WATER SYSTEMS MGT., INC.
WSM, Inc.
67 Wild Horse Trail
Sandpoint, ID 83864
(208) 265-4270 (phone)
(208) 265-5243 (fax)
wsmibob@aol.com (e-mail)

Water System Management/Operation
Wastewater System Management/Operation
Backflow Prevention Assembly Testing
Cross Connection Control Inspection
Consulting

January 5, 2022

Katy Baker-Casile
State of Idaho – DEQ
2110 Ironwood Parkway
Coeur d'Alene, ID 83814-2648

RE: ANNUAL REPORT, Bayview Water and Sewer District, WASTEWATER REUSE PERMIT, M-105-04 – Including Minor Permit Modifications No. 1 & No. 2

Dear Ms. Baker-Casile,

The following is a summary of activities at Bayview Water and Sewer District (District) municipal wastewater facilities for the period of November 1, 2020 through October 31, 2021.

The current permit, #M-105-04, was issued on July 1, 2015 and expires on July 1, 2025. M-105-04 – Modification 1 was issued on June 4, 2018. M-105-04 – Modification 2 was issued on December 31, 2018.

The District contracted with Water Systems Management, Inc. (Bob Hansen) to operate the wastewater system starting on August 16, 2017. WSM does provide appropriately licensed personnel to fulfill requirements for both responsible-charge and substitute responsible-charge operation of the Districts collection, treatment and reuse land application activities.

During this reporting period, November 1st through October 31st the District's collection and treatment systems have been operated in substantial compliance with the current Department issued Permit. WSM continues to be retained as the District contract operating firm providing appropriately licensed operating personnel. The District remains in a pro active posture in reviewing potential system upgrades and addressing aging infrastructure.

In early August it was discovered that two Irrigation water actuator valves had failed. Replacement was delayed by the global supply chain problems and irrigation was halted on August 7th due to this issue. As a result of halting irrigation early in the month, sampling for nitrates, nitrites, and TKN was missed in August. Monitoring of groundwater levels was also missed in August.

2020 Annual Report Response

No response by DEQ to the report was received.

6. Reporting Requirements

6.1.1 Due Date

The Annual Report covering the previous reporting period is being submitted as required, no later than January 31.

6.1.2 Required Contents

The Annual Report shall include the following:

1. *A brief interpretive discussion of all required monitoring data. The discussion shall address data quality objectives, validation, and verification; permit compliance; and reuse facility environmental impacts. The reporting year for this permit is specified in section 4.5.*

   All monitoring data for the reporting year was consistent with previous year's results. There were no results which would raise concerns about data quality or warrant additional validation of the results. There were no observed environmental impacts.

2. *Results of the required monitoring as described in section 5 of this permit. If the permittee monitors any parameter for compliance purposes more frequently than required by this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Annual Report. The report shall present all monitoring data in organized data summary tables to expedite review.*

   5.1.1 Constituent Monitoring

	TKN (mg/l)	Nitrate (mg/l)	Nitrite (mg/L)
July	9.69	30.7	0.914
August	Missed Sampling		

   A result of 2 MPN/100 ml for Total Coliforms was obtained on 7/21/21. All other results were non-detect.

   5.1.2 Management Unit and Other Flow Monitoring

   Daily flow to MU's can be found in the attached monthly logs.

	Volume Applied (MG)		
	MU-10501	MU-10502	MU-10503
July	0.452	0.267	0.137
August	0.104	0.105	0.053

	Inches/Acre Applied		
	MU-10501	MU-10502	MU-10503
July	2.38	1.98	0.58
August	0.55	0.78	0.23

5.2.2 Ground Water Monitoring, Sampling, and Analyses

	Depth to Groundwater (inches)		
	GW-10501	GW-10502	GW-10503
July	72	70	76
August	Missed Monitoring		

5.3.2 Soil Monitoring, Sampling, and Analyses

	Nitrate (mg/kg)		
	SU-10501	SU-10502	SU-10503
0-12"	0.245	6.24	12.70
12-24"	0.115	2.50	5.00
24-36"	0.106	0.554	1.20

	Ammonia (mg/kg)		
	SU-10501	SU-10502	SU-10503
0-12"	0.639	1.85	4.81
12-24"	ND	5.17	2.26
24-36"	ND	1.53	2.78

