Glenn Springs Holdings, Inc.

Roger F. Smith, P.G.
Project Manager
Direct Dial (972) 687-7516

5005 LBJ Freeway, Suite 1350
Dallas, TX 75244-6119
Facsimile (972) 687-7524

April 15, 2013

Mr. Thomas Taccone
Western New York Remediation Section
Emergency and Remedial Response Division
United States Environmental Protection Agency - Region II
290 Broadway, 20th Floor
New York, NY 10007-1866

Dear Mr. Taccone:

Re: Quarterly Report – First Quarter 2013 (January through March)
Administrative Orders Hooker Chemical/Ruco Polymer Corporation Site
Index Nos. II-CERCLA-80216, II-CERCLA-94-0210, and II-CERCLA-02-2001-2018

This submittal provides the Quarterly Progress Report covering January through March 2013 for the Hooker/Ruco Site in Hicksville, New York. This Report covers OU-1, OU-2, and OU-3. Please note that the next Quarterly Progress Report will be submitted by July 15, 2013 and will cover April through June 2013.

QUARTERLY PROGRESS REPORT

The following activities were performed during the period January through March 2013.

The Quarterly Progress Report for the time period October through December 2012 was submitted to the USEPA on January 10, 2013.

Operable Unit 1 (On-Site Soil)

All work has been successfully completed. OU-1 is closed.

Operable Unit 2 (Soils Impacted by On-Site Release of PCBs)

All work has been successfully completed. OU-2 is closed.

Operable Unit 3 (Off-Site Groundwater)

Supplemental Treatment System

i) Operation and monitoring of the GP-1/GP-3 supplemental air treatment system continued

ii) The carbon bed was changed out on January 3 and March 28

iii) Evaluations of possible upgrade alternatives for the supplemental treatment system are ongoing

Biosparge System

See Figures 1 and 2 for system layout and Figures 3 and 4 for system cross-sections.

The expanded biosparge system continued full-time operation to January 8, 2013. Air injection was stopped on January 8 in preparation for the January 2013 biosparge system performance monitoring event and was restarted on February 25 after retrieval of the last sampler. Air injections were stopped on March 15 in preparation for the well rehabilitation work. Air injection is scheduled to restart on April 1, 2013.

Startup activities for the recently completed construction expansion of the biosparge injection well network identified five air injection wells which were not accepting air at the design flow rate of 100 scfm. A decision was made to attempt to rehabilitate these identified wells using an acid wash material. Other maintenance work was also planned for some of the other wells. EPA approval of the rehabilitation material proposed for use at the Site was received on January 31. Notification of the well rehabilitation work was submitted to the EPA on February 25. The selected contractor (i.e., AmeriDrill) mobilized to the site on March 18 and completed the work on March 29, 2013. In summary, the work performed included:

- Injection wells rehabilitated: IW-19D2 and IW-22D2
- Injection wells found to have obstructions: IW-16D1, IW-17D2, IW-18D2, and IW-19D1 (these obstructions partially impede the air flow to the wells but do not render the wells inoperable)
- Monitoring wells located/rebuilt: MW-63, MW-66D2
- Monitoring wells located and not rebuilt: MW-66I/D1
- Gravity drain installed in IW-6 to allow infiltrating water to exit the vault
- Wastewater discharged to POTW: 3,150 gallons

Analytical results for the wastewater (attached) were provided to the Nassau County Department of Public Works and approval for discharge of the wastewater was granted.

The PDB/HydraSleeve samplers for the January 2013 quarterly performance monitoring event were inserted on January 9 and 10, 2013. Samplers were inserted in 25 groundwater monitoring wells. The biosparge system was shut down on January 8 in preparation for the sampling

event. Retrieval of the samplers started on February 4 and was completed on February 13. The analytical results and QA/QC review are attached.

In addition, soil vapor samples were collected from 14 vadose zone wells on February 6, 2013.

EPA concurrence was received on February 26, 2013 for the subset of GSHI's wells for which stratigraphic logs are to be submitted in the EPA's electronic format. The electronic data deliverable (EDD) was submitted to the EPA on March 12, 2013. An expanded EDD with additional well details was submitted on March 20, 2013.

A request was submitted on February 22 to the Nassau County Department of Public Works for renewal of the permit to discharge water from the biosparge system to the Cedar Creek POTW. A 3-year permit was received on March 12, 2013 (copy attached).

Notification of the April 2013 biosparge system performance monitoring event was submitted to the EPA on March 17, 2013. The wells to be sampled and analyzed include well nests MW-63 and MW-64 as requested by the EPA on October 4, 2012. In addition, additional wells will be sampled and analyzed to obtain a current overview of the conditions of the VCM plume.

SUMMARY OF BIOSPARGE PILOT SYSTEM

The dissolved oxygen (DO), total volatile organic compounds (TVOC), and vinyl chloride monomer (VCM) concentration trends for the individual groundwater monitoring wells around the biosparge injection system are shown on Figures 5 through 23. To date, the results show that the biosparge system is operating successfully as demonstrated by the following:

i. DO levels in the groundwater have increased and, in general, are greater than the target concentration of 2 milligrams per liter (mg/L), including the DO levels all of the north fence monitoring wells

ii. Groundwater VCM concentrations are decreasing in all of the Pilot System wells and in 12 of the 24 monitoring wells for the expanded biosparge system as a result of the microbial biodegradation processes. The VCM concentrations, which are currently fluctuating, in the remaining 12 wells for the expanded system are expected to decrease with time. Such fluctuations in the short term after the start of air injection prior to decreases in the long term are similar to the pattern observed in some of the Pilot System wells during the initial year of air injection.

Review of the DO in the monitoring wells down gradient of the injection wells which have partial restrictions shows that the DO is either holding relatively constant or slowly decreasing. For all monitoring wells, the DO it is still 5 mg/L or greater which is more than the DO target level of 2 mg/L. Thus, the current weekly 8-hour injection of air in the operating wells is sufficient. Consequently, at this time, there is no need for any further rehabilitation of these wells. If the DO concentration drops below 2 mg/L, additional rehabilitation measures will be evaluated including the possibility of lengthening the injection period, injecting more than once per week, or both.

As part of the biosparge system monitoring, soil vapor samples were collected and analyzed. The primary VOCs detected are listed in Table 3. Review of these results show that VCM was detected at low level concentrations (5 ppbv or less) in three of the seven deep vadose zone wells and was non-detect in the other deep wells. VCM was not detected in any of the seven shallow vadose zone wells.

PLANNED SECOND QUARTER 2013 ACTIVITIES

The following activities are planned for the second quarter of 2013:

i) Continue operation and monitoring of the GP-1/GP-3 supplemental air treatment system.

ii) Perform the second 2013 quarterly biosparge system performance monitoring event. PDB/HydraSleeve insertion is scheduled to start on April 8 with retrieval planned to start the week of April 22, 2013.

iii) Change-out of the supplemental treatment system potassium permanganate bed is planned for the week of April 22, 2013.

iv) Change-out of the supplemental treatment system carbon bed is planned for the week of June 17, 2013.

v) Continue the weekly 8-hour air injections for the entire biosparge system and monitor the conditions experienced at the partially obstructed wells. It is noted that air injections will be temporarily suspended during the April 2013 performance monitoring event.

Should you have any questions on the above, please do not hesitate to contact me at (972) 687-7516 or e-mail at Roger_Smith@oxy.com.

Yours sincerely,

Roger Smith
Senior Project Manager

KDS/lp/39
Encl.

cc: P. Mannino (USEPA)
M. E. Wieder (USEPA)
S. Scharf (NYSDEC – PDF on CD)
M. Popper (CDM)
T. Kelly (Nassau County)
D. Schnelzer (Bayer)
J. Kay (CRA)

