Laboratory Report of Analysis

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

Report Number: **1186663**

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.

SGS North America Inc.
Environmental Services – Alaska Division
Project Manager

Justin Nelson
2018.12.14
16:39:25 -09'00'

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

Print Date: 12/13/2018 12:25:12PM

Results via Engage

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1186663**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

1186650001MS (1490016) MS

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

1186650001MSD (1490017) MSD

300.0 - Anions - MSD recoveries for Chloride and Sulfate are outside of QC criteria. Refer to LCS for accuracy requirements.

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

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

Laboratory Qualifiers

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

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

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry (Provisionally Certified as of 12/06/2018 for Uranium by EPA200.8 and TDS by SM 2540C) & 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
SW5	1186663001	11/28/2018	11/28/2018	Water (Surface, Eff., Ground)
SW17	1186663002	11/28/2018	11/28/2018	Water (Surface, Eff., Ground)
SW18	1186663003	11/28/2018	11/28/2018	Water (Surface, Eff., Ground)
DUP1	1186663004	11/28/2018	11/28/2018	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)
EPA 300.0	Ion Chromatographic Analysis
SM21 4500-N D	TKN by Phenate (W)
SM21 9223B	Total Coliform P/A Quant Tray
SM21 4500P-B,E	Total Phosphorus (W)
SM21 2540D	Total Suspended Solids SM20 2540D

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Detectable Results Summary

Client Sample ID: **SW5**
Lab Sample ID: 1186663001

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	4.89	mg/L
	Fecal Coliform	1.0	col/100mL
	Total Coliform	179	MPN/100mL
Waters Department	Ammonia-N	0.337	mg/L
	Total Kjeldahl Nitrogen	0.765J	mg/L
	Total Phosphorus	0.0529	mg/L
	Total Suspended Solids	33.8	mg/L

Client Sample ID: **SW17**
Lab Sample ID: 1186663002

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	22	MPN/100mL
	Fecal Coliform	10	col/100mL
	Total Coliform	140	MPN/100mL
Waters Department	Ammonia-N	0.180	mg/L
	Nitrate-N	3.38	mg/L
	Total Kjeldahl Nitrogen	0.382J	mg/L
	Total Nitrate/Nitrite-N	3.41	mg/L
	Total Phosphorus	0.123	mg/L
	Total Suspended Solids	1.20	mg/L

Client Sample ID: **SW18**
Lab Sample ID: 1186663003

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.43	mg/L
	E. Coli	10	MPN/100mL
	Total Coliform	488	MPN/100mL
Waters Department	Ammonia-N	0.179	mg/L
	Nitrate-N	7.82	mg/L
	Total Kjeldahl Nitrogen	0.407J	mg/L
	Total Nitrate/Nitrite-N	7.85	mg/L
	Total Phosphorus	0.559	mg/L
	Total Suspended Solids	0.816J	mg/L

Client Sample ID: **DUP1**
Lab Sample ID: 1186663004

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	11	MPN/100mL
	Fecal Coliform	2.0	col/100mL
	Total Coliform	649	MPN/100mL
Waters Department	Ammonia-N	0.164	mg/L
	Nitrate-N	8.04	mg/L
	Total Kjeldahl Nitrogen	0.430J	mg/L
	Total Nitrate/Nitrite-N	8.07	mg/L
	Total Phosphorus	0.556	mg/L

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Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1186663001
Lab Project ID: 1186663

Collection Date: 11/28/18 11:30
Received Date: 11/28/18 16:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	4.89		2.00	2.00	mg/L	1		11/29/18 15:39

Batch Information

Analytical Batch: BOD6190
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/29/18 15:39
Container ID: 1186663001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.0		1.00	1.00	col/100mL	1		11/28/18 18:35

Batch Information

Analytical Batch: BTF17031
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/28/18 18:35
Container ID: 1186663001-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		11/28/18 19:16
Total Coliform	179		1	1	MPN/100m	1		11/28/18 19:16

Batch Information

Analytical Batch: BTF17035
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/28/18 19:16
Container ID: 1186663001-F

Print Date: 12/13/2018 12:25:20PM

J flagging is activated

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1186663001
Lab Project ID: 1186663

