



May 9, 2007

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

**Subject: 2007 March Quarterly Report
Booth Oil Site
North Tonawanda, New York
NYSDEC Site No. 9-32-100**

Dear 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 28, 2007. 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) during the March 28, 2007 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 2007 monitoring event was projected to flow towards the west.

No LNAPL was observed in any of the wells.

SITE SURFACE CONDITIONS

An inspection of the surface conditions at the Site was also conducted during the March 28, 2007 gauging event.

No significant signs of erosion were noted, and the grass was well maintained. A photographic log of the Site conditions has been included as **Attachment 1**.

SUMMARY

The groundwater elevation data indicates groundwater flow is to the west. 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. In general, the Site appeared well maintained. During the gauging event, no new erosional features were noted.

Should you have any questions or comments concerning this report, please contact Tim Ahrens at (518) 372-0905 or by e-mail at tim.ahrens@amec.com.

Sincerely,
AMEC Earth and Environmental Inc.



Cristopher J. Schrader
Environmental Engineer



Timothy P. Ahrens
Project Manager

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

TABLES

GROUNDWATER GAUGING RESULTS

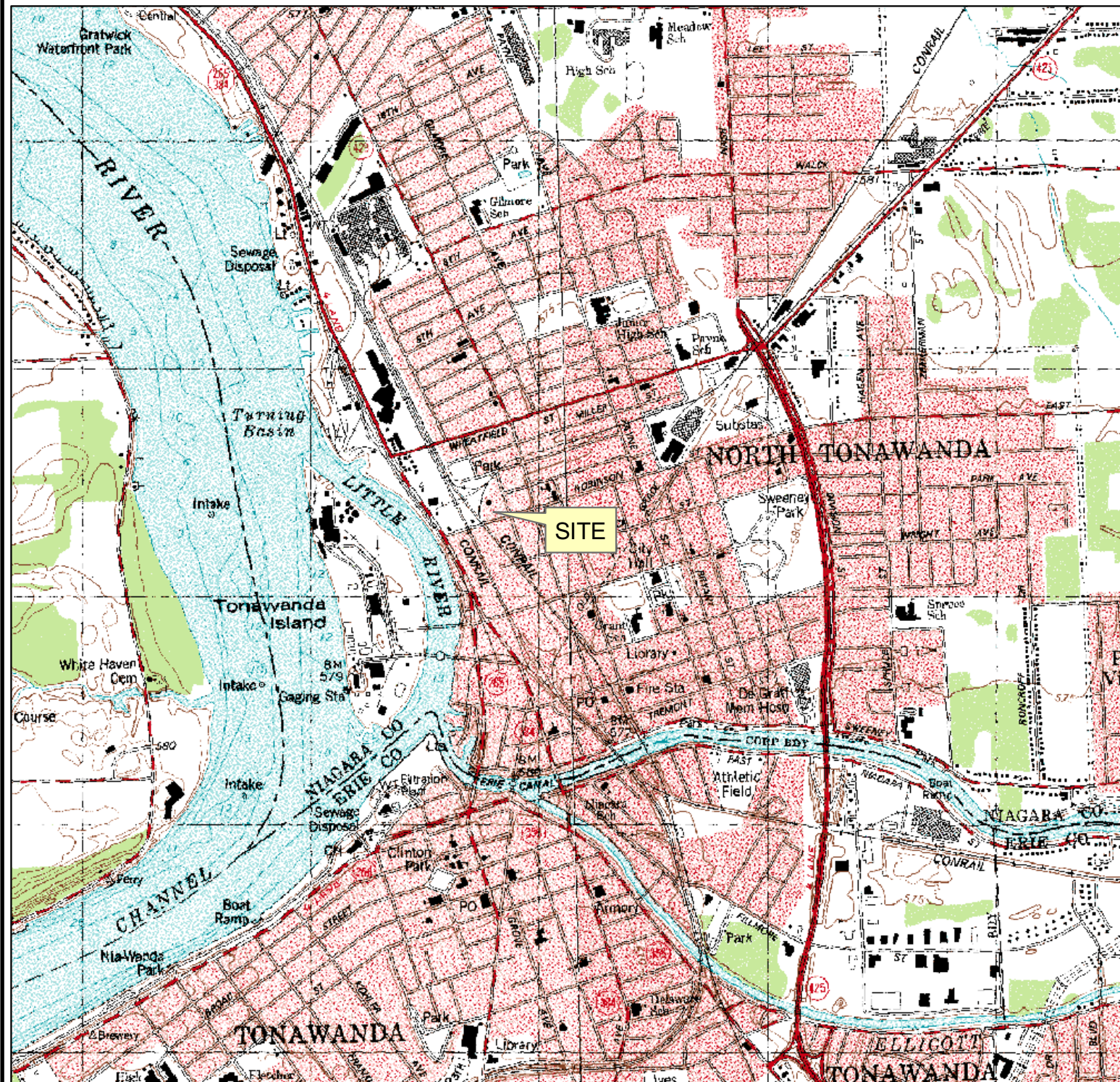
TABLE 1

	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

