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January 6, 2009

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Commerce #: 53561-9701-06-A

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JAN - 9
DNR
SOUTH CENTRAL REGION

Hank Kuehling
Wisconsin Department of Natural Resources
3911 Fish Hatchery Rd
Fitchburg, WI 53711

Subject: Merrimac Mobil – Groundwater Monitoring Report (Public Bid Round 54)

Dear Mr. Kuehling,

Enclosed is the report for the Merrimac Mobil site located in Merrimac, Wisconsin. **This completes the fieldwork phase of the Public Bid Round 54 workscope.**

Geoprobe Project

On August 6, 2008, On-Site Environmental Services, Inc. of Sun Prairie, Wisconsin conducted a Geoprobe project under the direction and supervision of METCO personnel. Six borings were completed to 25 feet below ground surface (G-1 - G-6) in the area of the former tank locations and pump island. Two soil samples from each boring with the highest PID readings were collected for PVOC analysis. Upon completion, the borings were properly abandoned.

The geoprobe boring locations are presented in the updated site layout map and the soil sampling data is summarized in the data tables.

Free Product

During the groundwater monitoring events, METCO checked monitoring wells MW-3 and MW-5 for free product. No free product was noticed in either of the monitoring wells. There has been no measurable free product in either well since January 2006 (MW-3 – 0.25 inches).

Free product levels and recovery are summarized in the attached Free Product Recovery Table.

Groundwater Monitoring

On August 6, 2008, METCO collected groundwater samples from six of the nine monitoring wells (MW-3, -5, -6, -7, -8, and –9) for PVOC, Naphthalene, and EDB analysis. Water levels were collected from all nine monitoring wells.

On November 4, 2008, METCO collected groundwater samples from six of the nine monitoring wells (MW-3, -5, -6, -7, -8, and –9) for PVOC, Naphthalene, and EDB analysis. Water levels were collected from all nine monitoring wells.

Discussion of Results

Twelve soil samples were collected during the geoprobe project, but only one soil sample (G-4-2 at 9 feet bgs) showed any detects for petroleum contaminants. All contaminants detected were below the NR746 Table 1 Values, and only Benzene (80 ppb) was above the NR720 Soil Cleanup Standards.

Mann-Kendall Statistical Analyses were conducted for contaminants of concern in the impacted monitoring wells. The Mann-Kendall results were as follows:

- Monitoring well MW-3 showed "decreasing" trends for Ethylbenzene, Naphthalene, Toluene, Trimethylbenzenes, and Xylenes.
- Monitoring well MW- 5 showed "decreasing" trends for Benzene, Ethylbenzene, Naphthalene, Toluene, Trimethylbenzenes, and Xylenes.
- Monitoring well MW-6 showed "decreasing" trends for Benzene, Ethylbenzene, Naphthalene, and Toluene, and a "stable" trend for Trimethylbenzenes.
- Monitoring well MW-8 showed a "decreasing" trend for Benzene.
- Monitoring well MW-9 showed "increasing" trends for Benzene, Ethylbenzene, Naphthalene, Toluene, Trimethylbenzenes, and Xylenes.

Based on the soil sampling results and overall stable to decreasing contaminant trends in groundwater (with the exception of MW-9), and no measurable free product recorded since January 2006, METCO recommends that the site be reviewed for the possibility of closure. If the WDNR determines that closure is a viable option at this time, METCO's costs to complete the closure workscope (following the U & C Schedule of charges) is as follows:

Primary Closure Request	$1,915.65
GIS Packet Submittal (including neighboring property)	$ 676.18
Well Abandonment	$1,364.70
Claim Submittal	$ 542.68
Total:	**$4,499.21**

However, due to the results of monitoring well MW-9, if the WDNR feels that additional groundwater monitoring will be required to bring this site to closure, please contact METCO for a workscope and cost estimate.

An Updated Site Layout Map, Groundwater Contour Maps, Groundwater Contamination Map, Data Tables, Mann-Kendall Statistical Analyses, Soil Boring Logs, Abandonment Forms, Laboratory Documents, and a U & C Closure Costs Form have been attached.