Collection Date: 11/28/18 11:30
Received Date: 11/28/18 16:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/29/18 15:05
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/29/18 15:05
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/29/18 15:05

Batch Information

Analytical Batch: WIC5852
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/29/18 15:05
Container ID: 1186663001-C

Prep Batch: WXX12647
Prep Method: METHOD
Prep Date/Time: 11/29/18 11:40
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	33.8		2.00	0.620	mg/L	1		12/03/18 14:01

Batch Information

Analytical Batch: STS6102
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 12/03/18 14:01
Container ID: 1186663001-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.765	J	1.00	0.310	mg/L	1		12/05/18 11:35

Batch Information

Analytical Batch: WDA4467
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 12/05/18 11:35
Container ID: 1186663001-D

Prep Batch: WXX12649
Prep Method: METHOD
Prep Date/Time: 12/04/18 11:25
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	0.337		0.100	0.0310	mg/L	1		12/04/18 16:24

Print Date: 12/13/2018 12:25:20PM

J flagging is activated

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1186663001
Lab Project ID: 1186663

Collection Date: 11/28/18 11:30
Received Date: 11/28/18 16:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4466
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 12/04/18 16:24
Container ID: 1186663001-D

Prep Batch: WXX12648
Prep Method: METHOD
Prep Date/Time: 12/04/18 15:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0529		0.0200	0.00500	mg/L	1		12/10/18 15:16

Batch Information

Analytical Batch: WDA4468
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 12/10/18 15:16
Container ID: 1186663001-D

Prep Batch: WXX12651
Prep Method: SM21 4500P-B,E
Prep Date/Time: 12/10/18 14:12
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 12/13/2018 12:25:20PM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1186663002
Lab Project ID: 1186663

Collection Date: 11/28/18 14:00
Received Date: 11/28/18 16:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/29/18 15:39

Batch Information

Analytical Batch: BOD6190
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/29/18 15:39
Container ID: 1186663002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	10		1.00	1.00	col/100mL	1		11/28/18 18:35

Batch Information

Analytical Batch: BTF17031
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/28/18 18:35
Container ID: 1186663002-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	22		1	1	MPN/100m	1		11/28/18 19:16
Total Coliform	140		1	1	MPN/100m	1		11/28/18 19:16

Batch Information

Analytical Batch: BTF17035
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/28/18 19:16
Container ID: 1186663002-F

Print Date: 12/13/2018 12:25:20PM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1186663002
Lab Project ID: 1186663

Collection Date: 11/28/18 14:00
Received Date: 11/28/18 16:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	3.38		0.200	0.0500	mg/L	1		11/29/18 15:24
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/29/18 15:24
Total Nitrate/Nitrite-N	3.41		0.200	0.0500	mg/L	1		11/29/18 15:24

Batch Information

Analytical Batch: WIC5852
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/29/18 15:24
Container ID: 1186663002-C

Prep Batch: WXX12647
Prep Method: METHOD
Prep Date/Time: 11/29/18 11:40
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	1.20		1.00	0.310	mg/L	1		12/03/18 14:01

Batch Information

Analytical Batch: STS6102
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 12/03/18 14:01
Container ID: 1186663002-B

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		12/05/18 11:37

Batch Information

Analytical Batch: WDA4467
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 12/05/18 11:37
Container ID: 1186663002-D

Prep Batch: WXX12649
Prep Method: METHOD
Prep Date/Time: 12/04/18 11:25
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.180		0.100	0.0310	mg/L	1		12/04/18 16:26

Print Date: 12/13/2018 12:25:20PM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1186663002
Lab Project ID: 1186663

Collection Date: 11/28/18 14:00
Received Date: 11/28/18 16:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4466
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 12/04/18 16:26
Container ID: 1186663002-D

Prep Batch: WXX12648
Prep Method: METHOD
Prep Date/Time: 12/04/18 15:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.123		0.0200	0.00500	mg/L	1		12/10/18 13:48

Batch Information

Analytical Batch: WDA4468
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 12/10/18 13:48
Container ID: 1186663002-D

Prep Batch: WXX12651
Prep Method: SM21 4500P-B,E
Prep Date/Time: 12/10/18 11:49
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 12/13/2018 12:25:20PM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1186663003
Lab Project ID: 1186663