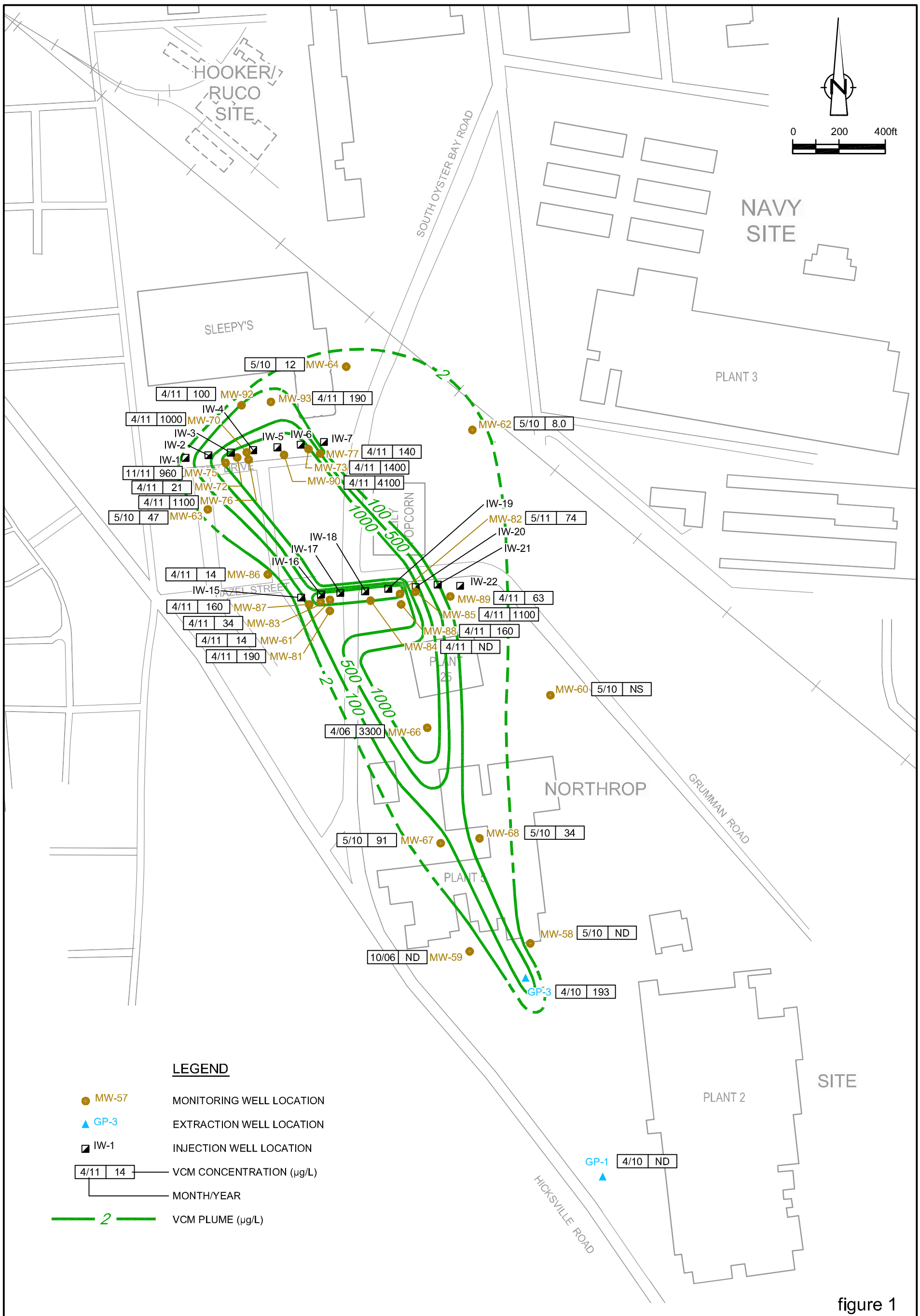


figure 1

RECENT VCM GROUNDWATER CONCENTRATIONS
Hooker/Ruco Site, Hicksville, New York

06883-D23102(TACC039)GN-WA001 APR 3/2013

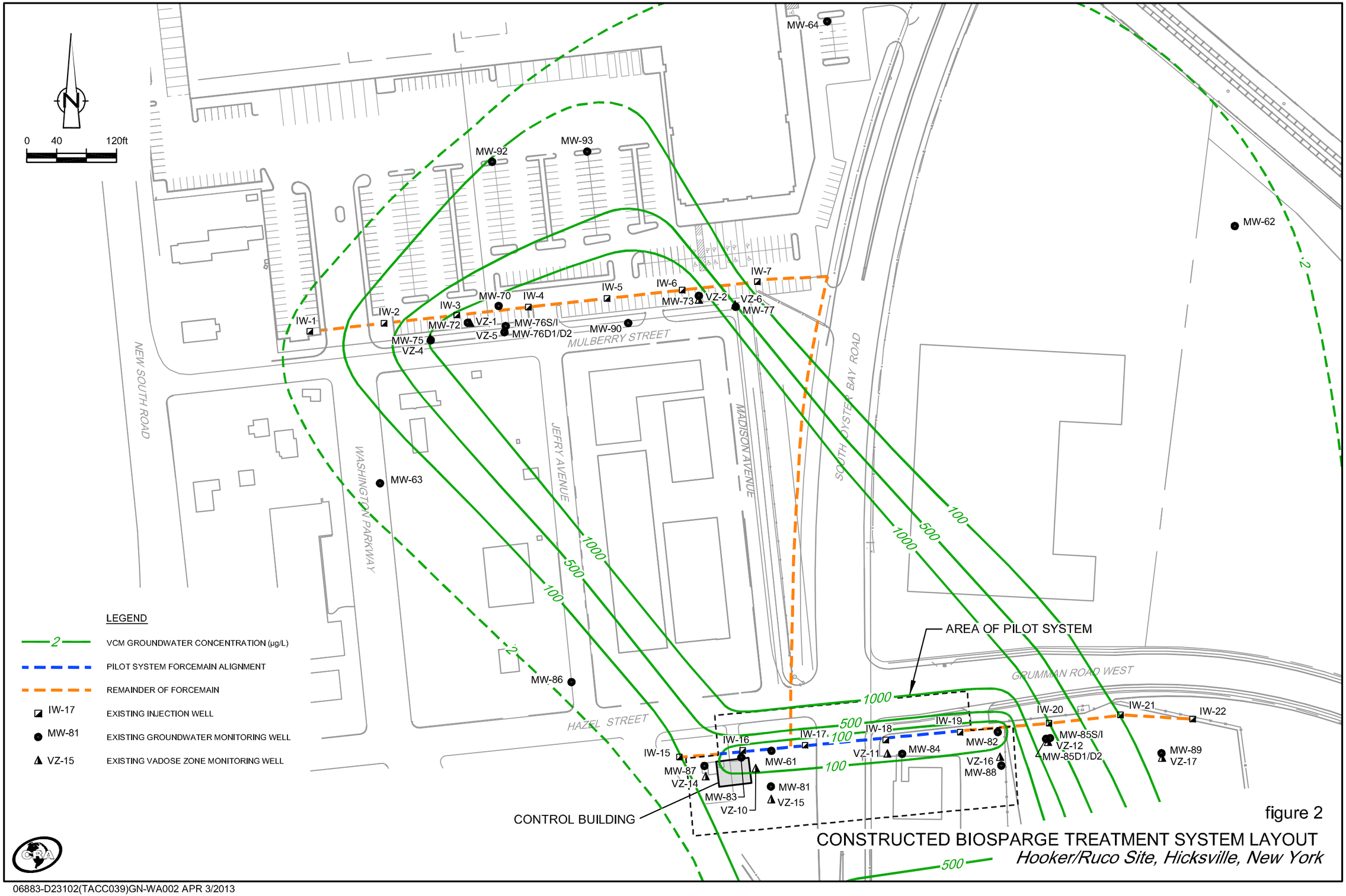


figure 2

CONSTRUCTED BIOSPARGE TREATMENT SYSTEM LAYOUT

Hooker/Ruco Site, Hicksville, New York

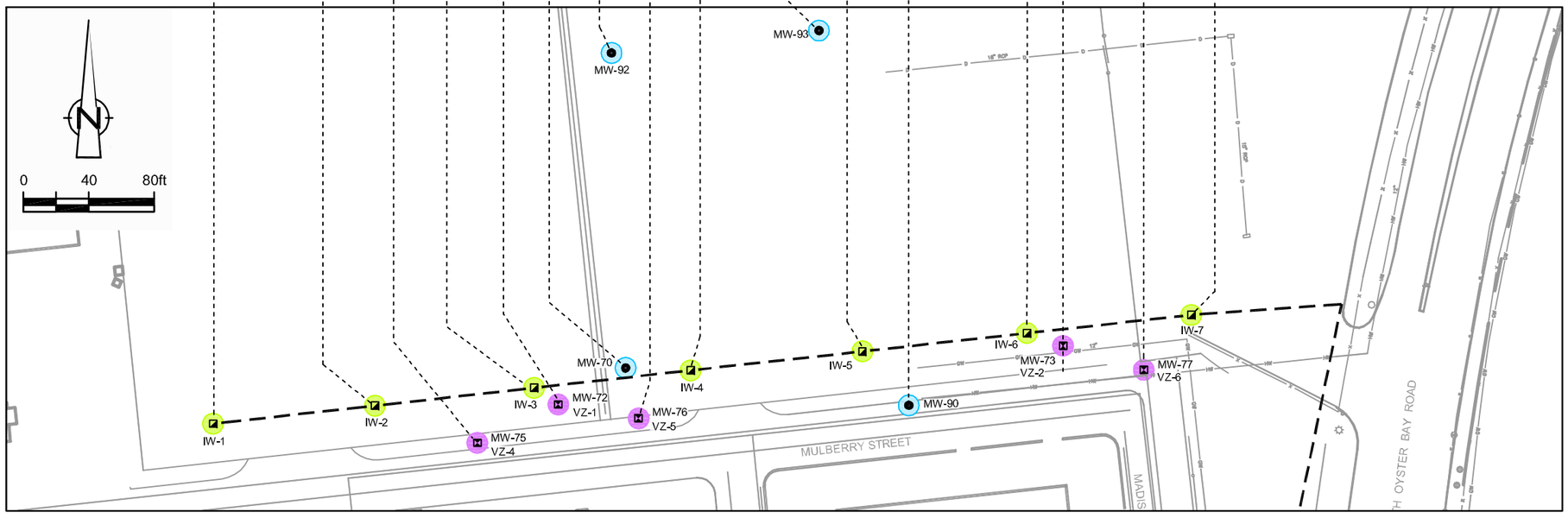
06883-D23102(TACC039)GN-WA002 APR 3/2013

DEPTH (ft. BGS)

IW-1 | IW-2 | MW-75 | IW-3 | MW-72 | MW-70 | MW-92 | MW-76 | IW-4 | MW-93 | IW-5 | MW-90 | IW-6 | MW-73 | MW-77 | IW-7 | GP-6 | GP-3 | GP-1

100 / 150 / 200 / 250 / 300 / 350 / 400 / 450 / 500 / 550 / 600

IW-1: 70 71 93 | ND 6 15 | ND ND ND | ND 42 4 | ND 80 7 | ND ND ND
IW-2: 150 28 46 | 93 17 27 | 54 3 4 | ND 15 2 | ND 57 10 | ND 220 83
MW-75: 2 ND ND | ND ND ND | ND ND 16 | ND 10 830 | ND 41 130 | ND 46 30
IW-3: 72 ND ND | 39 ND 2 | 12 3 15 | 760 5 8 | ND 41 130 | ND 39 38 | ND 46 30
MW-72: 760 5 8 | 5 ND 3 | ND 3 3 | ND 3 180 | ND 39 38 | ND 110 90
MW-70: 47 ND ND | 60 3 15 | 1100 25 43 | ND 6 ND 3 | ND 16 28
MW-92: 7 ND ND | 14 1 ND | ND 1 11 | ND 13 940 | ND 9 640
MW-76: 270 ND ND | 66 3 14 | 2100 83 95 | ND 130 81 | ND 8 2
IW-4: 120 ND ND | 32 ND 14 | 810 11 32 | ND 9 13 | ND 3 53
MW-93: ND ND ND | 41 11 41 | ND 65 63 | ND 35 1700 | ND 33 2600
IW-5: ND ND ND | ND ND ND | 42 ND 3 | 630 10 11 | ND 27 5300 | ND ND 76
MW-90: ND ND ND | 390 16 18 | ND ND ND | ND 13 14 | ND 1400 150
IW-6: 39 1 19 | 370 ND 3 | ND ND 3200 | ND 180 500
MW-73: ND ND ND | 8 ND ND | ND 31 3400 | ND 150 57
MW-77: ND ND ND | 16 ND ND | 380 19 20 | ND 290 100
IW-7: 1 ND 2 | ND ND 130 | ND ND 4 | 44 1 7 | ND 55 1400 | ND 46 91



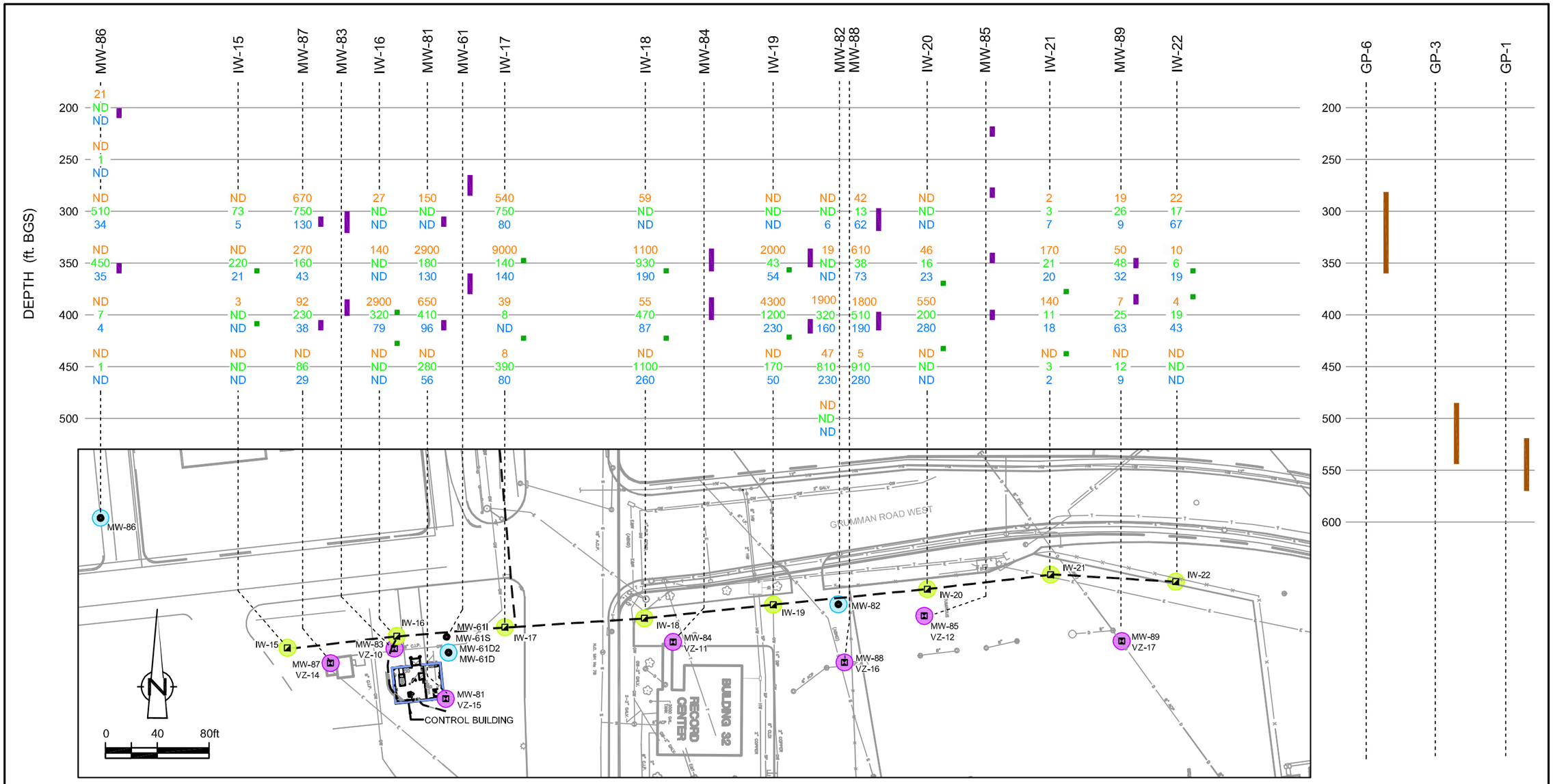
LEGEND

- FORCEMAIN ALIGNMENT
- MW-90 — GROUNDWATER MONITORING WELL LOCATION
- IW-4 — INJECTION WELL LOCATION
- MW-76 VZ-5 — GROUNDWATER AND VADOSE ZONE MONITORING WELL LOCATION
- AIR INJECTION WELL SCREENED INTERVAL
- GROUNDWATER MONITORING WELL SCREENED INTERVAL
- PUMPING WELL SCREENED INTERVAL
- 670 HYDROPUNCH VCM CONCENTRATION (ppb)
- 750 HYDROPUNCH TCE CONCENTRATION (ppb)
- 130 HYDROPUNCH PCE CONCENTRATION (ppb)

figure 3

NORTH FENCE AIR INJECTION AND GROUNDWATER MONITORING WELL SCREENED INTERVALS

Hooker/Ruco Site, Hicksville, New York



LEGEND

- FORCEMAIN ALIGNMENT
- MW-61 — GROUNDWATER MONITORING WELL LOCATION
- IW-8 — INJECTION WELL LOCATION
- MW-80 VZ-9 — GROUNDWATER AND VADOSE ZONE MONITORING WELL LOCATION
- AIR INJECTION WELL SCREENED INTERVAL
- GROUNDWATER MONITORING WELL SCREENED INTERVAL
- PUMPING WELL SCREENED INTERVAL
- 670 — HYDROPUNCH VCM CONCENTRATION (ppb)
- 750 — HYDROPUNCH TCE CONCENTRATION (ppb)
- 130 — HYDROPUNCH PCE CONCENTRATION (ppb)

figure 4

MIDDLE FENCE AIR INJECTION AND GROUNDWATER MONITORING WELL SCREENED INTERVALS

Hooker/Ruco Site, Hicksville, New York

AIR INJECTIONS

IW16-D2A
IW17-D2A
IW16-D1A/L
IW17-D1A

CHEMICAL CONCENTRATIONS (µg/L)