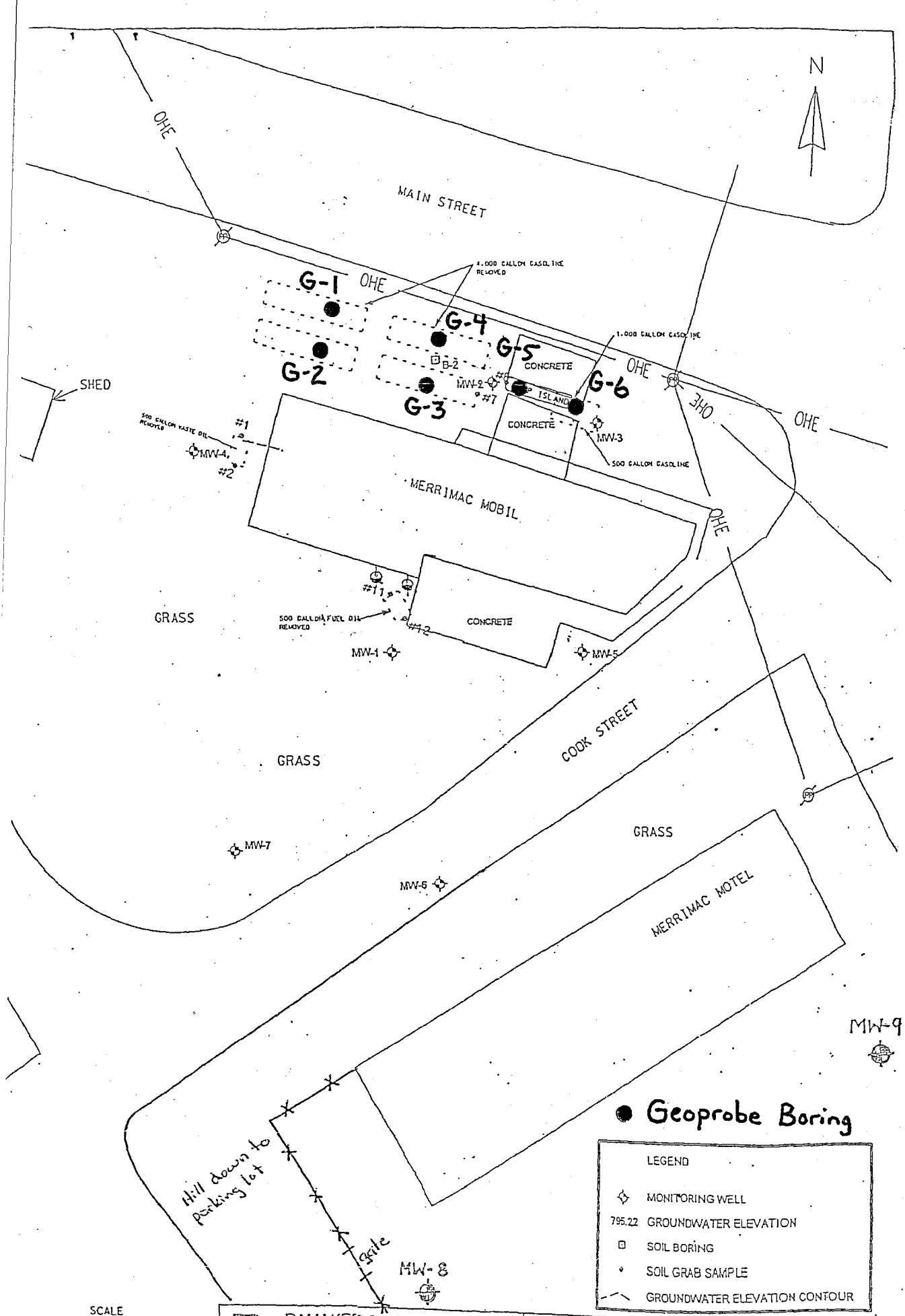
If you have any questions or comments please feel free to call (608-781-8879) or email at jasonp@metcohq.com.

