

11/28/2023- Holland Lake Monitoring Well Test Results





ANALYTICAL REPORT

Montana Environmental Laboratory LLC

1170 N. Meridian Rd., P.O. Box 8900, Kalispell, MT 59904-1900
Phone: 406-755-2131 Fax: 406-257-5359 www.melab.us

Monitoring Well Test Results

Patrick Siers
USFS Holland Lake WW
650 Wolfpack Way
Kalispell, MT 59901

PWS ID:
Project: Monitoring Well

Client Sample ID: Gate Elec Line #1 **Well 2** **Lab ID:** 2312211-01
Matrix: ENVIRO WATER **Collected:** 11/27/2023 16:15 **Received:** 11/28/2023 10:30

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>MCL</u>	<u>Method</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
BOD	ND	mg/L	2		SM5210B	11/29/2023 15:00	12/04/2023 15:00	NB
Dissolved Oxygen	8.81	mg/L	1		HACH 10360		11/28/2023 11:00	NB
Nitrate + Nitrite, Total	0.33	mg/L	0.01		E353.2		12/01/2023 12:02	NB
Nitrogen, Total	0.33	mg/L	0.20		Calculation		12/05/2023 9:40	NB
Phosphorus, Total	0.12	mg/L	0.01		E365.1		11/29/2023 11:57	NB
Total Kjeldahl Nitrogen (TKN)	ND	mg/L	0.20		E351.2		12/04/2023 14:06	NB

Client Sample ID: Plant WW Plant #2 **Well 1** **Lab ID:** 2312211-02
Matrix: ENVIRO WATER **Collected:** 11/27/2023 15:45 **Received:** 11/28/2023 10:30

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>MCL</u>	<u>Method</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
BOD	2	mg/L	2		SM5210B	11/29/2023 15:00	12/04/2023 15:00	NB
Dissolved Oxygen	8.14	mg/L	1		HACH 10360		11/28/2023 11:00	NB
Nitrate + Nitrite, Total	0.05	mg/L	0.01		E353.2		12/01/2023 12:02	NB
Nitrogen, Total	ND	mg/L	0.20		Calculation		12/05/2023 9:40	NB
Phosphorus, Total	0.11	mg/L	0.01		E365.1		11/29/2023 11:57	NB
Total Kjeldahl Nitrogen (TKN)	ND	mg/L	0.20		E351.2		12/04/2023 14:06	NB

Client Sample ID: Campground Holland #3 **Well 3** **Lab ID:** 2312211-03
Matrix: ENVIRO WATER **Collected:** 11/27/2023 15:30 **Received:** 11/28/2023 10:30

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>MCL</u>	<u>Method</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
BOD	ND	mg/L	2		SM5210B	11/29/2023 15:00	12/04/2023 15:00	NB
Dissolved Oxygen	7.78	mg/L	1		HACH 10360		11/28/2023 11:00	NB
Nitrate + Nitrite, Total	0.13	mg/L	0.01		E353.2		12/01/2023 12:02	NB
Nitrogen, Total	ND	mg/L	0.20		Calculation		12/05/2023 9:40	NB
Phosphorus, Total	0.21	mg/L	0.01		E365.1		11/29/2023 11:57	NB
Total Kjeldahl Nitrogen (TKN)	ND	mg/L	0.20		E351.2		12/04/2023 14:06	NB



ANALYTICAL REPORT

Montana Environmental Laboratory LLC

1170 N. Meridian Rd., P.O. Box 8900, Kalispell, MT 59904-1900
 Phone: 406-755-2131 Fax: 406-257-5359 www.melab.us

Patrick Siers
 USFS Holland Lake WW
 650 Wolfpack Way
 Kalispell, MT 59901

PWS ID:
 Project: Monitoring Well



MONTANA ENVIRONMENTAL LAB, LLC
 P.O. BOX 8900, KALISPELL, MT 59904
 VOICE: (406) 755-2131 · FAX: (406) 257-5359
 www.melab.us · info@melab.us

Chain Of Custody and Analytical Req

Please Print. Provide as much information as p

12211

Page 1 of 1

Company Name: <u>US Forest Service</u>		Project Name, PWSID #, Permit #, Etc.: <u>Holland Lake WW - Monitoring Wells.</u>																													
Report Address: <u>650 wolfpack way 59901</u> <u>patrick.siers@usda.gov</u>		Contact Name, Phone, Fax: <u>406 758 5347</u>																													
Invoice Address: <u>patrick.siers@usda.gov</u>		TURN AROUND TIME REQUIRED <input type="checkbox"/> STANDARD 10 WORKING DAYS <input type="checkbox"/> 5 WORKING DAYS (50% SURCHARGE) <input type="checkbox"/> 1-2 WORKING DAYS (100% SURCHARGE) <input type="checkbox"/> OTHER _____																													
SAMPLER PRINTED NAME AND SIGNATURE: <u>Patrick Siers</u>		Analysis Requested																													
SITE NAME or LOCATION	SAMPLE DATE	SAMPLE TIME	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th>MATRIX # Bottles</th> <th>TOTAL N</th> <th>TREN</th> <th>TNOx</th> <th>TPLUS</th> <th>D.O.</th> <th>BOD</th> </tr> <tr> <td>Gate <u>SE/oc Line 3 #1</u></td> <td>11/27</td> <td>4:15</td> <td>2</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>Plant <u>SE Wastewater Plant 3 #2</u></td> <td>11/27</td> <td>3:45</td> <td>2</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Campground <u>SE Holland EG 3 #3</u></td> <td>11/27</td> <td>3:30</td> <td>2</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> </table>	MATRIX # Bottles	TOTAL N	TREN	TNOx	TPLUS	D.O.	BOD	Gate <u>SE/oc Line 3 #1</u>	11/27	4:15	2	X	X	X	Plant <u>SE Wastewater Plant 3 #2</u>	11/27	3:45	2	✓	✓	✓	Campground <u>SE Holland EG 3 #3</u>	11/27	3:30	2	✓	✓	✓
MATRIX # Bottles	TOTAL N	TREN	TNOx	TPLUS	D.O.	BOD																									
Gate <u>SE/oc Line 3 #1</u>	11/27	4:15	2	X	X	X																									
Plant <u>SE Wastewater Plant 3 #2</u>	11/27	3:45	2	✓	✓	✓																									
Campground <u>SE Holland EG 3 #3</u>	11/27	3:30	2	✓	✓	✓																									
		COMMENTS <u>Reed 80c</u> <u>11/28 10:30</u> <u>PA</u>																													

Relinquished by: <u>Patrick Siers</u>	Date/Time: <u>11/10/30</u>	Shipped by: <u>[Signature]</u>	Received by: _____	Date/Time: _____
Relinquished by: _____	Date/Time: _____	Shipped by: _____	Received by: _____	Date/Time: _____
Relinquished by: _____	Date/Time: _____	Shipped by: _____	Received by: _____	Date/Time: _____

1.5% PER MONTH INTEREST CHARGE (18% A.P.R.) CUSTOMER AG

QUALITY CONTROL REPORT

Montana Environmental Laboratory LLC

Test Parameters

Order#: M2312211

BLANK WASTE WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Nitrate + Nitrite, Total-mg/L	2303125-02			0		
Nitrate + Nitrite, Total-mg/L	2303125-02			0		
Nitrate + Nitrite, Total-mg/L	2303125-02			0		
Phosphorus,Total-mg/L	2303119-02			0		
Phosphorus,Total-mg/L	2303119-02			0		
Total Kjeldahl Nitrogen (TKN)-mg/L	2303128-02			0		
Total Kjeldahl Nitrogen (TKN)-mg/L	2303128-02			0		
CONTROL WASTE WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
BOD-mg/L	2303127-03		198	174	87.9%	
BOD-mg/L	2303127-03		198	174	87.9%	
Nitrate + Nitrite, Total-mg/L	2303125-03		1	1.01	101.%	
Nitrate + Nitrite, Total-mg/L	2303125-03		1	1.01	101.%	
Nitrate + Nitrite, Total-mg/L	2303125-03		1	1.01	101.%	
Phosphorus,Total-mg/L	2303119-03		2	2	100.%	
Phosphorus,Total-mg/L	2303119-03		2	2	100.%	
Total Kjeldahl Nitrogen (TKN)-mg/L	2303128-03		4	3.97	99.3%	
Total Kjeldahl Nitrogen (TKN)-mg/L	2303128-03		4	3.97	99.3%	
CONTROL DUP WASTE WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
BOD-mg/L	2303127-04		198	212	107.1%	19.7%
BOD-mg/L	2303127-04		198	212	107.1%	19.7%
Nitrate + Nitrite, Total-mg/L	2303125-04		1	1.05	105.%	200.%
Nitrate + Nitrite, Total-mg/L	2303125-04		1	1.05	105.%	200.%
Nitrate + Nitrite, Total-mg/L	2303125-04		1	1.05	105.%	200.%
Phosphorus,Total-mg/L	2303119-04		2	2.01	100.5%	0.5%
Phosphorus,Total-mg/L	2303119-04		2	2.01	100.5%	0.5%
Total Kjeldahl Nitrogen (TKN)-mg/L	2303128-04		4	3.91	97.8%	1.5%
Total Kjeldahl Nitrogen (TKN)-mg/L	2303128-04		4	3.91	97.8%	1.5%
DUPLICATE WASTE WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Nitrate + Nitrite, Total-mg/L	2312230-01	0.85		0.85		0.0%
Nitrate + Nitrite, Total-mg/L	2312230-01	0.85		0.85		0.0%
Nitrate + Nitrite, Total-mg/L	2312230-01	0.85		0.85		0.0%
Phosphorus,Total-mg/L	2312230-01	0.06		0.06		0.0%
Phosphorus,Total-mg/L	2312230-01	0.06		0.06		0.0%
Total Kjeldahl Nitrogen (TKN)-mg/L	2312260-01	3.02		3.03		0.3%
Total Kjeldahl Nitrogen (TKN)-mg/L	2312260-01	3.02		3.03		0.3%
MS WASTE WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD

QUALITY CONTROL REPORT

Montana Environmental Laboratory LLC

Test Parameters

Order#: M2312211

MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
WASTE WATER						
Nitrate + Nitrite, Total-mg/L	2312230-01	0.85	2	2.92	103.5%	
Nitrate + Nitrite, Total-mg/L	2312230-01	0.85	2	2.92	103.5%	
Nitrate + Nitrite, Total-mg/L	2312230-01	0.85	2	2.92	103.5%	
Phosphorus, Total-mg/L	2312230-01	0.06	1	1.05	99.0%	
Phosphorus, Total-mg/L	2312230-01	0.06	1	1.05	99.0%	
Total Kjeldahl Nitrogen (TKN)-mg/L	2312260-01	3.02	2	4.99	98.5%	
Total Kjeldahl Nitrogen (TKN)-mg/L	2312260-01	3.02	2	4.99	98.5%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
DRINKING WATER						
Nitrate + Nitrite, Total-mg/L	2312230-01	0.85	2	2.93	104.0%	0.3%
Nitrate + Nitrite, Total-mg/L	2312230-01	0.85	2	2.93	104.0%	0.3%
Nitrate + Nitrite, Total-mg/L	2312230-01	0.85	2	2.93	104.0%	0.3%
Phosphorus, Total-mg/L	2312230-01	0.06	1	1.04	98.0%	1.0%
Phosphorus, Total-mg/L	2312230-01	0.06	1	1.04	98.0%	1.0%
Total Kjeldahl Nitrogen (TKN)-mg/L	2312260-01	3.02	2	5.03	100.5%	0.8%
Total Kjeldahl Nitrogen (TKN)-mg/L	2312260-01	3.02	2	5.03	100.5%	0.8%
SRM	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
ENVIRO WATER						
Nitrate + Nitrite, Total-mg/L	2303125-05		4.1	4.25	103.7%	
Nitrate + Nitrite, Total-mg/L	2303125-05		4.1	4.25	103.7%	
Nitrate + Nitrite, Total-mg/L	2303125-05		4.1	4.25	103.7%	
Phosphorus, Total-mg/L	2303119-05		6.27	6.3	100.5%	
Phosphorus, Total-mg/L	2303119-05		6.27	6.3	100.5%	
Total Kjeldahl Nitrogen (TKN)-mg/L	2303128-05		9.9	9.95	100.5%	
Total Kjeldahl Nitrogen (TKN)-mg/L	2303128-05		9.9	9.95	100.5%	



Montana Environmental Laboratory LLC

P.O. Box 8900
Kalispell, MT 59904
www.melab.us

INVOICE

Invoice Date: 12/05/2023
Invoice #: 2312211

Patrick Siers
USFS Holland Lake WW
650 Wolfpack Way
Kalispell, MT 59901

Order#: M2312211
PO #:
Project: Monitoring Well

Service	Procedure Description	QTY	Price	Invoice Amount
Laboratory	BOD	3	\$55.00	\$165.00
	Dissolved Oxygen	3	\$20.00	\$60.00
	Nitrate + Nitrite, Total	3	\$26.00	\$78.00
	Nitrogen, Total	3	\$0.00	\$0.00
	Phosphorus, Total	3	\$30.00	\$90.00
	Total Kjeldahl Nitrogen (TKN)	3	\$40.00	\$120.00

Balance Due: \$513.00