DISSOLVED OXYGEN (mg/L)

>20

TVOCs
VCM
DO
MW-61D1
MW-61D2

figure 5

WELL NEST MW-61
CHEMICAL CONCENTRATION PLOTS
MIDDLE INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

06883-D23102(TACC039)GN-WA005 APR 3/2013

AIR INJECTIONS

IW16-D2A
IW17-D2A
IW16-D1A/L
IW17-D1A

CHEMICAL CONCENTRATIONS (µg/L)

DISSOLVED OXYGEN (mg/L)

>20

TVOCs
VCM
DO
MW-81D1
MW-81D2

figure 6

WELL NEST MW-81
CHEMICAL CONCENTRATION PLOTS
MIDDLE INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

AIR INJECTIONS

IW19-D2A
IW19-D1A
IW20-D2A
IW20-D1A

CHEMICAL CONCENTRATIONS (µg/L)

DISSOLVED OXYGEN (mg/L)

>20

TVOCs
VCM
DO
MW-82D1
MW-82D2

figure 7

WELL NEST MW-82
CHEMICAL CONCENTRATION PLOTS
MIDDLE INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

06883-D23102(TACC039)GN-WA007 APR 3/2013

AIR INJECTIONS

IW16-D2A
IW16-D1A/L

CHEMICAL CONCENTRATIONS (µg/L)

DISSOLVED OXYGEN (mg/L)

>20 >20 >20 >20 20 >20

TVOCs
VCM
DO
MW-83D1
MW-83D2

figure 8

WELL NEST MW-83
CHEMICAL CONCENTRATION PLOTS
MIDDLE INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

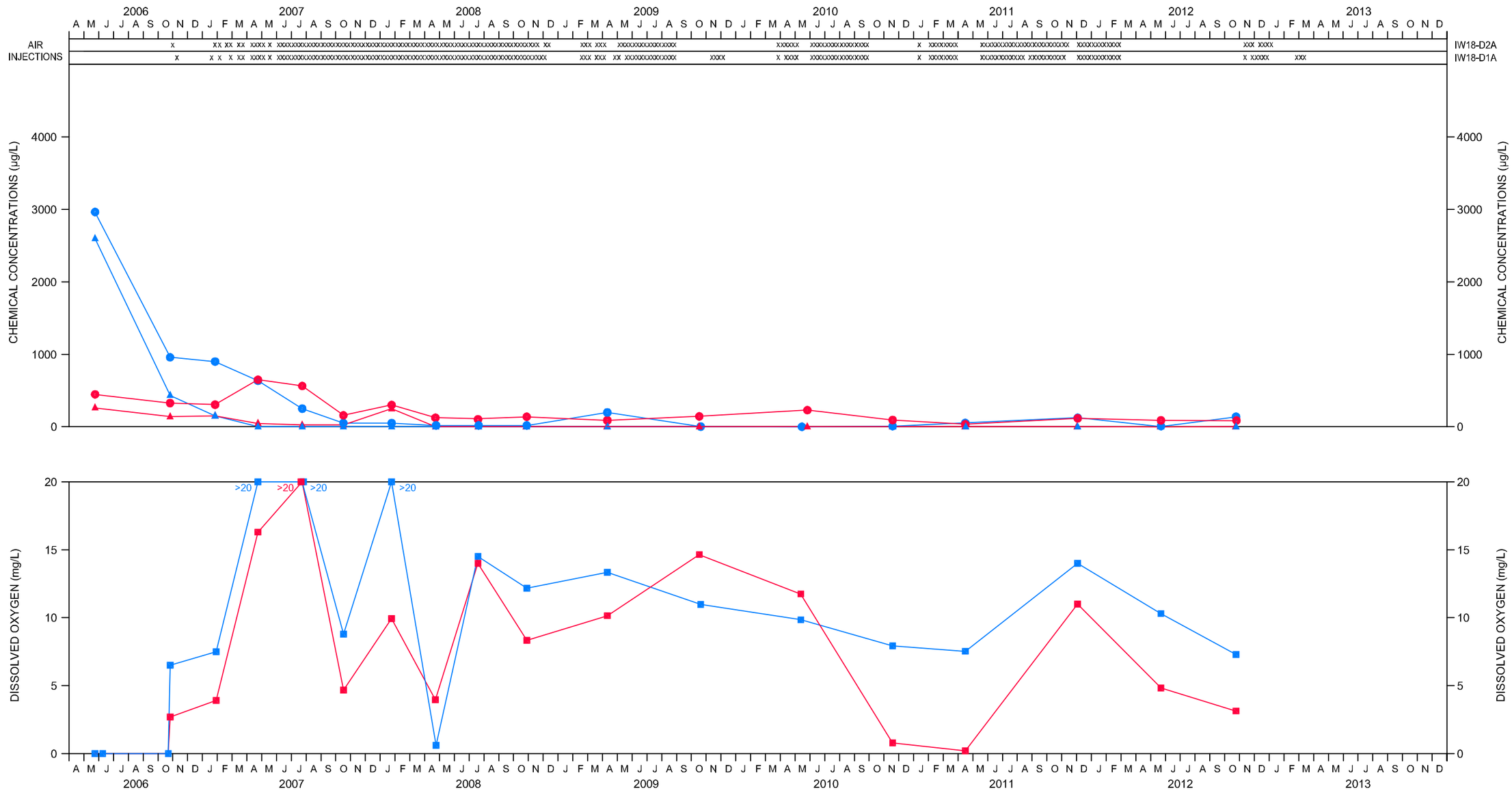


figure 9

WELL NEST MW-84
CHEMICAL CONCENTRATION PLOTS
MIDDLE INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

AIR INJECTIONS

IW16-D2A
IW16-D1A/L
IW15-D2A
IW15-D1A

CHEMICAL CONCENTRATIONS (µg/L)

DISSOLVED OXYGEN (mg/L)

