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.00850	J	0.0200	0.00500	mg/L	1		09/05/18 11:15

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:15
Container ID: 1184812007-D

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812008
Lab Project ID: 1184812

Collection Date: 08/28/18 14:28
Received Date: 08/28/18 16:03
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		08/29/18 13:38

Batch Information

Analytical Batch: BOD6128
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/18 13:38
Container ID: 1184812008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00 U		1.00	1.00	col/100mL	1		08/28/18 17:06

Batch Information

Analytical Batch: BTF16832
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/28/18 17:06
Container ID: 1184812008-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1 U		1	1	MPN/100m	1		08/29/18 10:19
Total Coliform	5790		10	10	MPN/100m	10		08/29/18 10:19

Batch Information

Analytical Batch: BTF16835
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/18 10:19
Container ID: 1184812008-F

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812008
Lab Project ID: 1184812

Collection Date: 08/28/18 14:28
Received Date: 08/28/18 16:03
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	2.40		1.00	0.310	mg/L	1		08/29/18 15:39

Batch Information

Analytical Batch: STS5997
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 08/29/18 15:39
Container ID: 1184812008-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.671 J		1.00	0.310	mg/L	1		08/30/18 18:08

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:08
Container ID: 1184812008-D

Prep Batch: WXX12509
Prep Method: METHOD
Prep Date/Time: 08/29/18 16:19
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	0.0702 J		0.100	0.0310	mg/L	1		08/29/18 12:18

Batch Information

Analytical Batch: WDA4385
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/29/18 12:18
Container ID: 1184812008-D

Prep Batch: WXX12507
Prep Method: METHOD
Prep Date/Time: 08/29/18 11:30
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		08/28/18 18:12
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		08/28/18 18:12

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812008
Lab Project ID: 1184812

Collection Date: 08/28/18 14:28
Received Date: 08/28/18 16:03
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2746
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/28/18 18:12
Container ID: 1184812008-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0546		0.0200	0.00500	mg/L	1		09/05/18 11:16

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:16
Container ID: 1184812008-D

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812009
Lab Project ID: 1184812

Collection Date: 08/28/18 14:05
Received Date: 08/28/18 16:03
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		08/29/18 13:38

Batch Information

Analytical Batch: BOD6128
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/18 13:38
Container ID: 1184812009-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	2.0		1.00	1.00	col/100mL	1		08/28/18 17:06

Batch Information

Analytical Batch: BTF16832
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/28/18 17:06
Container ID: 1184812009-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	3		1	1	MPN/100m	1		08/29/18 10:19
Total Coliform	6130		10	10	MPN/100m	10		08/29/18 10:19

Batch Information

Analytical Batch: BTF16835
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/18 10:19
Container ID: 1184812009-F

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812009
Lab Project ID: 1184812

Collection Date: 08/28/18 14:05
Received Date: 08/28/18 16:03
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	1.67		0.980	0.304	mg/L	1		08/29/18 15:39

Batch Information

Analytical Batch: STS5997
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 08/29/18 15:39
Container ID: 1184812009-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500 U		1.00	0.310	mg/L	1		08/30/18 18:09

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:09
Container ID: 1184812009-D

Prep Batch: WXX12509
Prep Method: METHOD
Prep Date/Time: 08/29/18 16:19
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	0.0683 J		0.100	0.0310	mg/L	1		08/29/18 12:20

Batch Information

Analytical Batch: WDA4385
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/29/18 12:20
Container ID: 1184812009-D

Prep Batch: WXX12507
Prep Method: METHOD
Prep Date/Time: 08/29/18 11:30
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		08/28/18 18:14
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		08/28/18 18:14

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812009
Lab Project ID: 1184812

Collection Date: 08/28/18 14:05
Received Date: 08/28/18 16:03
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2746
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/28/18 18:14
Container ID: 1184812009-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.00970	J	0.0200	0.00500	mg/L	1		09/05/18 11:17

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:17
Container ID: 1184812009-D

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812010
Lab Project ID: 1184812

Collection Date: 08/28/18 13:46
Received Date: 08/28/18 16:03
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		08/29/18 13:38

Batch Information

Analytical Batch: BOD6128
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/18 13:38
Container ID: 1184812010-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	390		10.0	10.0	col/100mL	1		08/28/18 17:06

Batch Information

Analytical Batch: BTF16832
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/28/18 17:06
Container ID: 1184812010-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	411		1	1	MPN/100m	1		08/29/18 10:19
Total Coliform	1553		1	1	MPN/100m	1		08/29/18 10:19

Batch Information

Analytical Batch: BTF16835
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/18 10:19
Container ID: 1184812010-F

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812010
Lab Project ID: 1184812

Collection Date: 08/28/18 13:46
Received Date: 08/28/18 16:03
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	1.92		1.01	0.313	mg/L	1		08/29/18 15:39

Batch Information

Analytical Batch: STS5997
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 08/29/18 15:39
Container ID: 1184812010-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.424 J		1.00	0.310	mg/L	1		08/30/18 18:11

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:11
Container ID: 1184812010-D

Prep Batch: WXX12509
Prep Method: METHOD
Prep Date/Time: 08/29/18 16:19
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	0.0833 J		0.100	0.0310	mg/L	1		08/29/18 12:21

Batch Information

Analytical Batch: WDA4385
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/29/18 12:21
Container ID: 1184812010-D

Prep Batch: WXX12507
Prep Method: METHOD
Prep Date/Time: 08/29/18 11:30
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		08/28/18 18:16
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		08/28/18 18:16

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184812010
Lab Project ID: 1184812

Collection Date: 08/28/18 13:46
Received Date: 08/28/18 16:03
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2746
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/28/18 18:16
Container ID: 1184812010-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0308		0.0200	0.00500	mg/L	1		09/05/18 11:18

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:18
Container ID: 1184812010-D

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/05/2018 3:56:49PM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1785141 [BOD/6128]
Blank Lab ID: 1471230

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

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: BOD6128
Analytical Method: SM21 5210B
Instrument:
Analyst: A.L
Analytical Date/Time: 8/29/2018 1:38:00PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1184812 [BOD6128]
Blank Spike Lab ID: 1471231
Date Analyzed: 08/29/2018 13:38

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

Results by **SM21 5210B**

Blank Spike (mg/L)

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

Batch Information

Analytical Batch: **BOD6128**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **A.L**

Print Date: 09/05/2018 3:56:56PM

Method Blank

Blank ID: MB for HBN 1785067 [BTF/16832]
Blank Lab ID: 1470965

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF16832
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 8/28/2018 5:06:00PM

Print Date: 09/05/2018 3:56:57PM

Method Blank

Blank ID: MB for HBN 1785120 [BTF/16835]
Blank Lab ID: 1471135

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

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: BTF16835
Analytical Method: SM21 9223B
Instrument:
Analyst: K.W
Analytical Date/Time: 8/29/2018 10:19:00AM

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Method Blank

Blank ID: MB for HBN 1785109 [STS/5997]
Blank Lab ID: 1471086

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

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: STS5997
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW
Analytical Date/Time: 8/29/2018 3:39:21PM

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Duplicate Sample Summary

Original Sample ID: 1184811001
Duplicate Sample ID: 1471089

Analysis Date: 08/29/2018 15:39
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	428	408	mg/L	4.80	(< 5)

Batch Information

Analytical Batch: STS5997
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 09/05/2018 3:57:02PM

Duplicate Sample Summary

Original Sample ID: 1184815001
Duplicate Sample ID: 1471090

Analysis Date: 08/29/2018 15:39
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	660	700	mg/L	5.90*	(< 5)

