

May 29, 2015

VIA E-MAIL

Mr. John Iacoangeli, Principal
 Beckett & Raeder, Inc.
 535 West William, Suite 101
 Ann Arbor, MI 48013

RE: MAY 2015 RESULTS OF INTERIM ACME CREEK MONITORING AT GRAND TRAVERSE TOWN CENTER IN ACME, MICHIGAN

Dear Mr. Iacoangeli:

The purpose of this letter is to transmit the results of interim surface water monitoring of Acme Creek that is being completed by Horizon Environmental Corporation (“Horizon”) on behalf of the Village at Grand Traverse, LLC (“VGT”) at the Grand Traverse Town Center (“GTTC”) site in Acme Township, Grand Traverse County, Michigan.

Horizon conducts sampling in accordance with the *Acme Creek Interim Monitoring Plan* which was submitted to Acme Township on December 5, 2014. The interim monitoring program is intended to assess Acme Creek for sedimentation-related parameters during wet weather events until the site is stabilized. Samples are collected once a month at three locations within the Creek (one upstream of the GTTC site and two downstream, see enclosed Figure 1) during a qualifying wet weather event. Samples are field analyzed for turbidity and temperature and are also submitted for laboratory analysis of total suspended solids (“TSS”). The results presented below are from sampling completed on May 15, 2015. This rain event deposited 0.39 inches of rain at the site between approximately 1:30 am and 11:30 am. The results of this sampling event are summarized as follows:

Acme Creek Sampling Location	Sample Date	Sample Time	Temp. (°C)	TSS (mg/L)	Turbidity (NTU)
Upstream (at property line)	5/15/15	9:40 am	9.1	<5.0	3.20
Downstream (at property line)	5/15/15	9:30 am	9.0	<5.0	4.39
Downstream (at M-72)	5/15/15	10:00 am	9.0	<5.0	4.89

Mr. John Iacoangeli

May 27, 2015

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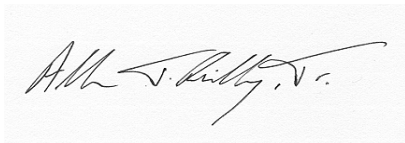
Field analyses for turbidity were completed using a Hach 2100P portable turbidimeter. Laboratory analytical reports of TSS results for these samples are presented as Attachment I.

In all sampling locations during May 15 sampling event, Acme Creek was observed to be visually clear at the time of sampling. TSS was non-detect at all locations. Temperature and turbidity levels in Acme Creek immediately downstream of the GTTC site are consistent with those observed immediately upstream of the GTTC site.

If you have questions or require additional information regarding this sampling event, please contact me at 616.554.3210.

Sincerely,

HORIZON ENVIRONMENTAL

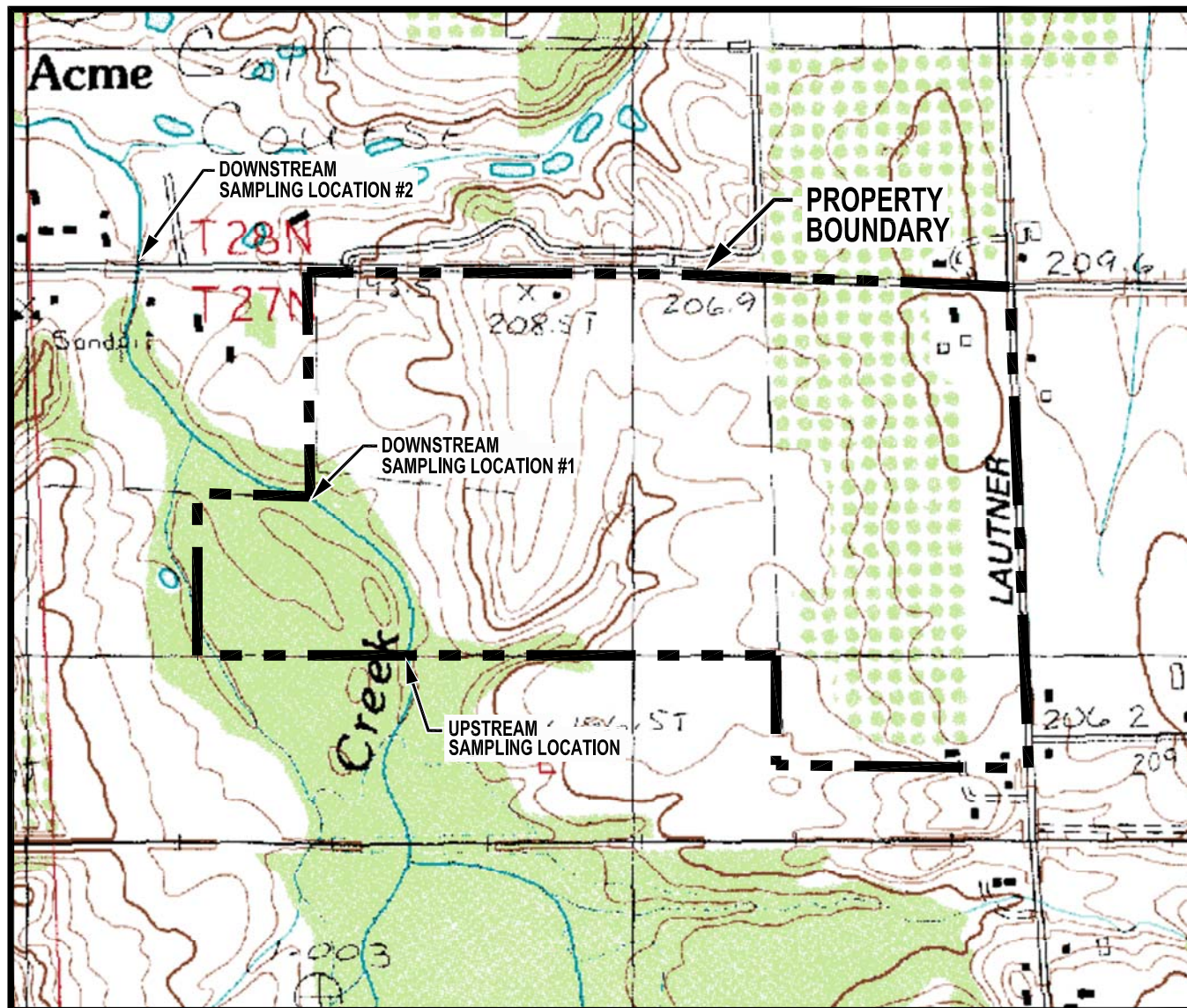
A handwritten signature in black ink, appearing to read "Allen J. Reilly, Jr.", is centered within a light gray rectangular box.

Allen J. Reilly, Jr.

Director, Environmental Risk Management

cc: J. Zollinger, Acme Township
S. Schooler, VGT
S. Smith, VGT

enclosures



TAKEN FROM 7.5 MINUTE SERIES TOPOGRAPHIC MAP
GRAWN QUADRANGLE PHOTOREVISED 1983
NOT TO SCALE



Acme Township
Grand Traverse County, MI



North

HORIZON ENVIRONMENTAL

Village at Grand Traverse
Acme Township, Grand Traverse County, Michigan

SITE LOCATION MAP

PROJECT NUMBER:
WNU-1401

FIGURE:

1

DECEMBER 2014

ATTACHMENT I

***LABORATORY ANALYTICAL RESULTS OF
APRIL 2015 SURFACE WATER SAMPLING***



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: HORIZON ENVIRONMENTAL
Name:
ClientProj: WNJ-1401
GTA ProjNo: 051515-12

Site Addr: VGT

Sampled By: MIKE POTTER/HORIZON
Date Rec: 5/15/2015
Time Rec: 12:50 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	DOWNSTREAM 1	5/15/2015	9:30 AM	WATER
2	UPSTREAM	5/15/2015	9:40 AM	WATER
3	DOWNSTREAM 2	5/15/2015	10:00 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

Digitally signed by Kirk L. Chase
DN: cn=Kirk L. Chase, o=Grand Traverse Analytical,
ou=Head Chemist, email=kirk@gtanalytical.com, c=US
Date: 2015.05.20 12:34:16 -04'00'

Kirk L. Chase/Chemist
Grand Traverse Analytical
830 Robinwood Court
Traverse City, MI 49686
Ph: 231-929-0905
Fx: 231-929-0894
Cell: 231-590-0291
kirk@gtanalytical.com

COMPANY: HORIZON ENVIRONMENTAL
PROJECT NO: WNJ-1401
LOCATION: VGT
MI
SAMPLED BY: MIKE POTTER/HORIZON

GTA PROJECT NO: 051515-12
GTA SAMPLE NO: 1
DATE SAMPLED: 5/15/2015
TIME SAMPLED: 9:30 AM
DATE RECEIVED: 5/15/2015
TIME RECEIVED: 12:50 PM

SAMPLE RESULTS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID:	DOWNSTREAM 1						
	TOTAL SUSPENDED SOLIDS SM2540D	ND	5.0	mg/L (PPM)	TR	5/20/2015	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HORIZON ENVIRONMENTAL
 PROJECT NO: WNJ-1401
 LOCATION: VGT

GTA PROJECT NO: 051515-12
 GTA SAMPLE NO: 2

DATE SAMPLED: 5/15/2015
 TIME SAMPLED: 9:40 AM
 DATE RECEIVED: 5/15/2015
 TIME RECEIVED: 12:50 PM

SAMPLED BY: MI
 MIKE POTTER/HORIZON

SAMPLE RESULTS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: UPSTREAM						
	TOTAL SUSPENDED SOLIDS SM2540D	ND	5.0	mg/L (PPM)	TR	5/20/2015	WATER

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HORIZON ENVIRONMENTAL
 PROJECT NO: WNJ-1401
 LOCATION: VGT

GTA PROJECT NO: 051515-12
 GTA SAMPLE NO: 3

DATE SAMPLED: 5/15/2015
 TIME SAMPLED: 10:00 AM
 DATE RECEIVED: 5/15/2015
 TIME RECEIVED: 12:50 PM

MI
 SAMPLED BY: MIKE POTTER/HORIZON

SAMPLE RESULTS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID:	DOWNSTREAM 2						
	TOTAL SUSPENDED SOLIDS SM2540D	ND	5.0	mg/L (PPM)	TR	5/20/2015	WATER

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

CELEBRATING 10 YEARS ☆ 2002-2012 ☆

CHAIN OF CUSTODY

PROJECT NUMBER <i>WNS-1401</i>	SITE NAME/ADDRESS <i>VBT</i>	COMPANY/NAME <i>Horizon Environmental</i>
SAMPLED BY <i>Mike Potter</i>	COMPANY <i>Horizon</i>	GTA PROJECT # <i>051515-12</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
<i>1</i>	<i>Downstream 1</i>	<i>5-15-15</i>	<i>0930</i>		<i>TSS</i>
<i>2</i>	<i>Upstream</i>	<i> </i>	<i>0940</i>		<i>TSS</i>
<i>3</i>	<i>Downstream 2</i>		<i>1000</i>		<i>TSS</i>

BILL TO:

REPORT TO:

RELEASED BY <i>MP</i>	DATE/TIME <i>5-15-15 1250</i>	RECEIVED BY <i>K. Ch</i>	DATE/TIME <i>5/15/15 12:50pm</i>

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