

10/16/2019

Washoe County Water ResourcesCSD
PO Box 11130
Reno, NV 89502
Attn: Ben Jesch

OrderID: 19091014

Dear: Ben Jesch

This is to transmit the attached analytical report. The analytical data and information contained therein was generated using specified or selected methods contained in references, such as Standard Methods for the Examination of Water and Wastewater, online edition, Methods for Determination of Organic Compounds in Drinking Water, EPA-600/4-79-020, and Test Methods for Evaluation of Solid Waste, Physical/Chemical Methods (SW846) Third Edition.

The samples were received by WETLAB-Western Environmental Testing Laboratory in good condition on 9/30/2019. Additional comments are located on page 2 of this report.

If you should have any questions or comments regarding this report, please do not hesitate to call.

Sincerely,



Andy Smith
QA Manager

SPARKS

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fax (775) 355-0817
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EPA LAB ID: NV00932

Western Environmental Testing Laboratory

Report Comments

Washoe County Water ResourcesCSD - 19091014

Specific Report Comments

None

Report Legend

- B -- Blank contamination; Analyte detected above the method reporting limit in an associated blank
- D -- Due to the sample matrix dilution was required in order to properly detect and report the analyte. The reporting limit has been adjusted accordingly.
- HT -- Sample analyzed beyond the accepted holding time
- J -- The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
- K -- The TPH Diesel Concentration reported here likely includes some heavier TPH Oil hydrocarbons reported in the TPH Diesel range as per EPA 8015.
- L -- The TPH Oil Concentration reported here likely includes some lighter TPH Diesel hydrocarbons reported in the TPH Oil range as per EPA 8015.
- M -- The matrix spike/matrix spike duplicate (MS/MSD) values for the analysis of this parameter were outside acceptance criteria due to probable matrix interference. The reported result should be considered an estimate.
- N -- There was insufficient sample available to perform a spike and/or duplicate on this analytical batch.
- NC -- Not calculated due to matrix interference
- QD -- The sample duplicate or matrix spike duplicate analysis demonstrated sample imprecision. The reported result should be considered an estimate.
- QL -- The result for the laboratory control sample (LCS) was outside WETLAB acceptance criteria and reanalysis was not possible. The reported data should be considered an estimate.
- S -- Surrogate recovery was outside of laboratory acceptance limits due to matrix interference. The associated blank and LCS surrogate recovery was within acceptance limits
- SC -- Spike recovery not calculated. Sample concentration >4X the spike amount; therefore, the spike could not be adequately recovered
- U -- The analyte was analyzed for, but was not detected above the level of the reported sample reporting/quantitation limit

General Lab Comments

Per method recommendation (section 4.4), Samples analyzed by methods EPA 300.0 and EPA 300.1 have been filtered prior to analysis.

The following is an interpretation of the results from EPA method 9223B:

A result of zero (0) indicates absence for both coliform and Escherichia coli meaning the water meets the microbiological requirements of the U.S. EPA Safe Drinking Water Act (SDWA). A result of one (1) for either test indicates presence and the water does not meet the SDWA requirements. Waters with positive tests should be disinfected by a certified water treatment operator and retested.

Per federal regulation the holding time for the following parameters in aqueous/water samples is 15 minutes: Residual Chlorine, pH, Dissolved Oxygen, Sulfite.

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Western Environmental Testing Laboratory