Collection Date: 11/28/18 14:43
Received Date: 11/28/18 16:39
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	2.43		2.00	2.00	mg/L	1		11/29/18 15:39

Batch Information

Analytical Batch: BOD6190
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/29/18 15:39
Container ID: 1186663003-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		11/28/18 18:35

Batch Information

Analytical Batch: BTF17031
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/28/18 18:35
Container ID: 1186663003-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	10		1	1	MPN/100m	1		11/28/18 19:16
Total Coliform	488		1	1	MPN/100m	1		11/28/18 19:16

Batch Information

Analytical Batch: BTF17035
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/28/18 19:16
Container ID: 1186663003-F

Print Date: 12/13/2018 12:25:20PM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1186663003
Lab Project ID: 1186663

Collection Date: 11/28/18 14:43
Received Date: 11/28/18 16:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	7.82		0.200	0.0500	mg/L	1		11/29/18 15:43
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		11/29/18 15:43
Total Nitrate/Nitrite-N	7.85		0.200	0.0500	mg/L	1		11/29/18 15:43

Batch Information

Analytical Batch: WIC5852
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/29/18 15:43
Container ID: 1186663003-C

Prep Batch: WXX12647
Prep Method: METHOD
Prep Date/Time: 11/29/18 11:40
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	0.816 J		1.02	0.316	mg/L	1		12/03/18 14:01

Batch Information

Analytical Batch: STS6102
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 12/03/18 14:01
Container ID: 1186663003-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.407 J		1.00	0.310	mg/L	1		12/05/18 11:38

Batch Information

Analytical Batch: WDA4467
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 12/05/18 11:38
Container ID: 1186663003-D

Prep Batch: WXX12649
Prep Method: METHOD
Prep Date/Time: 12/04/18 11:25
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	0.179		0.100	0.0310	mg/L	1		12/04/18 16:27

Print Date: 12/13/2018 12:25:20PM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1186663003
Lab Project ID: 1186663

Collection Date: 11/28/18 14:43
Received Date: 11/28/18 16:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4466
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 12/04/18 16:27
Container ID: 1186663003-D

Prep Batch: WXX12648
Prep Method: METHOD
Prep Date/Time: 12/04/18 15:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.559		0.200	0.0500	mg/L	1		12/10/18 15:14

Batch Information

Analytical Batch: WDA4468
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 12/10/18 15:14
Container ID: 1186663003-D

Prep Batch: WXX12651
Prep Method: SM21 4500P-B,E
Prep Date/Time: 12/10/18 14:12
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Print Date: 12/13/2018 12:25:20PM

J flagging is activated

Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1186663004
Lab Project ID: 1186663

Collection Date: 11/28/18 14:43
Received Date: 11/28/18 16:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/29/18 15:39

Batch Information

Analytical Batch: BOD6190
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/29/18 15:39
Container ID: 1186663004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	2.0		1.00	1.00	col/100mL	1		11/28/18 18:35

Batch Information

Analytical Batch: BTF17031
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/28/18 18:35
Container ID: 1186663004-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	11		1	1	MPN/100m	1		11/28/18 19:16
Total Coliform	649		1	1	MPN/100m	1		11/28/18 19:16

Batch Information

Analytical Batch: BTF17035
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/28/18 19:16
Container ID: 1186663004-F

Print Date: 12/13/2018 12:25:20PM

J flagging is activated

Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1186663004
Lab Project ID: 1186663

Collection Date: 11/28/18 14:43
Received Date: 11/28/18 16:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	8.04		0.200	0.0500	mg/L	1		11/29/18 16:40
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		11/29/18 16:40
Total Nitrate/Nitrite-N	8.07		0.200	0.0500	mg/L	1		11/29/18 16:40

Batch Information

Analytical Batch: WIC5852
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/29/18 16:40
Container ID: 1186663004-C

Prep Batch: WXX12647
Prep Method: METHOD
Prep Date/Time: 11/29/18 11:40
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	0.505 U		1.01	0.313	mg/L	1		12/03/18 14:01

Batch Information

Analytical Batch: STS6102
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 12/03/18 14:01
Container ID: 1186663004-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.430 J		1.00	0.310	mg/L	1		12/05/18 11:42