Batch Information

Analytical Batch: STS5997
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 09/05/2018 3:57:02PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1184812 [STS5997]
Blank Spike Lab ID: 1471087
Date Analyzed: 08/29/2018 15:39

Spike Duplicate ID: LCSD for HBN 1184812 [STS5997]
Spike Duplicate Lab ID: 1471088
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

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	24.6	98	25	24.9	100	(75-125)	1.20	(< 5)

Batch Information

Analytical Batch: **STS5997**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **EWW**

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Method Blank

Blank ID: MB for HBN 1785103 (WFI/2746) Matrix: Water (Surface, Eff., Ground)
Blank Lab ID: 1471061

QC for Samples:
1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

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: WFI2746
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 8/28/2018 5:46:31PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1184812 [WFI2746]
Blank Spike Lab ID: 1471046
Date Analyzed: 08/28/2018 17:44

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.69	107	(70-130)
Nitrite-N	2.5	2.58	103	(90-110)
Total Nitrate/Nitrite-N	5	5.26	105	(90-110)

Batch Information

Analytical Batch: **WFI2746**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AYC**

Print Date: 09/05/2018 3:57:06PM

Matrix Spike Summary

Original Sample ID: 1184812005
MS Sample ID: 1471044 MS
MSD Sample ID: 1471045 MSD

Analysis Date: 08/28/2018 17:58
Analysis Date: 08/28/2018 18:00
Analysis Date: 08/28/2018 18:02
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

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	2.75	110	2.50	2.74	110	70-130	0.28	(< 25)
Nitrite-N	0.0500U	2.50	2.56	102	2.50	2.58	103	90-110	0.97	(< 25)

Batch Information

Analytical Batch: WFI2746
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 8/28/2018 6:00:32PM

Print Date: 09/05/2018 3:57:07PM

Method Blank

Blank ID: MB for HBN 1785142 [WXX/12507]
Blank Lab ID: 1471237

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

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: WDA4385
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 8/29/2018 11:55:22AM

Prep Batch: WXX12507
Prep Method: METHOD
Prep Date/Time: 8/29/2018 11:30:00AM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Print Date: 09/05/2018 3:57:09PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1184812 [WXX12507]
Blank Spike Lab ID: 1471238
Date Analyzed: 08/29/2018 11:57

Spike Duplicate ID: LCSD for HBN 1184812 [WXX12507]
Spike Duplicate Lab ID: 1471239
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

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	0.946	95	1	0.967	97	(75-125)	2.20	(< 25)

Batch Information

Analytical Batch: **WDA4385**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12507**
Prep Method: **METHOD**
Prep Date/Time: **08/29/2018 11:30**
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: 1184812006
MS Sample ID: 1471240 MS
MSD Sample ID: 1471241 MSD

Analysis Date: 08/29/2018 12:00
Analysis Date: 08/29/2018 12:02
Analysis Date: 08/29/2018 12:03
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

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	0.0793J	1.00	.991	91	1.00	0.964	89	75-125	2.70	(< 25)

Batch Information

Analytical Batch: WDA4385
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 8/29/2018 12:02:05PM

Prep Batch: WXX12507
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 8/29/2018 11:30:00AM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 09/05/2018 3:57:12PM

Method Blank

Blank ID: MB for HBN 1785240 [WXX/12509]
Blank Lab ID: 1471661

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

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: WDA4387
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 8/30/2018 5:50:20PM

Prep Batch: WXX12509
Prep Method: METHOD
Prep Date/Time: 8/29/2018 4:19:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1184812 [WXX12509]
Blank Spike Lab ID: 1471662
Date Analyzed: 08/30/2018 17:51

Spike Duplicate ID: LCSD for HBN 1184812 [WXX12509]
Spike Duplicate Lab ID: 1471663
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

Results by **SM21 4500-N D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	4	3.86	97	4	4.02	101	(75-125)	4.00	(< 25)

Batch Information

Analytical Batch: **WDA4387**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12509**
Prep Method: **METHOD**
Prep Date/Time: **08/29/2018 16:19**
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: 1184812001
MS Sample ID: 1471664 MS
MSD Sample ID: 1471665 MSD

Analysis Date: 08/30/2018 17:54
Analysis Date: 08/30/2018 17:55
Analysis Date: 08/30/2018 17:56
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

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	0.782J	4.00	4.6	95	4.00	4.46	92	75-125	3.00	(< 25)

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 8/30/2018 5:55:35PM

Prep Batch: WXX12509
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 8/29/2018 4:19:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/05/2018 3:57:17PM

Method Blank

Blank ID: MB for HBN 1785478 [WXX/12521]
Blank Lab ID: 1472799

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

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: WDA4392
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/5/2018 11:02:17AM

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 9/4/2018 1:34:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/05/2018 3:57:17PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1184812 [WXX12521]
Blank Spike Lab ID: 1472800
Date Analyzed: 09/05/2018 11:03

Spike Duplicate ID: LCSD for HBN 1184812 [WXX12521]
Spike Duplicate Lab ID: 1472801
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

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	0.201	101	0.2	0.198	99	(75-125)	1.50	(< 25)

Batch Information

Analytical Batch: **WDA4392**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12521**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **09/04/2018 13:34**
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: 1184812002
MS Sample ID: 1472802 MS
MSD Sample ID: 1472803 MSD

Analysis Date: 09/05/2018 11:06
Analysis Date: 09/05/2018 11:07
Analysis Date: 09/05/2018 11:08
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184812001, 1184812002, 1184812003, 1184812004, 1184812005, 1184812006, 1184812007, 1184812008, 1184812009, 1184812010

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	0.0259	0.200	.229	102	0.200	0.229	102	75-125	0.09	(< 25)

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/5/2018 11:07:12AM

Prep Batch: WXX12521
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 9/4/2018 1:34:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/05/2018 3:57:20PM

SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

RETURNED KET

1184812

Locations Nationwide
Alaska, Maryland, New Jersey, New York, North Carolina, Indiana, West Virginia, Kentucky
www.us.sgs.com

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

Section 1

CLIENT: Stantec

CONTACT: Jake Alward PHONE NO: 343-5202

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

REPORTS TO: E-MAIL: 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 Incre-mental Soils	Preservative: —	—	—	—	—	—	—	—	—	REMARKS/ LOC ID
							—	—	—	H_2SO_4	Na_2SO_4	Na_2SO_4				
							BOD	TSS	Nitrate/Nitrite	TKN/Ammonia	FC	TC (Quant)				
1 A-F	SW1	08/28/18	10:01		6	G	1	1	1	1	1	1				
2 A-F	SW2		10:27		6		1	1	1	1	1	1				
3 A-F	SW3		10:44		6		1	1	1	1	1	1				
4 A-F	SW4		12:19		6		1	1	1	1	1	1				
5 A-F	SW5		12:38		6		1	1	1	1	1	1				
6 A-F	SW6		12:00		6		1	1	1	1	1	1				
7 A-F	SW7		11:43		6		1	1	1	1	1	1				
8 A-F	SW8		1428		6		1	1	1	1	1	1				
9 A-F	SW9		1405		6		1	1	1	1	1	1				
10 A-F	SW10		1346		6		1	1	1	1	1	1				

Section 5

	Date	Time	
Relinquished By: (1)	8/28/18	16:03	Received By:
Relinquished By: (2)	Date	Time	~~Received By:~~
~~Relinquished By: (3)~~	Date	~~Time~~	Received By:
~~Relinquished By: (4)~~	8/28/18	16:03	Received For Laboratory By: 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)
(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

