

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

[www.gtanalytical.com](http://www.gtanalytical.com)

Company: VILLAGE OF KALKASKA  
Name:  
ClientProj: WEEKLY  
GTA ProjNo: 092419-5

Site Addr: 1005 ISLAND LAKE RD  
KALKASKA  
Sampled By: BRENDON WOLF/VOK  
Date Rec: 9/24/2019  
Time Rec: 11:38 AM

| Sample No. | Sample ID | Date Sampled | Time Sampled | Sample Matrix |
|------------|-----------|--------------|--------------|---------------|
| 1          | INFLUENT  | 9/24/2019    | 7:25 AM      | WATER         |
| 2          | EFFLUENT  | 9/24/2019    | 7:20 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  
830 Robinwood Court  
Traverse City, MI 49686  
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COMPANY: VILLAGE OF KALKASKA

PROJECT NO: WEEKLY

LOCATION: 1005 ISLAND LAKE RD  
KALKASKA  
MI

SAMPLED BY: BRENDON WOLF/VOK

SAMPLE ID: INFLUENT

GTA PROJECT NO: 092419-5

GTA SAMPLE NO: 1

DATE RECEIVED: 9/24/2019  
TIME RECEIVED: 11:38 AM

DATE SAMPLED: 9/24/2019  
TIME SAMPLED: 7:25 AM

SAMPLE MATRIX: WATER

### SAMPLE ANALYSIS

| <u>Analysis</u>     | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Complete</u> |
|---------------------|----------------------|------------|--------------|----------------|----------------------|
| AMMONIA-N EPA 350.1 | 32                   | 0.30       | mg/L (PPM)   | KC             | 9/30/2019            |

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 | GTA PROJECT NO: | 092419-5  |
| PROJECT NO: | WEEKLY              | GTA SAMPLE NO:  | 2         |
| LOCATION:   | 1005 ISLAND LAKE RD | DATE RECEIVED:  | 9/24/2019 |
|             | KALKASKA            | TIME RECEIVED:  | 11:38 AM  |
|             | MI                  | DATE SAMPLED:   | 9/24/2019 |
| SAMPLED BY: | BRENDON WOLF/VOK    | TIME SAMPLED:   | 7:20 AM   |
| SAMPLE ID:  | EFFLUENT            | SAMPLE MATRIX:  | WATER     |

**SAMPLE ANALYSIS**

| <u>Analysis</u>     | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Complete</u> |
|---------------------|----------------------|------------|--------------|----------------|----------------------|
| AMMONIA-N EPA 350.1 | <0.030               | 0.030      | mg/L (PPM)   | KC             | 9/30/2019            |
| NITRATE-N EPA 300.0 | 0.79                 | 0.10       | mg/L (PPM)   | LV             | 9/24/2019            |
| NITRITE-N EPA 300.0 | <0.10                | 0.10       | mg/L (PPM)   | LV             | 9/24/2019            |

ND = NOT DETECTED, RESULT &lt; LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

# 1 QC EPA 300.0 ANIONS

## CONTINUING CAL

DATE: 9/24/2019

|           | <u>TRUE PPM</u> | <u>OBS PPM</u> | <u>%DEV</u> | <u>+/-10%?</u> |
|-----------|-----------------|----------------|-------------|----------------|
| NITRATE-N | 3.52            | 3.39           | 1.9         | PASS           |
| NITRITE-N | 3.04            | 3.02           | 0.3         | PASS           |

## BLANK

DATE: 9/24/2019

|           | <u>OBS PPM</u> | <u>&lt;0.1PPM?</u> |
|-----------|----------------|--------------------|
| NITRATE-N | 0              | PASS               |
| NITRITE-N | 0              | PASS               |

## SPIKE/DUP SPIKE

DATE: 9/24/2019

SAMPLE: PROC BLANK

|           | <u>SPK OBS</u> | <u>TRUE</u> | <u>%REC</u> | <u>80-120%?</u> |
|-----------|----------------|-------------|-------------|-----------------|
| NITRATE-N | 1.73           | 1.84        | 94.0        | PASS            |
| NITRITE-N | 5.85           | 6.08        | 96.2        | PASS            |

| DUP SPK NOT DONE | <u>DSPK OBS</u> | <u>TRUE</u> | <u>%REC</u> | <u>80-120%?</u> |
|------------------|-----------------|-------------|-------------|-----------------|
| NITRATE-N        | 1.75            | 1.84        | 95.1        | PASS            |
| NITRITE-N        | 5.90            | 6.08        | 97.0        | PASS            |

|           | <u>SPK</u> | <u>DSPK</u> | <u>%DEV</u> | <u>+/-10%?</u> |
|-----------|------------|-------------|-------------|----------------|
| NITRATE-N | 94.0       | 95.1        | -0.6        | PASS           |
| NITRITE-N | 96.2       | 97.0        | -0.4        | PASS           |