Sincerely,

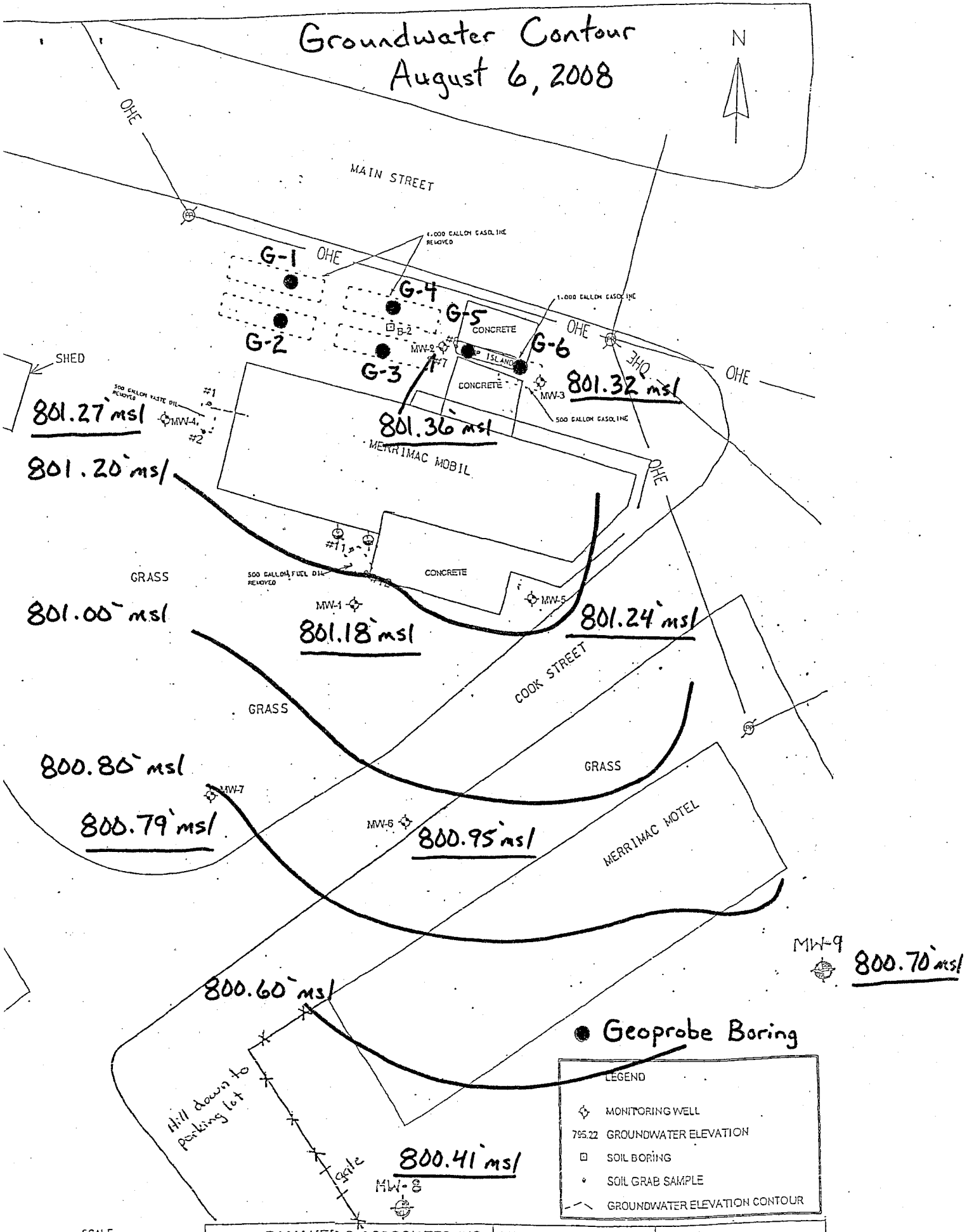
Jason T. Powell
Staff Scientist

Attachments