>20

TVOCs
VCM
DO
MW-87D1
MW-87D2

figure 10

WELL NEST MW-87
CHEMICAL CONCENTRATION PLOTS
MIDDLE INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

06883-D23102(TACC039)GN-WA010 APR 3/2013

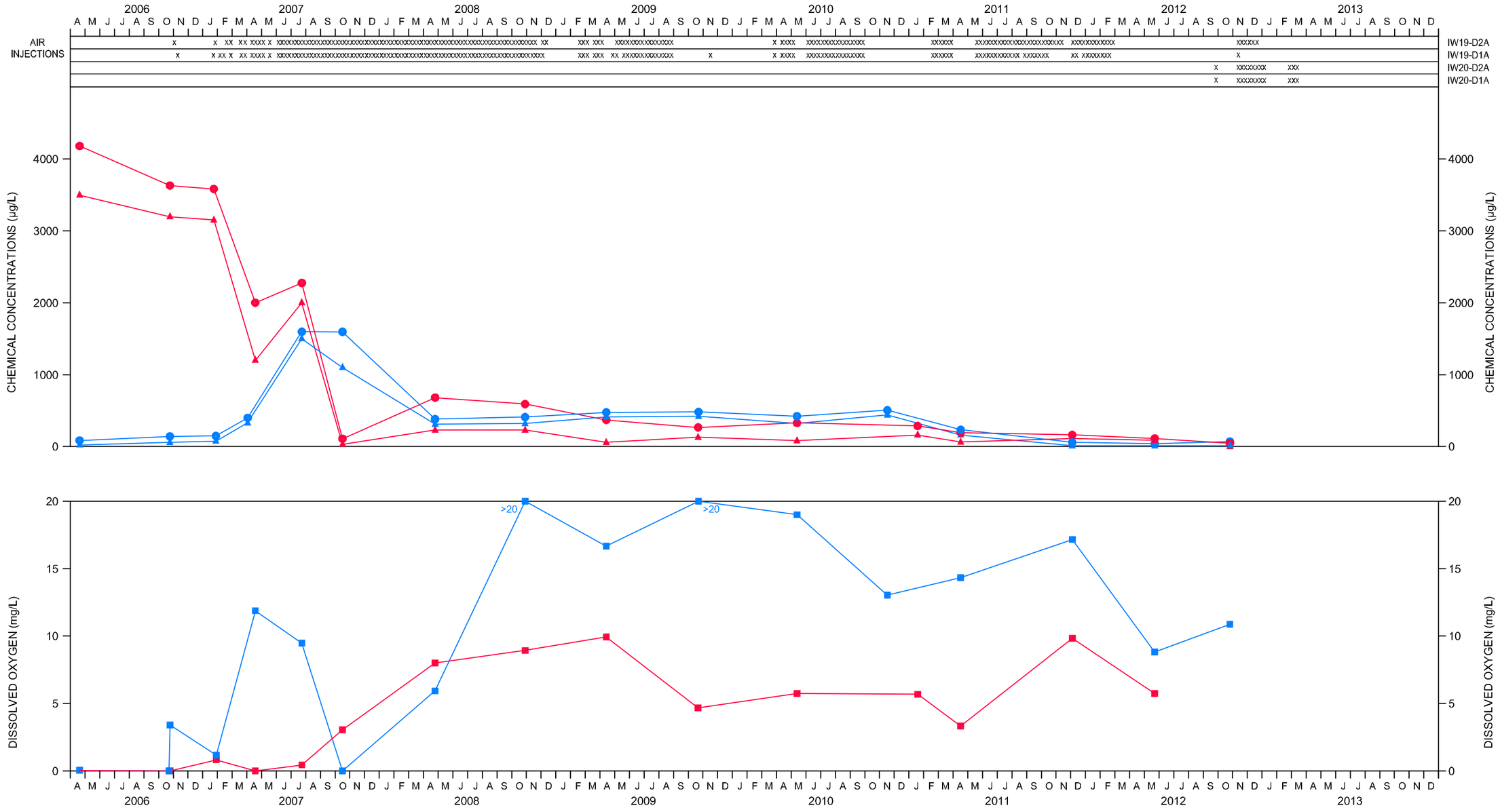


figure 11

WELL NEST MW-88
CHEMICAL CONCENTRATION PLOTS
MIDDLE INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

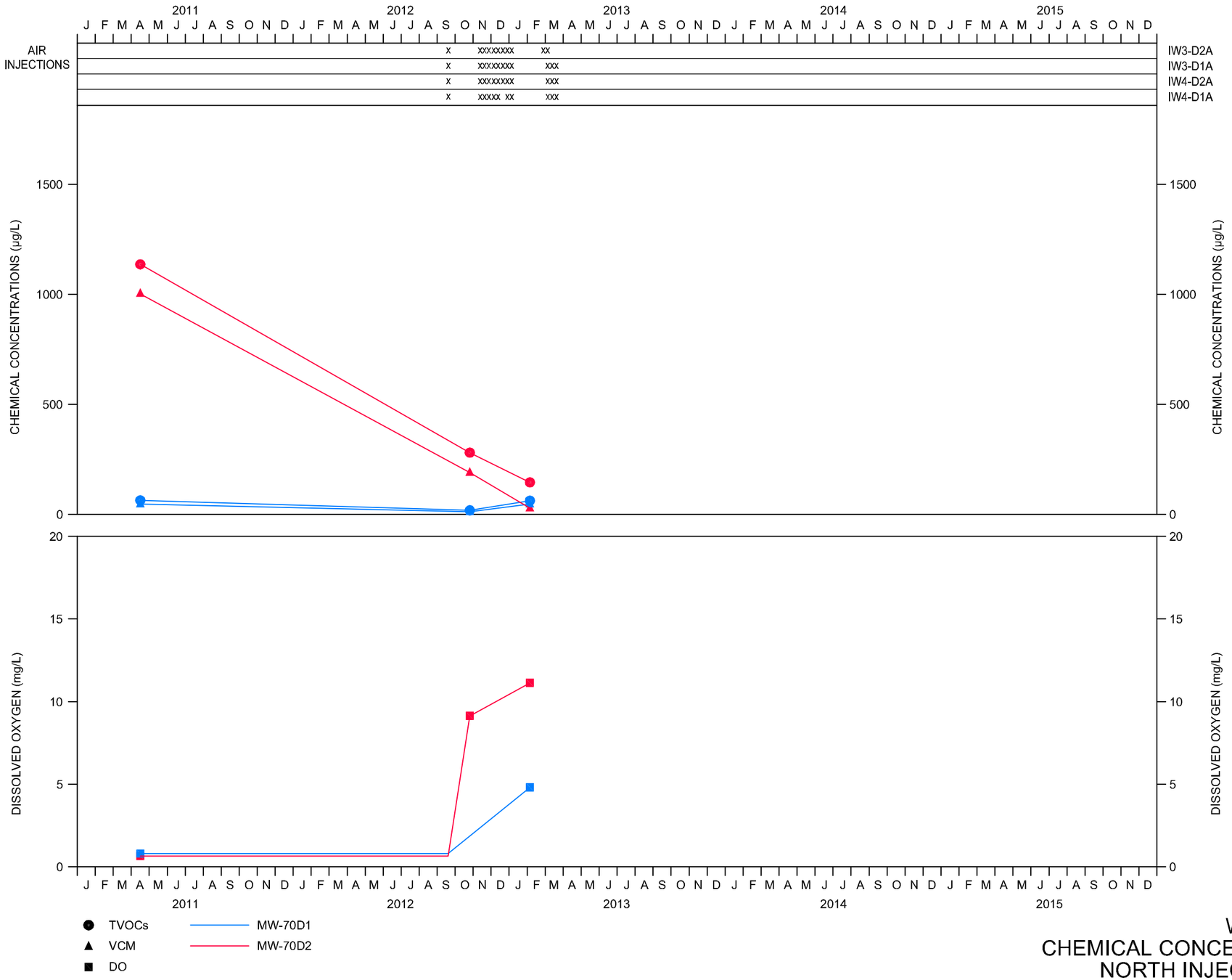


figure 12

WELL NEST MW-70
CHEMICAL CONCENTRATION PLOTS
NORTH INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

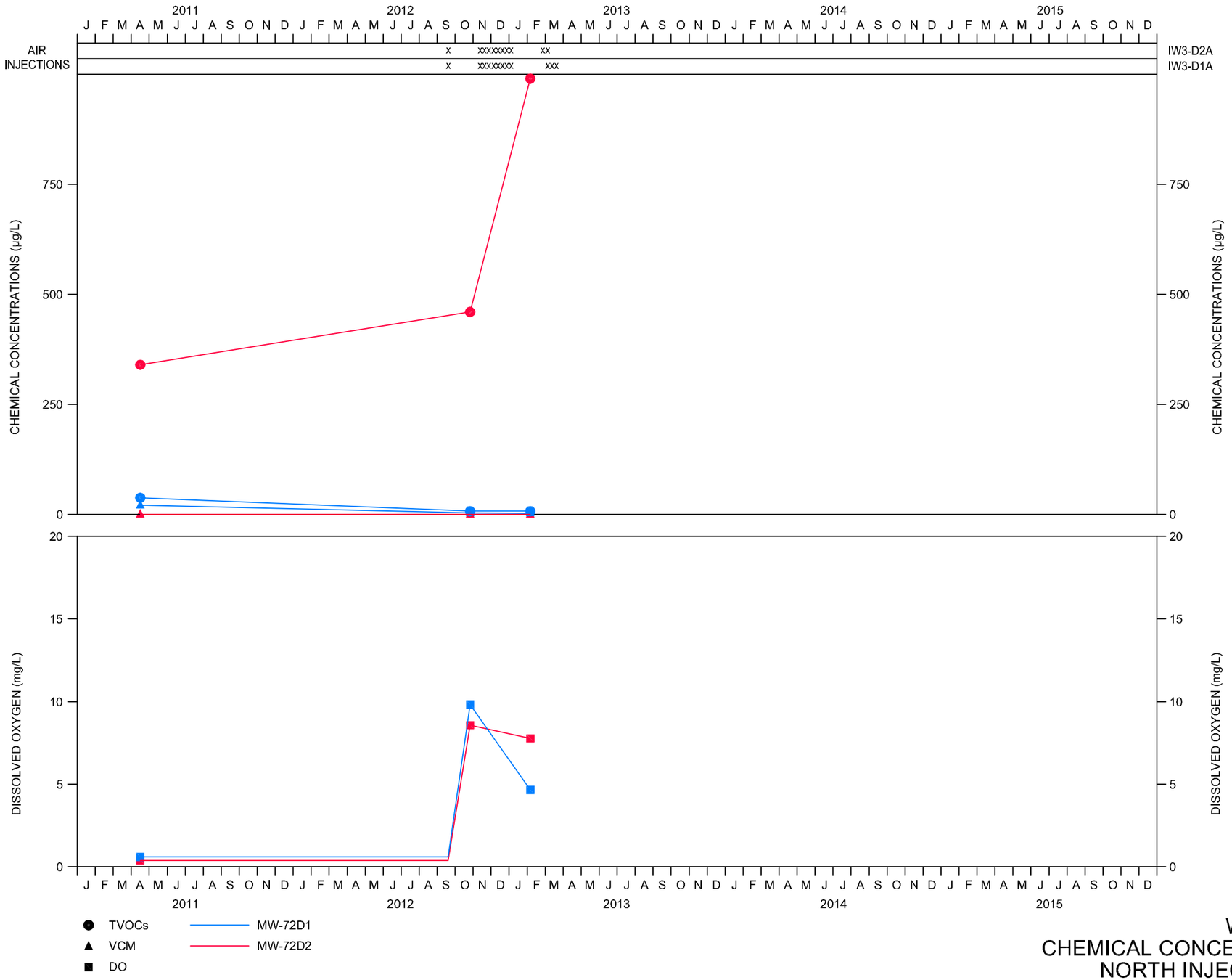


figure 13

WELL NEST MW-72
CHEMICAL CONCENTRATION PLOTS
NORTH INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