Cooler 1: 1.8 D45

Cooler 2: 2.0 D36

e-Sample Receipt Form

SGS Workorder #: **1184812**

1 1 8 4 8 1 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 @ 1.8 °C Therm. ID: D45
	YES	Cooler ID: 2 @ 2.0 °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)?	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
1184812001-A	No Preservative Required	OK
1184812001-B	No Preservative Required	OK
1184812001-C	No Preservative Required	OK
1184812001-D	H2SO4 to pH < 2	OK
1184812001-E	Na2S2O3 for Chlorine Redu	OK
1184812001-F	Na2S2O3 for Chlorine Redu	OK
1184812002-A	No Preservative Required	OK
1184812002-B	No Preservative Required	OK
1184812002-C	No Preservative Required	OK
1184812002-D	H2SO4 to pH < 2	OK
1184812002-E	Na2S2O3 for Chlorine Redu	OK
1184812002-F	Na2S2O3 for Chlorine Redu	OK
1184812003-A	No Preservative Required	OK
1184812003-B	No Preservative Required	OK
1184812003-C	No Preservative Required	OK
1184812003-D	H2SO4 to pH < 2	OK
1184812003-E	Na2S2O3 for Chlorine Redu	OK
1184812003-F	Na2S2O3 for Chlorine Redu	OK
1184812004-A	No Preservative Required	OK
1184812004-B	No Preservative Required	OK
1184812004-C	No Preservative Required	OK
1184812004-D	H2SO4 to pH < 2	OK
1184812004-E	Na2S2O3 for Chlorine Redu	OK
1184812004-F	Na2S2O3 for Chlorine Redu	OK
1184812005-A	No Preservative Required	OK
1184812005-B	No Preservative Required	OK
1184812005-C	No Preservative Required	OK
1184812005-D	H2SO4 to pH < 2	OK
1184812005-E	Na2S2O3 for Chlorine Redu	OK
1184812005-F	Na2S2O3 for Chlorine Redu	OK
1184812006-A	No Preservative Required	OK
1184812006-B	No Preservative Required	OK
1184812006-C	No Preservative Required	OK
1184812006-D	H2SO4 to pH < 2	OK
1184812006-E	Na2S2O3 for Chlorine Redu	OK
1184812006-F	Na2S2O3 for Chlorine Redu	OK
1184812007-A	No Preservative Required	OK
1184812007-B	No Preservative Required	OK
1184812007-C	No Preservative Required	OK
1184812007-D	H2SO4 to pH < 2	OK
1184812007-E	Na2S2O3 for Chlorine Redu	OK
1184812007-F	Na2S2O3 for Chlorine Redu	OK
1184812008-A	No Preservative Required	OK
1184812008-B	No Preservative Required	OK
1184812008-C	No Preservative Required	OK
1184812008-D	H2SO4 to pH < 2	OK
1184812008-E	Na2S2O3 for Chlorine Redu	OK
1184812008-F	Na2S2O3 for Chlorine Redu	OK
1184812009-A	No Preservative Required	OK
1184812009-B	No Preservative Required	OK
1184812009-C	No Preservative Required	OK
1184812009-D	H2SO4 to pH < 2	OK
1184812009-E	Na2S2O3 for Chlorine Redu	OK
1184812009-F	Na2S2O3 for Chlorine Redu	OK
1184812010-A	No Preservative Required	OK
1184812010-B	No Preservative Required	OK
1184812010-C	No Preservative Required	OK
1184812010-D	H2SO4 to pH < 2	OK
1184812010-E	Na2S2O3 for Chlorine Redu	OK
1184812010-F	Na2S2O3 for Chlorine Redu	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: **1184853**

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

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t 907.562.2343 f 907.561.5301 www.us.sgs.com

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1184853**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

1184850001DUP (1471493) 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.

1184850003DUP (1471494) 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.

1184853001MSD (1471855) MSD

4500NH3-G - Ammonia - MS/MSD RPD was outside of QC criteria. Refer to LCS/LCSD RPD for precision.
4500NH3-G - Ammonia - MSD recovery is outside of QC criteria. Refer to LCSD for accuracy requirements.

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

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
SW18	1184853001	08/29/2018	08/29/2018	Water (Surface, Eff., Ground)
DUP1	1184853002	08/29/2018	08/29/2018	Water (Surface, Eff., Ground)
Shaw	1184853003	08/29/2018	08/29/2018	Water (Surface, Eff., Ground)
SW11	1184853004	08/29/2018	08/29/2018	Water (Surface, Eff., Ground)
SW12	1184853005	08/29/2018	08/29/2018	Water (Surface, Eff., Ground)
SW13	1184853006	08/29/2018	08/29/2018	Water (Surface, Eff., Ground)
SW14	1184853007	08/29/2018	08/29/2018	Water (Surface, Eff., Ground)
SW15	1184853008	08/29/2018	08/29/2018	Water (Surface, Eff., Ground)
SW16	1184853009	08/29/2018	08/29/2018	Water (Surface, Eff., Ground)
SW17	1184853010	08/29/2018	08/29/2018	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: **SW18**
Lab Sample ID: 1184853001

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.59	mg/L
	E. Coli	29	MPN/100mL
	Fecal Coliform	10	col/100mL
	Total Coliform	3450	MPN/100mL
Waters Department	Ammonia-N	0.115	mg/L
	Nitrate-N	5.62	mg/L
	Nitrite-N	0.0554J	mg/L
	Total Kjeldahl Nitrogen	0.738J	mg/L
	Total Phosphorus	0.684	mg/L
	Total Suspended Solids	5.19	mg/L

Client Sample ID: **DUP1**
Lab Sample ID: 1184853002

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.49	mg/L
	E. Coli	22	MPN/100mL
	Fecal Coliform	21	col/100mL
	Total Coliform	2420	MPN/100mL
Waters Department	Ammonia-N	0.105	mg/L
	Nitrate-N	5.09	mg/L
	Nitrite-N	0.0514J	mg/L
	Total Kjeldahl Nitrogen	0.834J	mg/L
	Total Phosphorus	0.691	mg/L
	Total Suspended Solids	6.80	mg/L

Client Sample ID: **Shaw**
Lab Sample ID: 1184853003

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	62	MPN/100mL
	Fecal Coliform	72	col/100mL
	Total Coliform	613	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	0.382J	mg/L
	Total Suspended Solids	4.23	mg/L

Client Sample ID: **SW11**
Lab Sample ID: 1184853004

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	17.9	mg/L
	Fecal Coliform	1.0	col/100mL
	Total Coliform	548	MPN/100mL
Waters Department	Total Phosphorus	0.0215	mg/L

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Detectable Results Summary

Client Sample ID: **SW12**
Lab Sample ID: 1184853005

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.11	mg/L
	E. Coli	22	MPN/100mL
	Fecal Coliform	27	col/100mL
	Total Coliform	11200	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	0.489J	mg/L
	Total Phosphorus	0.0918	mg/L
	Total Suspended Solids	12.4	mg/L

Client Sample ID: **SW13**
Lab Sample ID: 1184853006

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	3	MPN/100mL
	Fecal Coliform	2.0	col/100mL
	Total Coliform	3870	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	0.408J	mg/L
	Total Phosphorus	0.00500J	mg/L