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
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
27-Jun-06					
Depth to Groundwater	ft-toc	6.92	7.54	8.59	9.12
Groundwater Elevation	ft-msl	572.28	572.12	571.25	571.48
Depth to Groundwater	ft-bgs	4.22	4.48	5.65	6.22
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within screened interval?	--	Yes	Yes	Yes	Yes
Saturated Thickness above Clay	feet	0.68	1.52	0.85	-0.32
26-Sep-06					
Depth to Groundwater	ft-toc	4.68	8.62	8.6	5.66
Groundwater Elevation	ft-msl	574.52	571.04	571.24	574.94
Depth to Groundwater	ft-bgs	1.98	5.56	5.66	2.76
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within screened interval?	--	No, High	Yes	Yes	No, High
Saturated Thickness above Clay	feet	2.92	0.44	0.84	3.14
18-Dec-06					
Depth to Groundwater	ft-toc	5.42	5.42	8.45	5.1
Groundwater Elevation	ft-msl	573.78	574.24	571.39	575.5
Depth to Groundwater	ft-bgs	2.72	2.36	5.51	2.2
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within screened interval?	--	Yes	No, High	Yes	No, High
Saturated Thickness above Clay	feet	2.18	3.64	0.99	3.7
28-Mar-07					
Depth to Groundwater	ft-toc	5.91	6.88	8.21	6.79
Groundwater Elevation	ft-msl	573.29	572.78	571.63	573.81
Depth to Groundwater	ft-bgs	3.21	3.82	5.27	3.89
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within screened interval?	--	Yes	Yes	Yes	Yes
Saturated Thickness above Clay	feet	1.69	2.18	1.23	2.01

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



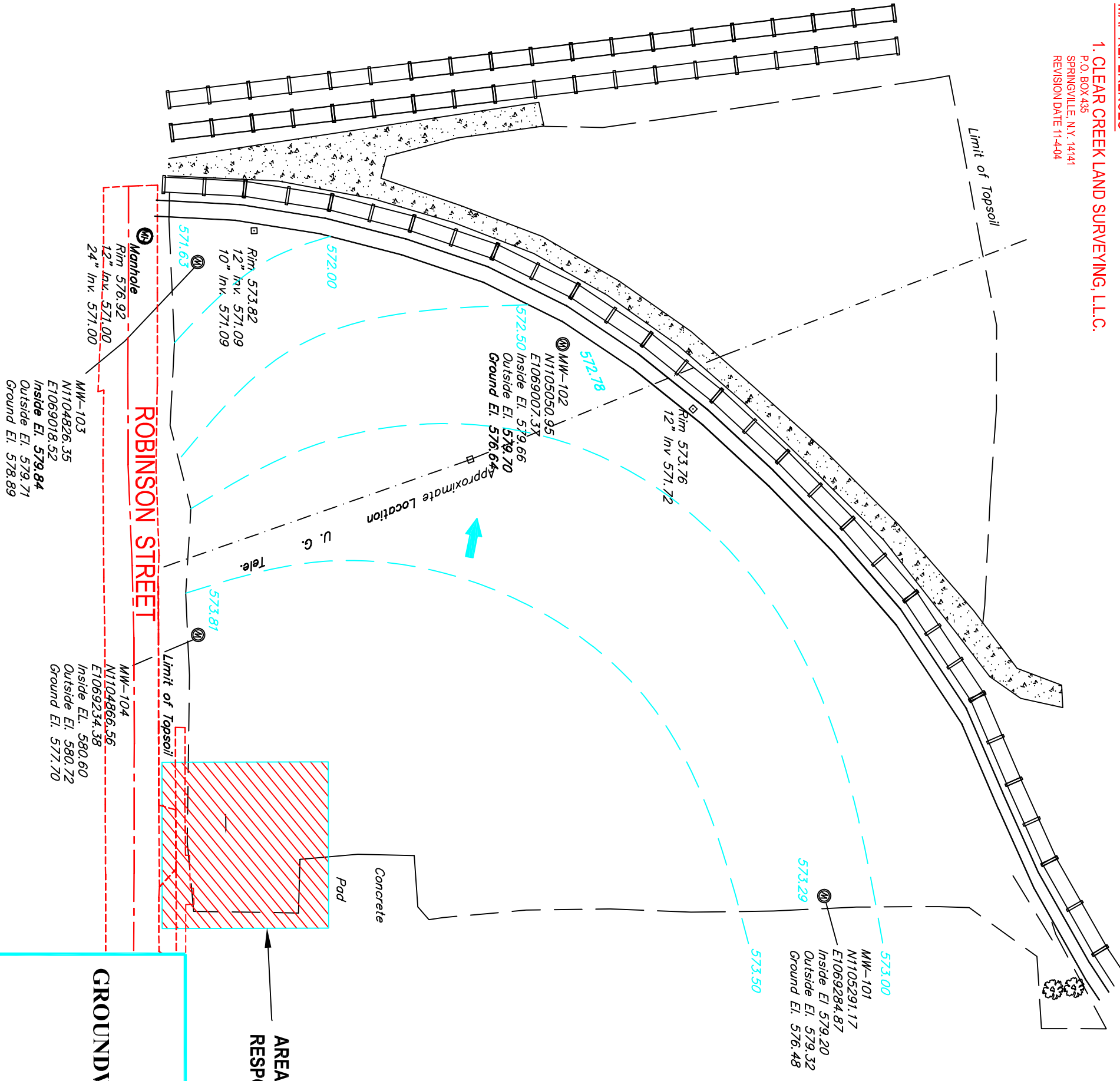
AMEC Earth & Environmental, Inc.
Westford, Massachusetts

