



Howard R. Green Company

May 30, 2007

**CON 12-15**  
**Doc #14370**

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

RE: Site Monitoring – 2<sup>nd</sup> Quarter 2007  
Former Chicago Milwaukee (CM) Railroad Yard  
Roundhouse Property  
Marquette, Iowa

Dear Ms. Trudo:

This letter summarizes the results of the 2<sup>nd</sup> quarter 2007 groundwater sampling for your site referenced above. This is the third quarter of four groundwater monitoring events.

On May 9, 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 well, the depth to groundwater was measured 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 reports are attached to this letter report.

Approximately six gallons of water were purged from the MW-2 monitoring well prior to sampling. The purge water from the MW-2 monitoring well was rust colored to clear and had no noticeable sheen or odor. There was no measurable free product in MW-1. The field technician checked the absorbent sock in MW-1 and replaced it with a fresh absorbent sock. The absorbent sock was saturated for approximately two thirds of its length with light brown staining on the bottom ten inches of the sock (approximately 0.17 gallons).

Analytical results indicated that concentrations of TEH as diesel (TEH-d) and TEH as waste oil (TEH-wo) in the groundwater sample from MW-2 were below the Tier 1 standard for surface water. The concentrations of TEH-d and TEH-wo in monitoring well MW-2 have decreased since the last sampling event. Included in Table 1 is information on free product present, volume of free product removed, and volume of groundwater removed.

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Ms. Maryanne Trudo  
City of Marquette

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May 30, 2007

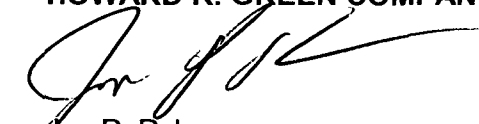
Free product removal should continue until product recovery in MW-1 is consistently below 0.1 gallon for a period of one year. Monitoring should continue in MW-2 during the free product removal activities in MW-1.

Please feel free to contact me at 319.841.4329 with any questions. 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 9<sup>th</sup> 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	05/09/07	03/01/07	11/29/06	7/05/06	4/04/06	1/4/06	10/05/05	7/5/05	4/8/05	05/09/07	03/01/07	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	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	623.89	621.41	621.31	---	625.41	--	--	622.9	622.35	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	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	527	<300	341	1,370	621	1,100	925	<380	<380	40,000
Static Groundwater Level (feet below TOC)	3.42	5.90	6.0	---	1.9	--	--	4.41	4.96	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	0	0	0	0	0	0	0	0	0	0	0	
Volume of Free Product Removed (gallons)	0.17	0.09	0.09	0.20	0.17	0.15	0.0825	0.09	0.26	0	0	0	0	0	0	0	0	0	0	0	
Volume of Groundwater Removed (gallons)	0	0	0	0	0	0	0.0825	5.75	5.0	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.

May 15, 2007

Client:

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

Work Order: CQE0623  
Project Name: Former CM Roundhouse Property  
Project Number: 727890J

Attn: Mike Fisher

Date Received: 05/11/07

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	CQE0623-01	05/09/07 12:00

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.

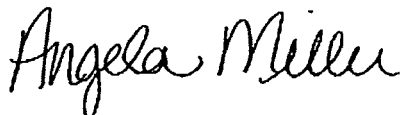
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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  
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Mike Fisher

Work Order: CQE0623  
Project: Former CM Roundhouse Property  
Project Number: 727890J

Received: 05/11/07  
Reported: 05/15/07 15:42

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CQE0623-01 (MW-2 - Ground Water)					Sampled: 05/09/07 12:00			Recvd: 05/11/07 07:30	
Sampled By: Jon Ryk				Phone		800-728-7805			
UST ANALYSIS PARAMETERS									
Total Extractable Hydrocarbons	362		ug/L	300	1	05/14/07 19:49	fmk	[CALC]	OA-2 - 8015B
Diesel	362		ug/L	300	1.03	05/14/07 19:49	fmk	7050547	OA-2
Gasoline	<300		ug/L	300	1.03	05/14/07 19:49	fmk	7050547	OA-2
Motor Oil	<300		ug/L	300	1.03	05/14/07 19:49	fmk	7050547	OA-2
Surr: Octacosane (40-135%)	88 %								

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## SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
UST ANALYSIS PARAMETERS							
OA-2	7050547	CQE0623-01	970	1	05/11/07 13:40	AM	SW 3510C GC
OA-2 - 8015B	[CALC]	CQE0623-01	1	1	05/11/07 13:40		[CALC]

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## LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
UST ANALYSIS PARAMETERS														
Diesel	7050547			ug/L	N/A	300	<300							
Gasoline	7050547			ug/L	N/A	300	<300							
Motor Oil	7050547			ug/L	N/A	300	<300							
Surrogate: Octacosane	7050547			ug/L					87		40-135			

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## 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														
Gasoline	7050547		2000	ug/L	N/A	300	1170		58		25-120			
Surrogate: Octacosane	7050547			ug/L					99		55-150			

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## MATRIX SPIKE/MATRIX SPIKE 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														
QC Source Sample: CQE0494-14														
Gasoline	7050547	1.03E9	4440	ug/L	N/A	667	101000	91600	23195906	23196100	70-130	10	20	MHA
Surrogate: Octacosane	7050547			ug/L					94	106	55-150			

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## 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](http://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

MHA Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information.

