

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: FIFE LAKE AREA UTILITY AUTHORITY

Name:

ClientProj: QUARTERLY MONITOR WELLS

GTA ProjNo: 112219-2

Site Addr: 10701 VAN'S LANE

FIFE LAKE

Sampled By: RAY RAVARY/FLAUA

Date Rec: 11/22/2019

Time Rec: 10:39 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-13	11/22/2019	8:21 AM	WATER
2	MW-14	11/22/2019	8:35 AM	WATER
3	MW-5	11/22/2019	8:52 AM	WATER
4	MW-7	11/22/2019	9:05 AM	WATER
5	MW-15	11/22/2019	9:24 AM	WATER
6	MW-12	11/22/2019	9:42 AM	WATER

ELECTRONIC SIGNATURE REPORT. This is a final report for the following pages of data for the samples specified above. All analysis was performed by the methods stated and all quality control measures required were completed. All quality control information is available upon request.

Kirk L Chase

Kirk L. Chase/Chemist
Grand Traverse Analytical
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Traverse City, MI 49686
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COMPANY: FIFE LAKE AREA UTILITY AUTHORITY
PROJECT NO: QUARTERLY MONITOR WELLS
LOCATION: 10701 VAN'S LANE
FIFE LAKE
MI
SAMPLED BY: RAY RAVARY/FLAUA
SAMPLE ID: MW-13

GTA PROJECT NO: 112219-2
GTA SAMPLE NO: 1
DATE RECEIVED: 11/22/2019
TIME RECEIVED: 10:39 AM
DATE SAMPLED: 11/22/2019
TIME SAMPLED: 8:21 AM
SAMPLE MATRIX: WATER

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	12/5/2019
CHLORIDE EPA 300.0	45	10	mg/L (PPM)	LV	11/22/2019
CONDUCTIVITY SM2510-B	590	1.0	uS/cm@25C	LV	11/22/2019
NITRATE-N EPA 300.0	4.7	0.10	mg/L (PPM)	LV	11/22/2019
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	LV	11/22/2019
SODIUM EPA 200.8	64	2.5	mg/L (PPM)	MR	12/3/2019
TOTAL INORGANIC NITROGEN	4.7	0.22	mg/L (PPM)	LV/KC	12/5/2019
TOTAL PHOSPHORUS EPA 365.3	0.064	0.010	mg/L (PPM)	LV	11/22/2019

ND = NOT DETECTED, RESULT < LOD

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s.u. = STANDARD pH UNITS REPORTED AT 25 C

DISS = DISSOLVED

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PROJECT NO: QUARTERLY MONITOR WELLS
LOCATION: 10701 VAN'S LANE
FIFE LAKE
MI
SAMPLED BY: RAY RAVARY/FLAUA
SAMPLE ID: MW-14

GTA PROJECT NO: 112219-2
GTA SAMPLE NO: 2
DATE RECEIVED: 11/22/2019
TIME RECEIVED: 10:39 AM
DATE SAMPLED: 11/22/2019
TIME SAMPLED: 8:35 AM
SAMPLE MATRIX: WATER

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	12/5/2019
CHLORIDE EPA 300.0	29	10	mg/L (PPM)	LV	11/22/2019
CONDUCTIVITY SM2510-B	520	1.0	uS/cm@25C	LV	11/22/2019
NITRATE-N EPA 300.0	2.7	0.10	mg/L (PPM)	LV	11/22/2019
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	LV	11/22/2019
SODIUM EPA 200.8	83	2.5	mg/L (PPM)	MR	12/3/2019
TOTAL INORGANIC NITROGEN	2.7	0.22	mg/L (PPM)	LV/KC	12/5/2019
TOTAL PHOSPHORUS EPA 365.3	<0.010	0.010	mg/L (PPM)	LV	11/22/2019

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PROJECT NO: QUARTERLY MONITOR WELLS
LOCATION: 10701 VAN'S LANE
FIFE LAKE
MI
SAMPLED BY: RAY RAVARY/FLAUA
SAMPLE ID: MW-5

GTA PROJECT NO: 112219-2
GTA SAMPLE NO: 3
DATE RECEIVED: 11/22/2019
TIME RECEIVED: 10:39 AM
DATE SAMPLED: 11/22/2019
TIME SAMPLED: 8:52 AM
SAMPLE MATRIX: WATER

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	12/5/2019
CHLORIDE EPA 300.0	93	10	mg/L (PPM)	LV	11/22/2019
CONDUCTIVITY SM2510-B	640	1.0	uS/cm@25C	LV	11/22/2019
NITRATE-N EPA 300.0	1.6	0.10	mg/L (PPM)	LV	11/22/2019
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	LV	11/22/2019
SODIUM EPA 200.8	150	2.5	mg/L (PPM)	MR	12/3/2019
TOTAL INORGANIC NITROGEN	1.6	0.22	mg/L (PPM)	LV/KC	12/5/2019
TOTAL PHOSPHORUS EPA 365.3	<0.010	0.010	mg/L (PPM)	LV	11/22/2019

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COMPANY: FIFE LAKE AREA UTILITY AUTHORITY
PROJECT NO: QUARTERLY MONITOR WELLS
LOCATION: 10701 VAN'S LANE
FIFE LAKE
MI
SAMPLED BY: RAY RAVARY/FLAUA
SAMPLE ID: MW-7