3. Status of all work described in section 3 of this permit.

3. Compliance Schedule for Required Activities - STATUS

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-105-01 Within 6 months of permit issuance	**Plan of Operation (PO):** The permittee shall submit for review and approval a Plan of Operation that reflects current operations and incorporates the requirements of this permit. The PO shall comply with the applicable requirements stated in IDAPA 58.01.17.300.05 and shall address applicable items in the Plan of Operation Checklist in the DEQ Guidance. The PO shall include the following site management plans or the permittee may submit the site management plans individually: 1. Buffer zone plan; 2. Emergency operating plan; 3. Irrigation management and scheduling plan; 4. Runoff management plan

	The PO shall be undated as needed to reflect current operations. The permittee shall notify DEQ of material changes to the PO and copies shall be kept on site and made available to DEQ upon request.
STATUS: <u>COMPLETE</u> - The Plan of Operation (PO) was submitted to DEQ by T-O Engineers and approved.	

Compliance Activity (CA) Number and Completion Due Date	**Compliance Activity Description**
CA-105-02 Within 6 months of permit issuance	**Quality Assurance Project Plan (QAPP):** The permittee shall prepare and implement a QAPP that incorporates all monitoring and reporting required by this permit. A copy of the QAPP along with written notice that the permittee has implemented the QAPP shall be provided to DEQ. The QAPP shall be designed to assist in planning for the collection, analysis, and reporting of all monitoring in support of this permit and in explaining data anomalies when they occur. At a minimum, the QAPP must include the following: 1. Details on the number of measurements, number of samples, type of sample containers, preservation of samples, holding times, analytical methods, analytical detection, and quantitation limits for each target compound, type and number of quality assurance field samples, precision and accuracy requirements, sample preparation requirements, sample shipping methods, and laboratory data delivery requirements. 2. Maps indicating the location of each monitoring, and sampling point. 3. Qualification and training of personnel. 4. Names, addresses, and telephone numbers of the laboratories used by or proposed to be used by the permittee 5. Example formats and tables that will be used by the permittee to summarize and present all data in the annual report. The format and content of the QAPP should adhere to the recommendations and references in the Quality Assurance and Data Processing sections of the DEQ Guidance. The permittee shall amend the QAPP whenever there is a modification in sample collection, sample analysis, or other procedure addressed by the QAPP. The permittee shall notify DEQ of material changes to the QAPP and copies shall be kept on site and made available to DEQ upon request.
STATUS: <u>COMPLETE</u> - The Quality Assurance Project Plan (QAPP) was submitted to DEQ by T-O Engineers and approved.	

<table>
<tr><th>Compliance Activity (CA) Number and Completion Due Date</th><th>Compliance Activity Description</th></tr>
<tr><td>CA-105-03
As specified</td><td>Seepage Testing: The following table shows the date by which the permittee shall complete seepage testing on the specified lagoons;
<table>
<tr><td>Lagoon:</td><td>Seepage Test Due Date:</td></tr>
<tr><td>Storage Lagoon</td><td>June 30, 2019</td></tr>
</table>
Submit to DEQ for review and approval a proposed schedule and procedure for performing the required seepage tests at least 42 days prior to the planned seepage test. Guidance for developing seepage test procedures are available at: http://www.deq.idaho.gov/water-quality/wastewater/laggoon-deepage-testing .aspx The seepage test procedures shall be sealed by the Idaho licensed professional engineer or professional geologist in responsible charge for the test.

Seepage tests shall be completed in accordance with the procedures approved by DEQ. The seepage test report shall be sealed by the person in responsible charge and submitted within 90 days after completion of the seepage test.