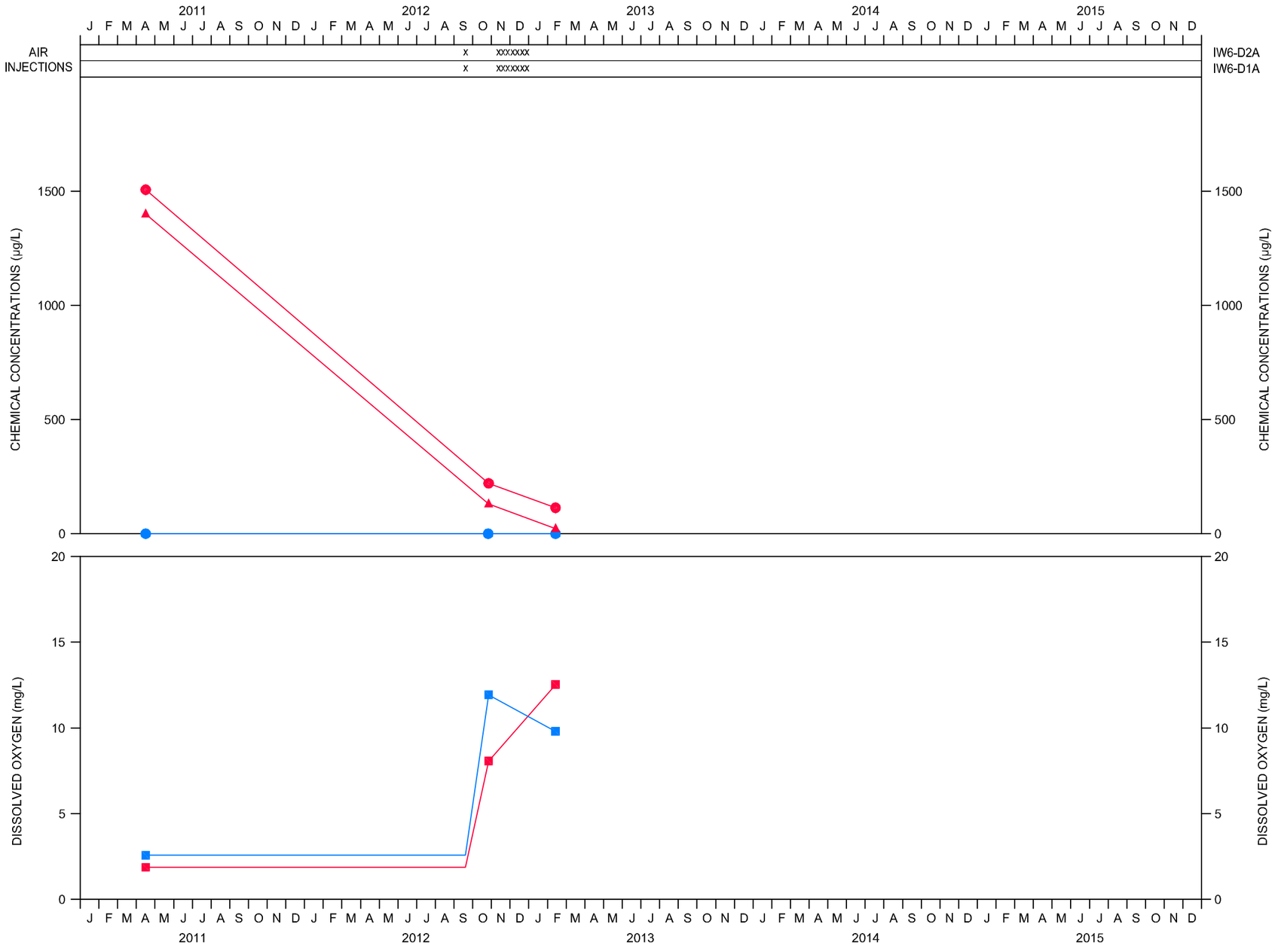


figure 14

WELL NEST MW-73
CHEMICAL CONCENTRATION PLOTS
NORTH INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

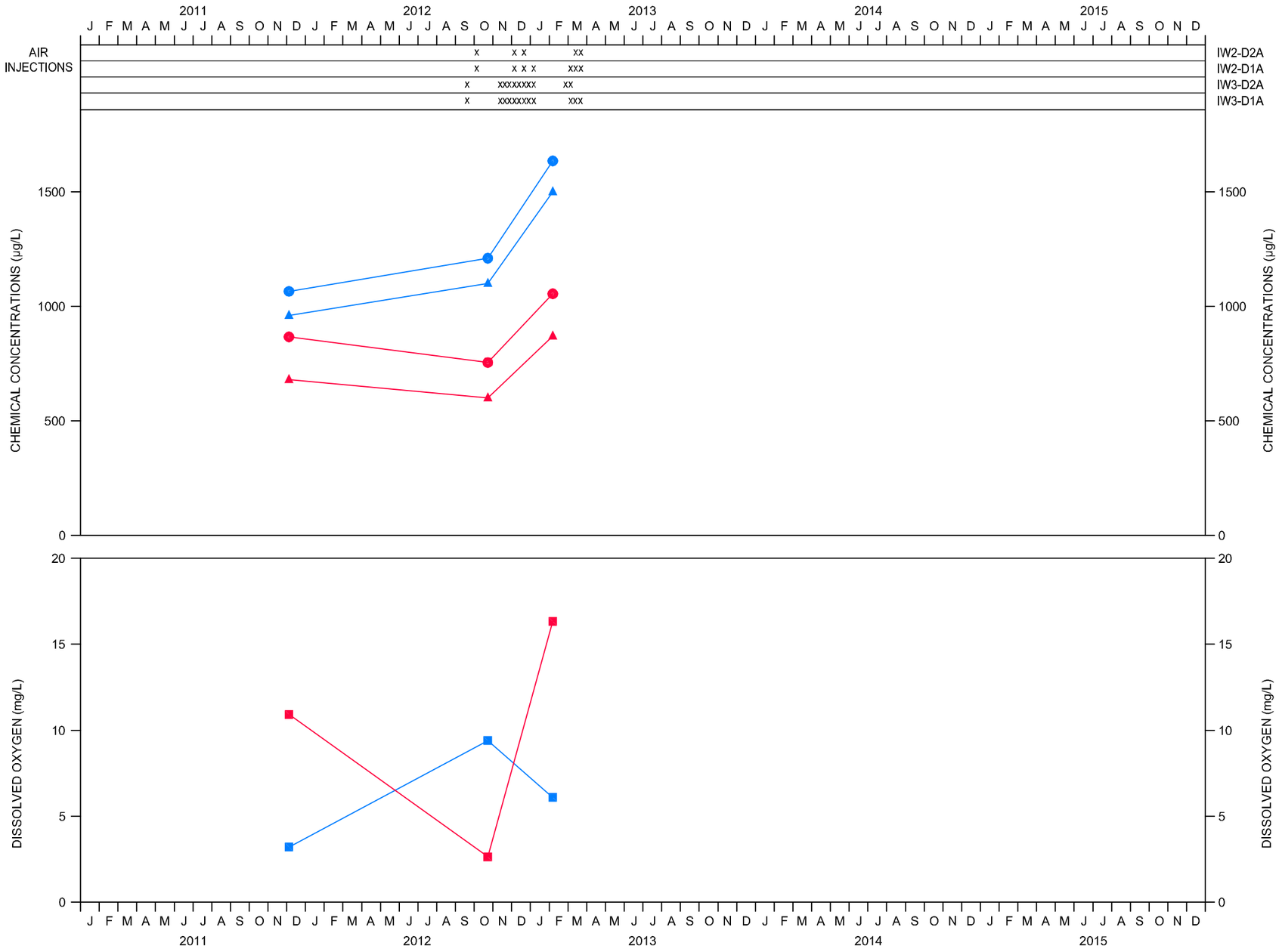


figure 15

WELL NEST MW-75
CHEMICAL CONCENTRATION PLOTS
NORTH INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

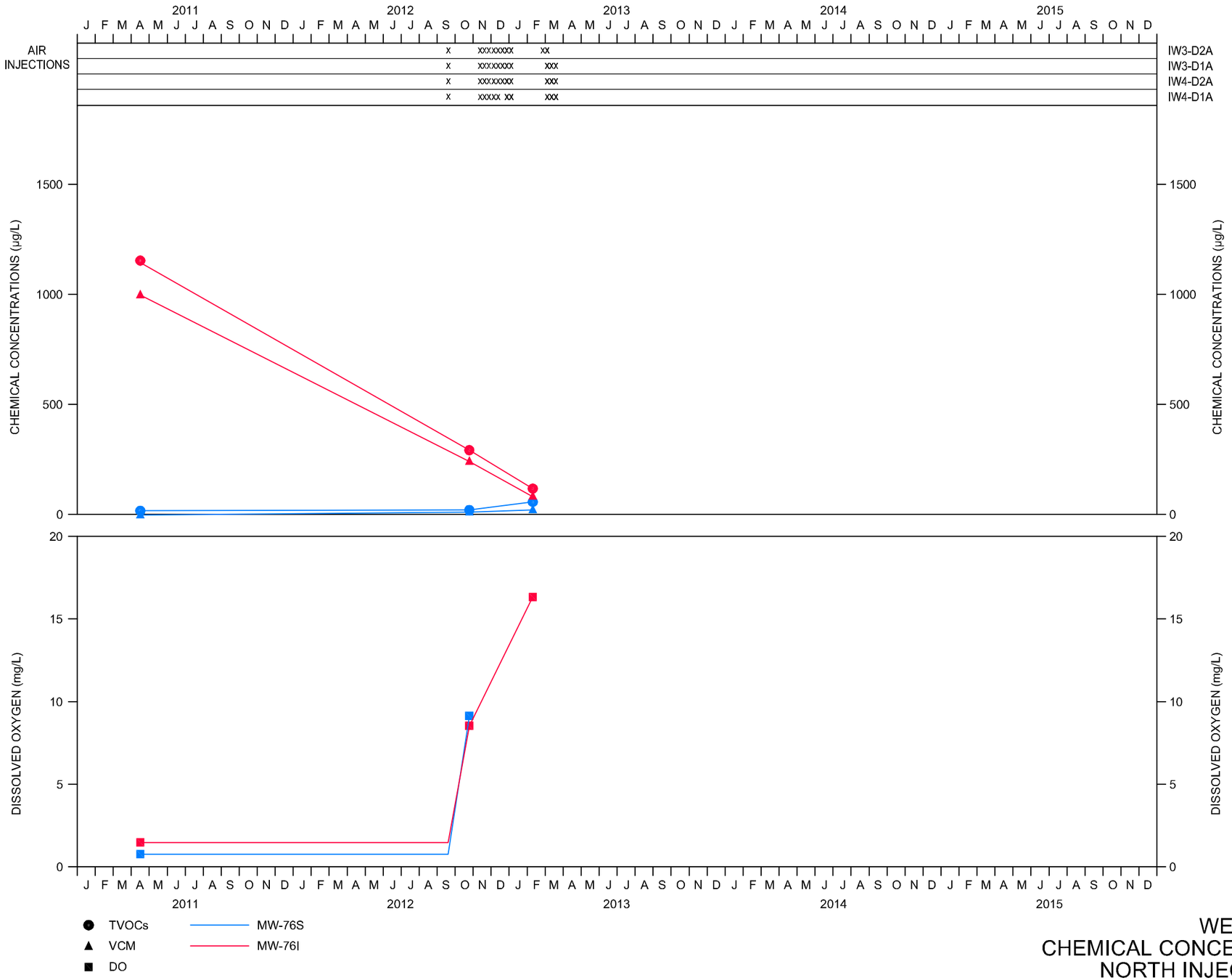


figure 16

WELL NEST MW-76S/I
CHEMICAL CONCENTRATION PLOTS
NORTH INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

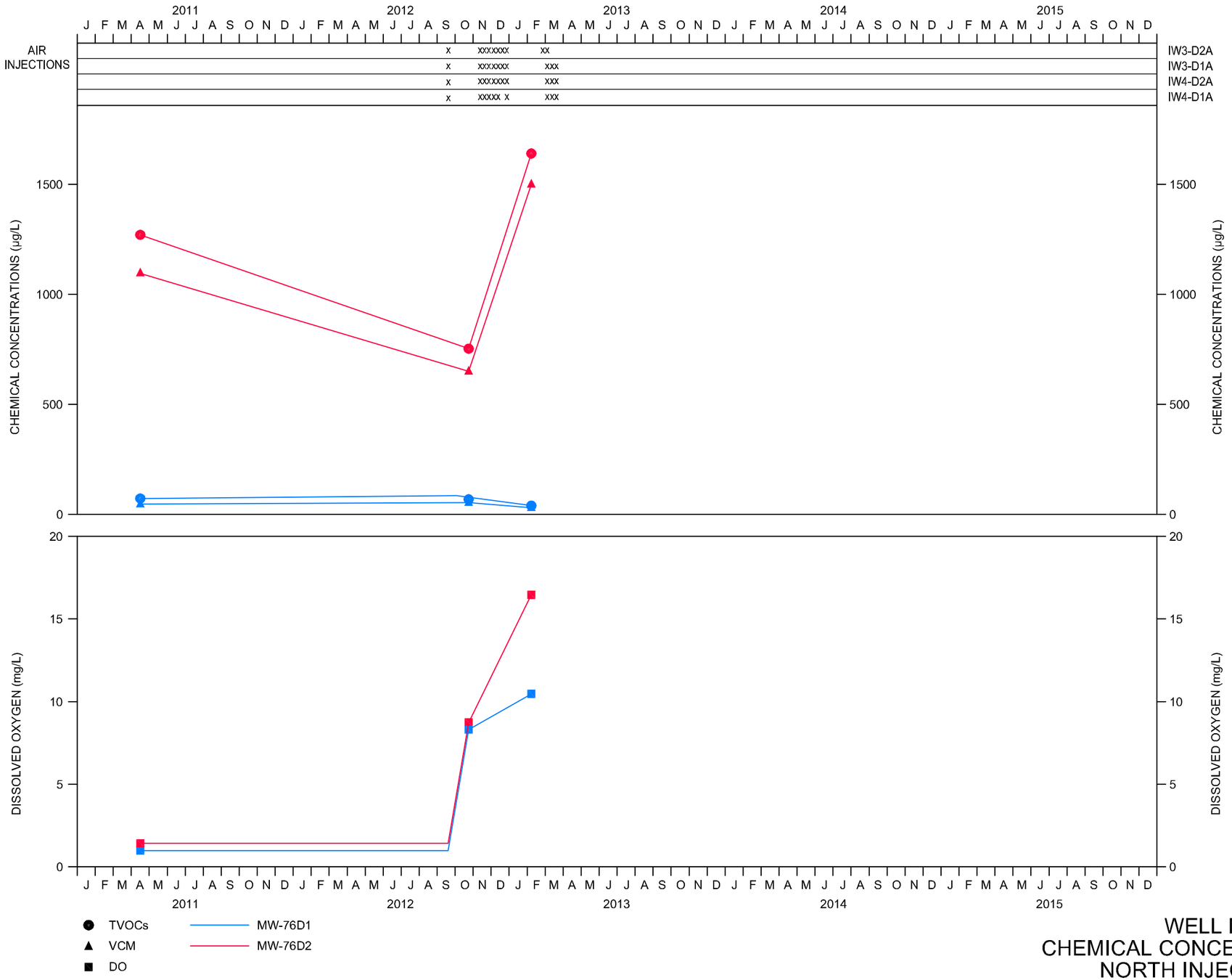


figure 17

WELL NEST MW-76D1/D2
CHEMICAL CONCENTRATION PLOTS
NORTH INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