Client Sample ID: **SW14**
Lab Sample ID: 1184853007

	Parameter	Result	Units
Microbiology Laboratory	Total Coliform	1046	MPN/100mL
Waters Department	Total Phosphorus	0.0716	mg/L
	Total Suspended Solids	4.56	mg/L

Client Sample ID: **SW15**
Lab Sample ID: 1184853008

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	43	MPN/100mL
	Fecal Coliform	42	col/100mL
	Total Coliform	4610	MPN/100mL
Waters Department	Ammonia-N	0.0400J	mg/L
	Total Kjeldahl Nitrogen	0.356J	mg/L
	Total Phosphorus	0.0443	mg/L
	Total Suspended Solids	1.41	mg/L

Client Sample ID: **SW16**
Lab Sample ID: 1184853009

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	3.88	mg/L
	E. Coli	23	MPN/100mL
	Fecal Coliform	20	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	0.962J	mg/L
	Total Phosphorus	0.0875	mg/L
	Total Suspended Solids	22.3	mg/L

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Detectable Results Summary

Client Sample ID: **SW17**
Lab Sample ID: 1184853010

Microbiology Laboratory

Waters Department

Parameter	Result	Units
E. Coli	20	MPN/100mL
Fecal Coliform	12	col/100mL
Total Coliform	1300	MPN/100mL
Ammonia-N	0.0847J	mg/L
Nitrate-N	1.49	mg/L
Total Kjeldahl Nitrogen	2.36	mg/L
Total Phosphorus	0.129	mg/L
Total Suspended Solids	1.92	mg/L

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Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853001
Lab Project ID: 1184853

Collection Date: 08/29/18 12:25
Received Date: 08/29/18 16:55
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	2.59		2.00	2.00	mg/L	1		08/30/18 18:22

Batch Information

Analytical Batch: BOD6131
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/18 18:22
Container ID: 1184853001-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	10		1.00	1.00	col/100mL	1		08/29/18 17:38

Batch Information

Analytical Batch: BTF16841
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/18 17:38
Container ID: 1184853001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	29		1	1	MPN/100m	1		08/30/18 10:29
Total Coliform	3450		10	10	MPN/100m	10		08/30/18 10:29

Batch Information

Analytical Batch: BTF16840
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/18 10:29
Container ID: 1184853001-B

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853001
Lab Project ID: 1184853

Collection Date: 08/29/18 12:25
Received Date: 08/29/18 16:55
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	5.19		1.04	0.322	mg/L	1		08/30/18 16:24

Batch Information

Analytical Batch: STS6000
Analytical Method: SM21 2540D
Analyst: DMM
Analytical Date/Time: 08/30/18 16:24
Container ID: 1184853001-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.738 J		1.00	0.310	mg/L	1		08/30/18 18:21

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:21
Container ID: 1184853001-C

Prep Batch: WXX12510
Prep Method: METHOD
Prep Date/Time: 08/30/18 10:01
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		08/31/18 11:48

Batch Information

Analytical Batch: WDA4388
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/31/18 11:48
Container ID: 1184853001-C

Prep Batch: WXX12513
Prep Method: METHOD
Prep Date/Time: 08/31/18 11:00
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	5.62		0.100	0.0250	mg/L	2		08/29/18 18:29
Nitrite-N	0.0554 J		0.100	0.0250	mg/L	2		08/29/18 18:29

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853001
Lab Project ID: 1184853

Collection Date: 08/29/18 12:25
Received Date: 08/29/18 16:55
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2747
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/29/18 18:29
Container ID: 1184853001-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.684		0.200	0.0500	mg/L	1		09/07/18 11:24

Batch Information

Analytical Batch: WDA4394
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/07/18 11:24
Container ID: 1184853001-C

Prep Batch: WXX12530
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/06/18 17:00
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853002
Lab Project ID: 1184853

Collection Date: 08/29/18 12:25
Received Date: 08/29/18 16:55
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	2.49		2.00	2.00	mg/L	1		08/30/18 18:22

Batch Information

Analytical Batch: BOD6131
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/18 18:22
Container ID: 1184853002-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	21		1.00	1.00	col/100mL	1		08/29/18 17:38

Batch Information

Analytical Batch: BTF16841
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/18 17:38
Container ID: 1184853002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	22		1	1	MPN/100m	1		08/30/18 10:29
Total Coliform	2420		1	1	MPN/100m	1		08/30/18 10:29

Batch Information

Analytical Batch: BTF16840
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/18 10:29
Container ID: 1184853002-B

Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853002
Lab Project ID: 1184853

Collection Date: 08/29/18 12:25
Received Date: 08/29/18 16:55
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	6.80		1.00	0.310	mg/L	1		08/30/18 16:24

Batch Information

Analytical Batch: STS6000
Analytical Method: SM21 2540D
Analyst: DMM
Analytical Date/Time: 08/30/18 16:24
Container ID: 1184853002-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.834 J		1.00	0.310	mg/L	1		08/30/18 18:25

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:25
Container ID: 1184853002-C

Prep Batch: WXX12510
Prep Method: METHOD
Prep Date/Time: 08/30/18 10:01
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	0.105		0.100	0.0310	mg/L	1		08/31/18 11:53

Batch Information

Analytical Batch: WDA4388
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/31/18 11:53
Container ID: 1184853002-C

Prep Batch: WXX12513
Prep Method: METHOD
Prep Date/Time: 08/31/18 11:00
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		08/29/18 18:31
Nitrite-N	0.0514 J		0.100	0.0250	mg/L	2		08/29/18 18:31

Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853002
Lab Project ID: 1184853

Collection Date: 08/29/18 12:25
Received Date: 08/29/18 16:55
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2747
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/29/18 18:31
Container ID: 1184853002-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.691		0.200	0.0500	mg/L	1		09/07/18 11:27

Batch Information

Analytical Batch: WDA4394
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/07/18 11:27
Container ID: 1184853002-C

Prep Batch: WXX12530
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/06/18 17:00
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Results of **Shaw**

Client Sample ID: **Shaw**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853003
Lab Project ID: 1184853

Collection Date: 08/29/18 13:01
Received Date: 08/29/18 16:55
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		08/30/18 18:22

Batch Information

Analytical Batch: BOD6131
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/18 18:22
Container ID: 1184853003-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	72		1.00	1.00	col/100mL	1		08/29/18 17:38

Batch Information

Analytical Batch: BTF16841
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/18 17:38
Container ID: 1184853003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	62		1	1	MPN/100m	1		08/30/18 10:29
Total Coliform	613		1	1	MPN/100m	1		08/30/18 10:29

Batch Information

Analytical Batch: BTF16840
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/18 10:29
Container ID: 1184853003-B

Results of **Shaw**

Client Sample ID: **Shaw**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853003
Lab Project ID: 1184853

Collection Date: 08/29/18 13:01
Received Date: 08/29/18 16:55
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	4.23		1.03	0.320	mg/L	1		08/30/18 16:24

Batch Information

Analytical Batch: STS6000
Analytical Method: SM21 2540D
Analyst: DMM
Analytical Date/Time: 08/30/18 16:24
Container ID: 1184853003-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.382 J		1.00	0.310	mg/L	1		08/30/18 18:27

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:27
Container ID: 1184853003-C

Prep Batch: WXX12510
Prep Method: METHOD
Prep Date/Time: 08/30/18 10:01
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	0.0500 U		0.100	0.0310	mg/L	1		08/31/18 11:55

Batch Information

Analytical Batch: WDA4388
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/31/18 11:55
Container ID: 1184853003-C

Prep Batch: WXX12513
Prep Method: METHOD
Prep Date/Time: 08/31/18 11:00
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		08/29/18 18:32
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		08/29/18 18:32

Results of **Shaw**

Client Sample ID: **Shaw**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853003
Lab Project ID: 1184853

Collection Date: 08/29/18 13:01
Received Date: 08/29/18 16:55
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2747
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/29/18 18:32
Container ID: 1184853003-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0100	U	0.0200	0.00500	mg/L	1		09/05/18 11:20

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:20
Container ID: 1184853003-C

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853004
Lab Project ID: 1184853

Collection Date: 08/29/18 09:30
Received Date: 08/29/18 16:55
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	17.9		2.00	2.00	mg/L	1		08/30/18 18:22

Batch Information

Analytical Batch: BOD6131
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/18 18:22
Container ID: 1184853004-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.0		1.00	1.00	col/100mL	1		08/29/18 17:18

Batch Information

Analytical Batch: BTF16841
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/18 17:18
Container ID: 1184853004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		08/30/18 10:29
Total Coliform	548		1	1	MPN/100m	1		08/30/18 10:29

Batch Information

Analytical Batch: BTF16840
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/18 10:29
Container ID: 1184853004-B

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853004
Lab Project ID: 1184853

Collection Date: 08/29/18 09:30
Received Date: 08/29/18 16:55
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	0.471	U	0.943	0.292	mg/L	1		08/30/18 16:24

Batch Information

Analytical Batch: STS6000
Analytical Method: SM21 2540D
Analyst: DMM
Analytical Date/Time: 08/30/18 16:24
Container ID: 1184853004-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		08/30/18 18:28

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:28
Container ID: 1184853004-C

Prep Batch: WXX12510
Prep Method: METHOD
Prep Date/Time: 08/30/18 10:01
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	0.0500	U	0.100	0.0310	mg/L	1		08/31/18 11:56

Batch Information

Analytical Batch: WDA4388
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/31/18 11:56
Container ID: 1184853004-C

Prep Batch: WXX12513
Prep Method: METHOD
Prep Date/Time: 08/31/18 11:00
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		08/29/18 18:34
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		08/29/18 18:34

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853004
Lab Project ID: 1184853

Collection Date: 08/29/18 09:30
Received Date: 08/29/18 16:55
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2747
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/29/18 18:34
Container ID: 1184853004-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0215		0.0200	0.00500	mg/L	1		09/05/18 11:21

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:21
Container ID: 1184853004-C

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853005
Lab Project ID: 1184853

Collection Date: 08/29/18 09:50
Received Date: 08/29/18 16:55
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	2.11		2.00	2.00	mg/L	1		08/30/18 18:22

Batch Information

Analytical Batch: BOD6131
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/18 18:22
Container ID: 1184853005-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	27		1.00	1.00	col/100mL	1		08/29/18 17:18

Batch Information

Analytical Batch: BTF16841
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/18 17:18
Container ID: 1184853005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	22		1	1	MPN/100m	1		08/30/18 10:29
Total Coliform	11200		10	10	MPN/100m	10		08/30/18 10:29

Batch Information

Analytical Batch: BTF16840
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/18 10:29
Container ID: 1184853005-B

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853005
Lab Project ID: 1184853

Collection Date: 08/29/18 09:50
Received Date: 08/29/18 16:55
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	12.4		2.00	0.620	mg/L	1		08/30/18 16:24

Batch Information

Analytical Batch: STS6000
Analytical Method: SM21 2540D
Analyst: DMM
Analytical Date/Time: 08/30/18 16:24
Container ID: 1184853005-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.489 J		1.00	0.310	mg/L	1		08/30/18 18:29

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:29
Container ID: 1184853005-C

Prep Batch: WXX12510
Prep Method: METHOD
Prep Date/Time: 08/30/18 10:01
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	0.0500 U		0.100	0.0310	mg/L	1		08/31/18 11:58

Batch Information

Analytical Batch: WDA4388
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/31/18 11:58
Container ID: 1184853005-C

Prep Batch: WXX12513
Prep Method: METHOD
Prep Date/Time: 08/31/18 11:00
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		08/29/18 18:36
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		08/29/18 18:36

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853005
Lab Project ID: 1184853

Collection Date: 08/29/18 09:50
Received Date: 08/29/18 16:55
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2747
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/29/18 18:36
Container ID: 1184853005-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0918		0.0200	0.00500	mg/L	1		09/05/18 11:22

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:22
Container ID: 1184853005-C

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853006
Lab Project ID: 1184853

Collection Date: 08/29/18 10:12
Received Date: 08/29/18 16:55
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		08/30/18 18:22

Batch Information

Analytical Batch: BOD6131
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/18 18:22
Container ID: 1184853006-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	2.0		1.00	1.00	col/100mL	1		08/29/18 17:18

Batch Information

Analytical Batch: BTF16841
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/18 17:18
Container ID: 1184853006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	3		1	1	MPN/100m	1		08/30/18 10:29
Total Coliform	3870		10	10	MPN/100m	10		08/30/18 10:29

Batch Information

Analytical Batch: BTF16840
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/18 10:29
Container ID: 1184853006-B

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853006
Lab Project ID: 1184853

Collection Date: 08/29/18 10:12
Received Date: 08/29/18 16:55
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	0.510	U	1.02	0.316	mg/L	1		08/30/18 16:24

Batch Information

Analytical Batch: STS6000
Analytical Method: SM21 2540D
Analyst: DMM
Analytical Date/Time: 08/30/18 16:24
Container ID: 1184853006-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.408	J	1.00	0.310	mg/L	1		08/30/18 18:33

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:33
Container ID: 1184853006-C

Prep Batch: WXX12510
Prep Method: METHOD
Prep Date/Time: 08/30/18 10:01
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	0.0500	U	0.100	0.0310	mg/L	1		08/31/18 12:03

Batch Information

Analytical Batch: WDA4388
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/31/18 12:03
Container ID: 1184853006-C

Prep Batch: WXX12513
Prep Method: METHOD
Prep Date/Time: 08/31/18 11:00
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		08/29/18 18:46
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		08/29/18 18:46

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853006
Lab Project ID: 1184853

Collection Date: 08/29/18 10:12
Received Date: 08/29/18 16:55
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2747
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/29/18 18:46
Container ID: 1184853006-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.00500	J	0.0200	0.00500	mg/L	1		09/05/18 11:25

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:25
Container ID: 1184853006-C

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
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: 1184853007
Lab Project ID: 1184853

Collection Date: 08/29/18 11:13
Received Date: 08/29/18 16:55
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		08/30/18 18:22

Batch Information

Analytical Batch: BOD6131
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/18 18:22
Container ID: 1184853007-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		08/29/18 17:38

Batch Information

Analytical Batch: BTF16841
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/18 17:38
Container ID: 1184853007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1 U		1	1	MPN/100m	1		08/30/18 10:29
Total Coliform	1046		1	1	MPN/100m	1		08/30/18 10:29

Batch Information

Analytical Batch: BTF16840
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/18 10:29
Container ID: 1184853007-B

Results of **SW14**

Client Sample ID: **SW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853007
Lab Project ID: 1184853

Collection Date: 08/29/18 11:13
Received Date: 08/29/18 16:55
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	4.56		0.971	0.301	mg/L	1		08/30/18 16:24

Batch Information

Analytical Batch: STS6000
Analytical Method: SM21 2540D
Analyst: DMM
Analytical Date/Time: 08/30/18 16:24
Container ID: 1184853007-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		08/30/18 18:34

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:34
Container ID: 1184853007-C