Analytical Report

Washoe County Water ResourcesCSD

Date Printed: 10/16/2019

PO Box 11130

OrderID: 19091014

Reno, NV 89502

Attn: Ben Jesch

Phone: (775) 954-4612 Fax: NoFax

PO\Project: IO 49300/Swan lake

Customer Sample ID: Compton

Collect Date/Time: 9/30/2019 09:30

WETLAB Sample ID: 19091014-001

Receive Date: 9/30/2019 10:50

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<u>General Chemistry</u>							
Ammonia, as Nitrogen	SM 4500 NH3 D	0.069	mg/L	1	0.050	10/3/2019	NV00925
Total Phosphorous as P	SM 4500-P E	0.87	mg/L	1	0.020	10/2/2019	NV00925
Total Suspended Solids (TSS)	SM 2540D	ND	mg/L	1	10	10/2/2019	NV00925
Biochemical Oxygen Demand	SM 5210B	ND	mg/L	1	2.0	9/30/2019	NV00925
Total Nitrogen	Calc.	1.6	mg/L	1	0.82	10/9/2019	NV00925
Total Dissolved Solids (TDS)	SM 2540C	760	mg/L	1	25	10/3/2019	NV00925
<u>Microbiological Analyses</u>							
Total Coliform (MPN)	SM 9223B (Quantitray)	920.8	MPN/100ml	1	1.0	9/30/2019	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	9.7	MPN/100ml	1	1.0	9/30/2019	NV00925
<u>Anions by Ion Chromatography</u>							
Chloride	EPA 300.0	150	mg/L	2	2.0	10/1/2019	NV00925
Nitrate Nitrogen	EPA 300.0	ND D	mg/L	2	0.30	10/1/2019	NV00925
Nitrite Nitrogen	EPA 300.0	ND D	mg/L	2	0.12	10/1/2019	NV00925
Sulfate	EPA 300.0	130	mg/L	2	3.0	10/1/2019	NV00925
<u>Flow Injection Analyses</u>							
Total Kjeldahl Nitrogen	EPA 351.2	1.6	mg/L	1	0.40	10/9/2019	NV00925
<u>Trace Metals by ICP-OES</u>							
Barium	EPA 200.7	0.034	mg/L	1	0.020	10/9/2019	NV00925
Boron	EPA 200.7	0.33	mg/L	1	0.10	10/9/2019	NV00925
Iron	EPA 200.7	1.0	mg/L	1	0.10	10/9/2019	NV00925
Manganese	EPA 200.7	0.087	mg/L	1	0.010	10/9/2019	NV00925
Nickel	EPA 200.7	ND	mg/L	1	0.030	10/9/2019	NV00925
<u>Trace Metals by ICP-MS</u>							
Arsenic	EPA 200.8	0.036	mg/L	1	0.0050	10/10/2019	NV00925
<u>Sample Preparation</u>							
Trace Metals Digestion	EPA 200.2	Complete		1		10/3/2019	NV00925

DF=Dilution Factor, RL=Reporting Limit, ND=Not Detected or <RL

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 EPA LAB ID: NV00932

Customer Sample ID: Pompe

Collect Date/Time: 9/30/2019 10:00

WETLAB Sample ID: 19091014-002

Receive Date: 9/30/2019 10:50

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
General Chemistry							
Ammonia, as Nitrogen	SM 4500 NH3 D	ND	mg/L	1	0.050	10/3/2019	NV00925
Total Phosphorous as P	SM 4500-P E	0.31	mg/L	1	0.020	10/2/2019	NV00925
Total Suspended Solids (TSS)	SM 2540D	24	mg/L	1	10	10/2/2019	NV00925
Biochemical Oxygen Demand	SM 5210B	2.2	mg/L	1	2.0	9/30/2019	NV00925
Total Nitrogen	Calc.	1.2	mg/L	1	0.82	10/9/2019	NV00925
Total Dissolved Solids (TDS)	SM 2540C	640	mg/L	1	25	10/3/2019	NV00925
Microbiological Analyses							
Total Coliform (MPN)	SM 9223B (Quantitray)	461.1	MPN/100ml	1	1.0	9/30/2019	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	15.6	MPN/100ml	1	1.0	9/30/2019	NV00925
Anions by Ion Chromatography							
Chloride	EPA 300.0	130	mg/L	2	2.0	10/1/2019	NV00925
Nitrate Nitrogen	EPA 300.0	ND	D mg/L	2	0.30	10/1/2019	NV00925
Nitrite Nitrogen	EPA 300.0	ND	D mg/L	2	0.12	10/1/2019	NV00925
Sulfate	EPA 300.0	110	mg/L	2	3.0	10/1/2019	NV00925
Flow Injection Analyses							
Total Kjeldahl Nitrogen	EPA 351.2	1.1	mg/L	1	0.40	10/9/2019	NV00925
Trace Metals by ICP-OES							
Barium	EPA 200.7	0.044	mg/L	1	0.020	10/9/2019	NV00925
Boron	EPA 200.7	0.30	mg/L	1	0.10	10/9/2019	NV00925
Iron	EPA 200.7	3.0	mg/L	1	0.10	10/9/2019	NV00925
Manganese	EPA 200.7	0.088	mg/L	1	0.010	10/9/2019	NV00925
Nickel	EPA 200.7	ND	mg/L	1	0.030	10/9/2019	NV00925
Trace Metals by ICP-MS							
Arsenic	EPA 200.8	0.032	mg/L	1	0.0050	10/10/2019	NV00925
Sample Preparation							
Trace Metals Digestion	EPA 200.2	Complete		1		10/3/2019	NV00925