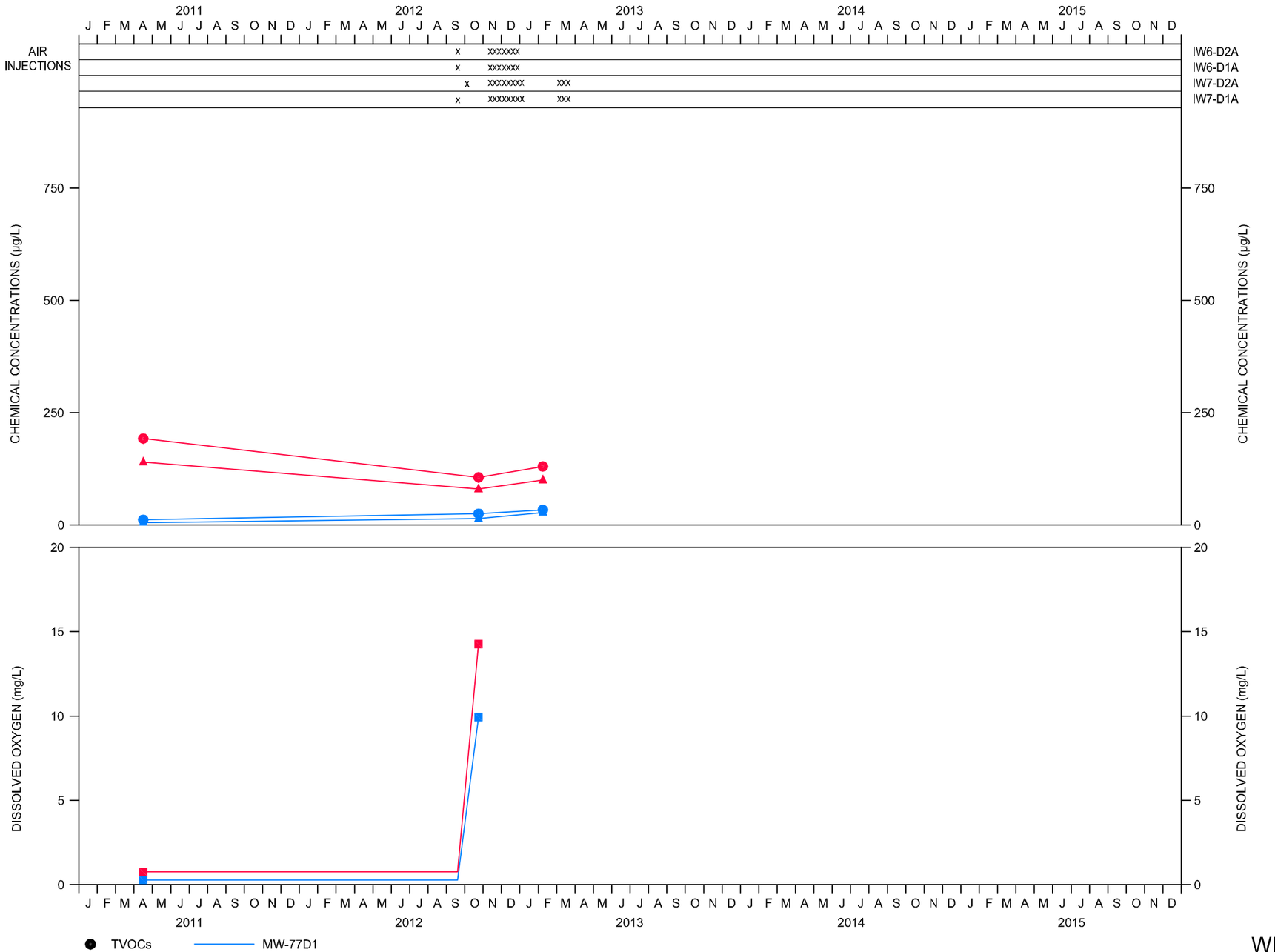


figure 18

WELL NEST MW-77
CHEMICAL CONCENTRATION PLOTS
NORTH INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

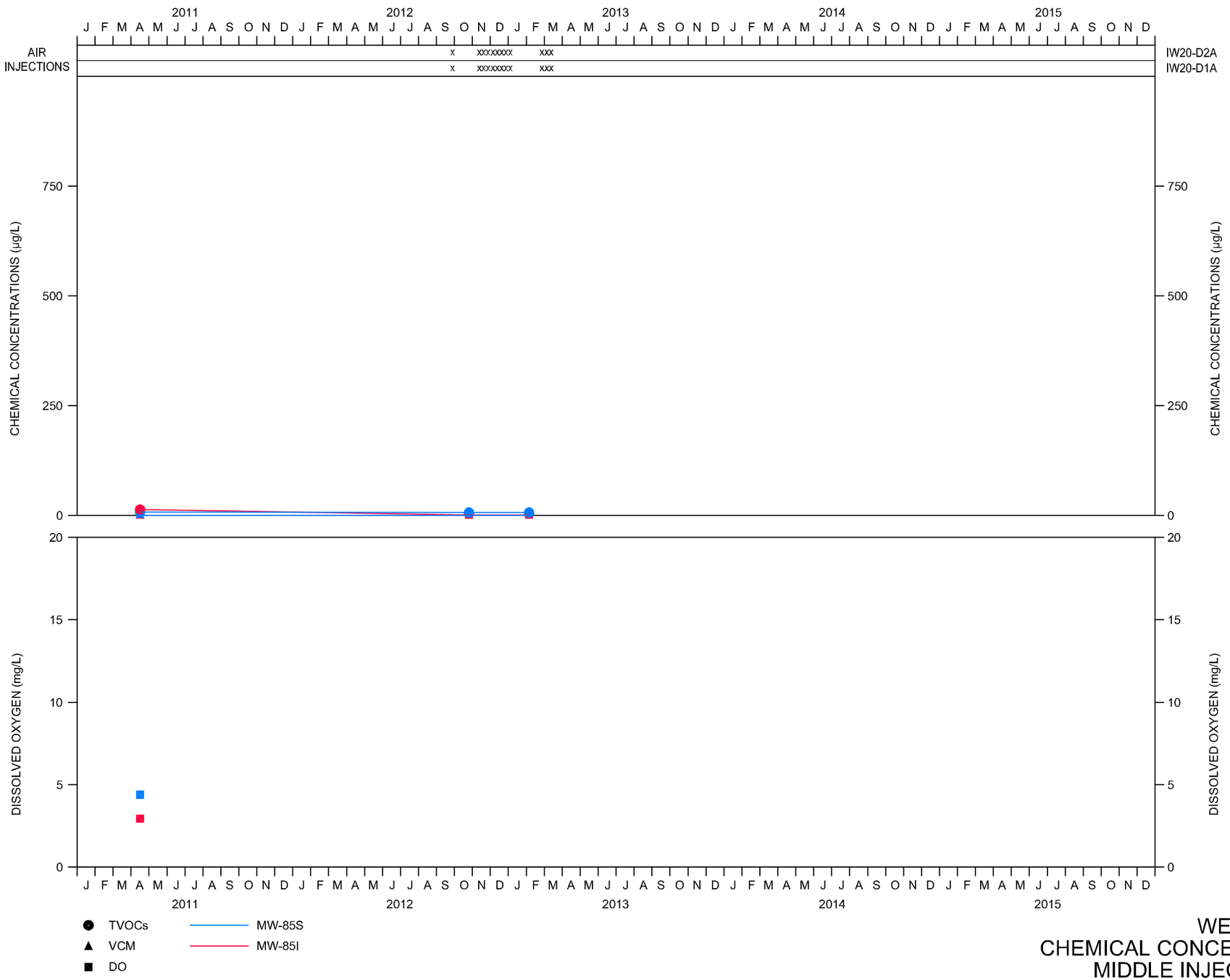


figure 19

WELL NEST MW-85S/I
CHEMICAL CONCENTRATION PLOTS
MIDDLE INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

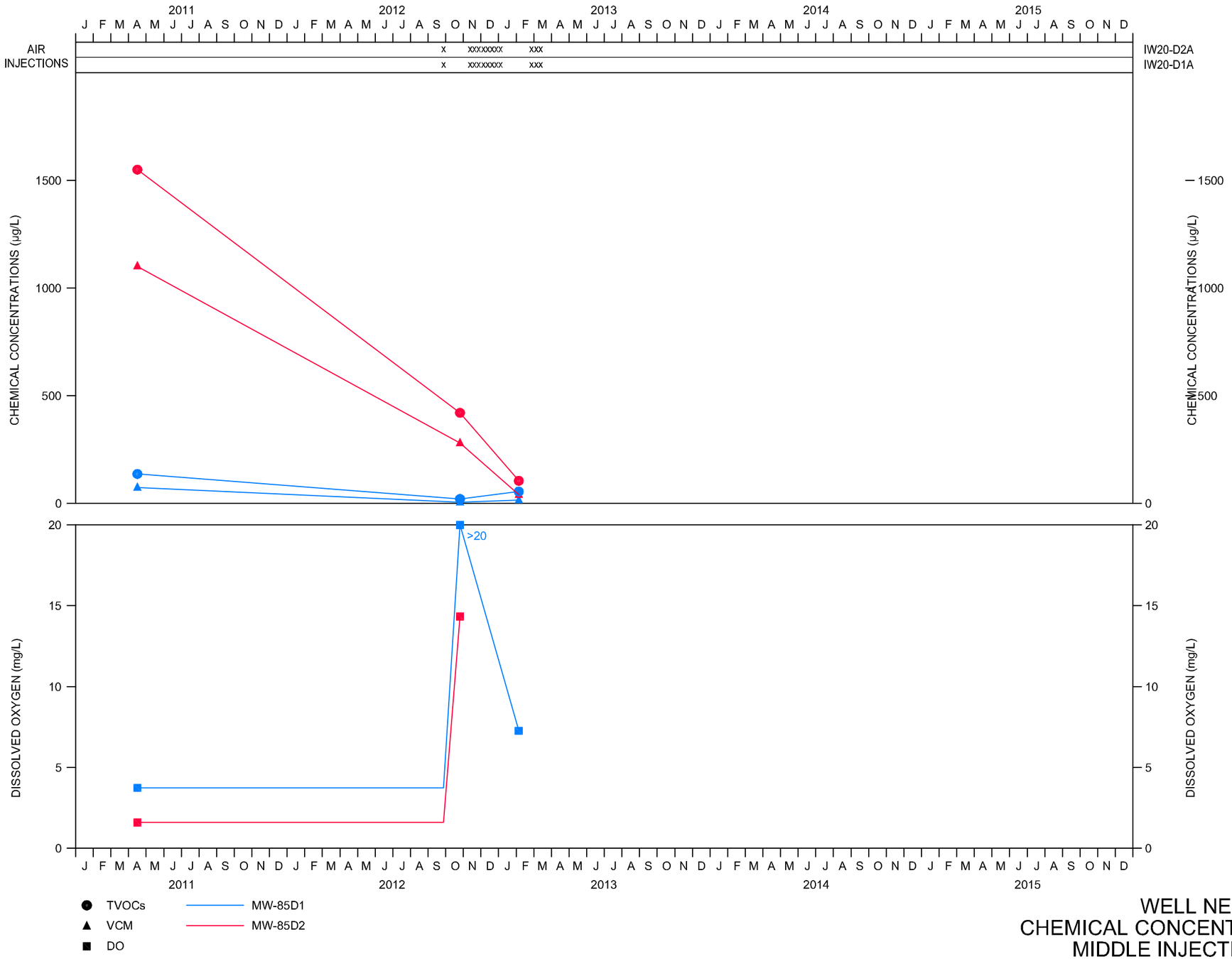


figure 20

WELL NEST MW-85D1/D2
CHEMICAL CONCENTRATION PLOTS
MIDDLE INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

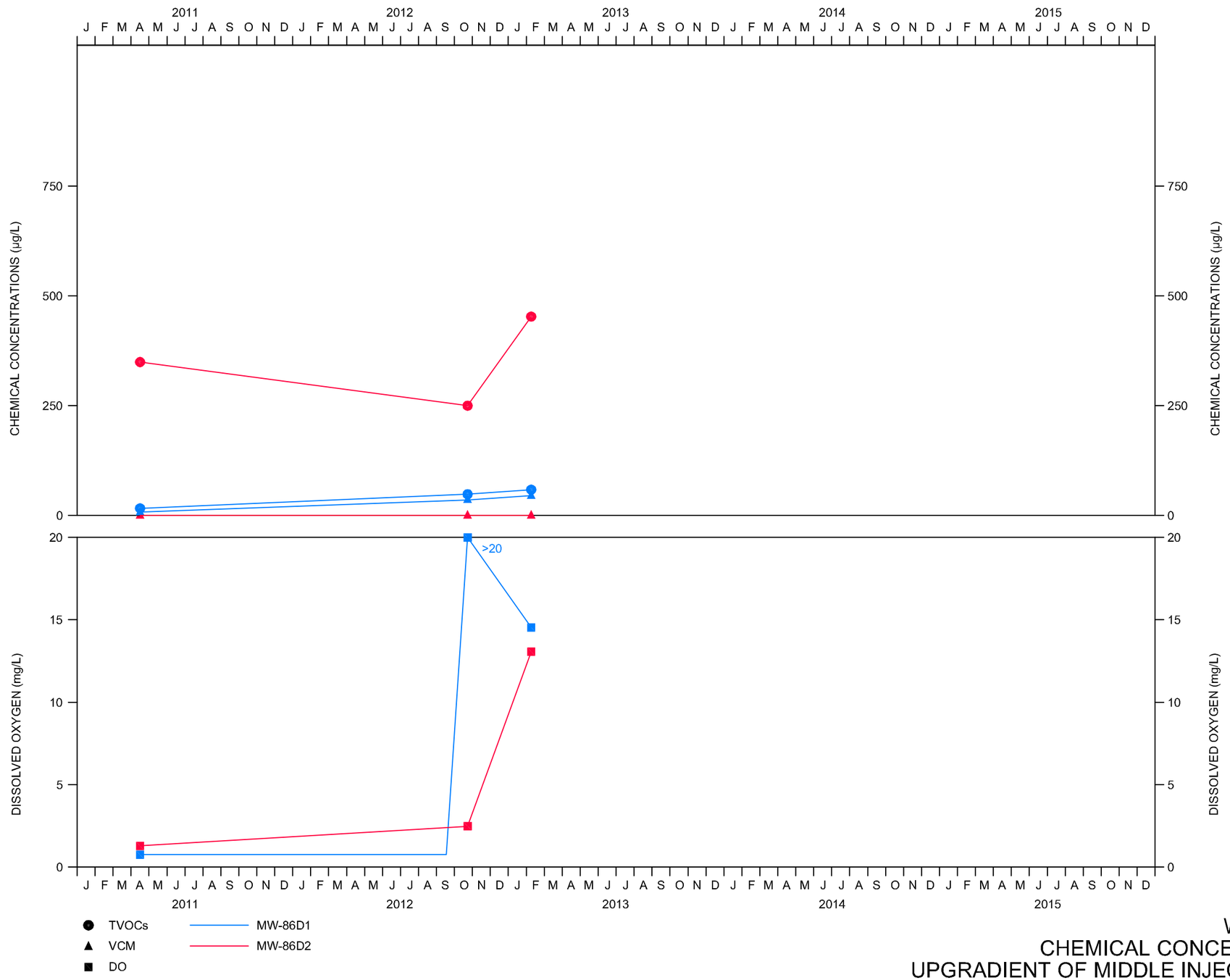


figure 21

WELL NEST MW-86
CHEMICAL CONCENTRATION PLOTS
UPGRADIENT OF MIDDLE INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