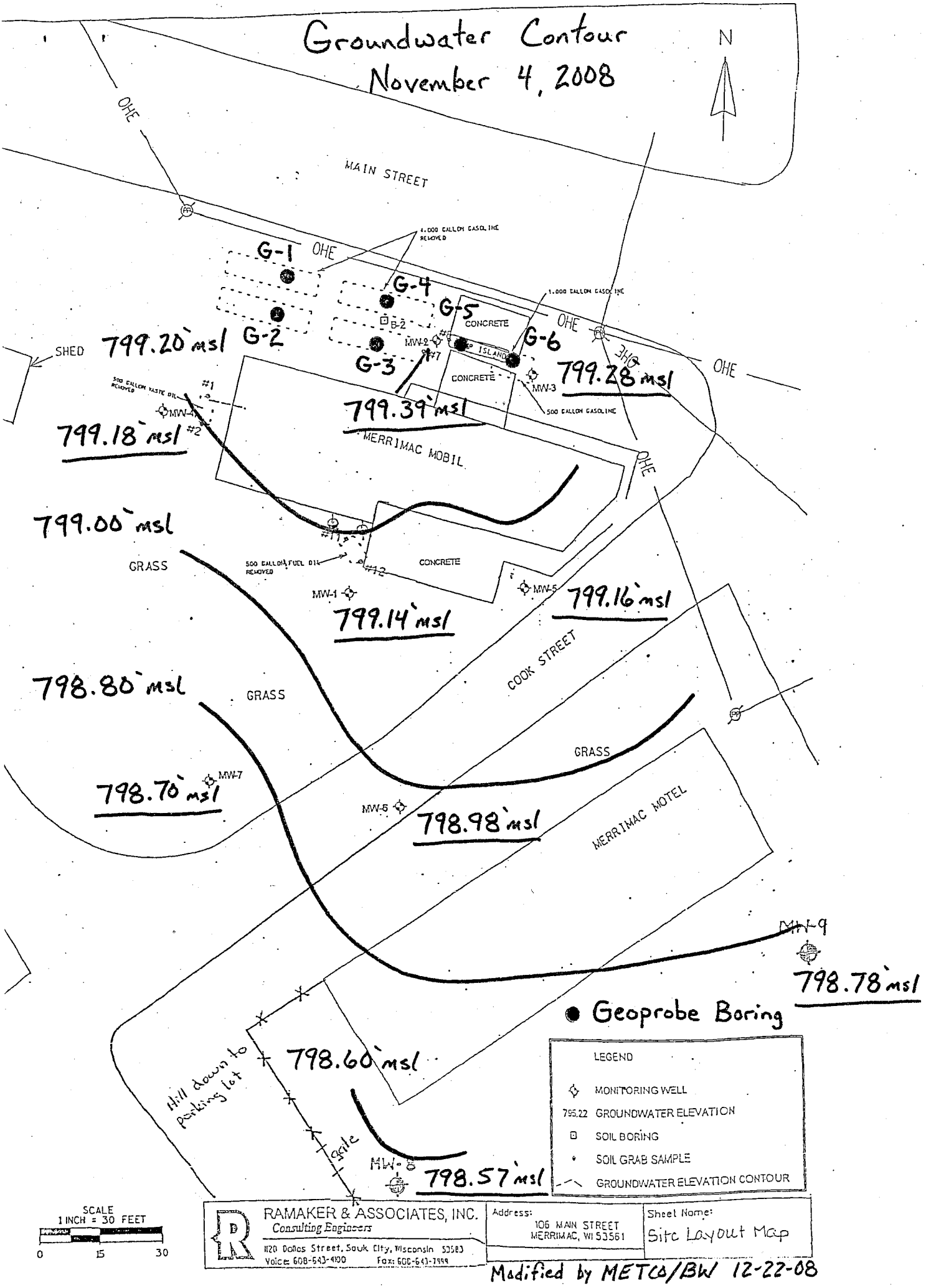
c: Louis Sylvester- Client
Ralph Smith - Commerce