For municipal lagoons, the leakage rate for lagoons constructed after April 15, 2007 shall be no more than zero point one hundred twenty-five (0.125) inches (1/8 inch) per day. The leakage rate for existing lagoons constructed prior to April 15, 2007 shall be no more than zero point twenty-five (0.25) inches (1/4 inch) per day. See IDAPA58.01.16.493.03. Requirements for lagoons leaking above the allowable amount are outlined in IDAPA 58.01.16.493.04.</td></tr>
<tr><td colspan="2">STATUS: COMPLETE - Seepage Testing, in accordance with the DEQ approved plan was initialed in 2019 and the lagoon was found to be leaking in excess of allowable limits. Testing was halted and DEQ, Mr. Chris Westerman, was notified on June 3, 2019 by Mr. Brett Converse, JUB Engineering. After numerous efforts to identify leaks in the lagoon liner, we were finally successful and repairs were made. The lagoon was seepage tested and the final seepage test results report was submitted to DEQ by Brett Converse, P.E., J-U-B Engineers on October 14, 2020, Michael Stambulis, P.E. at DEQ, acknowledged we had “satisfactorily met the requirements of the Wastewater Rules (IDAPA 58.01.16.493.03) of reuse permit M-105-04 for the storage lagoon.”</td></tr>
<tr><td>CA-105-04
By December 31, 2019</td><td>Silvicultural Plan: An updated silvicultural plan for the reuse site prepared by a professional silviculturist shall be submitted to DEQ. This plan shall include the dominant vegetation species occupying the application site, estimated percentage of the application site occupied by each of the dominant species, land management activities that will maximize ET and nutrient uptake, harvesting schedules, and nutrient uptake estimates with literature references for the dominant species present.. Once completed the silvicultural plan shall be implemented and included in the updated plan of operation.</td></tr>
<tr><td colspan="2">STATUS: COMPLETE –The required Silvicultural Plan was completed by Shan Hoover, Forester and William Love, Certified Forester with Inland Forest Management. The Report was submitted to Matt Plaisted, P.E., DEQ on July 24, 2020 by: Bob Hansen, WSM.</td></tr>
</table>

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-105-05 1 year prior to permit expiration	**Pre-Application Workshop:** If the permittee intends to continue operating the reuse facility beyond the expiration date of this permit, the permittee shall contact DEQ and schedule a pre-application workshop to discuss the compliance status of the facility and the content required for the reuse permit application package.
STATUS: The permittee will contact DEQ, 1 year prior to permit expiration, and schedule a pre-application workshop to discuss the compliance status of the facility and the content required for the reuse permit application package.	
CA-105-06 6 months prior to permit expiration	**Renewal Permit Application:** The permittee shall submit to DEQ a complete permit renewal application package, which fulfills the requirements specified at the pre-application workshop identified in CA-105-05.
STATUS: The permittee will submit to DEQ, 6 months prior to permit expiration, a complete permit renewal application package which fulfills the requirements specified at the pre-application workshop identified in CA-003-05.	

4. *Results of all backflow testing, repairs, and replacements required by Section 9.1.1 of this permit.*

   There are no backflow prevention assemblies at the reuse land application site.

5. *Discussion of major maintenance activities such as major equipment replacement, lagoon liner maintenance, and wastewater treatment and reuse facility maintenance.*

   Replacement of irrigation system actuator valves was the only significant maintenance performed.

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6. *A summary of all noncompliance events that occurred during the reporting year. Examples of noncompliance events that must be discussed include, but are not limited to: exceedance of permit limits, complaints, missed monitoring events, incorrect monitoring dates or frequencies, dry monitoring wells, uncontained spills causing runoff, construction without DEQ engineering plan approval, construction without engineering inspection, and reporting incorrect acreage.*

   The missed sampling of nitrates, nitrites, and TKN, and the missed monitoring of groundwater levels in August are the only noncompliance events. Results from July were used for August for loading calculations.

7. *Submittal of the calculations and observations for hydraulic management units specified in the table below.*

   See item 9 below.

8. *Laboratory analytical reports for monitoring specified in Section 5 of the permit. Chain of custody forms, supporting information for laboratory analytical reports and quality assurance documentation shall be available for review upon request by DEQ.*

All analytical reports are attached.