06883-D23102(TACC039)GN-WA021 APR 4/2013

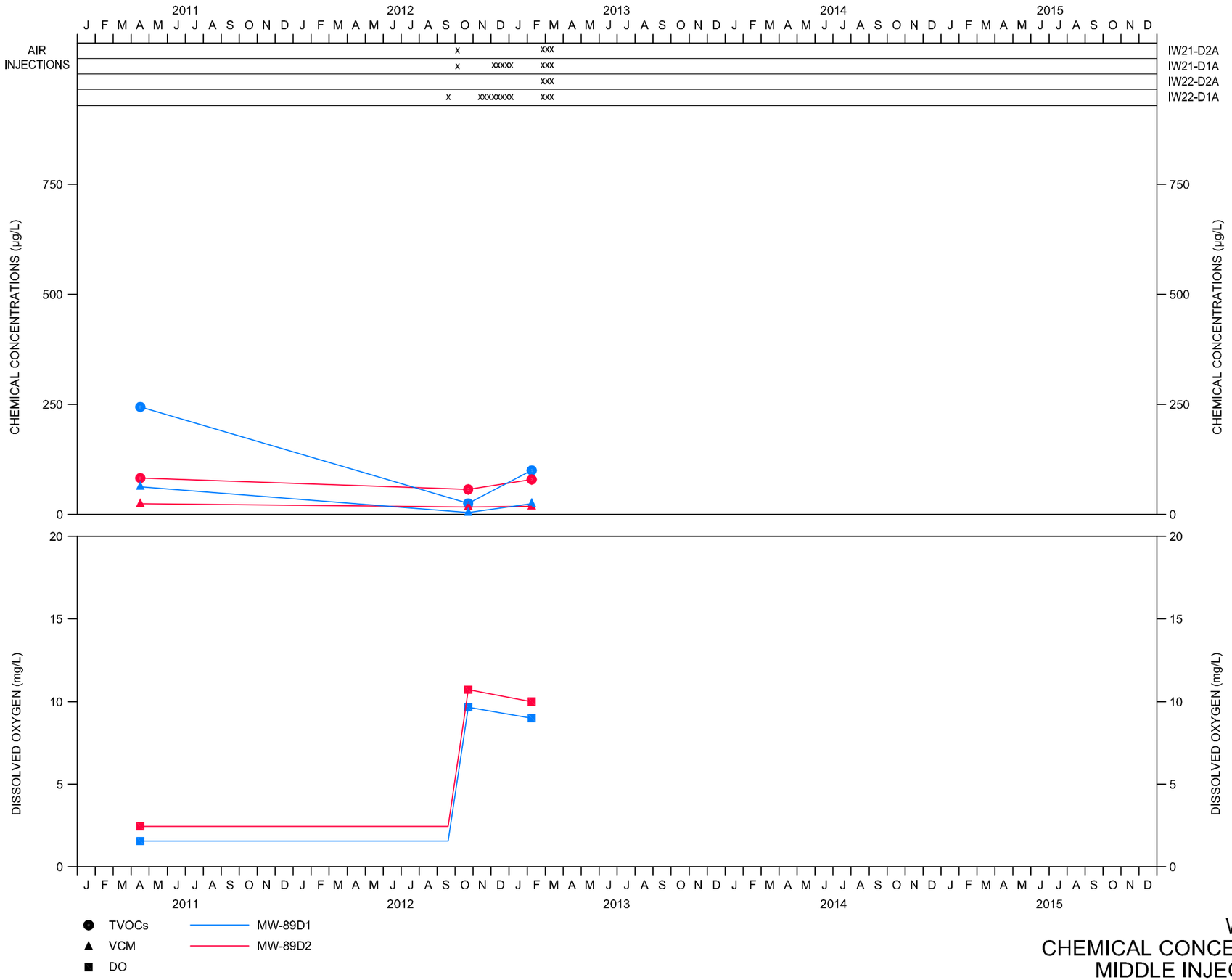


figure 22

WELL NEST MW-89
CHEMICAL CONCENTRATION PLOTS
MIDDLE INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

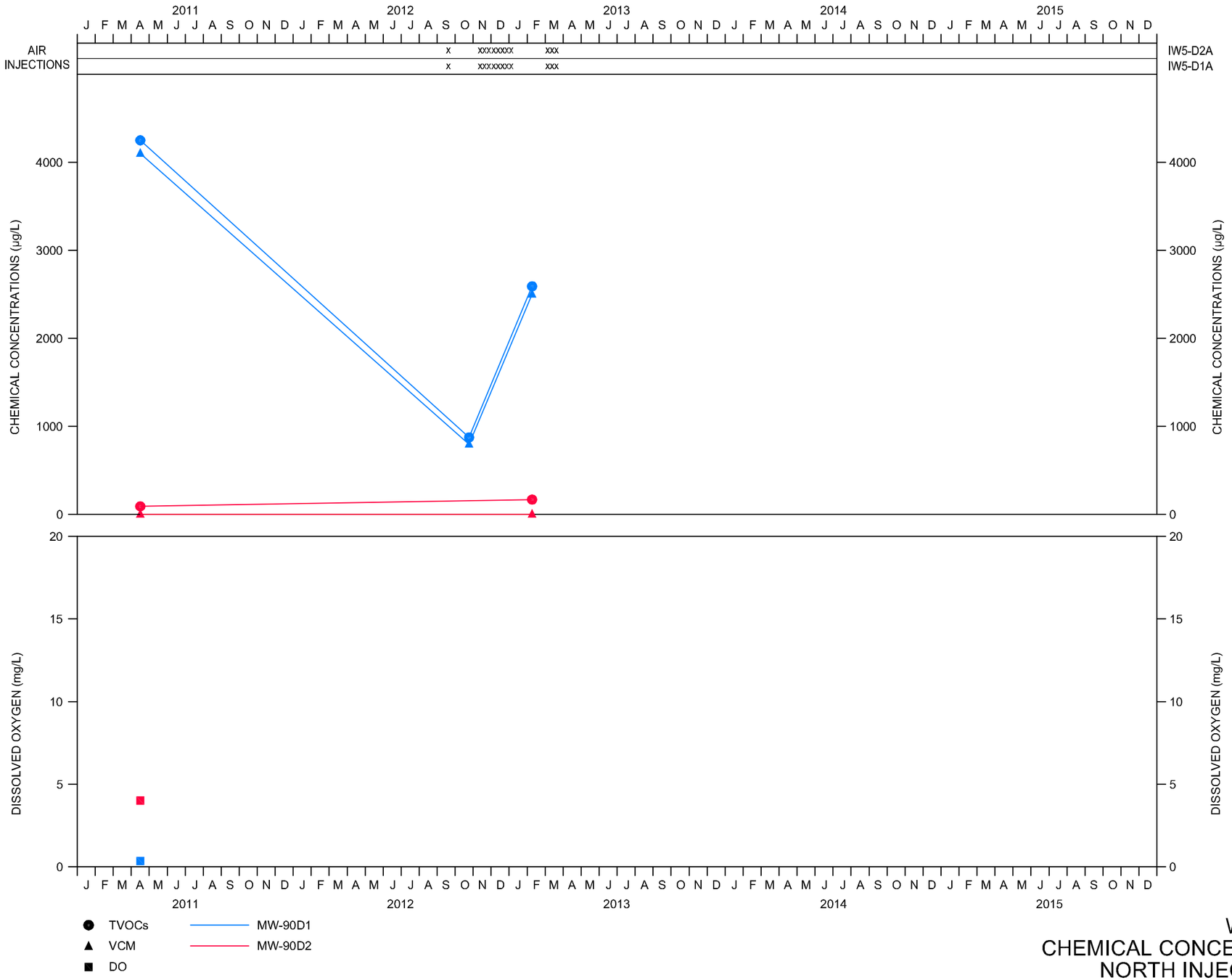


figure 23

WELL NEST MW-90
CHEMICAL CONCENTRATION PLOTS
NORTH INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

TABLE 1

GLENN SPRINGS HOLDINGS INC.
HOOKER/RUCO SITE OPERABLE UNIT 3
HICKSVILLE, NEW YORK

January through March 2

Task and Activity	*Percentage of Activity Completed*	*Start Date*	*Scheduled Completion Date*	*Completion Date*
• Work Plan	100	July 1993		September 23, 1993
• Borehole/Well Installation (MW-50, MW-53, MW-54 and MW-55)	100	September 30, 1994		June 19, 1995
• Well Development, Sampling and Analysis	100	July 10, 1995		August 9, 1995
• Water Level Measurements	100	August 15, 1995		April, 1996
• Interim Report	100	May 23, 1995		June 15, 1995
• Interim Report - Addendum No. 1	100	July 28, 1995		August 2, 1995
• Grumman Production Wells Sample Collection and Analysis	100	August 1, 1995		October 4, 1995
• Well Installation (MW-51, MW-52, MW-56 and MW-57)	100	August 30, 1995		January 26, 1996
• Regional Groundwater Level Monitoring Event	100	October 3, 1995		October 3, 1995
• Well Development, Sampling and Analysis	100	January 22, 1996		July 5, 1996
• Grumman Groundwater Model	100	July 27, 1995		November 20, 1997
• Phase I Report	100	February 21, 1996		April 26, 1996
• Supporting Documentation Regarding the Effectiveness of In Situ Remediation	100	June 10, 1996		August 9, 1996
• Phase II Report	100	February 21, 1996		August 12, 1996
• Comments on DEC Draft Supplemental Feasibility Study	100	September 23, 1996		October 17, 1996
• Responses to Northrop Comments on the Phase I Report	100	April 17, 1997		June 6, 1997
• Comments on DEC Supplemental Feasibility Study	100	June 1, 1997		June 20, 1997
• Comments on Navy Regional Groundwater Feasibility Study	100	July 28, 1997		October 8, 1997
• Revised Pages for Navy Regional Groundwater Feasibility Study	100	July 28, 1997		November 3, 1997
• Comments on Groundwater Flow Model Report	100	November 20, 1997		December 5, 1997
• Comments on Draft Final Regional Groundwater Feasibility Study	100	March 27, 1998		May 1, 1998
• Comments on Northrop Letter Report	100	May 20, 1998		June 4, 1998
• Evaluation of MW-52 Area Groundwater Extraction System	100	July 1, 1998		July 29, 1998
• Remedial Investigation Report	100	December 1, 1998		January 21, 1999
• Feasibility Study Report	100	December 1, 1998		March 16, 1999
• Groundwater Treatability Study (GTS)	100	December 16, 1998		July 19, 1999
• Responses to EPA Comments on RI Report	100	May 25, 1999		June 11, 1999
• Responses to EPA Comments on FS Report	100	June 21, 1999		July 7, 1999
• Scope of Predesign Investigative Activities				
- Initial	100	June 1, 1999		June 11, 1999
- Revised	100	February 16, 2001		May 28, 2001

TABLE 1

GLENN SPRINGS HOLDINGS INC.
HOOKER/RUCO SITE OPERABLE UNIT 3
HICKSVILLE, NEW YORK

January through March 2

Task and Activity	*Percentage of Activity Completed*	*Start Date*	*Scheduled Completion Date*	*Completion Date*
• Revised RI Report	100	May 25, 1999		November 16, 1999
• Revised FS Report	100	July 7, 1999		December 22, 1999
• Responses to EPA Comments on GTS	100	October 14, 1999		November 3, 1999
• Responses to EPA Comments on FS Report Responses	100	October 14, 1999		November 3, 1999
• Obtain access agreements	100	June 1999		December 2001
• Final RI Report	100	March 15, 2000		July 21, 2000
• Final FS Report	100	April 10, 2000		July 25, 2000
• PRAP	100			July 28, 2000
• ROD	100			September 29, 2000
• Unilateral Administrative Order	100			April 26, 2001
• Evaluate VCM presence in GP-3	100			August 15, 2001
• Design Supplemental System for VCM in GP-3	100	August 15, 2001		December 2001
• EPA Conditional Approval for Predesign Activities	100			September 28, 2001
• Issued Request for Bid for Well Installation	100			October 26, 2001
• Contractor Arrangements	100			January 15, 2002
• Arrangements for Biosparge Testing of Existing Wells	100			April 12, 2002
• Biosparge Testing of Existing Wells	100	April 15, 2002		August 13, 2002
• Phase 1 Well Installation	100	February 4, 2002		June 28, 2002
• Upgrade of GP-1/GP-3 Treatment System	100	April 8, 2002		July 9, 2003
• Sample Wells	100	June 17, 2002		July 12, 2002
• Evaluate Pre-Design Information /Develop Scope of Biosparge	100			November 22, 2002
• Install 2 Additional Wells (MW-67/68)	100	December 18, 2002		February 14, 2003
• Sample Wells MW-67 & MW-68				March 25/26, 2003
• Responses to EPA comments on Predesign Information Report	100	March 6, 2003		March 27, 2003
• EPA Meeting				April 17, 2003
• Closed Well T-1	100			May 12, 2003
• MW-67/68 Installation Report	100			May 23, 2003
• Responses to EPA comments on March 27, 2003 Responses	100	June 25, 2003		July 29, 2003
• Pre-Final (95%) RD Report	100	July 7, 2003		October 31, 2003
• Responses to EPA comments on 95% RD Report	100	April 12, 2004		May 27, 2004
• Submitted Due Diligence Request to Northrop	100			May 10, 2004
• Follow up Due Diligence Clarification to Northrop 6/11 Data Package	100			June 25, 2004

TABLE 1

GLENN SPRINGS HOLDINGS INC.
HOOKER/RUCO SITE OPERABLE UNIT 3
HICKSVILLE, NEW YORK

January through March 2

Task and Activity	*Percentage of Activity Completed*	*Start Date*	*Scheduled Completion Date*	*Completion Date*
• Offer to Northrop for Property Purchase	100			October 1, 2004
• Sample 13 Wells and Submit Results	100	August 23, 2004		October 14, 2004
• Responses to EPA Comments on 95% RD Report	100	November 17, 2004		December 6, 2004
• Revised Property Purchase offer submitted to Northrop	100	December 22, 2004		December 22,2004
• Prepare 100% RD Report	100	January 12, 2005		May 27, 2005
• Property Purchased	100			June 2005
• 100% Design Approved	100			July 7, 2005
• Obtain Building Permits	100	July 11, 2005		November 10, 2005
• Arrange Contractors	100	January 2005		July 22, 2005
• Well Installation	100	September 13, 2005		April 28, 2006
• Biosparge System Installation	100	November 2005		May 2006
• Closure of On-Site and Off-Site Wells	100	November 2005		May 10, 2006
• OU-1 Soil Borings	100	November 2005		January 11, 2006
• Background Groundwater Sampling	100	March 27, 2006		June 14, 2006
• Pre-Start Sampling	100			October 24, 25, and 26, 2006
• Final Inspection	100			October 27, 2006
• Biosparge System Start-Up	100			October 27, 2006
• First Monthly Sampling	100			November 28 to 30, 2006
• Second Monthly Sampling	100			December 20 and 21, 2006
• Noise Survey	100			January 18, 2007
• 2007 First Quarterly Sampling	100			January 23 to 30, 2007
• Submission of Phase I Construction Documents	100			February 1, 2007
• 2007 Second Quarterly Sampling	100			April 18 to 27, 2007
• 2007 Third Quarterly Sampling	100			July 16 to 27, 2007
• 2007 Fourth Quarterly Sampling	100			October 8 to 18, 2007
• Evaluation/Recommendation for Design Modifications	100			January 15, 2008
• 2008 First Quarterly Sampling	100			January 22 to 28, 2008
• 2008 Second Quarterly Sampling	100			April 16 to 25, 2008
• 2008 Third Quarterly Sampling	100			July 15 to 18, 2008
• 2008 Fourth Quarterly Sampling	100			October 21 to 30, 2008
• Construction of North Fence Underground Components	100			December 23, 2008
• 2009 First Semi-Annual Sampling	100			April 7 to 14, 2009