## ADDITIONAL COMMENTS

## ANALYTICAL TESTING CORPORATION

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

Quote #: PO#:

Page \_\_\_\_\_ of \_\_\_\_\_

## Sample Receipt and Temperature Log Form

Client: Howard R. Green

Project: Emr CM Roundhouse  
Property

City: \_\_\_\_\_

Date: 5-11-07 Receiver's Initials: CH Time (Delivered): 7:30

### Temperature Record:

Cooler ID# (If Applicable)  
675

1 °C On Ice

### Thermometer:

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

### Courier:

- ☒ UPS early AM ☐ TA Courier  
☐ FedEx ☐ TA Field Services  
☐ DHL ☐ Client  
☐ US Postal Service ☐ Other  
☐ Spee-Dee

☒ Temp Blank

☐ Temperature out of compliance

Custody seals present?

☒ Yes

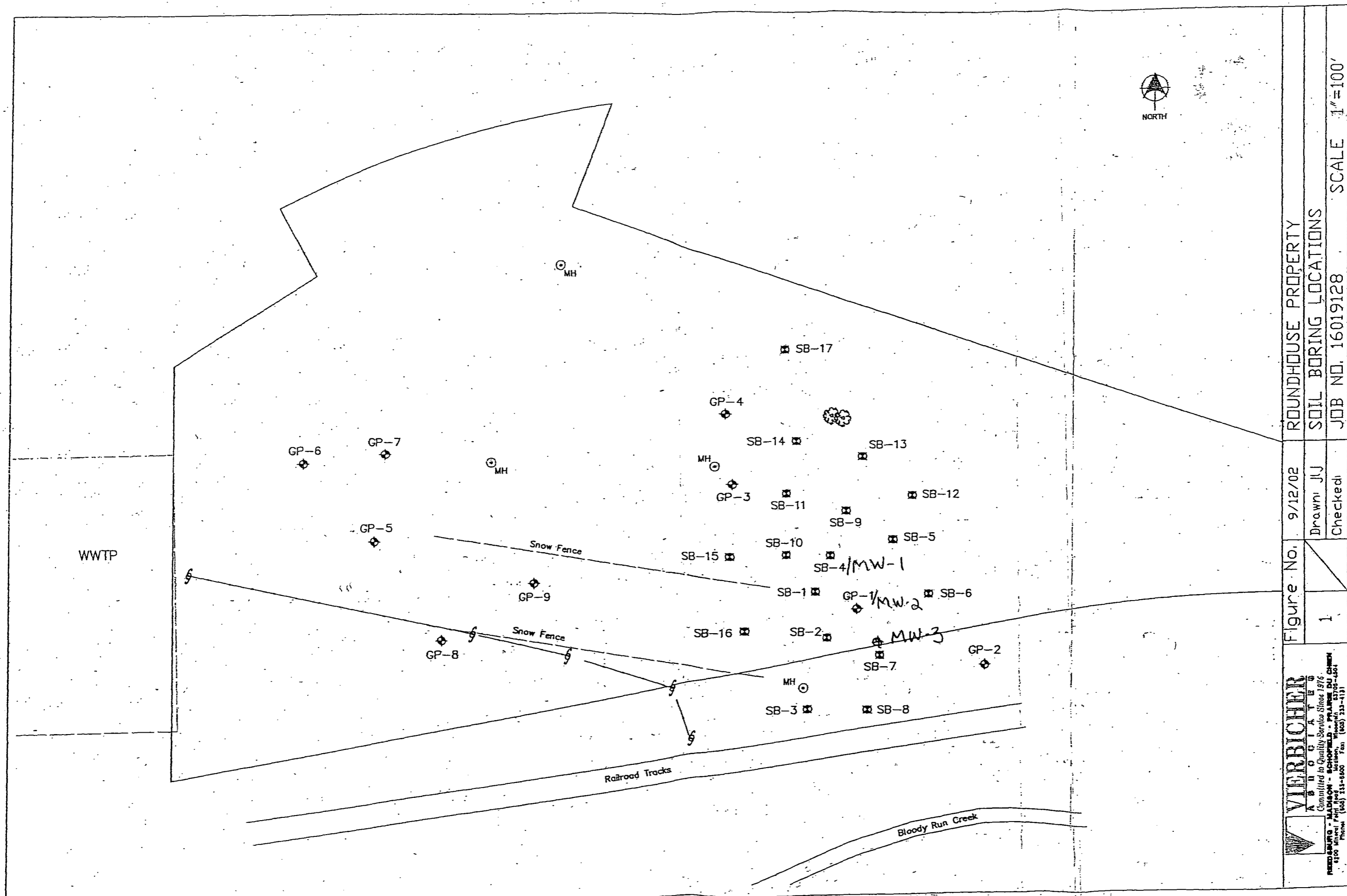
Custody seals intact?


☒ 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:  
\_\_\_\_\_



 <b>VIERBICHER</b> A B O C I A T I O N Committed to Quality Services Since 1976 4100 Mineral Point Road, Suite 200 Woodbury, NJ 07095-4401 Phone: (800) 333-8800 Fax: (800) 333-1131	Figure No.	9/12/02	ROUNDHOUSE PROPERTY	
	1		Drawn: JJJ	SOIL BORING LOCATIONS
			Checked:	JOB NO. 16019128
				SCALE 1"=100'