



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: VILLAGE OF KALKASKA
Name:
ClientProj: MONTHLY
GTA ProjNo: 080321-2

Site Addr: 1005 ISLAND LAKE RD
KALKASKA
Sampled By: BRENDON WOLF/VOK
Date Rec: 8/3/2021
Time Rec: 11:50 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	INFLUENT	8/3/2021	7:24 AM	WATER
2	EFFLUENT	8/3/2021	7:29 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 Chase

Kirk L. Chase/Chemist
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830 Robinwood Court
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COMPANY:	VILLAGE OF KALKASKA	GTA PROJECT NO:	080321-2
PROJECT NO:	MONTHLY	GTA SAMPLE NO:	1
LOCATION:	1005 ISLAND LAKE RD	DATE RECEIVED:	8/3/2021
	KALKASKA	TIME RECEIVED:	11:50 AM
	MI	DATE SAMPLED:	8/3/2021
		TIME SAMPLED:	7:24 AM
SAMPLED BY:	BRENDON WOLF/VOK	SAMPLE MATRIX:	WATER
SAMPLE ID:	INFLUENT		

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
AMMONIA-N EPA 350.1	27	0.30	mg/L (PPM)	KC	8/4/2021
TOTAL PHOSPHORUS EPA 365.2	4.9	0.050	mg/L (PPM)	LV	8/10/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

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COMPANY: VILLAGE OF KALKASKA

PROJECT NO: MONTHLY

LOCATION: 1005 ISLAND LAKE RD
KALKASKA
MI

SAMPLED BY: BRENDON WOLF/VOK

SAMPLE ID: EFFLUENT

GTA PROJECT NO: 080321-2

GTA SAMPLE NO: 2

DATE RECEIVED: 8/3/2021
TIME RECEIVED: 11:50 AMDATE SAMPLED: 8/3/2021
TIME SAMPLED: 7:29 AM

SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
AMMONIA-N EPA 350.1	<0.030	0.030	mg/L (PPM)	KC	8/4/2021
CHLORIDE EPA 300.0	260	10	mg/L (PPM)	LV	8/3/2021
NITRATE-N EPA 300.0	1.0	0.10	mg/L (PPM)	LV	8/3/2021
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	LV	8/3/2021
SODIUM DISS EPA 200.8	150	0.50	mg/L (PPM)	MR	8/5/2021
TOTAL PHOSPHORUS EPA 365.2	0.54	0.010	mg/L (PPM)	LV	8/10/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

G.T. ANALYTICAL**QAQC - METALS EPA 7000 SERIES**

Company: VILLAGE OF KALKASKA
Proect no: MONTHLY
Location: 1005 ISLAND LAKE RD
KALKASKA
MI

GTA Project No: 080321-2
Date Rec: 03-Aug-21
Time Rec: 11:50 AM

CALIBRATION and INDEPENDENT CHECK

<u>Metals Method:</u>	<u>Date:</u>	<u>Curve Correlation:</u>	<u>CONTINUING CALIBRATION:</u>				<u>INDEPENDENT CHECK:</u>			
			<u>Units:</u>	<u>True:</u>	<u>Obs:</u>	<u>%DEV</u>	<u>Units:</u>	<u>True:</u>	<u>Obs:</u>	<u>%DEV</u>
SODIUM EPA 200.8	8/5/2021	0.9929	PPB	200	310	21.6	PPB	500	564	6.0
	Blank Obs(PPB):	10.00								

CURVE CORRELATION IS VALID IF IT IS AT LEAST CURVE CORRELATION IS VALID IF IT IS AT LEAST 0.99XXX
CONTINUING CAL AND INDEPENDENT CHECK MUST BE LESS THAN 20% DEVIATION.
BLANK OBSERVED MUST BE ZERO OR LESS THAN DETECTION LIMIT.

3 QC TOTAL PHOSPHORUS EPA 356.3

CONTINUING CAL

DATE: 8/10/2021

	<u>TRUE PPM</u>	<u>OBS PPM</u>	<u>%DEV</u>	<u>+/-10%?</u>
PHOSPHORUS	0.50	0.50	0.0	PASS

PROCEDURAL BLANK

DATE: 8/10/2021

	<u>OBS PPM</u>	<u><0.01PPM?</u>
PHOSPHORUS	0	PASS

SPIKE/DUP SPIKE

DATE: 8/10/2021

SAMPLE: 080321-2-2

	<u>SPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
PHOSPHORUS	0.48	0.50	96	PASS

	<u>DSPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
PHOSPHORUS	0.47	0.50	94	PASS

