



April 21, 2006

Michael J. Hinton, P.E.
Division of Environmental Remediation
New York State Department of Environmental Conservation
270 Michigan Ave.
Buffalo, NY 14203-2999

**Subject: Quarterly Groundwater Gauging Report
Booth Oil Site
North Tonawanda, New York
NYSDEC Site No. 9-32-100**

Mr. Hinton:

On behalf of the Booth Oil Site Administrative Group (BOSAG), AMEC Earth and Environmental, Inc. (AMEC) presents this *Quarterly Groundwater Gauging Report* for the above referenced site (**Figure 1**). The groundwater gauging event was performed on March 23, 2006. Work was performed according to the approved site Operations and Maintenance Plan. The following sections of this report discuss the observations and activities completed during the gauging event.

GROUNDWATER GAUGING

Shallow overburden monitoring wells MW-101 through MW-104 were gauged for depth-to-water and light non-aqueous phase liquid (LNAPL) measurements during the March 23, 2006 site visit. A summary of the gauging results is presented in **Table 1**.

The depth-to-water results of the gauging event were utilized to develop a groundwater contour map (**Figure 2**). As illustrated on **Figure 2**, groundwater during the March 2006 monitoring event was projected to flow towards the west-southwest.

No LNAPL was observed in any of the wells.

SURFACE SITE CONDITIONS

An inspection of the surface conditions at the Site was conducted during the March 23, 2006 gauging event.

The drainage ditches were generally unobstructed with minor erosion noted. The sediment control devices in the drainage ditches appear to be deteriorating and will be replaced prior to the next monitoring event.

A photographic log of the Site conditions has been included as **Attachment 1**.

SURFACE WATER SAMPLING

No surface water samples were collected during this quarterly monitoring period. It is anticipated that a sample will be collected before the next quarterly monitoring event, and the results will be presented in the June 2006 report.

SUMMARY

During the gauging event, no new erosional features were noted. In general, the Site appeared well maintained. Some of the sediment control devices near the catch basins appear to deteriorating and will be replaced.

The groundwater elevation data indicates groundwater flow is to the west-southwest. This is consistent with previous groundwater flow directions which generally range from southwest to northwest. No LNAPL was present in any of the wells gauged.

Should you have any questions or comments concerning this report, please contact me or Tim Ahrens at (518) 372-0905. I can also be contacted by email at Jeffrey.LaRock@amec.com and Tim Ahrens can be contacted by email at Tim.Ahrens@amec.com.

Sincerely,
AMEC Earth and Environmental Inc.



Jeffrey W. LaRock
Project Geologist

cc: BOSAG Steering Committee
BOSAG Technical Committee
Paul J. Kurzanski, CSXT
Gary Litwin, NYSDOH
Matthew J. Forcucci, NYSDOH