Batch Information

Analytical Batch: WDA4467
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 12/05/18 11:42
Container ID: 1186663004-D

Prep Batch: WXX12649
Prep Method: METHOD
Prep Date/Time: 12/04/18 11:25
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	0.164		0.100	0.0310	mg/L	1		12/04/18 16:29

Print Date: 12/13/2018 12:25:20PM

J flagging is activated

Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1186663004
Lab Project ID: 1186663

Collection Date: 11/28/18 14:43
Received Date: 11/28/18 16:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4466
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 12/04/18 16:29
Container ID: 1186663004-D

Prep Batch: WXX12648
Prep Method: METHOD
Prep Date/Time: 12/04/18 15:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.556		0.200	0.0500	mg/L	1		12/10/18 15:15

Batch Information

Analytical Batch: WDA4468
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 12/10/18 15:15
Container ID: 1186663004-D

Prep Batch: WXX12651
Prep Method: SM21 4500P-B,E
Prep Date/Time: 12/10/18 14:12
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1789425 [BOD/6190]
Blank Lab ID: 1489927

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1186663001, 1186663002, 1186663003, 1186663004

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: BOD6190
Analytical Method: SM21 5210B
Instrument:
Analyst: A.L
Analytical Date/Time: 11/29/2018 3:39:36PM

Print Date: 12/13/2018 12:25:23PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1186663 [BOD6190]
Blank Spike Lab ID: 1489928
Date Analyzed: 11/29/2018 15:39

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1186663001, 1186663002, 1186663003, 1186663004

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	184	93	(84.6-115.4

Batch Information

Analytical Batch: **BOD6190**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **A.L**

Print Date: 12/13/2018 12:25:25PM

Method Blank

Blank ID: MB for HBN 1789391 [BTF/17031]
Blank Lab ID: 1489997

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1186663001, 1186663002

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF17031
Analytical Method: SM21 9222D
Instrument:
Analyst: A.L
Analytical Date/Time: 11/28/2018 6:35:44PM

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Method Blank

Blank ID: MB for HBN 1789391 [BTF/17031]
Blank Lab ID: 1489998

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1186663001, 1186663002, 1186663003, 1186663004

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF17031
Analytical Method: SM21 9222D
Instrument:
Analyst: A.L
Analytical Date/Time: 11/28/2018 6:35:44PM

Print Date: 12/13/2018 12:25:26PM

Method Blank

Blank ID: MB for HBN 1789395 [BTF/17035]
Blank Lab ID: 1489790

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1186663001, 1186663002, 1186663003, 1186663004

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: BTF17035
Analytical Method: SM21 9223B
Instrument:
Analyst: A.L
Analytical Date/Time: 11/28/2018 7:16:07PM

Method Blank

Blank ID: MB for HBN 1789441 [STS/6102]
Blank Lab ID: 1489981

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1186663001, 1186663002, 1186663003, 1186663004

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: STS6102
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW
Analytical Date/Time: 12/3/2018 2:01:35PM

Duplicate Sample Summary

Original Sample ID: 1186676001
Duplicate Sample ID: 1489984
QC for Samples:
1186663001, 1186663002, 1186663003, 1186663004

Analysis Date: 12/03/2018 14:01
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	40.5	40.0	mg/L	1.20	(< 5)

Batch Information

Analytical Batch: STS6102
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 12/13/2018 12:25:31PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1186663 [STS6102]
Blank Spike Lab ID: 1489982
Date Analyzed: 12/03/2018 14:01

Spike Duplicate ID: LCSD for HBN 1186663 [STS6102]
Spike Duplicate Lab ID: 1489983
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1186663001, 1186663002, 1186663003, 1186663004

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	25	25.0	100	25	24.6	98	(75-125)	1.60	(< 5)

Batch Information

Analytical Batch: **STS6102**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **EWW**

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Method Blank

Blank ID: MB for HBN 1789448 [WXX/12647]
Blank Lab ID: 1490013

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1186663001, 1186663002, 1186663003, 1186663004

Results by **EPA 300.0**

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

Batch Information

Analytical Batch: WIC5852
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 11/29/2018 12:52:33PM

Prep Batch: WXX12647
Prep Method: METHOD
Prep Date/Time: 11/29/2018 11:40:00AM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1186663 [WXX12647]
Blank Spike Lab ID: 1490014
Date Analyzed: 11/29/2018 14:46