GTA PROJECT NO: 112219-2
GTA SAMPLE NO: 4
DATE RECEIVED: 11/22/2019
TIME RECEIVED: 10:39 AM
DATE SAMPLED: 11/22/2019
TIME SAMPLED: 9:05 AM
SAMPLE MATRIX: WATER

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	12/5/2019
CHLORIDE EPA 300.0	45	10	mg/L (PPM)	LV	11/22/2019
CONDUCTIVITY SM2510-B	370	1.0	uS/cm@25C	LV	11/22/2019
NITRATE-N EPA 300.0	0.52	0.10	mg/L (PPM)	LV	11/22/2019
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	LV	11/22/2019
SODIUM EPA 200.8	100	2.5	mg/L (PPM)	MR	12/3/2019
TOTAL INORGANIC NITROGEN	0.52	0.22	mg/L (PPM)	LV/KC	12/5/2019
TOTAL PHOSPHORUS EPA 365.3	<0.010	0.010	mg/L (PPM)	LV	11/22/2019

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COMPANY: FIFE LAKE AREA UTILITY AUTHORITY
PROJECT NO: QUARTERLY MONITOR WELLS
LOCATION: 10701 VAN'S LANE
FIFE LAKE
MI
SAMPLED BY: RAY RAVARY/FLAUA
SAMPLE ID: MW-15

GTA PROJECT NO: 112219-2
GTA SAMPLE NO: 5
DATE RECEIVED: 11/22/2019
TIME RECEIVED: 10:39 AM
DATE SAMPLED: 11/22/2019
TIME SAMPLED: 9:24 AM
SAMPLE MATRIX: WATER

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	12/5/2019
CHLORIDE EPA 300.0	61	10	mg/L (PPM)	LV	11/22/2019
CONDUCTIVITY SM2510-B	600	1.0	uS/cm@25C	LV	11/22/2019
NITRATE-N EPA 300.0	3.9	0.10	mg/L (PPM)	LV	11/22/2019
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	LV	11/22/2019
SODIUM EPA 200.8	130	2.5	mg/L (PPM)	MR	12/3/2019
TOTAL INORGANIC NITROGEN	3.9	0.22	mg/L (PPM)	LV/KC	12/5/2019
TOTAL PHOSPHORUS EPA 365.3	<0.010	0.010	mg/L (PPM)	LV	11/22/2019

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PROJECT NO: QUARTERLY MONITOR WELLS
LOCATION: 10701 VAN'S LANE
FIFE LAKE
MI
SAMPLED BY: RAY RAVARY/FLAUA
SAMPLE ID: MW-12

GTA PROJECT NO: 112219-2
GTA SAMPLE NO: 6
DATE RECEIVED: 11/22/2019
TIME RECEIVED: 10:39 AM
DATE SAMPLED: 11/22/2019
TIME SAMPLED: 9:42 AM
SAMPLE MATRIX: WATER

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	12/5/2019
CHLORIDE EPA 300.0	34	10	mg/L (PPM)	LV	11/22/2019
CONDUCTIVITY SM2510-B	490	1.0	uS/cm@25C	LV	11/22/2019
NITRATE-N EPA 300.0	5.9	0.10	mg/L (PPM)	LV	11/22/2019
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	LV	11/22/2019
SODIUM EPA 200.8	93	2.5	mg/L (PPM)	MR	12/3/2019
TOTAL INORGANIC NITROGEN	5.9	0.22	mg/L (PPM)	LV/KC	12/5/2019
TOTAL PHOSPHORUS EPA 365.3	<0.010	0.010	mg/L (PPM)	LV	11/22/2019

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CHAIN OF CUSTODY

PROJECT NUMBER <i>Monitoring Well 1/4 ly</i>	SITE NAME/ADDRESS <i>FLAUA 10701 Vans Lane FL</i>	COMPANY/NAME <i>FLAUA</i>
SAMPLED BY <i>Ray RAVARY</i>	COMPANY <i>FLAUA</i>	GTA PROJECT # <i>11/22/19-2</i> <i>Quarterly Monitoring Wells</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
<i>21</i> 13	<i>→ MW</i>	<i>11/22/19</i>	<i>821</i>	<i>w/w</i>	<i>Quarterly MW</i>
<i>22</i> 14	<i>→ MW</i>	<i>11/22/19</i>	<i>835</i>	<i>w/w</i>	<i>↓</i>
<i>23</i> 5	<i>→ MW</i>	<i>11/22/19</i>	<i>852</i>	<i>w/w</i>	
<i>24</i> 7	<i>→ MW</i>	<i>11/22/19</i>	<i>905</i>	<i>w/w</i>	
<i>25</i> 15	<i>→ MW</i>	<i>11/22/19</i>	<i>924</i>	<i>w/w</i>	
<i>26</i> 12	<i>→ MW</i>	<i>11/22/19</i>	<i>942</i>	<i>w/w</i>	

BILL TO: FLAUA
C/O H+R Block
6951 Cougar Tel
Kingsley, MI 49649

REPORT TO:
RRAVARY @ provide.net
FLAUA @ Att.net

RELEASED BY <i>Ray RAVARY</i>	DATE/TIME <i>11/22/19 1039</i>	RECEIVED BY <i>K. Chu</i>	DATE/TIME <i>11/22/19 10:39</i>
		<i>ru 60%</i>	

REQUESTED TAT ☐ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS