

City of Marquette

CON 12-15
Doc #15729

88 North Street
PO Box 7
Marquette, IA 52158
(563) 873-3735
Email: marqcity@alpinecom.net

Letter of Transmittal

Date: August 21, 2007

To: Matt Culp
Contaminated Sites Section
Iowa Department of Natural Resources
Wallace State Office Building
502 East 9th Street
Des Moines, IA 50319

Project: Former Chicago Milwaukee (CM) Railroad Yard
Roundhouse Property
Marquette, Iowa

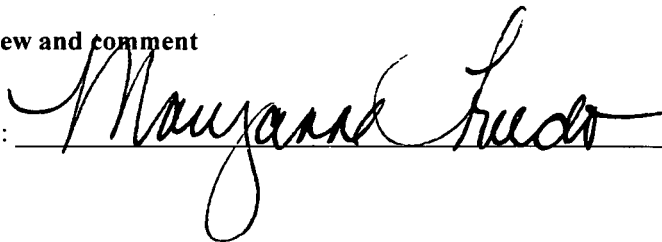
WE ARE SENDING YOU:

COPIES	DATE	NO.	DESCRIPTION
1	8-16-07		Site Monitoring – 3 rd Quarter 2007 Monitoring report by Howard R. Green Company

THESE ARE TRANSMITTED as indicated below:

REMARKS: For your review and comment

SENT BY (City Representative):



69381 AUG27'07 AM11:50



Howard R. Green Company

August 16, 2007

Ms. Maryanne Trudo
City of Marquette
Box 7
Marquette, IA 52158

RE: Site Monitoring – 3rd Quarter 2007
Former Chicago Milwaukee (CM) Railroad Yard
Roundhouse Property
Marquette, Iowa

Dear Ms. Trudo:

This letter summarizes the results of the 3rd quarter 2007 groundwater sampling for your site referenced above. This is the final quarter of four contracted groundwater monitoring events.

On August 2, 2007, an HRG field technician mobilized to the site to collect a groundwater sample from MW-2 and to continue free product removal from monitoring well MW-1. Prior to sampling, the depth to groundwater was measured and the well was purged until almost dry. The well was allowed to recover while the absorbent sock in monitoring well MW-1 was checked. The sample was collected in a container supplied by the analyzing laboratory, labeled, packed on ice, and shipped with the chain-of-custody to TestAmerica, Inc. in Cedar Falls, Iowa. The sample was analyzed for total extractable hydrocarbons (TEH) by Iowa Method OA-2. The laboratory report is attached to this letter report.

Approximately six gallons of water were purged from MW-2 prior to sampling. The purge water was clear to slightly turbid and had no noticeable sheen. A hydrogen sulfide odor was also observed during purging.

There was no measurable free product in MW-1. The absorbent sock in MW-1 was checked and replaced. Approximately one-third of the absorbent sock was saturated with product (approximately 0.09 gallons). Light brown staining was observed on the bottom ten inches of the sock.

Analytical results indicated no detections of TEH as diesel (TEH-d) and TEH as waste oil (TEH-wo) in the groundwater sample from MW-2 and thus the concentrations of these constituents were below the Tier 1 standard for surface water. The concentration of TEH-d in monitoring well MW-2 has decreased since the last sampling event. Table 1 presents information on measured free product thickness, volume of free product removed and volume of groundwater removed.

69382 AUG27'07 AM11:50

Ms. Maryanne Trudo
City of Marquette

Page 2 of 2
August 16, 2007

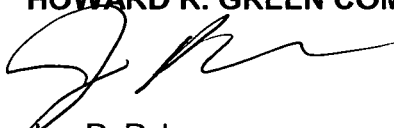
Based on conversation with Matt Culp of the Contaminated Sites Section of the Iowa Department of Natural Resources (IDNR), it is recommended that, if the free product recovery in the 4th quarter of 2007 is below 0.1 gallon, then monitoring in MW-1 switch from a recovery effort to a free product thickness measurement effort for a quarter or two. If the free product thickness measurement remains below 0.01 feet for a period of one year, then monitoring in MW-1 may be discontinued. However, if the free product thickness is greater than 0.01 feet, then recovery efforts should be re-initiated. Monitoring should continue in MW-2 during the free product thickness measurement and removal activities in MW-1.

As stated previously, this is the final quarter of the Howard R. Green Company's contract for groundwater monitoring at the site. Please feel free to contact me at 319.841.4329 with any questions or to discuss continuation of quarterly monitoring. If you have no questions or concerns, please forward the second copy of this letter report to:

Matt Culp
Contaminated Sites Section
Iowa Department of Natural Resources
Wallace State Office Building
502 East 9th Street
Des Moines, IA 50319

Sincerely,

HOWARD R. GREEN COMPANY



Jon P. Ryk
Staff Scientist

Enclosures

cc+enclosure: Jon Ryk, HRG

Table 1 - Site Groundwater Monitoring Results (µg/L)

	MW-1											MW-2										MW-3	Tier 1 Standard Surface Water
Date	8/02/07	5/09/07	3/01/07	11/29/06	7/05/06	4/04/06	1/4/06	10/05/05	7/5/05	4/8/05	8/02/07	5/09/07	3/01/07	11/29/06	7/05/06	4/04/06	1/4/06	10/05/05	7/5/05	4/8/05	7/5/05	4/8/05	
TOC	627.31	627.31	627.31	627.31	627.31	627.31	627.31	627.31	627.31	627.31	628.03	628.03	628.03	628.03	628.03	628.03	628.03	628.03	628.03	628.03	627.93	627.93	
Static Groundwater Elevation	624.51	623.89	621.41	621.31	---	625.41	--	--	622.9	622.35	626.63	626.35	625.67	625.38	626.88	627.53	626.8	625.93	626.1	626.27	625.77	626.06	
TEH-d (µg/L)	---	---	---	---	---	--	--	--	8,180	9,070	<300	362	416	494	375	313	1,600	1,280	1,310	925	<380	<380	75,000
TEH-wo (µg/L)	---	---	---	---	---	--	--	--	1,710	1,960	<300	<300	<300	527	<300	341	1,370	621	1,100	925	<380	<380	40,000
Static Groundwater Level (feet below TOC)	2.8	3.42	5.90	6.0	---	1.9	--	--	4.41	4.96	1.4	1.68	2.36	2.65	1.15	0.5	1.23	2.10	1.93	1.76	2.16	1.87	
Free Product Thickness	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	
Volume of Free Product Removed (gallons)	0.09	0.17	0.09	0.09	0.20	0.17	0.15	0.08	0.09	0.26	0	0	0	0	0	0	0	0	0	0	0	0	
Volume of Groundwater Removed (gallons)	0	0	0	0	0	0	0	0.0825	5.75	5.0	6.0	6.0	5.5	5.5	6.5	6.5	6.0	6.0	4.75	4.75	6.50	6.50	

*Adjusted for free product diesel.
-- = not evaluated.

August 13, 2007

Client:

HOWARD R. GREEN CO. - CEDAR RAPIDS
8710 Earhart Lane SW P.O. Box 9009
Cedar Rapids, IA 52404-9009

Work Order: CQH0250
Project Name: Former CM Roundhouse Property
Project Number: 727890J02

Attn: Mike Fisher

Date Received: 08/03/07

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(800)750-2401

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MW-2	CQH0250-01	08/02/07 13:50

Samples were received into laboratory at a temperature of 1 °C.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

Please refer to the Temperature and Sample Receipt form that is included with this report for additional information regarding the condition of samples at the time of receipt by the laboratory.

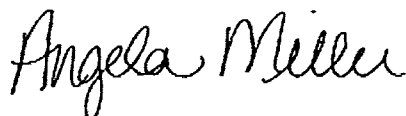
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Iowa Certification Number: 007

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample analyzed.

Approved By:



Iowa UST Lab Certification No. 007

TestAmerica - Cedar Falls, IA
Angie Miller
Project Coordinator

HOWARD R. GREEN CO. - CEDAR RAPIDS
8710 Earhart Lane SW P.O. Box 9009
Cedar Rapids, IA 52404-9009
Mike Fisher

Work Order: CQH0250
Project: Former CM Roundhouse Property
Project Number: 727890J02

Received: 08/03/07
Reported: 08/13/07 13:45

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CQH0250-01 (MW-2 - Ground Water)					Sampled: 08/02/07 13:50			Recvd: 08/03/07 09:25	
Sampled By: Jon Ryk				Phone		800-728-7805			
UST ANALYSIS PARAMETERS									
Total Extractable Hydrocarbons	<300		ug/L	300	1	08/10/07 12:36	fmk	[CALC]	OA-2 - 8015B
Diesel	<300		ug/L	300	1.02	08/10/07 12:36	fmk	7080167	OA-2
Gasoline	<300		ug/L	300	1.02	08/10/07 12:36	fmk	7080167	OA-2
Motor Oil	<300		ug/L	300	1.02	08/10/07 12:36	fmk	7080167	OA-2
Surr: Octacosane (40-135%)	86 %								

THE LEADER IN ENVIRONMENTAL TESTING

HOWARD R. GREEN CO. - CEDAR RAPIDS
8710 Earhart Lane SW P.O. Box 9009
Cedar Rapids, IA 52404-9009
Mike Fisher

Work Order: CQH0250
Project: Former CM Roundhouse Property
Project Number: 727890J02

Received: 08/03/07
Reported: 08/13/07 13:45

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
UST ANALYSIS PARAMETERS							
OA-2	7080167	CQH0250-01	980	1	08/03/07 14:03	ZTB	SW 3510C GC
OA-2 - 8015B	[CALC]	CQH0250-01	1	1	08/03/07 14:03		[CALC]

HOWARD R. GREEN CO. - CEDAR RAPIDS
8710 Earhart Lane SW P.O. Box 9009
Cedar Rapids, IA 52404-9009
Mike Fisher

Work Order: CQH0250
Project: Former CM Roundhouse Property
Project Number: 727890J02

Received: 08/03/07
Reported: 08/13/07 13:45

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
UST ANALYSIS PARAMETERS														
Diesel	7080167			ug/L	N/A	300	<300							
Gasoline	7080167			ug/L	N/A	300	<300							
Motor Oil	7080167			ug/L	N/A	300	<300							
Surrogate: Octacosane	7080167			ug/L					100		40-135			

HOWARD R. GREEN CO. - CEDAR RAPIDS
8710 Earhart Lane SW P.O. Box 9009
Cedar Rapids, IA 52404-9009
Mike Fisher

Work Order: CQH0250
Project: Former CM Roundhouse Property
Project Number: 727890J02

Received: 08/03/07
Reported: 08/13/07 13:45

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
UST ANALYSIS PARAMETERS														
Diesel	7080167		2000	ug/L	N/A	300	1220	1130	61	57	45-125	8	35	
Surrogate: Octacosane	7080167			ug/L					93	93	55-150			

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

704 Enterprise Drive Cedar Falls, IA 50613 * 800-750-2401 * Fax 319-277-2425

HOWARD R. GREEN CO. - CEDAR RAPIDS
8710 Earhart Lane SW P.O. Box 9009
Cedar Rapids, IA 52404-9009
Mike Fisher

Work Order: CQH0250
Project: Former CM Roundhouse Property
Project Number: 727890J02

Received: 08/03/07
Reported: 08/13/07 13:45

CERTIFICATION SUMMARY

TestAmerica - Cedar Falls, IA

Method	Matrix	Nelac	Iowa
OA-2 - 8015B	Water - NonPotable		
OA-2	Water - NonPotable		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

DATA QUALIFIERS AND DEFINITIONS

C8 Calibration Verification recovery was outside the method control limits for this analyte.

ADDITIONAL COMMENTS

TestAmerica - Cedar Falls, IA
Angie Miller
Project Coordinator

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Email Address: infight@hrgreen.com / jayk@hrgreen.com

Quote #: _____ PO#: _____

Page _____ of _____

Sample Receipt and Temperature Log Form

Client: Howard R Green Project: Fmr CM Roundhouse

City: _____

Property

Date: 8-3-07 Receiver's Initials: CH Time (Delivered): 9:25

Temperature Record:

Cooler ID# (If Applicable)

766

1.3 °C / On Ice

Thermometer:

- ☒ IR - 905085 "A"
☐ IR - 809065 "B"
☐ IR - 61854108
☐ 22126775

Courier:

- | | |
|--|--|
| <input type="checkbox"/> UPS | <input type="checkbox"/> TA Courier |
| <input checked="" type="checkbox"/> FedEx | <input type="checkbox"/> TA Field Services |
| <input type="checkbox"/> DHL | <input type="checkbox"/> Client |
| <input type="checkbox"/> US Postal Service | <input type="checkbox"/> Other |
| <input type="checkbox"/> Spee-Dee | |

☒ Temp Blank

☐ Temperature out of compliance

Custody seals present?

☒ Yes

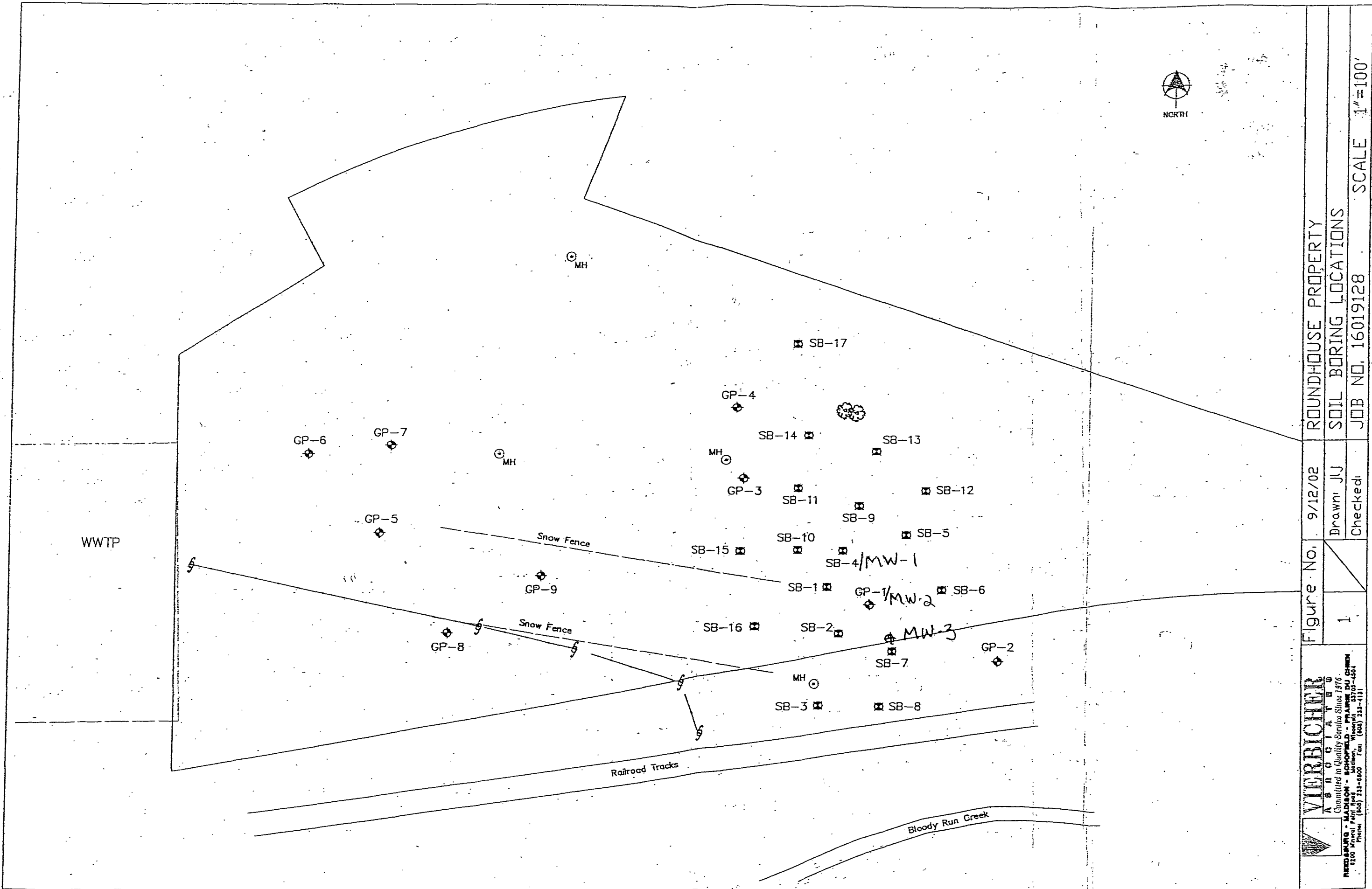
Custody seals intact?


☒ Yes ☐ No

☐ Non-Conformance report started

Exceptions Noted

- ☐ Sample(s) not received in a cooler.
☐ Samples(s) received same day of sampling.
☐ Evidence of a chilling process
☐ Temperature not taken:



 VIERBICHLER A B O C I A T I V E Committed to Quality Service Since 1976 NEEDSBURG - MADISON - SCHOFIELD - PRAXER DU CHEN 6100 Mineral Point Road Madison, Wisconsin 53705-4504 Phone: (608) 233-6800 Fax: (608) 233-4151	Figure No.	9/12/02	ROUNDHOUSE PROPERTY
	1	Drawn: JJJ	SOIL BORING LOCATIONS
		Checked:	JOB NO. 16019128 SCALE 1"=100'