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1186663001, 1186663002, 1186663003, 1186663004

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	4.78	96	(90-110)
Nitrite-N	5	4.97	99	(90-110)
Total Nitrate/Nitrite-N	10	9.75	98	(90-110)

Batch Information

Analytical Batch: **WIC5852**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX12647**
Prep Method: **METHOD**
Prep Date/Time: **11/29/2018 11:40**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

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Method Blank

Blank ID: MB for HBN 1789495 [WXX/12648]
Blank Lab ID: 1490222

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1186663001, 1186663002, 1186663003, 1186663004

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: WDA4466
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 12/4/2018 4:19:35PM

Prep Batch: WXX12648
Prep Method: METHOD
Prep Date/Time: 12/4/2018 3:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1186663 [WXX12648]
Blank Spike Lab ID: 1490223
Date Analyzed: 12/04/2018 16:21

Spike Duplicate ID: LCSD for HBN 1186663 [WXX12648]
Spike Duplicate Lab ID: 1490224
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1186663001, 1186663002, 1186663003, 1186663004

Results by **SM21 4500-NH3 G**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	1	1.06	106	1	1.25	125	(75-125)	16.60	(< 25)

Batch Information

Analytical Batch: **WDA4466**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX12648**
Prep Method: **METHOD**
Prep Date/Time: **12/04/2018 15:00**
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: 1186720001
MS Sample ID: 1490225 MS
MSD Sample ID: 1490226 MSD

Analysis Date: 12/04/2018 16:34
Analysis Date: 12/04/2018 16:39
Analysis Date: 12/04/2018 16:41
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1186663001, 1186663002, 1186663003, 1186663004

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.100U	1.00	1.12	112	1.00	1.04	104	75-125	7.80	(< 25)

Batch Information

Analytical Batch: WDA4466
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 12/4/2018 4:39:36PM

Prep Batch: WXX12648
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 12/4/2018 3:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 12/13/2018 12:25:39PM

Method Blank

Blank ID: MB for HBN 1789504 [WXX/12649]
Blank Lab ID: 1490267

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1186663001, 1186663002, 1186663003, 1186663004

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: WDA4467
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 12/5/2018 11:26:38AM

Prep Batch: WXX12649
Prep Method: METHOD
Prep Date/Time: 12/4/2018 11:25:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1186663 [WXX12649]
Blank Spike Lab ID: 1490268
Date Analyzed: 12/05/2018 11:27

Spike Duplicate ID: LCSD for HBN 1186663 [WXX12649]
Spike Duplicate Lab ID: 1490269
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1186663001, 1186663002, 1186663003, 1186663004

Results by **SM21 4500-N D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	4	4.04	101	4	3.97	99	(75-125)	1.80	(< 25)

Batch Information

Analytical Batch: **WDA4467**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX12649**
Prep Method: **METHOD**
Prep Date/Time: **12/04/2018 11:25**
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: 1188801012
MS Sample ID: 1490270 MS
MSD Sample ID: 1490271 MSD

Analysis Date: 12/05/2018 11:30
Analysis Date: 12/05/2018 11:31
Analysis Date: 12/05/2018 11:33
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1186663001, 1186663002, 1186663003, 1186663004

Results by **SM21 4500-N D**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	1.00U	4.00	3.78	95	4.00	3.54	88	75-125	6.70	(< 25)

Batch Information

Analytical Batch: WDA4467
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 12/5/2018 11:31:53AM

Prep Batch: WXX12649
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 12/4/2018 11:25:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 12/13/2018 12:25:42PM

Method Blank

Blank ID: MB for HBN 1789657 [WXX/12651]
Blank Lab ID: 1490888

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1186663001, 1186663002, 1186663003, 1186663004

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: WDA4468
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 12/10/2018 1:45:15PM

Prep Batch: WXX12651
Prep Method: SM21 4500P-B,E
Prep Date/Time: 12/10/2018 11:49:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 12/13/2018 12:25:43PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1186663 [WXX12651]
Blank Spike Lab ID: 1490889
Date Analyzed: 12/10/2018 13:46