9. The parameters in the following table:

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Monitoring Point Serial Number	Parameter (Calculate for each MU)	Units
MU-10501 MU-10502 MU-10503	Recycled water loading rate	Million gallons/month Inches/month
	Irrigation water requirement (IWR) for each crop grown	Inches/month Inches/GS
	Recycled water nitrogen loading rates	Pounds N/acre-year

Recycled Water Loading Rates

	Volume Applied (MG)		
	MU-10501	MU-10502	MU-10503
July	0.452	0.267	0.137
August	0.104	0.105	0.053

	Inches/Acre Applied		
	MU-10501	MU-10502	MU-10503
July	2.38	1.98	0.58
August	0.55	0.78	0.23

Irrigation Water Requirement

	Calculated IWR (inches/acre)		
	MU-10501	MU-10502	MU-10503
July	9.62	9.62	9.62
August	8.80	8.80	8.80

Growing Season Calculated IWR (in/acre)		
MU-10501	MU-10502	MU-10503
35.78	35.78	35.78

Pounds Nitrogen /Acre-Year

Pounds Nitrogen Applied/Acre-Year		
MU-10501	MU-10502	MU-10503
27.57	25.96	7.60

6.1.3 Submittals

This annual report is being submitted in accordance with:

2. Annual reports and other information required by this permit is being signed by the a duly Authorized Representative of the Responsible Official in accordance with:
   a. The authorization is made in writing by the responsible official;
   b. The authorization specified an individual or position having responsibility for the overall operation of the regulated facility.
   c. The written authorization is submitted to DEQ.

As always, if you have any questions, please feel free to contact me at any time.

"I certify that the information provided in this submittal was prepared in conformance with the Quality Assurance Project Plan required by permit M-105-04, and is to the best of my knowledge, true, accurate and complete and I acknowledge that knowing submission of false or incomplete information may result in permit revocation as provided for in IDAPA-58.01.17.920.01 or other enforcement action as provided for under Idaho law."

Sincerely,

Bob Hansen
Bayview RCO

c: BWSD Board, bwsd637@gmail.com
Kyle Meschko, P.E. kmeschko@Kellerassociates.com
Jeff Cowley, Operator, WSMI, jeff.cowley@usa.com

Attachments: Operation Logs, Certificates of Analysis

BAYVIEW WATER AND SEWER DISTRICT - WASTEWATER LAND APPLICATION LOG - July 2021

PERMIT MAX			1,652,985			1,174,614		2,050,838		N/A		23/100mL	AVG.	3 FEET (36")		
DATE	LA-METER READING	Land Ap TOTAL VOLUME	MU-10501-AREA 1-6.98 Acres VOLUME TO ZONE			MU-10502-Area 2-4.96 VOLUME TO ZONE		MU-10503-Area 3-8.66 VOLUME TO ZONE		CHLORINE		WEEKLY TOTAL Bac-T	0.94 PRESIP in.	MONTHLY GrndwtrDepth(in.)		
			#1 (2.33)	#2 (2.33)	#3 (2.32)	#4 (2.48)	#5 (2.48)	#6(4.33)	#7 (4.33)	FREE	TOT			501	502	503
1		0											0.00			
2		0											0.00			
3		0											0.00			
4		0											0.00			
5		0											0.00			
6		0											0.00			
7		0											0.00			
8		0											0.00			
9		0											0.00			
10		0											0.00			
11		0											0.00			
12	6302000	6,302,000											0.00			
13	6348000	46,000	46,000							1.3		y	0.00			
14	6419000	71,000		71,000						1.3	14		0.00			
15	6448000	29,000			29,000					2.8	27		0.00			
16	6521000	73,000				73,000				3.1	24		0.00			
17	6548000	27,000					27,000			2.6	22		0.00			
18	6603000	55,000						55,000		3.0	26		0.00			
19		0											0.00			
20	6676000	6,676,000	73,000							9.5	28		0.00			
21	6703000	27,000		27,000						3.5	31	y	0.02			
22	6762000	59,000			59,000					6.6	26		0.00			
23	6806000	44,000				44,000				9.6	25		0.00			
24	6867000	61,000					61,000			7.4	26		0.00			
25	6867000	0								7.4	26		0.00			
26	6949000	82,000						82,000		4.5	26		0.00			
27		0								9.2	28		0.00			
28	6976000	6,976,000	37,000							7.9	26	y	0.02	72	70	76
29	7036000	60,000		60,000						4.2	30		0.00			
30	7086000	50,000			50,000					3.3	28		0.00			
31	7148000	62,000				62,000				9.6	27		0.00			
TOTAL (ZONE) GALLONS			156,000	158,000	138,000	179,000	88,000	137,000	0							
TOTAL (ZONE) ACRE INCHES			2.47	2.50	2.19	2.66	1.31	1.17	0.00							
TOTAL (MU) GALLONS			452,000			267,000		137,000		TOTAL PRECIP.			0.04			
TOTAL (MU) ACRE INCHES			2.38			1.98		0.58		Precip.Adjustment			0.90			
TOTAL NITROGEN - LBS/ACRE MONTH			22.41			18.63		5.48		TOTAL NITROGEN LAST MO.						
TOTAL NITROGEN - LBS/ACRE CUM. YR			22.41			18.63		5.48		#1	#2	#3				
NOTE: 50% of the Practical Quantitation Limits (PQL) for all ND Lab results have been added for these calculations																