Customer Sample ID: Jean

Collect Date/Time: 9/30/2019 09:45

WETLAB Sample ID: 19091014-003

Receive Date: 9/30/2019 10:50

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
General Chemistry							
Ammonia, as Nitrogen	SM 4500 NH3 D	ND	mg/L	1	0.050	10/3/2019	NV00925
Total Phosphorous as P	SM 4500-P E	0.43	M mg/L	1	0.020	10/2/2019	NV00925
Total Suspended Solids (TSS)	SM 2540D	120	mg/L	1	10	10/2/2019	NV00925
Biochemical Oxygen Demand	SM 5210B	4.8	mg/L	1	2.0	9/30/2019	NV00925
Total Nitrogen	Calc.	1.5	mg/L	1	0.82	10/9/2019	NV00925
Total Dissolved Solids (TDS)	SM 2540C	750	mg/L	1	25	10/3/2019	NV00925
Microbiological Analyses							
Total Coliform (MPN)	SM 9223B (Quantitray)	1632.8	MPN/100ml	2	2.0	9/30/2019	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	87.4	MPN/100ml	2	2.0	9/30/2019	NV00925
Anions by Ion Chromatography							
Chloride	EPA 300.0	130	mg/L	2	2.0	10/1/2019	NV00925

DF=Dilution Factor, RL=Reporting Limit, ND=Not Detected or <RL

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Customer Sample ID: Jean

Collect Date/Time: 9/30/2019 09:45

WETLAB Sample ID: 19091014-003

Receive Date: 9/30/2019 10:50

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
Nitrate Nitrogen	EPA 300.0	ND	D mg/L	2	0.30	10/1/2019	NV00925
Nitrite Nitrogen	EPA 300.0	ND	D mg/L	2	0.12	10/1/2019	NV00925
Sulfate	EPA 300.0	110	mg/L	2	3.0	10/1/2019	NV00925
Flow Injection Analyses							
Total Kjeldahl Nitrogen	EPA 351.2	1.4	mg/L	1	0.40	10/9/2019	NV00925
Trace Metals by ICP-OES							
Barium	EPA 200.7	0.072	mg/L	1	0.020	10/9/2019	NV00925
Boron	EPA 200.7	0.28	mg/L	1	0.10	10/9/2019	NV00925
Iron	EPA 200.7	7.3	mg/L	1	0.10	10/9/2019	NV00925
Manganese	EPA 200.7	0.27	mg/L	1	0.010	10/9/2019	NV00925
Nickel	EPA 200.7	ND	mg/L	1	0.030	10/9/2019	NV00925
Trace Metals by ICP-MS							
Arsenic	EPA 200.8	0.029	mg/L	1	0.0050	10/10/2019	NV00925
Sample Preparation							
Trace Metals Digestion	EPA 200.2	Complete		1		10/4/2019	NV00925

Customer Sample ID: White Lake

Collect Date/Time: 9/30/2019 10:15

WETLAB Sample ID: 19091014-004

Receive Date: 9/30/2019 10:50

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
General Chemistry							
Ammonia, as Nitrogen	SM 4500 NH3 D	ND	mg/L	1	0.050	10/3/2019	NV00925
Total Phosphorous as P	SM 4500-P E	1.4	mg/L	5	0.020	10/15/2019	NV00925
Total Suspended Solids (TSS)	SM 2540D	170	mg/L	1	10	10/2/2019	NV00925
Biochemical Oxygen Demand	SM 5210B	ND	mg/L	1	2.0	9/30/2019	NV00925
Total Nitrogen	Calc.	5.2	mg/L	1	1.4	10/9/2019	NV00925
Total Dissolved Solids (TDS)	SM 2540C	4700	mg/L	1	25	10/3/2019	NV00925
Microbiological Analyses							
Total Coliform (MPN)	SM 9223B (Quantitray)	1054.0	MPN/100ml	10	10.0	9/30/2019	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	52.0	MPN/100ml	10	10.0	9/30/2019	NV00925
Anions by Ion Chromatography							
Chloride	EPA 300.0	180	mg/L	5	5.0	10/1/2019	NV00925
Nitrate Nitrogen	EPA 300.0	2.3	mg/L	5	0.75	10/1/2019	NV00925
Nitrite Nitrogen	EPA 300.0	ND	D mg/L	5	0.30	10/1/2019	NV00925
Sulfate	EPA 300.0	69	mg/L	5	7.5	10/1/2019	NV00925
Flow Injection Analyses							
Total Kjeldahl Nitrogen	EPA 351.2	2.9	mg/L	1	0.40	10/9/2019	NV00925
Trace Metals by ICP-OES							
Barium	EPA 200.7	1.0	mg/L	2	0.040	10/9/2019	NV00925
Boron	EPA 200.7	1.1	mg/L	2	0.20	10/9/2019	NV00925
Iron	EPA 200.7	150	SC mg/L	20	2.0	10/10/2019	NV00925
Manganese	EPA 200.7	4.0	SC mg/L	2	0.020	10/9/2019	NV00925
Nickel	EPA 200.7	0.064	mg/L	2	0.060	10/9/2019	NV00925