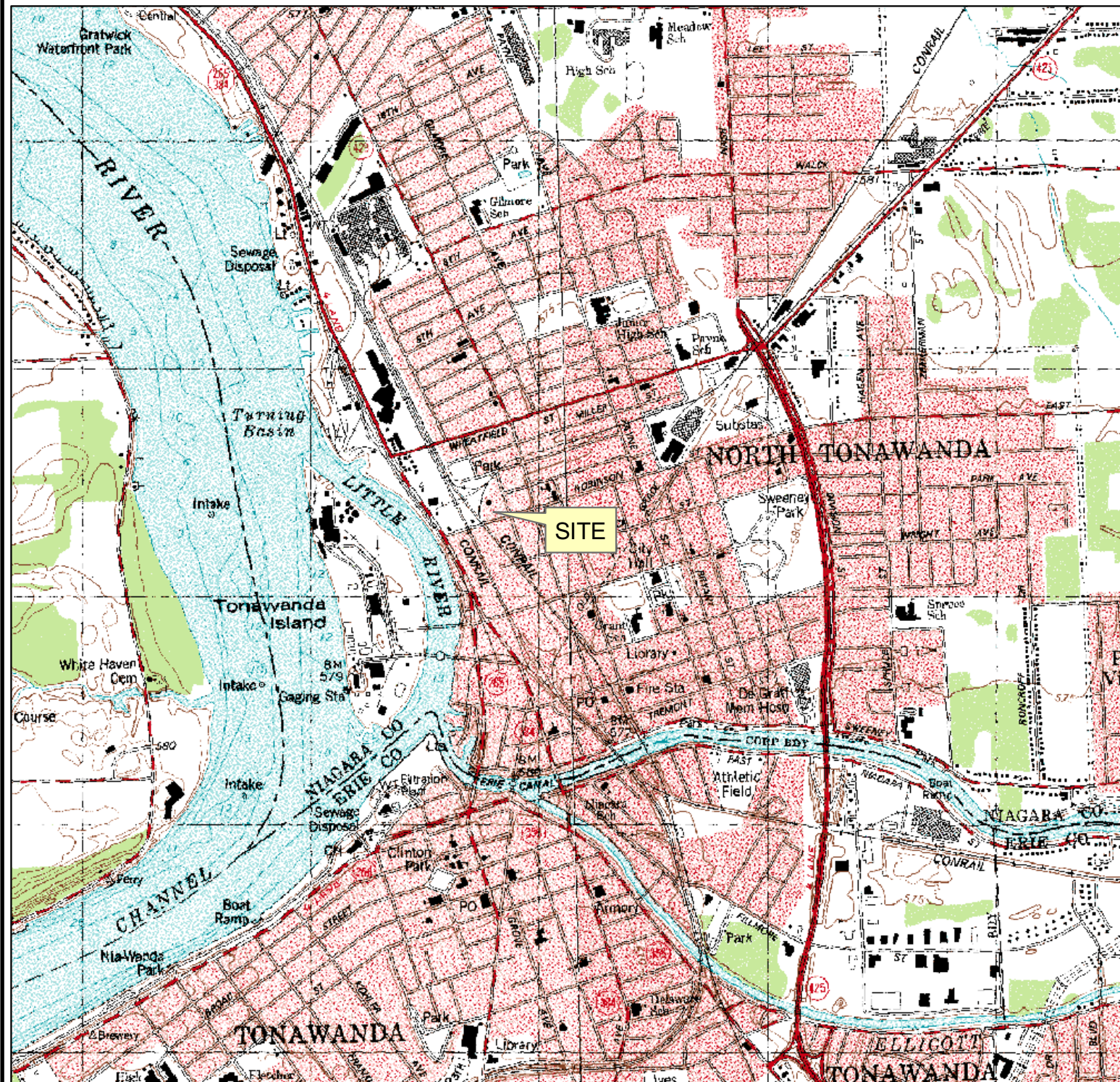
TABLES

Groundwater Gauging Results

Table 1

	Units	MW-101	MW-102	MW-103	MW-104
Top of Casing Elevation	ft-msl	579.2	579.66	579.84	580.6
Ground Surface Elevation	ft-msl	576.5	576.6	576.9	577.7
Stickup	feet	2.72	3.02	2.9	2.9
Depth to Top of Screen	ft-bgs	2.5	3	4.1	3.7
Top of Screen Elevation	ft-msl	574	573.6	572.8	574
Depth to Top of Clay	ft-bgs	4.9	6	6.5	5.9
Top of Clay Elevation	ft-msl	571.6	570.6	570.4	571.8
Depth to Bottom of Screen	ft-bgs	7.5	8	9.1	8.7
Bottom of Screen Elevation	ft-msl	569	568.6	567.8	569
18-Oct-04					
Depth to Groundwater	ft-toc	Dry	Dry	Dry	Dry
Groundwater Elevation	ft-msl	Dry	Dry	Dry	Dry
Depth to Groundwater	ft-bgs	Dry	Dry	Dry	Dry
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within Screened Interval?	--	--	--	--	--
Saturated Thickness above Clay	feet	0	0	0	0
13-Dec-04					
Depth to Groundwater	ft-toc	5.34	10.1	8.48	5.48
Groundwater Elevation	ft-msl	573.86	569.56	571.36	575.12
Depth to Groundwater	ft-bgs	2.62	7.08	5.58	2.58
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within Screened Interval?	--	Yes	Yes	Yes	No, High
Saturated Thickness above Clay	feet	2.28	-1.08	0.92	3.32
30-Mar-05					
Depth to Groundwater	ft-toc	4.51	8.39	Dry	Dry
Groundwater Elevation	ft-msl	574.69	571.27	Dry	Dry
Depth to Groundwater	ft-bgs	1.79	5.37	Dry	Dry
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within Screened Interval?	--	No, High	Yes	--	--
Saturated Thickness above Clay	feet	3.09	0.67	0	0
22-Jun-05					
Depth to Groundwater	ft-toc	6.77	6.75	8.5	8.59