	<u>SPK</u>	<u>DSPK</u>	<u>%DEV</u>	<u>+/-15%?</u>
PHOSPHORUS	96.0	94.0	1.1	PASS

1 QC EPA 300.0 ANIONS

CONTINUING CAL

DATE: 8/3/2021

	<u>TRUE PPM</u>	<u>OBS PPM</u>	<u>%DEV</u>	<u>+/-10%?</u>
CHLORIDE	8	7.70	1.9	PASS
NITRATE-N	3.52	3.52	0.0	PASS
NITRITE-N	3.04	2.98	1.0	PASS

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DATE: 8/3/2021

	<u>OBS PPM</u>	<u><0.1PPM?</u>
CHLORIDE	0	PASS
NITRATE-N	0	PASS
NITRITE-N	0	PASS

SPIKE/DUP SPIKE

DATE: 8/3/2021

SAMPLE: PROC BLANK

	<u>SPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
CHLORIDE	3.59	4	89.8	PASS
NITRATE-N	1.64	1.84	89.1	PASS
NITRITE-N	5.66	6.08	93.1	PASS

	<u>DSPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
CHLORIDE	3.50	4	87.5	PASS
NITRATE-N	1.57	1.84	85.3	PASS
NITRITE-N	5.53	6.08	91.0	PASS

	<u>SPK</u>	<u>DSPK</u>	<u>%DEV</u>	<u>+/-10%?</u>
CHLORIDE	89.8	87.5	1.3	PASS
NITRATE-N	89.1	85.3	2.2	PASS
NITRITE-N	93.1	91.0	1.2	PASS

3 QC AMMONIA-N EPA 350.1

CONTINUING CAL

DATE: 8/4/2021

	<u>TRUE PPM</u>	<u>OBS PPM</u>	<u>%DEV</u>	<u>+/-10%?</u>
AMMONIA-N	0.50	0.50	0.0	PASS

PROCEDURAL BLANK

DATE: 8/4/2021

	<u>OBS PPM</u>	<u><0.01PPM?</u>
AMMONIA-N	0	PASS

SPIKE/DUP SPIKE

DATE: 8/4/2021

SAMPLE: 072821-5-1

	<u>SPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
AMMONIA-N	0.49	0.5	98.0	PASS

	<u>DSPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
AMMONIA-N	0.49	0.5	98.0	PASS

	<u>SPK</u>	<u>DSPK</u>	<u>%DEV</u>	<u>+/-15%?</u>
AMMONIA-N	98	98	0.0	PASS

830 Robinwood Court
Traverse City, MI 49686
Phone (231) 929-0905 Fax (231) 929-0894

Chain of Custody Record

Client Information		Sampler: <i>Brendon Wolf</i>	Lab PM: Chase, Kirk L.		Carrier Tracking No(s):		COC No: <i>080321-2</i>																												
Client Contact: Brendon Wolf		231-258-4772		E-Mail: kirk@gtanalytical.com		Page: Page 1 of 1																													
Company: Village of Kalkaska				Analysis Requested																															
Address: 1005 Island Lake Road		Due Date Requested:						Preservation Codes:																											
City: Kalkaska		TAT Requested (days):						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)																										
State, Zip: MI, 49646		PO #: PO Not Required						Other:																											
Phone: 231-258-4772		WO #:																																	
Email: cwp@kalkaskavillage.com		Project #:																																	
Project Name: Weekly/Monthly		SSOW#:																																	
Site: KWWTP																																			
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Nitrate/Nitrite	Ammonia-Nitrogen	Total Phosphorus	Chloride	Sodium							Special Instructions/Note:																		
Influent	8.3.21	7:24	G	W				W	M																										
Effluent	8.3.21	7:29	G	W			W	W	M	M	M																								
Possible Hazard Identification																		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																	
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological																		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																	
Deliverable Requested: I, II, III, IV, Other (specify)																		Special Instructions/QC Requirements:																	
Empty Kit Relinquished by:										Date:				Time:				Method of Shipment:																	
Relinquished by: <i>Brendon Wolf</i>										Date/Time: <i>8.3.21 7:38</i>				Company: <i>KWWTP</i>				Received by: <i>[Signature]</i> <i>8</i>				Date/Time: <i>8/3/21 11:50</i>				Company:									
Relinquished by:										Date/Time:				Company:				Received by:				Date/Time:				Company:									
Relinquished by:										Date/Time:				Company:				Received by:				Date/Time:				Company:									
Custody Seals Intact: Δ Yes Δ No										Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:																					