DF=Dilution Factor, RL=Reporting Limit, ND=Not Detected or <RL

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Customer Sample ID: White Lake
 WETLAB Sample ID: 19091014-004

Collect Date/Time: 9/30/2019 10:15

Receive Date: 9/30/2019 10:50

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
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Trace Metals by ICP-MS

Arsenic	EPA 200.8	0.47 SC	mg/L	5	0.025	10/10/2019	NV00925
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Sample Preparation

Trace Metals Digestion	EPA 200.2	Complete		1		10/4/2019	NV00925
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Customer Sample ID: White Lake-Dup
 WETLAB Sample ID: 19091014-005

Collect Date/Time: 9/30/2019 10:15

Receive Date: 9/30/2019 10:50

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
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General Chemistry

Ammonia, as Nitrogen	SM 4500 NH3 D	0.051	mg/L	1	0.050	10/7/2019	NV00925
Total Phosphorous as P	SM 4500-P E	1.7	mg/L	5	0.10	10/2/2019	NV00925
Total Suspended Solids (TSS)	SM 2540D	130	mg/L	1	10	10/2/2019	NV00925
Biochemical Oxygen Demand	SM 5210B	ND	mg/L	1	2.0	9/30/2019	NV00925
Total Nitrogen	Calc.	5.5	mg/L	1	1.4	10/9/2019	NV00925
Total Dissolved Solids (TDS)	SM 2540C	5500	mg/L	1	25	10/3/2019	NV00925

Microbiological Analyses

Total Coliform (MPN)	SM 9223B (Quantitray)	813.0	MPN/100ml	10	10.0	9/30/2019	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	109.0	MPN/100ml	10	10.0	9/30/2019	NV00925

Anions by Ion Chromatography

Chloride	EPA 300.0	180	mg/L	5	5.0	10/1/2019	NV00925
Nitrate Nitrogen	EPA 300.0	2.4	mg/L	5	0.75	10/1/2019	NV00925
Nitrite Nitrogen	EPA 300.0	ND D	mg/L	5	0.30	10/1/2019	NV00925
Sulfate	EPA 300.0	70	mg/L	5	7.5	10/1/2019	NV00925

Flow Injection Analyses

Total Kjeldahl Nitrogen	EPA 351.2	3.1	mg/L	1	0.40	10/9/2019	NV00925
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Trace Metals by ICP-OES

Barium	EPA 200.7	1.2	mg/L	2	0.040	10/9/2019	NV00925
Boron	EPA 200.7	1.0	mg/L	2	0.20	10/9/2019	NV00925
Iron	EPA 200.7	160	mg/L	20	2.0	10/10/2019	NV00925
Manganese	EPA 200.7	4.7	mg/L	2	0.020	10/9/2019	NV00925
Nickel	EPA 200.7	0.074	mg/L	2	0.060	10/9/2019	NV00925

Trace Metals by ICP-MS

Arsenic	EPA 200.8	0.41	mg/L	5	0.025	10/10/2019	NV00925
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Sample Preparation

Trace Metals Digestion	EPA 200.2	Complete		1		10/4/2019	NV00925
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Customer Sample ID: Pompe-Dup
 WETLAB Sample ID: 19091014-006

Collect Date/Time: 9/30/2019 10:00

Receive Date: 9/30/2019 10:50

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
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General Chemistry

Ammonia, as Nitrogen	SM 4500 NH3 D	ND	mg/L	1	0.050	10/7/2019	NV00925
Total Phosphorous as P	SM 4500-P E	0.38	mg/L	1	0.20	10/2/2019	NV00925

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 fax (702) 622-2868
 EPA LAB ID: NV00932

Customer Sample ID: Pompe-Dup

Collect Date/Time: 9/30/2019 10:00

WETLAB Sample ID: 19091014-006

Receive Date: 9/30/2019 10:50

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
Total Suspended Solids (TSS)	SM 2540D	16	mg/L	1	10	10/2/2019	NV00925
Biochemical Oxygen Demand	SM 5210B	ND	mg/L	1	2.0	9/30/2019	NV00925
Total Nitrogen	Calc.	1.3	mg/L	1	0.82	10/9/2019	NV00925
Total Dissolved Solids (TDS)	SM 2540C	680	mg/L	1	25	10/3/2019	NV00925
<u>Microbiological Analyses</u>							
Total Coliform (MPN)	SM 9223B (Quantitray)	344.8	MPN/100ml	1	1.0	9/30/2019	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	16.1	MPN/100ml	1	1.0	9/30/2019	NV00925
<u>Anions by Ion Chromatography</u>							
Chloride	EPA 300.0	130	mg/L	2	2.0	10/1/2019	NV00925
Nitrate Nitrogen	EPA 300.0	ND	D mg/L	2	0.30	10/1/2019	NV00925
Nitrite Nitrogen	EPA 300.0	ND	D mg/L	2	0.12	10/1/2019	NV00925
Sulfate	EPA 300.0	110	mg/L	2	3.0	10/1/2019	NV00925
<u>Flow Injection Analyses</u>							
Total Kjeldahl Nitrogen	EPA 351.2	1.2	mg/L	1	0.40	10/9/2019	NV00925
<u>Trace Metals by ICP-OES</u>							
Barium	EPA 200.7	0.041	mg/L	1	0.020	10/9/2019	NV00925
Boron	EPA 200.7	0.29	mg/L	1	0.10	10/9/2019	NV00925
Iron	EPA 200.7	2.9	mg/L	1	0.10	10/9/2019	NV00925
Manganese	EPA 200.7	0.084	mg/L	1	0.010	10/9/2019	NV00925
Nickel	EPA 200.7	ND	mg/L	1	0.030	10/9/2019	NV00925
<u>Trace Metals by ICP-MS</u>							
Arsenic	EPA 200.8	0.029	mg/L	1	0.0050	10/10/2019	NV00925
<u>Sample Preparation</u>							
Trace Metals Digestion	EPA 200.2	Complete		1		10/4/2019	NV00925

DF=Dilution Factor, RL=Reporting Limit, ND=Not Detected or <RL

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Western Environmental Testing Laboratory QC Report

QCBatchID	QCType	Parameter	Method	Result	Actual	% Rec	Units
QC19100023	Blank 1	Total Coliform (MPN)	SM 9223B (Qu	ND			MPN/100ml
		Escherichia Coli (MPN)	SM 9223B (Qu	ND			MPN/100ml
QC19100068	Blank 1	Chloride	EPA 300.0	ND			mg/L
		Nitrate Nitrogen	EPA 300.0	ND			mg/L
		Nitrite Nitrogen	EPA 300.0	ND			mg/L
		Sulfate	EPA 300.0	ND			mg/L
QC19100082	Blank 1	Total Phosphorous as P	SM 4500-P E	ND			mg/L
QC19100136	Blank 1	Ammonia, as Nitrogen	SM 4500 NH3	ND			mg/L
QC19100147	Blank 1	Total Suspended Solids (TSS)	SM 2540D	ND			mg/L
QC19100226	Blank 1	Total Dissolved Solids (TDS)	SM 2540C	ND			mg/L
QC19100246	Blank 1	Biochemical Oxygen Demand	SM 5210B	ND			mg/L
QC19100266	Blank 1	Ammonia, as Nitrogen	SM 4500 NH3	ND			mg/L
QC19100267	Blank 1	Ammonia, as Nitrogen	SM 4500 NH3	ND			mg/L
QC19100423	Blank 1	Total Kjeldahl Nitrogen	EPA 351.2	ND			mg/L
QC19100444	Blank 1	Barium, Dissolved	EPA 200.7	ND			mg/L
		Boron, Dissolved	EPA 200.7	ND			mg/L
		Iron, Dissolved	EPA 200.7	ND			mg/L
		Manganese, Dissolved	EPA 200.7	ND			mg/L
		Nickel, Dissolved	EPA 200.7	ND			mg/L
QC19100445	Blank 1	Barium	EPA 200.7	ND			mg/L
		Boron	EPA 200.7	ND			mg/L
		Iron	EPA 200.7	ND			mg/L
		Manganese	EPA 200.7	ND			mg/L
		Nickel	EPA 200.7	ND			mg/L
QC19100447	Blank 1	Barium, Dissolved	EPA 200.7	ND			mg/L
		Boron, Dissolved	EPA 200.7	ND			mg/L
		Iron, Dissolved	EPA 200.7	ND			mg/L
		Manganese, Dissolved	EPA 200.7	ND			mg/L
		Nickel, Dissolved	EPA 200.7	ND			mg/L
QC19100467	Blank 1	Arsenic, Dissolved	EPA 200.8	ND			mg/L
QC19100484	Blank 1	Arsenic, Dissolved	EPA 200.8	ND			mg/L
QC19100485	Blank 1	Arsenic	EPA 200.8	ND			mg/L

QCBatchID	QCType	Parameter	Method	Result	Actual	% Rec	Units
QC19100068	LCS 1	Chloride	EPA 300.0	9.92	10.0	99	mg/L
		Nitrate Nitrogen	EPA 300.0	2.01	2.00	100	mg/L
		Nitrite Nitrogen	EPA 300.0	0.510	0.500	102	mg/L
		Sulfate	EPA 300.0	25.2	25.0	101	mg/L
QC19100082	LCS 1	Total Phosphorous as P	SM 4500-P E	0.269	0.250	108	mg/L
QC19100136	LCS 1	Ammonia, as Nitrogen	SM 4500 NH3 D	1.02	1.00	102	mg/L
QC19100147	LCS 1	Total Suspended Solids (TSS)	SM 2540D	199	200	100	mg/L
QC19100147	LCS 2	Total Suspended Solids (TSS)	SM 2540D	199	200	100	mg/L
QC19100226	LCS 1	Total Dissolved Solids (TDS)	SM 2540C	141	150	94	mg/L
QC19100226	LCS 2	Total Dissolved Solids (TDS)	SM 2540C	142	150	95	mg/L
QC19100246	LCS 1	Biochemical Oxygen Demand	SM 5210B	198	198	100	mg/L
QC19100266	LCS 1	Ammonia, as Nitrogen	SM 4500 NH3 D	0.968	1.00	97	mg/L
QC19100267	LCS 1	Ammonia, as Nitrogen	SM 4500 NH3 D	0.948	1.00	95	mg/L
QC19100423	LCS 1	Total Kjeldahl Nitrogen	EPA 351.2	0.950	1.00	95	mg/L

DF=Dilution Factor, RL=Reporting Limit, ND=Not Detected or <RL

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QCBatchID	QCType	Parameter	Method	Result	Actual	% Rec	Units
QC19100444	LCS 1	Barium, Dissolved	EPA 200.7	0.981	1.00	98	mg/L
		Boron, Dissolved	EPA 200.7	0.948	1.00	95	mg/L
		Iron, Dissolved	EPA 200.7	0.981	1.00	98	mg/L
		Manganese, Dissolved	EPA 200.7	0.980	1.00	98	mg/L
		Nickel, Dissolved	EPA 200.7	4.82	5.00	96	mg/L
QC19100445	LCS 1	Barium	EPA 200.7	0.981	1.00	98	mg/L
		Boron	EPA 200.7	0.948	1.00	95	mg/L
		Iron	EPA 200.7	0.981	1.00	98	mg/L
		Manganese	EPA 200.7	0.980	1.00	98	mg/L
		Nickel	EPA 200.7	4.82	5.00	96	mg/L
QC19100447	LCS 1	Barium, Dissolved	EPA 200.7	0.991	1.00	99	mg/L
		Boron, Dissolved	EPA 200.7	0.951	1.00	95	mg/L
		Iron, Dissolved	EPA 200.7	0.983	1.00	98	mg/L
		Manganese, Dissolved	EPA 200.7	0.977	1.00	98	mg/L
		Nickel, Dissolved	EPA 200.7	4.75	5.00	95	mg/L
QC19100467	LCS 1	Arsenic, Dissolved	EPA 200.8	0.0496	0.050	99	mg/L
QC19100484	LCS 1	Arsenic, Dissolved	EPA 200.8	0.0435	0.050	87	mg/L
QC19100485	LCS 1	Arsenic	EPA 200.8	0.0435	0.050	87	mg/L

QCBatchID	QCType	Parameter	Method	Duplicate Sample	Sample Result	Duplicate Result	Units	RPD
QC19100147	Duplicate 1	Total Suspended Solids (TSS)	SM 2540D	19100006-001	46.0	46.0	mg/L	<1%
QC19100147	Duplicate 2	Total Suspended Solids (TSS)	SM 2540D	19091025-002	224	223	mg/L	<1%
QC19100226	Duplicate 1	Total Dissolved Solids (TDS)	SM 2540C	19091014-001	764	742	mg/L	3 %
QC19100226	Duplicate 2	Total Dissolved Solids (TDS)	SM 2540C	19091014-006	684	648	mg/L	5 %