Prep Batch: WXX12510
Prep Method: METHOD
Prep Date/Time: 08/30/18 10:01
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	0.0500 U		0.100	0.0310	mg/L	1		08/31/18 12:05

Batch Information

Analytical Batch: WDA4388
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/31/18 12:05
Container ID: 1184853007-C

Prep Batch: WXX12513
Prep Method: METHOD
Prep Date/Time: 08/31/18 11:00
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		08/29/18 18:48
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		08/29/18 18:48

Results of **SW14**

Client Sample ID: **SW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853007
Lab Project ID: 1184853

Collection Date: 08/29/18 11:13
Received Date: 08/29/18 16:55
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2747
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/29/18 18:48
Container ID: 1184853007-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0716		0.0200	0.00500	mg/L	1		09/05/18 11:26

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:26
Container ID: 1184853007-C

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853008
Lab Project ID: 1184853

Collection Date: 08/29/18 10:52
Received Date: 08/29/18 16:55
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		08/30/18 18:22

Batch Information

Analytical Batch: BOD6131
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/18 18:22
Container ID: 1184853008-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	42		1.00	1.00	col/100mL	1		08/29/18 17:38

Batch Information

Analytical Batch: BTF16841
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/18 17:38
Container ID: 1184853008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	43		1	1	MPN/100m	1		08/30/18 10:29
Total Coliform	4610		10	10	MPN/100m	10		08/30/18 10:29

Batch Information

Analytical Batch: BTF16840
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/18 10:29
Container ID: 1184853008-B

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853008
Lab Project ID: 1184853

Collection Date: 08/29/18 10:52
Received Date: 08/29/18 16:55
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	1.41		1.01	0.313	mg/L	1		08/30/18 16:24

Batch Information

Analytical Batch: STS6000
Analytical Method: SM21 2540D
Analyst: DMM
Analytical Date/Time: 08/30/18 16:24
Container ID: 1184853008-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.356 J		1.00	0.310	mg/L	1		08/30/18 18:35

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:35
Container ID: 1184853008-C

Prep Batch: WXX12510
Prep Method: METHOD
Prep Date/Time: 08/30/18 10:01
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	0.0400 J		0.100	0.0310	mg/L	1		08/31/18 12:06

Batch Information

Analytical Batch: WDA4388
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/31/18 12:06
Container ID: 1184853008-C

Prep Batch: WXX12513
Prep Method: METHOD
Prep Date/Time: 08/31/18 11:00
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		08/29/18 18:50
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		08/29/18 18:50

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853008
Lab Project ID: 1184853

Collection Date: 08/29/18 10:52
Received Date: 08/29/18 16:55
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2747
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/29/18 18:50
Container ID: 1184853008-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0443		0.0200	0.00500	mg/L	1		09/05/18 11:28

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:28
Container ID: 1184853008-C

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853009
Lab Project ID: 1184853

Collection Date: 08/29/18 10:32
Received Date: 08/29/18 16:55
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	3.88		2.00	2.00	mg/L	1		08/30/18 18:22

Batch Information

Analytical Batch: BOD6131
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/18 18:22
Container ID: 1184853009-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	20		1.00	1.00	col/100mL	1		08/29/18 17:38

Batch Information

Analytical Batch: BTF16841
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/18 17:38
Container ID: 1184853009-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	23		1	1	MPN/100m	1		08/30/18 10:29
Total Coliform	>2420		10	10	MPN/100m	10		08/30/18 10:29

Batch Information

Analytical Batch: BTF16840
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/18 10:29
Container ID: 1184853009-B

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853009
Lab Project ID: 1184853

Collection Date: 08/29/18 10:32
Received Date: 08/29/18 16:55
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	22.3		3.33	1.03	mg/L	1		08/30/18 16:24

Batch Information

Analytical Batch: STS6000
Analytical Method: SM21 2540D
Analyst: DMM
Analytical Date/Time: 08/30/18 16:24
Container ID: 1184853009-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.962 J		1.00	0.310	mg/L	1		08/30/18 18:37

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:37
Container ID: 1184853009-C

Prep Batch: WXX12510
Prep Method: METHOD
Prep Date/Time: 08/30/18 10:01
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	0.0500 U		0.100	0.0310	mg/L	1		08/31/18 12:08

Batch Information

Analytical Batch: WDA4388
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/31/18 12:08
Container ID: 1184853009-C

Prep Batch: WXX12513
Prep Method: METHOD
Prep Date/Time: 08/31/18 11:00
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		08/29/18 18:52
Nitrite-N	0.0500 U		0.100	0.0250	mg/L	2		08/29/18 18:52

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853009
Lab Project ID: 1184853

Collection Date: 08/29/18 10:32
Received Date: 08/29/18 16:55
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2747
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/29/18 18:52
Container ID: 1184853009-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0875		0.0200	0.00500	mg/L	1		09/05/18 11:29

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:29
Container ID: 1184853009-C

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853010
Lab Project ID: 1184853

Collection Date: 08/29/18 12:00
Received Date: 08/29/18 16:55
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		08/30/18 18:22

Batch Information

Analytical Batch: BOD6131
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/18 18:22
Container ID: 1184853010-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	12		1.00	1.00	col/100mL	1		08/29/18 17:38

Batch Information

Analytical Batch: BTF16841
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/18 17:38
Container ID: 1184853010-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	20		1	1	MPN/100m	1		08/30/18 10:29
Total Coliform	1300		1	1	MPN/100m	1		08/30/18 10:29

Batch Information

Analytical Batch: BTF16840
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/18 10:29
Container ID: 1184853010-B

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853010
Lab Project ID: 1184853

Collection Date: 08/29/18 12:00
Received Date: 08/29/18 16:55
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	1.92		1.01	0.313	mg/L	1		08/30/18 16:24

Batch Information

Analytical Batch: STS6000
Analytical Method: SM21 2540D
Analyst: DMM
Analytical Date/Time: 08/30/18 16:24
Container ID: 1184853010-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	2.36		1.00	0.310	mg/L	1		08/30/18 18:38

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 08/30/18 18:38
Container ID: 1184853010-C

Prep Batch: WXX12510
Prep Method: METHOD
Prep Date/Time: 08/30/18 10:01
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	0.0847	J	0.100	0.0310	mg/L	1		08/31/18 12:10

Batch Information

Analytical Batch: WDA4388
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 08/31/18 12:10
Container ID: 1184853010-C

Prep Batch: WXX12513
Prep Method: METHOD
Prep Date/Time: 08/31/18 11:00
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	1.49		0.100	0.0250	mg/L	2		08/29/18 18:53
Nitrite-N	0.0500	U	0.100	0.0250	mg/L	2		08/29/18 18:53

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1184853010
Lab Project ID: 1184853

Collection Date: 08/29/18 12:00
Received Date: 08/29/18 16:55
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2747
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 08/29/18 18:53
Container ID: 1184853010-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.129		0.0200	0.00500	mg/L	1		09/05/18 11:30

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/05/18 11:30
Container ID: 1184853010-C

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/04/18 13:34
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/07/2018 3:02:53PM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1785224 [BOD/6131]
Blank Lab ID: 1471603

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

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: BOD6131
Analytical Method: SM21 5210B
Instrument:
Analyst: A.L
Analytical Date/Time: 8/30/2018 6:22:00PM

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 1184853 [BOD6131]
Blank Spike Lab ID: 1471604
Date Analyzed: 08/30/2018 18:22