Spike Duplicate ID: LCSD for HBN 1186663 [WXX12651]
Spike Duplicate Lab ID: 1490890
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1186663001, 1186663002, 1186663003, 1186663004

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	0.202	101	0.2	0.219	110	(75-125)	8.00	(< 25)

Batch Information

Analytical Batch: **WDA4468**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12651**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **12/10/2018 11:49**
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: 1186663002
MS Sample ID: 1490891 MS
MSD Sample ID: 1490892 MSD

Analysis Date: 12/10/2018 13:48
Analysis Date: 12/10/2018 13:49
Analysis Date: 12/10/2018 13:50
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1186663001, 1186663002, 1186663003, 1186663004

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	0.123	0.200	.327	102	0.200	0.324	101	75-125	1.00	(< 25)

Batch Information

Analytical Batch: WDA4468
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 12/10/2018 1:49:08PM

Prep Batch: WXX12651
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 12/10/2018 11:49:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

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CHAIN OF CUSTODY RECORD

1186663

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

Page 1 of 1

Section 1

CLIENT: Stantec
CONTACT: Jake Alward   PHONE NO:
PROJECT NAME: Wasilla WWTP   PROJECT/PWSID/PERMIT#: [scribble]
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	TSS	Nitrate/Nitrite	Ammonia/TKN/TP	FC	TC (Quant) (X/10x)				REMARKS/ LOC ID
Preservative							1	1	1	H2SO4	Na2S2O3	Na2S2O3				
① A-F	SW5	11/28/18	1130	water	6	G	1	1	1	1	1	1				
② A-F	SW17	↓	14:00	↓	↓	↓	1	1	1	1	1	1				
③ A-F	SW18	↓	14:43	↓	↓	↓	1	1	1	1	1	1				
④ A-F	DUP1	↓	14:43	↓	↓	↓	1	1	1	1	1	1				

Section 5

Relinquished By	Date	Time	Received By
Relinquished By: (1) [signature]	11/28/18	16:39	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	11/28/18	14:39	Received For Laboratory By: [signature] JKV

Section 4 DOD Project? Yes No
Cooler ID: ____
Data Deliverable Requirements:
Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 2.6°C D53
or Ambient [ ]
(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)
INTACT BROKEN **ABSENT** (circled) HD
(See attached Sample Receipt Form)

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

http://www.sgs.com/terms-and-conditions

F083-Kit_Request_and_COC_Templates-Blank
Revised 2013-03-24

e-Sample Receipt Form

SGS Workorder #: **1186663**

1 1 8 6 6 6 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	Absent
COC accompanied samples?	Yes	
Yes **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID: 1 @ 2.6 °C Therm. ID: D53
		Cooler ID: @ °C Therm. ID:
		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)? **Note: If times differ <1hr, record details & login per COC.	Yes	
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 2F container was received cracked--proceed with analysis per client.

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1186663001-A	No Preservative Required	OK			
1186663001-B	No Preservative Required	OK			
1186663001-C	No Preservative Required	OK			
1186663001-D	H2SO4 to pH < 2	OK			
1186663001-E	Na2S2O3 for Chlorine Redu	OK			
1186663001-F	Na2S2O3 for Chlorine Redu	OK			
1186663002-A	No Preservative Required	OK			
1186663002-B	No Preservative Required	OK			
1186663002-C	No Preservative Required	OK			
1186663002-D	H2SO4 to pH < 2	OK			
1186663002-E	Na2S2O3 for Chlorine Redu	OK			
1186663002-F	Na2S2O3 for Chlorine Redu	OK			
1186663003-A	No Preservative Required	OK			
1186663003-B	No Preservative Required	OK			
1186663003-C	No Preservative Required	OK			
1186663003-D	H2SO4 to pH < 2	OK			
1186663003-E	Na2S2O3 for Chlorine Redu	OK			
1186663003-F	Na2S2O3 for Chlorine Redu	OK			
1186663004-A	No Preservative Required	OK			
1186663004-B	No Preservative Required	OK			
1186663004-C	No Preservative Required	OK			
1186663004-D	H2SO4 to pH < 2	OK			
1186663004-E	Na2S2O3 for Chlorine Redu	OK			
1186663004-F	Na2S2O3 for Chlorine Redu	OK			

Container Condition Glossary

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

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