Groundwater Elevation	ft-msl	572.43	572.91	571.34	572.01
Depth to Groundwater	ft-bgs	4.07	3.69	5.56	5.69
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within Screened Interval?	--	Yes	Yes	Yes	Yes
Saturated Thickness above Clay	feet	0.83	2.31	0.94	0.21
14-Sep-05					
Depth to Groundwater	ft-toc	6.69	10.37	8.76	9.63
Groundwater Elevation	ft-msl	572.51	569.29	571.08	570.97
Depth to Groundwater	ft-bgs	3.99	7.31	5.82	6.73
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within Screened Interval?	--	Yes	Yes	Yes	Yes
Saturated Thickness above Clay	feet	0.91	-1.31	0.68	-0.83
01-Dec-05					
Depth to Groundwater	ft-toc	4.55	10.6	8.55	6.35
Groundwater Elevation	ft-msl	574.65	569.06	571.29	574.25
Depth to Groundwater	ft-bgs	1.85	7.54	5.61	3.45
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within Screened Interval?	--	No, High	Yes	Yes	No, High
Saturated Thickness above Clay	feet	3.05	-1.54	0.89	2.45
23-Mar-06					
Depth to Groundwater	ft-toc	5.36	6.84	8.49	5.42
Groundwater Elevation	ft-msl	573.84	572.82	571.35	575.18
Depth to Groundwater	ft-bgs	2.66	3.78	5.55	2.52
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within Screened Interval?	--	Yes	Yes	Yes	No, High
Saturated Thickness above Clay	feet	2.24	2.22	0.95	3.38

FIGURES



**Public Safety
& Environment**

**Booth Oil Site
88 Robinson Street
North Tonawanda, NY
Site Location Map**

Niagara County New York

LOCATOR



NOTES & SOURCES

Quadrangle Name: Tonawanda East NY
Map Source Date: 1 July 1995
Source: USGS
Projection: NAD 83 UTM Zone 17N
Map Created: 4 May 2005

0 2,000
Feet



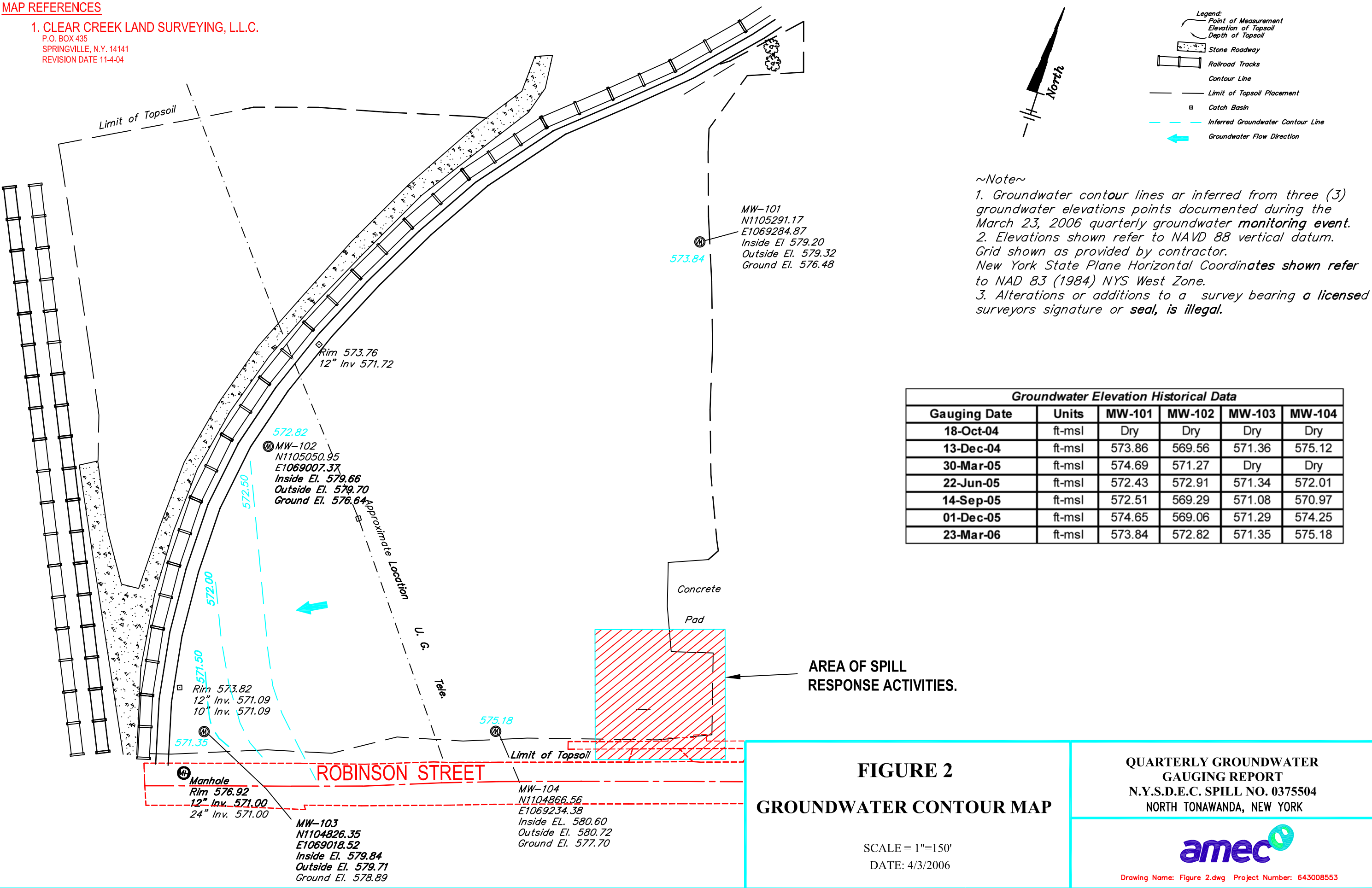
AMEC Earth & Environmental, Inc.
Westford, Massachusetts

FIGURE

1

MAP REFERENCES

1. CLEAR CREEK LAND SURVEYING, L.L.C.
P.O. BOX 435
SPRINGVILLE, N.Y. 14141
REVISION DATE 11-4-04



ATTACHMENTS



Photo # 1

Booth Oil Site, Facing Northwest



Photo # 2

Booth Oil Site, Facing South



155 Erie Blvd. Edison Plaza
Schenectady, New York 12305

W.O.	64300-8552
PROCESSED	JWL
DATE	March 2006
PAGE	1

BOOTH OIL
SITE RECONNAISSANCE
BUFFALO, NY
CSX TRANSPORTATION

PHOTOGRAPH LOG



Photo # 3

Booth Oil Site, Facing West.



Photo # 4

View of Drainage Ditch Facing East.



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W.O.	64300-8552
PROCESSED	JWL
DATE	March 2006
PAGE	2

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PHOTOGRAPH LOG



Photo # 5
View of the Site
Facing Northeast.



Photo # 6
View of the Site,
Facing Southwest.



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PROCESSED	JWL
DATE	March 2006
PAGE	3

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PHOTOGRAPH LOG