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	197	100	(84.6-115.4

Batch Information

Analytical Batch: **BOD6131**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **A.L**

Print Date: 09/07/2018 3:02:59PM

Method Blank

Blank ID: MB for HBN 1785185 [BTF/16840]
Blank Lab ID: 1471405

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

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: BTF16840
Analytical Method: SM21 9223B
Instrument:
Analyst: K.W
Analytical Date/Time: 8/30/2018 10:29:00AM

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Method Blank

Blank ID: MB for HBN 1785145 [BTF/16838]
Blank Lab ID: 1471328

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF16841
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 8/29/2018 5:18:00PM

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Method Blank

Blank ID: MB for HBN 1785197 [STS/6000]
Blank Lab ID: 1471490

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

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: STS6000
Analytical Method: SM21 2540D
Instrument:
Analyst: DMM
Analytical Date/Time: 8/30/2018 4:24:50PM

Print Date: 09/07/2018 3:03:04PM

Duplicate Sample Summary

Original Sample ID: 1184850001
Duplicate Sample ID: 1471493
QC for Samples:

Analysis Date: 08/30/2018 16:24
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	133	141	mg/L	5.80*	(< 5)

Batch Information

Analytical Batch: STS6000
Analytical Method: SM21 2540D
Instrument:
Analyst: DMM

Print Date: 09/07/2018 3:03:05PM

Duplicate Sample Summary

Original Sample ID: 1184850003
Duplicate Sample ID: 1471494

Analysis Date: 08/30/2018 16:24
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	148	157	mg/L	5.90*	(< 5)

Batch Information

Analytical Batch: STS6000
Analytical Method: SM21 2540D
Instrument:
Analyst: DMM

Print Date: 09/07/2018 3:03:05PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1184853 [STS6000]
Blank Spike Lab ID: 1471491
Date Analyzed: 08/30/2018 16:24

Spike Duplicate ID: LCSD for HBN 1184853 [STS6000]
Spike Duplicate Lab ID: 1471492
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

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	21.5	86	25	22.5	90	(75-125)	4.50	(< 5)

Batch Information

Analytical Batch: **STS6000**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **DMM**

Print Date: 09/07/2018 3:03:07PM

Method Blank

Blank ID: MB for HBN 1785181 (WFI/2747) Matrix: Water (Surface, Eff., Ground)
Blank Lab ID: 1471393

QC for Samples:
1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

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: WFI2747
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 8/29/2018 6:22:16PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1184853 [WFI2747]
Blank Spike Lab ID: 1471383
Date Analyzed: 08/29/2018 18:20

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.44	98	(70-130)
Nitrite-N	2.5	2.50	100	(90-110)
Total Nitrate/Nitrite-N	5	4.94	99	(90-110)

Batch Information

Analytical Batch: **WFI2747**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AYC**

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Matrix Spike Summary

Original Sample ID: 1184853005
MS Sample ID: 1471381 MS
MSD Sample ID: 1471382 MSD

Analysis Date: 08/29/2018 18:36
Analysis Date: 08/29/2018 18:38
Analysis Date: 08/29/2018 18:39
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

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	2.45	98	70-130	8.60	(< 25)
Nitrite-N	0.0500U	2.50	2.38	95	2.50	2.38	95	90-110	0.13	(< 25)

Batch Information

Analytical Batch: WFI2747
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 8/29/2018 6:38:01PM

Print Date: 09/07/2018 3:03:10PM

Method Blank

Blank ID: MB for HBN 1785241 [WXX/12510]
Blank Lab ID: 1471675

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

Results by **SM21 4500-N D**

Parameter	Results	LOQ/CL	DL	Units
Total Kjeldahl Nitrogen	0.430J	1.00	0.310	mg/L

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 8/30/2018 6:17:50PM

Prep Batch: WXX12510
Prep Method: METHOD
Prep Date/Time: 8/30/2018 10:01:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1184853 [WXX12510]
Blank Spike Lab ID: 1471676
Date Analyzed: 08/30/2018 18:19

Spike Duplicate ID: LCSD for HBN 1184853 [WXX12510]
Spike Duplicate Lab ID: 1471677
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

Results by **SM21 4500-N D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	4	3.79	95	4	3.83	96	(75-125)	0.94	(< 25)

Batch Information

Analytical Batch: **WDA4387**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12510**
Prep Method: **METHOD**
Prep Date/Time: **08/30/2018 10:01**
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: 1184853001
MS Sample ID: 1471678 MS
MSD Sample ID: 1471679 MSD

Analysis Date: 08/30/2018 18:21
Analysis Date: 08/30/2018 18:23
Analysis Date: 08/30/2018 18:24
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

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	0.738J	4.00	4.18	86	4.00	4.57	96	75-125	9.00	(< 25)

Batch Information

Analytical Batch: WDA4387
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 8/30/2018 6:23:07PM

Prep Batch: WXX12510
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 8/30/2018 10:01:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/07/2018 3:03:14PM

Method Blank

Blank ID: MB for HBN 1785268 [WXX/12513]
Blank Lab ID: 1471851

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0311J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4388
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 8/31/2018 11:43:23AM

Prep Batch: WXX12513
Prep Method: METHOD
Prep Date/Time: 8/31/2018 11:00:00AM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Print Date: 09/07/2018 3:03:15PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1184853 [WXX12513]
Blank Spike Lab ID: 1471852
Date Analyzed: 08/31/2018 11:45

Spike Duplicate ID: LCSD for HBN 1184853 [WXX12513]
Spike Duplicate Lab ID: 1471853
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

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	0.946	95	1	0.998	100	(75-125)	5.30	(< 25)

Batch Information

Analytical Batch: **WDA4388**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12513**
Prep Method: **METHOD**
Prep Date/Time: **08/31/2018 11:00**
Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

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Matrix Spike Summary

Original Sample ID: 1184853001
MS Sample ID: 1471854 MS
MSD Sample ID: 1471855 MSD

Analysis Date: 08/31/2018 11:48
Analysis Date: 08/31/2018 11:50
Analysis Date: 08/31/2018 11:51
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184853001, 1184853002, 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

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	0.115	1.00	.903	79	1.00	0.695	58	*	75-125	26.10	* (< 25)

Batch Information

Analytical Batch: WDA4388
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 8/31/2018 11:50:06AM

Prep Batch: WXX12513
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 8/31/2018 11:00:00AM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 09/07/2018 3:03:17PM

Method Blank

Blank ID: MB for HBN 1785478 [WXX/12521]
Blank Lab ID: 1472799

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

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: WDA4392
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/5/2018 11:02:17AM

Prep Batch: WXX12521
Prep Method: SM21 4500P-B,E
Prep Date/Time: 9/4/2018 1:34:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/07/2018 3:03:18PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1184853 [WXX12521]
Blank Spike Lab ID: 1472800
Date Analyzed: 09/05/2018 11:03

Spike Duplicate ID: LCSD for HBN 1184853 [WXX12521]
Spike Duplicate Lab ID: 1472801
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

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	0.201	101	0.2	0.198	99	(75-125)	1.50	(< 25)

Batch Information

Analytical Batch: **WDA4392**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12521**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **09/04/2018 13:34**
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: 1184812002
MS Sample ID: 1472802 MS
MSD Sample ID: 1472803 MSD

Analysis Date: 09/05/2018 11:06
Analysis Date: 09/05/2018 11:07
Analysis Date: 09/05/2018 11:08
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184853003, 1184853004, 1184853005, 1184853006, 1184853007, 1184853008, 1184853009, 1184853010