Total Kjeldahl nitrogen, as N-PQL = 0.09 (0.045 @ 50%)	9.69	MONTHLY
Nitrite+Nitrate-nitrogen,as N-PQL=0.1/ea (0.05@50%)	31.81	

IRW BASED ON PRECIPITATION ADJUSTMENT	
MU-10501 Calculated Adjusted IRW	1,823,556
MU-10502 Calculated Adjusted IRW	1,295,822
MU-10503 Calculated Adjusted IRW	2,262,464

BAYVIEW WATER AND SEWER DISTRICT - WASTEWATER LAND APPLICATION LOG - August 2021

PERMIT MAX			1,652,985			1,174,614		2,050,838		N/A		23/100mL	AVG.	3 FEET (36")		
DATE	LA-METER READING	Land Ap TOTAL VOLUME	MU-10501-AREA 1-6.98 Acres VOLUME TO ZONE			MU-10502-Area 2-4.96 VOLUME TO ZONE		MU-10503-Area 3-8.66 VOLUME TO ZONE		CHLORINE		WEEKLY TOTAL	0.94 PRESIP	MONTHLY GrndwtrDepth(in.)		
	7148000		#1 (2.33)	#2 (2.33)	#3 (2.32)	#4 (2.48)	#5 (2.48)	#6(4.33)	#7 (4.33)	FREE	TOT	Bac-T	in.	501	502	503
1	7175000	27,000					27,000			11.2	26		0.00			
2	7202000	27,000							0	2.9	27		0.00			
3	7228000	26,000						53,000		2.8	21		0.00			
4	7276000	48,000	48,000							2.9	29	y	0.00			
5	7332000	56,000			56,000					5.0	26		0.00			
6	7354000	22,000				22,000				2.4	21		0.00			
7	7410000	56,000					56,000			4.0	23		0.00			
8		0											0.00			
9		0											0.00			
10		0											0.00			
11		0											0.00			
12		0											0.00			
13		0											0.00			
14		0											0.00			
15		0											0.00			
16		0											0.00			
17		0											0.00			
18		0											0.00			
19		0											0.00			
20		0											0.00			
21		0											0.00			
22		0											0.00			
23		0											0.86			
24		0											0.00			
25		0											0.00			
26		0											0.00			
27		0											0.00			
28		0											0.00			
29		0											0.00			
30		0											0.00			
31		0											0.00			
TOTAL (ZONE) GALLONS			48,000	0	56,000	22,000	83,000	53,000	0							
TOTAL (ZONE) ACRE INCHES			0.76	0.00	0.89	0.33	1.23	0.45	0.00							
TOTAL (MU) GALLONS			104,000			105,000		53,000		TOTAL PRECIP.			0.86			
TOTAL (MU) ACRE INCHES			0.55			0.78		0.23		Precip.Adjustment			0.08			
TOTAL NITROGEN - LBS/ACRE MONTH			5.16			7.33		2.12		TOTAL NITROGEN LAST MO.						
TOTAL NITROGEN - LBS/ACRE CUM. YR			27.57			25.96		12.35		#1	#2	#3				
NOTE: 50% of the Practical Quantitation Limits (PQL) for all ND Lab results have been added for these calculations										22.41	18.6	10.23				