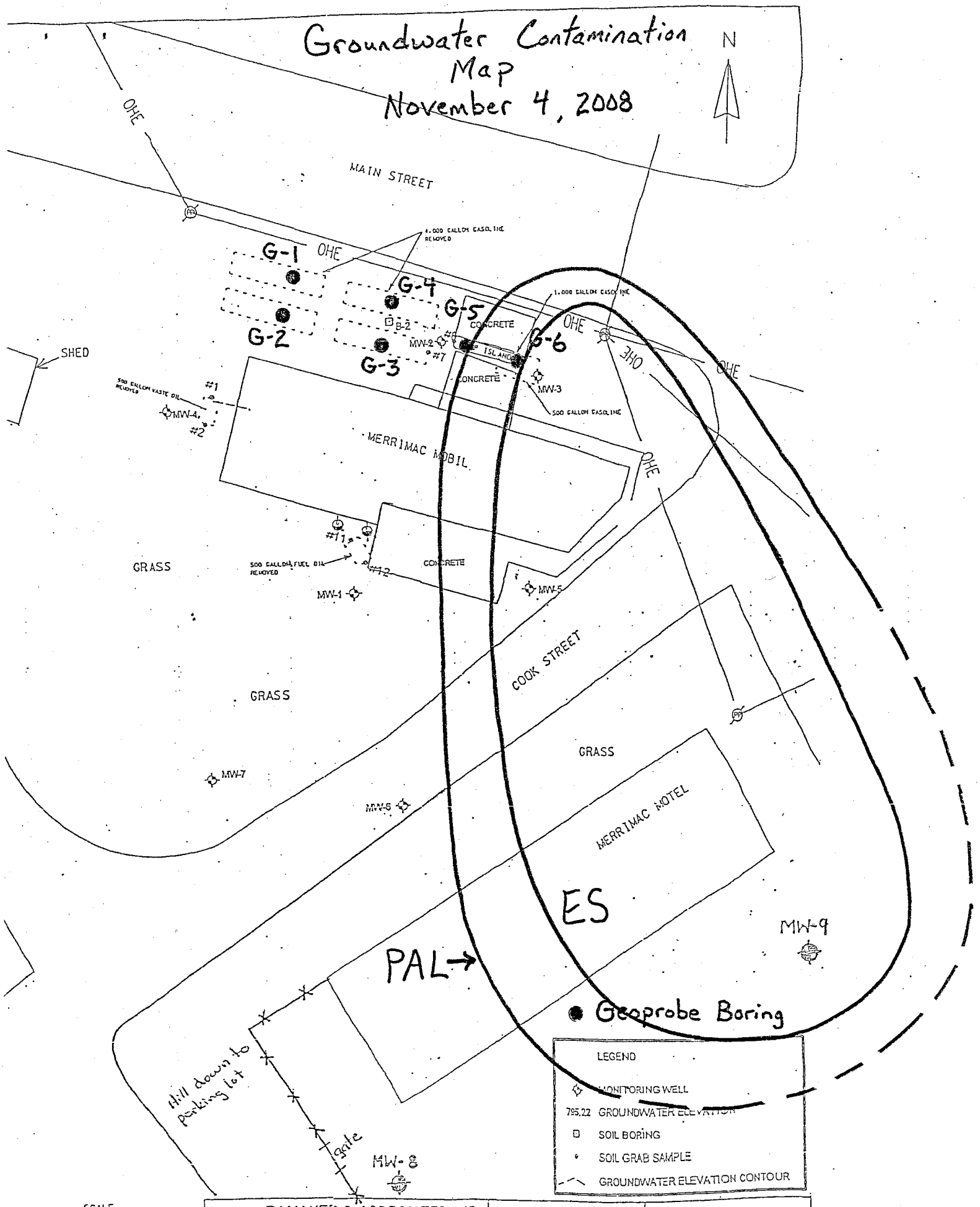


Modified by METCO/BW 12-22-08



Modified by METCO/BW 12-22-08


Groundwater Contour
November 4, 2008
N
MAIN STREET
OHE
G-1
G-2
G-3
G-4
G-5
G-6
4,000 GALLON GASOLINE REMOVED
1,000 GALLON GASOLINE
CONCRETE
B-2
MW-2
#7
ISLAND
MW-3
500 GALLON GASOLINE
799.20 msl
799.28 msl
799.39 msl
SHED
500 GALLON WASTE OIL REMOVED
#1
#2
MW-4
799.18 msl
MERRIMAC MOBIL
799.00 msl
GRASS
500 GALLON FUEL OIL REMOVED
#11
#12
CONCRETE
MW-1
799.14 msl
MW-5
799.16 msl
COOK STREET
798.80 msl
GRASS
GRASS
MW-7
798.70 msl
MW-6
798.98 msl
MERRIMAC MOTEL
MW-9
798.78 msl
Geoprobe Boring
798.60 msl
Hill down to parking lot
gate
MW-8
798.57 msl
LEGEND
MONITORING WELL
795.22 GROUNDWATER ELEVATION
SOIL BORING
SOIL GRAB SAMPLE
GROUNDWATER ELEVATION CONTOUR
SCALE
1 INCH = 30 FEET
0
15
30
RAMAKER & ASSOCIATES, INC.
Consulting Engineers
1120 Dallas Street, Sauk City, Wisconsin 53583
Voice: 608-643-4100 Fax: 608-643-7999
Address:
106 MAIN STREET
MERRIMAC, WI 53561
Sheet Name:
Site Layout Map
Modified by METCO/BW 12-22-08



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