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	0.0259	0.200	.229	102	0.200	0.229	102	75-125	0.09	(< 25)

Batch Information

Analytical Batch: WDA4392
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/5/2018 11:07:12AM

Prep Batch: WXX12521
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 9/4/2018 1:34:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

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Method Blank

Blank ID: MB for HBN 1785619 [WXX/12530]
Blank Lab ID: 1473430

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1184853001, 1184853002

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: WDA4394
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/7/2018 11:21:16AM

Prep Batch: WXX12530
Prep Method: SM21 4500P-B,E
Prep Date/Time: 9/6/2018 5:00:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1184853 [WXX12530]
Blank Spike Lab ID: 1473431
Date Analyzed: 09/07/2018 11:22

Spike Duplicate ID: LCSD for HBN 1184853 [WXX12530]
Spike Duplicate Lab ID: 1473432
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184853001, 1184853002

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	0.198	99	0.2	0.205	103	(75-125)	3.70	(< 25)

Batch Information

Analytical Batch: **WDA4394**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12530**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **09/06/2018 17:00**
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: 1184853001
MS Sample ID: 1473433 MS
MSD Sample ID: 1473434 MSD

Analysis Date: 09/07/2018 11:24
Analysis Date: 09/07/2018 11:25
Analysis Date: 09/07/2018 11:26
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1184853001, 1184853002

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	0.684	2.00	2.8	106	2.00	2.77	104	75-125	1.20	(< 25)

Batch Information

Analytical Batch: WDA4394
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/7/2018 11:25:08AM

Prep Batch: WXX12530
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 9/6/2018 5:00:00PM
Prep Initial Wt./Vol.: 2.50mL
Prep Extract Vol: 25.00mL

Print Date: 09/07/2018 3:03:23PM

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KET **CHAIN OF CUSTODY RECORD**

1184853

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

Section 1

CLIENT: Stantec	
CONTACT: Jake Alward	PHONE NO: 343-5202
PROJECT NAME: Wasilla WWTP	PROJECT/ PWSID/ PERMIT#:
REPORTS TO:	E-MAIL: jake.alward@stantec.com
INVOICE TO:	QUOTE #:
	P.O. #: 204700415

Section 2 / Section 3

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Type C = COMP G = GRAB MI = Multi Incremental Soils	BOD (Preservative: l)	TSS (Preservative: l)	Nitrate/Nitrite (Preservative: l)	TKN/Ammonia/TP (Preservative: H_2SO_4)	FC (Preservative: Na_2SO_4)	TC (Quant) (Na_2SO_4)				REMARKS/ LOC ID
1 A-F	[redacted] SW18	8/29/18	1225	water	6	G	l	l	l	l	l	l				
2 A-F	[redacted] DUP1	↓	1225	↓	↓	↓	l	l	l	l	l	l				
3 A-F	[redacted] Shaw	↓	1301	↓	↓	↓	l	l	l	l	l	l				
4 A-F	SW11	↓	930	↓	↓	↓	l	l	l	l	l	l				
5 A-F	SW12	↓	950	↓	↓	↓	l	l	l	l	l	l				
6 A-F	SW13	↓	1012	↓	↓	↓	l	l	l	l	l	l				
7 A-F	SW14	↓	1113	↓	↓	↓	l	l	l	l	l	l				
8 A-F	SW15	↓	1052	↓	↓	↓	l	l	l	l	l	l				
9 A-F	SW16	↓	1032	↓	↓	↓	l	l	l	l	l	l				
10 A-F	SW17	↓	1200	↓	↓	↓	l	l	l	l	l	l				

Section 5

Relinquished By	Date	Time	Received By
Relinquished By: (1) [signature]	8/29/18	1655	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	8/29/18	16:55	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) HP

(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

Cooler 2: 2.3 D45
Cooler 1: 3.4 D36

F083-Kit_Request_and_COC_Templates-Blank
Revised 2013-03-24

e-Sample Receipt Form

SGS Workorder #: **1184853**

1 1 8 4 8 5 3

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	hand delivered
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 @ 3.4 °C Therm. ID: D36
	yes	Cooler ID: 2 @ 2.3 °C Therm. ID: D45
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
If >6°C, were samples collected <8 hours ago?	n/a	
If <0°C, were sample containers ice free?	n/a	
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
1184853001-A	Na2S2O3 for Chlorine Redu	OK
1184853001-B	Na2S2O3 for Chlorine Redu	OK
1184853001-C	H2SO4 to pH < 2	OK
1184853001-D	No Preservative Required	OK
1184853001-E	No Preservative Required	OK
1184853001-F	No Preservative Required	OK
1184853002-A	Na2S2O3 for Chlorine Redu	OK
1184853002-B	Na2S2O3 for Chlorine Redu	OK
1184853002-C	H2SO4 to pH < 2	OK
1184853002-D	No Preservative Required	OK
1184853002-E	No Preservative Required	OK
1184853002-F	No Preservative Required	OK
1184853003-A	Na2S2O3 for Chlorine Redu	OK
1184853003-B	Na2S2O3 for Chlorine Redu	OK
1184853003-C	H2SO4 to pH < 2	OK
1184853003-D	No Preservative Required	OK
1184853003-E	No Preservative Required	OK
1184853003-F	No Preservative Required	OK
1184853004-A	Na2S2O3 for Chlorine Redu	OK
1184853004-B	Na2S2O3 for Chlorine Redu	OK
1184853004-C	H2SO4 to pH < 2	OK
1184853004-D	No Preservative Required	OK
1184853004-E	No Preservative Required	OK
1184853004-F	No Preservative Required	OK
1184853005-A	Na2S2O3 for Chlorine Redu	OK
1184853005-B	Na2S2O3 for Chlorine Redu	OK
1184853005-C	H2SO4 to pH < 2	OK
1184853005-D	No Preservative Required	OK
1184853005-E	No Preservative Required	OK
1184853005-F	No Preservative Required	OK
1184853006-A	Na2S2O3 for Chlorine Redu	OK
1184853006-B	Na2S2O3 for Chlorine Redu	OK
1184853006-C	H2SO4 to pH < 2	OK
1184853006-D	No Preservative Required	OK
1184853006-E	No Preservative Required	OK
1184853006-F	No Preservative Required	OK
1184853007-A	Na2S2O3 for Chlorine Redu	OK
1184853007-B	Na2S2O3 for Chlorine Redu	OK
1184853007-C	H2SO4 to pH < 2	OK
1184853007-D	No Preservative Required	OK
1184853007-E	No Preservative Required	OK
1184853007-F	No Preservative Required	OK
1184853008-A	Na2S2O3 for Chlorine Redu	OK
1184853008-B	Na2S2O3 for Chlorine Redu	OK
1184853008-C	H2SO4 to pH < 2	OK
1184853008-D	No Preservative Required	OK
1184853008-E	No Preservative Required	OK
1184853008-F	No Preservative Required	OK
1184853009-A	Na2S2O3 for Chlorine Redu	OK
1184853009-B	Na2S2O3 for Chlorine Redu	OK
1184853009-C	H2SO4 to pH < 2	OK
1184853009-D	No Preservative Required	OK
1184853009-E	No Preservative Required	OK
1184853009-F	No Preservative Required	OK
1184853010-A	Na2S2O3 for Chlorine Redu	OK
1184853010-B	Na2S2O3 for Chlorine Redu	OK
1184853010-C	H2SO4 to pH < 2	OK
1184853010-D	No Preservative Required	OK
1184853010-E	No Preservative Required	OK
1184853010-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.