Total Kjeldahl nitrogen, as N-PQL = 0.09 (0.045 @ 50%)	9.69	MONTHLY
Nitrite+Nitrate-nitrogen,as N-PQL=0.1/ea (0.05@50%)	31.81	

IRW BASED ON PRECIPITATION ADJUSTMENT	
MU-10501 Calculated Adjusted IRW	1,668,147
MU-10502 Calculated Adjusted IRW	1,185,388
MU-10503 Calculated Adjusted IRW	2,069,649

Accurate Testing Labs, LLC
7950 Meadowlark Way
Coeur d'Alene, ID 83815
Phone (208) 762 8378 Fax (208) 762 9082
www.accuratetesting.com
info@accuratetesting.com

Certificate of Analysis

Order No.: **2021070210**

Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Water & Sewer

Date Received: 07/13/2021 12:00

Sample: 1
Location: Land App Tap
Sample Type: Grabs

Matrix: Waste Water
D/T Collected: 07/13/2021 10:30
Collected by: Claire Hansen

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Nitrite-N	0.914	mg/L	EPA 300.0	0.1	07/13/21	WM
Nitrate-N	30.7	mg/L	EPA 300.0	0.1	07/13/21	WM
Total Kjeldahl Nitrogen (N)	9.69	mg/L	SM 4500NORG B	0.23	07/16/21	JD

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:

Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 07/16/21

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7950 Meadowlark Way
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Certificate of Analysis

Order No.: **2021070209**

Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Water & Sewer

Date Received: 07/13/2021 12:00

Sample: 1
Location: Land App Tap
Sample Type: Grabs

Matrix: Waste Water
D/T Collected: 07/13/2021 10:30
Collected by: Claire Hansen

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Total Coliform Bacteria	ND	MPN/100mL	SM 9221B	1.8	07/15/21	GM
Temperature (Sample Received)	6.4	deg. C	Infrared		07/13/21	JM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:

Walter Mueller

Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 07/15/21

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Certificate of Analysis

Order No.: **2021070413**

Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Water & Sewer

Date Received: 07/21/2021 08:25

Sample: 1
Location: Land App Tap
Sample Type: Grabs

Matrix: Waste Water
D/T Collected: 07/21/2021 07:10
Collected by: Bob Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Total Coliform Bacteria	2	MPN/100mL	SM 9221B	1.8	07/24/21	WM
Temperature (Sample Received)	4.1	deg. C	Infrared		07/21/21	JM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:

Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 07/26/21

Accurate Testing Labs, LLC
7950 Meadowlark Way
Coeur d'Alene, ID 83815
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www.accuratetesting.com
info@accuratetesting.com

Certificate of Analysis

Order No.: **2021070618**

Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Water & Sewer

Date Received: 07/28/2021 15:00

Sample: **1**
Location: Land App Tap
Sample Type: Grabs

Matrix: Waste Water
D/T Collected: 07/28/2021 13:50
Collected by: Bob Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Total Coliform Bacteria	ND	MPN/100mL	SM 9221B	1.8	07/30/21	ME
Temperature (Sample Received)	6.5	deg. C	Infrared		07/28/21	JM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:

Walter Mueller

Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 08/02/21

Accurate Testing Labs, LLC
7950 Meadowlark Way
Coeur d'Alene, ID 83815
Phone (208) 762 8378 Fax (208) 762 9082
www.accuratetesting.com
info@accuratetesting.com

Certificate of Analysis

Order No.: **2021080145**

Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Water & Sewer

Date Received: 08/04/2021 14:50

Sample: 1
Location: Land App Tap
Sample Type: Grabs

Matrix: Waste Water
D/T Collected: 08/04/2021 14:00
Collected by: Bob Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Total Coliform Bacteria	ND	MPN/100mL	SM 9221B	1.8	08/06/21	ME
Temperature (Sample Received)	8.1	deg. C	Infrared		08/04/21	JM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:

Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 08/06/21

Accurate Testing Labs, LLC
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Phone (208) 762 8378 Fax (208) 762 9082
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Certificate of Analysis