### 3 QC AMMONIA-N EPA 350.1

CONTINUING CAL

DATE: 9/30/2019

|           | <u>TRUE PPM</u> | <u>OBS PPM</u> | <u>%DEV</u> | <u>+/-10%?</u> |
|-----------|-----------------|----------------|-------------|----------------|
| AMMONIA-N | 0.50            | 0.52           | -2.0        | PASS           |

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PROCEDURAL BLANK

DATE: 9/30/2019

|           | <u>OBS PPM</u> | <u>&lt;0.01PPM?</u> |
|-----------|----------------|---------------------|
| AMMONIA-N | 0              | PASS                |

---

SPIKE/DUP SPIKE

DATE: 9/30/2019

SAMPLE: 091819-6-2

|           | <u>SPK OBS</u> | <u>TRUE</u> | <u>%REC</u> | <u>80-120%?</u> |
|-----------|----------------|-------------|-------------|-----------------|
| AMMONIA-N | 0.50           | 0.5         | 100.0       | PASS            |

|           | <u>DSPK OBS</u> | <u>TRUE</u> | <u>%REC</u> | <u>80-120%?</u> |
|-----------|-----------------|-------------|-------------|-----------------|
| AMMONIA-N | 0.51            | 0.5         | 102.0       | PASS            |

|           | <u>SPK</u> | <u>DSPK</u> | <u>%DEV</u> | <u>+/-15%?</u> |
|-----------|------------|-------------|-------------|----------------|
| AMMONIA-N | 100        | 102         | -1.0        | PASS           |

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## Grand Traverse Analytical

830 Robinwood Court

Traverse City, MI 49686

Phone (231) 929-0905 Fax (231) 929-0894

## Chain of Custody Record

## Client Information

Client Contact:

Mark Baars

Company:

Village of Kalkaska

Address:

1005 Island Lake Road

City:

Kalkaska

State, Zip:

MI, 49646

Phone:

231-258-4772

Email:

cwp@kalkaskavillage.com

Project Name:

Weekly/Monthly

Site:

KCWP

Sampler:

Brendon Wolf

231-258-4772

Lab PM:

Chase, Kirk L.

E-Mail:

kirk@gtanalytical.com

Carrier Tracking No(s):

COC No:

092419-5

Page:

Page 1 of 1

Job #:

## Analysis Requested

Due Date Requested:

TAT Requested (days):

PO #:

PO Not Required

WO #:

Project #:

SSOW#:

## Sample Identification

Sample Date

Sample Time

Sample Type  
(C=comp,  
G=grab)Matrix  
(W=water,  
S=solid,  
O=waste/oil,  
BT=Tissue, A=Air)

Preservation Code:

Field Filtered Sample (Yes or No)

Nitrate/Nitrite

Ammonia-Nitrogen

Total Phosphorus

Chloride

Sodium

Total Number of Containers:

## Preservation Codes:

A - HCL M - Hexane  
 B - NaOH N - None  
 C - Zn Acetate O - AsNaO2  
 D - Nitric Acid P - Na2O4S  
 E - NaHSO4 Q - Na2SO3  
 F - MeOH R - Na2S2SO3  
 G - Amchlor S - H2SO4  
 H - Ascorbic Acid T - TSP Dodecahydrate  
 I - Ice U - Acetone  
 J - DI Water V - MCAA  
 K - EDTA W - ph 4-5  
 L - EDA Z - other (specify)

Other:

Special Instructions/Note:

## Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

## Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:

Date:

Time:

Method of Shipment:

Relinquished by:

Brendon Wolf

Date/Time:

9-24-19 7:3

Company:

KCWP

Received by:

Date/Time:

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:

9/24/19 11:38am  
ree cold-fridge