QCBatchID	QCType	Parameter	Method	Spike Sample	Sample Result	MS Result	MSD Result	Spike Value	Units	MS %Rec	MSD %Rec	RPD %
QC19100068	MS 1	Chloride	EPA 300.0	19091034-001	ND	5.95	6.05	5	mg/L	104	105	2
		Nitrate Nitrogen	EPA 300.0	19091034-001	0.234	2.35	2.38	2	mg/L	106	108	1
		Nitrite Nitrogen	EPA 300.0	19091034-001	ND	0.519	0.477	0.5	mg/L	103	95	8
		Sulfate	EPA 300.0	19091034-001	2.29	12.6	12.9	10	mg/L	103	106	2
QC19100068	MS 2	Chloride	EPA 300.0	19091028-004	4.68	9.71	9.77	5	mg/L	101	102	<1
		Nitrate Nitrogen	EPA 300.0	19091028-004	ND	2.10	2.12	2	mg/L	102	103	<1
		Nitrite Nitrogen	EPA 300.0	19091028-004	ND	0.518	0.518	0.5	mg/L	103	103	<1
		Sulfate	EPA 300.0	19091028-004	5.10	15.3	15.3	10	mg/L	102	102	<1
QC19100082	MS 1	Total Phosphorous as P	SM 4500-P E	19090898-001	ND	M 0.165	0.165	0.25	mg/L	NC	NC	NC
QC19100082	MS 2	Total Phosphorous as P	SM 4500-P E	19091014-003	0.434	M 0.626	0.626	0.25	mg/L	NC	NC	NC
QC19100136	MS 1	Ammonia, as Nitrogen	SM 4500 NH3	19091015-001	0.147	1.11	1.12	1	mg/L	96	97	<1
QC19100136	MS 2	Ammonia, as Nitrogen	SM 4500 NH3	19090907-004	ND	0.972	1.03	1	mg/L	93	98	6
QC19100266	MS 1	Ammonia, as Nitrogen	SM 4500 NH3	19090911-001	0.099	QD 1.05	1.32	1	mg/L	95	122	23
QC19100266	MS 2	Ammonia, as Nitrogen	SM 4500 NH3	19100015-001	0.921	2.04	1.95	1	mg/L	112	103	4
QC19100267	MS 1	Ammonia, as Nitrogen	SM 4500 NH3	19100027-002	0.127	1.05	1.03	1	mg/L	92	90	2
QC19100423	MS 1	Total Kjeldahl Nitrogen	EPA 351.2	19091008-001	ND	M 0.854	0.881	1	mg/L	NC	NC	NC
QC19100423	MS 2	Total Kjeldahl Nitrogen	EPA 351.2	19091022-001	ND	M 1.04	1.12	1	mg/L	NC	NC	NC
QC19100444	MS 1	Barium, Dissolved	EPA 200.7	19090997-001	ND	0.946	0.962	1	mg/L	94	96	2
		Boron, Dissolved	EPA 200.7	19090997-001	0.258	1.09	1.21	1	mg/L	84	95	10
		Iron, Dissolved	EPA 200.7	19090997-001	0.241	1.11	1.23	1	mg/L	87	99	10
		Manganese, Dissolved	EPA 200.7	19090997-001	0.025	1.00	0.984	1	mg/L	98	96	2
		Nickel, Dissolved	EPA 200.7	19090997-001	ND	5.06	4.69	5	mg/L	101	94	8
QC19100445	MS 1	Barium	EPA 200.7	19091014-004	1.04	1.90	1.87	1	mg/L	87	83	2
		Boron	EPA 200.7	19091014-004	1.12	2.04	2.13	1	mg/L	92	100	4

DF=Dilution Factor, RL=Reporting Limit, ND=Not Detected or <RL

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 fax (702) 622-2868
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QCBatchID	QCType	Parameter	Method	Spike Sample	Sample Result	MS Result	MSD Result	Spike Value	Units	MS %Rec	MSD %Rec	RPD %
QC19100447	MS 1	Iron	EPA 200.7	19091014-004	152	SC 123	98.2	1	mg/L	NC	NC	NC
		Manganese	EPA 200.7	19091014-004	4.00	SC 4.21	3.83	1	mg/L	NC	NC	NC
		Nickel	EPA 200.7	19091014-004	0.064	4.47	4.64	5	mg/L	88	91	4
		Barium, Dissolved	EPA 200.7	19090972-010	0.148	1.09	1.09	1	mg/L	94	94	<1
		Boron, Dissolved	EPA 200.7	19090972-010	ND	0.999	1.00	1	mg/L	97	97	<1
		Iron, Dissolved	EPA 200.7	19090972-010	0.487	1.33	1.33	1	mg/L	84	84	<1
		Manganese, Dissolved	EPA 200.7	19090972-010	ND	0.971	0.973	1	mg/L	97	97	<1
		Nickel, Dissolved	EPA 200.7	19090972-010	1.37	5.70	5.66	5	mg/L	87	86	<1
QC19100467	MS 1	Arsenic, Dissolved	EPA 200.8	19090972-010	0.3360	0.3841	0.3813	0.05	mg/L	96	91	<1
QC19100484	MS 1	Arsenic, Dissolved	EPA 200.8	19090997-001	0.0639	0.1029	0.1051	0.05	mg/L	78	82	2
QC19100485	MS 1	Arsenic	EPA 200.8	19091014-004	0.4741	SC 0.4634	0.4854	0.05	mg/L	NC	NC	NC

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WETLAB Order ID. 19091014
Sparks Control # _____
Elko Control # _____
LV Control # _____
Report Due Date _____
Page 1 of 1

Client **Washoe County Community Services Department**

Address **1001 E. 9th Street**

City, State & Zip **Reno, NV 89512**

Contact **Ben Jesch**

Phone **(775) 954-4626** Collector's Name **Fallon Rodriguez**

Fax **(775) 328-3699** PWS/Project Name **Swan Lake**

P.O. Number _____ PWS/Project Number **io 49300**

Email **bjesch@washoecounty.us**

Billing Address (if different than Client Address)
Company _____
Address _____
City, State & Zip _____
Contact _____
Phone _____ Fax _____
Email **bjesch@washoecounty.us**

Turnaround Time Requirements
Standard
5 Day* (25%) 72 Hour* (50%)
48 Hour* (100%) 24 Hour* (200%)
*Surcharges Will Apply

Samples Collected From Which State?
NV CA
Other
Report Results Via
PDF EDD
Compliance Monitoring?
Yes No Other _____
Report to Regulatory Agency?
Yes No
Standard QC Required?
Yes No

Analyses Requested

SAMPLE ID/LOCATION	DATE	TIME	PRES TYPE	S	NO. OF CONTAINERS	Analyses Requested										Spl. No.				
						Ammonia	BOD / TSS / TDS	Total Nitrogen	Total Phosphorus	E. Coli	Chloride / Sulfate	Nitrate / Total Kjeldahl Nitrogen	Arsenic / Boron 8:23	Barium / Iron	Manganese / Nickel					
Compton	09/30/19	09:30	Misc.	SW	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Pompe		10:00	Misc	SW	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Jean		09:45	Misc	SW	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
White Lake		10:15	MISC	SW	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
White Lake - DUP		10:15	MISC	SW	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
POMPE - DUP	✓	10:00	MISC	SW	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1909 01
																				1014 6

Instructions/Comments/Special Requirements:

Sample Matrix Key** DW = Drinking Water WW = Wastewater SW = Surface Water MW = Monitoring Well SD = Solid/Sludge SO = Soil HW = Hazardous Waste OTHER: _____

*SAMPLE PRESERVATIVES: 1=Unpreserved 2=H2SO4 3=NaOH 4=HCl 5=HNO3 6=Na2S2O3 7=ZnOAc+NaOH 8=HCl/VOA Val

Temp	Custody Seal	# of Containers	DATE	TIME	Samples Relinquished By	Samples Received By
3.8°C	Y N <u>None</u>	36	09/30/19	1050	<i>[Signature]</i>	<i>[Signature]</i>
°C	Y N None					
°C	Y N None					
°C	Y N None					

WETLAB'S Standard Terms and Conditions apply unless written agreements specify otherwise. Payment terms are Net 30.

Client/Collector attests to the validity and authenticity of this (these) sample(s) and, is (are) aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636). _____ initial
To the maximum extent permitted by law, the Client agrees to limit the liability of WETLAB for the Client's damages to the total compensation received, unless other agreements are made in writing. This limitation shall apply regardless of the cause of action or legal theory pled or asserted. _____ initial
WETLAB will dispose of samples 90 days from sample receipt. Client may request a longer sample storage time for an additional fee. 301.2E
Please contact your Project Manager for details. _____ initial

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