Order No.: **2021100332**

Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Soil - Land Application

Date Received: 10/14/2021 11:35

Sample: **1**
Location: Soil, SU-10501 0-12"
Sample Type: Composites

Matrix: Soil
D/T Collected: 10/13/2021 11:00
Collected by: Claire Hansen

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	0.639	mg/Kg	S-3.50	0.1	10/21/21	GM
Nitrate-N (KCl Extract)	0.245	mg/Kg	S-3.10	0.1	10/20/21	WM
Total Solids	85.69	%	SM 2540G		10/21/21	ME

Sample: **2**
Location: Soil, SU-10501 12-24"
Sample Type: Composites

Matrix: Soil
D/T Collected: 10/13/2021 11:15
Collected by: Claire Hansen

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	ND	mg/Kg	S-3.50	0.1	10/21/21	GM
Nitrate-N (KCl Extract)	0.115	mg/Kg	S-3.10	0.1	10/20/21	WM
Total Solids	86.78	%	SM 2540G		10/21/21	ME

Sample: **3**
Location: Soil, SU-10501 24-36"
Sample Type: Composites

Matrix: Soil
D/T Collected: 10/13/2021 11:45
Collected by: Claire Hansen

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	ND	mg/Kg	S-3.50	0.1	10/21/21	GM
Nitrate-N (KCl Extract)	0.106	mg/Kg	S-3.10	0.1	10/20/21	WM
Total Solids	89.69	%	SM 2540G		10/21/21	ME

Comments:

Walter Mueller

Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 10/21/21

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Order No.: **2021100332**

Sample: **4**
Location: Soil, SU-10502 0-12"
Sample Type: Composites

Matrix: Soil
D/T Collected: 10/13/2021 12:10
Collected by: Claire Hansen

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	1.85	mg/Kg	S-3.50	0.1	10/21/21	GM
Nitrate-N (KCl Extract)	6.24	mg/Kg	S-3.10	0.1	10/20/21	WM
Total Solids	72.13	%	SM 2540G		10/21/21	ME

Sample: **5**
Location: Soil, SU-10502 12-24"
Sample Type: Composites

Matrix: Soil
D/T Collected: 10/13/2021 12:30
Collected by: Claire Hansen

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	5.17	mg/Kg	S-3.50	0.1	10/21/21	GM
Nitrate-N (KCl Extract)	2.50	mg/Kg	S-3.10	0.1	10/20/21	WM
Total Solids	73.26	%	SM 2540G		10/21/21	ME

Sample: **6**
Location: Soil, SU-10502 24-36"
Sample Type: Composites

Matrix: Soil
D/T Collected: 10/13/2021 13:00
Collected by: Claire Hansen

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	1.53	mg/Kg	S-3.50	0.1	10/21/21	GM
Nitrate-N (KCl Extract)	0.554	mg/Kg	S-3.10	0.1	10/20/21	WM
Total Solids	77.64	%	SM 2540G		10/21/21	ME

Sample: **7**
Location: Soil, SU-10503 0-12"
Sample Type: Composites

Matrix: Soil
D/T Collected: 10/13/2021 13:20
Collected by: Claire Hansen

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	4.81	mg/Kg	S-3.50	0.1	10/21/21	GM
Nitrate-N (KCl Extract)	12.7	mg/Kg	S-3.10	0.1	10/20/21	WM
Total Solids	74.66	%	SM 2540G		10/21/21	ME

Comments:

Walter Mueller

Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 10/21/21

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Certificate of Analysis

Order No.: **2021100332**

Sample: **8**
Location: Soil, SU-10503 12-24"
Sample Type: Composites

Matrix: Soil
D/T Collected: 10/13/2021 13:40
Collected by: Claire Hansen

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	2.26	mg/Kg	S-3.50	0.1	10/21/21	GM
Nitrate-N (KCl Extract)	5.00	mg/Kg	S-3.10	0.1	10/20/21	WM
Total Solids	79.53	%	SM 2540G		10/21/21	ME

Sample: **9**
Location: Soil, SU-10503 24-36"
Sample Type: Composites

Matrix: Soil
D/T Collected: 10/13/2021 14:00
Collected by: Claire Hansen

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	2.78	mg/Kg	S-3.50	0.1	10/21/21	GM
Nitrate-N (KCl Extract)	1.20	mg/Kg	S-3.10	0.1	10/20/21	WM
Total Solids	76.23	%	SM 2540G		10/21/21	ME

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:

Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 10/21/21