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



Legend:

- Point of Measurement
- Elevation of Topsoil
- Depth of Topsoil
- Stone Roadway
- Railroad Tracks
- Contour Line
- Limit of Topsoil Placement
- Catch Basin
- Inferred Groundwater Contour Line
- Groundwater Flow Direction

- ~Note~
1. Groundwater contour lines are inferred from four (4) groundwater elevations points documented during the March 28, 2007 quarterly groundwater monitoring event.
 2. Elevations shown refer to NAVD 88 vertical datum.
 - Grid shown as provided by contractor.
 - New York State Plane Horizontal Coordinates shown refer to NAD 83 (1984) NYS West Zone.
 3. Alterations or additions to a survey bearing a licensed surveyors signature or seal, is illegal.

Groundwater Elevation Historical Data				
Gauging Date	Units	MW-101	MW-102	MW-103
18-Oct-04	ft-msl	Dry	Dry	Dry
13-Dec-04	ft-msl	573.86	569.56	571.36
30-Mar-05	ft-msl	574.69	571.27	Dry
22-Jun-05	ft-msl	572.43	572.91	571.34
14-Sep-05	ft-msl	572.51	569.29	571.08
01-Dec-05	ft-msl	574.65	569.06	571.29
23-Mar-06	ft-msl	573.84	572.82	571.35
27-Jun-06	ft-msl	572.28	572.12	571.25
26-Sep-06	ft-msl	574.52	571.04	571.24
18-Dec-06	ft-msl	573.78	574.24	571.39
28-Mar-07	ft-msl	573.29	572.78	571.63

FIGURE 2

GROUNDWATER CONTOUR MAP

SCALE = 1"=150'

DATE: 3/28/07

QUARTERLY GROUNDWATER GAUGING REPORT

N.Y.S.D.E.C. SPILL NO. 0375504

NORTH TONAWANDA, NEW YORK

amec

Drawing Name: Figure 2.dwg Project Number: 643008553

ATTACHMENTS



Photo 1

Entering the site Heading north toward MW-101



Photo 2

Facing west looking over the site



155 Erie Blvd. Edison Plaza
Schenectady, New York 12305

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PAGE 1

Booth Oil Site
North Tonawanda, NY
CSX Transportation, Inc.
Jacksonville, FL



Photo 3

Facing northeast
toward MW-101



Photo 4

Drainage pipe
extending southward
from the tracks



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Photo 5

Facing southwest
toward MW-103



Photo 6

Facing east toward
MW-104



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PAGE 3

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