TABLE 1

GLENN SPRINGS HOLDINGS INC.
HOOKER/RUCO SITE OPERABLE UNIT 3
HICKSVILLE, NEW YORK

January through March 2

Task and Activity	*Percentage of Activity Completed*	*Start Date*	*Scheduled Completion Date*	*Completion Date*
• Response to USEPA Biosparge System Comments	100	August 27, 2009		September 23, 2009
• 2009 Second Semi-Annual Sampling	100			October 13 to 21, 2009
• Submittal of Biodegradation Supporting Information	100			November 30, 2009
• Submittal of Revised Schedule	100			February 3, 2010
• Submittal of PDB/HydraSleeve[1M] Evaluation	100			February 11, 2010
• Trailing Edge Proposal	100			March 15, 2010
• 2010 First Semi-Annual Sampling	100			May 3 to 25, 2012
• Distribution of RFP for Biosparge System Well Installation	100			June 25, 2010
• Contracted Well Driller	100			August 3, 2010
• 2010 Second Semi-Annual Sampling	100			November 15 to 29, 2010
• Install Biosparge System Wells	100	September 20, 2010		May 15, 2011
• 2011 First Semi-Annual Sampling & Site Wide Event	100			April 7 to May 19, 2011
• Distribution of RFP for Biosparge System Expansion	100			May 4, 2011
• Receipt of Bids	100			June 17, 2011
• Submittal of PDB/HydraSleeve[1M] Evaluation	100			August 31, 2011
• USEPA Concurrence For Use of PDB Samplers	100			September 22, 2011
• Update QAPP	100	September 22, 2011		October 24, 2011
• 2011 Second Semi-Annual Sampling	100			Nov. 30 to Dec. 1, 2011
• Revise Updated QAPP	100	December 6, 2011		January 3, 2012
• Address EPA Comments on revised updated QAPP and resubmit	100	February 17, 2012		April 13, 2012
• Construction of Remainder of Biosparge System	100	March 5, 2012		August 15, 2012
• 2012 First Semi-Annual Sampling	100			May 23 and 24, 2012
• Submit Interim Remedial Action Report	100			September 26, 2012
• Submit Electrical As-Built Drawings	100			October 10, 2012
• 2012 Second Semi-annual Sampling	100			October 24 to November 25, 2012
• 2013 First Quarter Sampling	100			January 8 to February 13, 2013
• Well Rehabilitation Works	100			March 18 to 29, 2013

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2013 (JANUARY THROUGH MARCH)
HOOKER RUCO SITE
HICKSVILLE, NEW YORK

Well	*Date Sampled*	*Drawdown from Initial Water Level* [1] [4] *(feet)*	*Well Screen Volumes Purged* [4]	*pH (S.U.)*	*Temperature (Celsius)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Fe^{+2} (mg/L)*
MW-52 S	4/7/2006	0.03	4.3	5.62	14.3	0.199	-7	0.00	0	1.60
	3/13/2007	0.20	6.1	6.34	14.8	0.652	5	1.64	58.4	1.66
MW-52 I	4/13/2006	0.04	4.5	4.56	15.0	0.121	303	9.77	12.4	0.05
	3/14/2007	0.05	4.9	5.42	14.6	0.192	259	5.85	44.8	0.04
MW-52D	3/14/2007	0.00	5.3	5.67	14.7	0.314	226	3.07	307	0.11
MW-58 D	10/26/2006	0.01	3.4	5.69	16.8	0.192	21	2.42	58.1	4.30
	5/18/2010	0.00	8..4	5.52	16.1	0.201	30	0.00	25	1.8
MW-58 D1	10/26/2006	0.14	3.2	6.34	16.9	0.222	-101	2.58	68.6	8.80
	5/19/2010	0.00	10.4	6.21	16.3	0.221	-50	0.00	198	2.2
MW-58 D2	10/25/2006	0.11	2.8	6.95	17.3	0.266	-198	0.00	15.1	5.16
MW-59 D1	10/25/2006	0.00	2.0	6.07	17.4	0.432	-20	0.58	261	3.24
MW-59 D2	10/25/2006	0.02	5.5	6.50	17.5	0.452	-99	0.47	240	2.00
MW-59 D	10/26/2006	0.07	4.5	10.29	17.1	0.364	-108	0.00	9.6	2.65
MW-61S	10/19/2009	0.00	2.9	5.12	14.8	0.184	372	>20	165	0.02
	5/10/2010	0.00	5.5	6.81	14.6	0.223	100	10.95	0	0.0
MW-61 I	4/28/2006	0.00	4.6	5.68	14.3	0.221	139	0.00	121	1.76
	5/8/2006	0.08	1.9	4.86	14.9	0.182	136	0.00	64.7	1.49
	5/18/2006	0.20	2.9	4.90	16.1	0.155	123	0.00	571	2.16
	5/30/2006	0.20	5.7	5.10	15.7	0.167	118	0.00	110	2.61
	10/24/2006	0.14	4.3	5.53	15.1	0.999	102	0.00	166	2.76
	10/25/2006	0.00	4.1	5.32	15.1	0.202	112	0.41	370	3.04
	10/26/2006	0.02	3.9	5.33	14.6	0.251	133	0.00	900	2.49
	11/29/2006	0.10	5.1	5.58	14.8	0.242	60	0.00	397	1.96
	11/29/2006	0.10	5.1	5.58	14.8	0.242	60	0.00	397	1.96
	12/21/2006	0.08	5.2	5.20	14.4	0.185	118	0.00	18.2	2.17
	1/24/2007	-0.05	4.5	5.54	14.9	0.275	101	1.93	46.4	1.84
	4/19/2007	0.00	6.1	5.88	14.7	0.320	124	3.21	254	0.03
	7/20/2007	0.16	9.3	5.29	15.7	0.189	90	0.37	2	5.19
	10/11/2007	0.22	10.7	5.61	15.6	0.193	50	3.56	33.6	3.12
	1/24/2008	-0.02	6.2	5.56	14.5	0.216	86	1.44	87.2	3.11
	4/23/2008	0.23	9.3	5.88	15.2	0.216	60	0.45	0	2.83
	7/16/2008	0.20	4.0	5.60	16.6	0.183	69	2.78	0	10.82
	10/28/2008	0.26	5.6	5.02	14.9	0.199	351	7.11	4.2	1.11
	4/8/2009	0.07	2.1	5.21	10.9	0.178	306	12.18	7.0	0.05
	10/15/2009	0.00	2.4	5.25	14.5	0.172	366	17.66	0	0.49
	5/10/2010	0.00	10.6	6.30	14.6	0.178	120	10.65	0	0.0
	1/20/2011	0.00	4.4	5.90	11.6	0.253	266	11.10	45	0.0
	4/19/2011	0.02	3.7	5.69	13.4	0.217	249	10.10	39.9	0.0
	11/30/2011	NA	NA	6.27	10.5	0.191	NM	12.81	280	NM
	5/23/2012	NA	NA	NM	NM	NM	NM	NM	NM	NM
	11/5/2012	NA	NA	6.28	11.1	0.220	111	11.23	130	3.99

QUARTERLY REPORT
FIRST QUARTER 2013 (JANUARY THROUGH MARCH)
HOOKER RUCO SITE
HICKSVILLE, NEW YORK

Well	*Date Sampled*	*Drawdown from Initial Water Level* [1] [4] *(feet)*	*Well Screen Volumes Purged* [4]	*pH (S.U.)*	*Temperature (Celsius)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Fe^{+2} (mg/L)*
MW-61 D1	4/28/2006	0.00	4.7	6.07	14.5	0.210	122	0.00	356	1.78
	5/8/2006	0.05	5.7	5.07	15.0	0.210	101	0.00	172	2.77
	5/18/2006	0.16	2.9	5.18	16.2	0.170	91	0.00	>999	>3.30
	5/30/2006	0.25	4.5	5.27	15.9	0.196	93	0.00	138	4.66
	10/24/2006	0.01	4.4	5.49	15.2	0.999	110	0.00	72.4	2.30
	10/25/2006	0.08	4.1	5.33	15.1	0.201	107	0.65	129	3.74
	10/26/2006	0.03	3.9	5.41	14.9	0.273	109	0.00	86	2.99
	11/29/2006	0.00	3.6	5.72	14.9	0.246	54	0.00	310	1.92
	12/21/2006	0.08	5.8	5.29	14.6	0.192	90	0.00	80.7	2.59
	1/23/2007	0.00	8.1	5.73	14.3	0.389	54	1.21	137	1.84
	4/19/2007	0.14	8.1	6.19	14.6	0.304	79	6.66	95.9	0.26
	7/20/2007	0.23	11.7	5.31	16.4	0.163	83	0.44	20	3.30
	10/10/2007	0.00	4.9	5.84	15.5	0.198	26	3.39	27.2	4.20
	1/24/2008	0.18	5.4	5.58	14.4	0.244	78	1.33	38.7	3.21
	4/22/2008	0.08	13.1	5.90	15.5	0.220	60	0.41	321	2.91
	7/16/2008	0.36	6.2	5.42	16.1	0.158	87	2.35	0	2.13
	10/28/2008	0.06	1.8	4.88	15.1	0.182	335	3.75	215	0.21
	4/8/2009	0.15	8.8	5.23	14.5	0.183	267	12.77	9.2	0.08
	10/15/2009	0.00	3.4	5.32	14.2	0.179	336	10.11	0	0.96
	5/10/2010	0.00	7.7	6.18	14.5	0.223	140	10.15	0	0.0
MW-61D1	1/20/2011	0.00	3.1	6.16	10.1	0.346	231	18.80	42.5	0.0
	4/19/2011	-0.01	3.7	5.76	13.5	0.227	248	10.38	*	0.0
	11/30/2011	NA	NA	6.19	10.6	0.168	NM	13.21	177	NM
	5/23/2012	NA	NA	6.04	18.1	0.182	170	13.55	170	1.8
	11/5/2012	NA	NA	5.96	10.2	0.237	124	11.85	212	3.0
MW-61D2	4/28/2006	0.05	6.4	7.03	15.2	0.230	-186	0.00	413	2.00
	5/5/2006	0.00	10.5	6.65	15.1	0.370	-160	0.00	>999	10.08
	5/18/2006	0.30	4.9	6.63	16.1	0.294	-127	0.00	999	>3.30
	5/30/2006	0.00	4.4	6.32	15.8	0.249	-100	0.00	84.6	2.99
	10/24/2006	0.10	6.4	6.22	14.9	0.904	37	0.00	>999	0.15
	10/25/2006	0.20	4.4	5.77	15.1	0.236	27	1.42	316	5.46
	10/26/2006	0.25	4.2	5.63	14.9	0.233	62	1.94	550	4.04
	11/29/2006	0.00	4.4	6.25	14.8	0.253	110	11.12	>999	1.91
	12/21/2006	0.19	5.1	5.58	14.2	0.216	120	9.28	89.4	2.36
	1/23/2007	0.10	5.1	6.62	14.0	0.273	131	>20	>999	0.89
	4/23/2007	0.05	8.6	5.38	15.1	0.189	361	>20	231	0.21
	7/23/2007	0.04	5.1	5.19	17.6	0.219	71	13.45	>999	1.34
	10/11/2007	0.00	2.0	5.95	15.4	0.211	300	11.71	>999	0.21
	1/24/2008	-17.50	5.3	6.30	13.1	0.195	326	>20	228	0.78
	4/22/2008	7.38	6.0	6.73	14.1	0.239	248	14.49	>999	0.09
	7/15/2008	0.24	3.6	6.40	16.0	0.187	173	19.99	486	0.08
	10/27/2008	NM	6.7	5.92	15.6	0.222	381	>20	220	0.18
	4/9/2009	0.28	2.4	5.67	13.7	0.208	319	17.47	943	1.95
	10/14/2009	0.00	6.7	5.50	14.6	0.227	155	16.29	>999	2.80
	5/10/2010	0.00	4.9	5.70	14.8	0.153	224	19.51	60	0.0
	11/16/2010	0.00	3.1	7.42	14.5	0.210	55	8.75	*	(2)
	4/7/2011	0.00	3.1	6.42	12.8	0.204	196	17.58	389	(2)
	5/23/2012	NA	NA	7.88	19.3	0.123	123	8.54	244	9
MW-62I	5/16/2007	0.10	7.1	5.31	14.1	0.278	59	0.00	113	0.69
	5/25/2010	0.00	3.1	5.08	16.5	0.152	14.8	0.00	0	4.2
MW-62D	5/16/2007	0.15	5.4	10.56	14.9	0.119	-125	0.00	570	0.38
	5/25/2010	0.00	4.9	7.23	16.8	0.186	-200	0.00	200	6.2
MW-63 D1	5/23/2006	0.20	2.4	5.03	15.9	0.152	230	0.00	0.0	0.13
	5/24/2010	0.00	1.8	5.25	16.1	0.191	166	0.00	20	0.0
MW-63 D2	5/24/2006	-0.21	5.5	5.30	15.0	0.152	246	0.41	6.5	NM
	6/14/2006	0.05	5.1	5.01	16.3	0.171	222	0.92	3.5	NM
	5/24/2010	0.00	4.1	5.28	16.0	0.199	169	0.00	NM	0.00
MW-63 S	5/19/2006	0.12	2.4	5.20	14.8	0.150	238	0.16	411	0.18
	5/21/2010	0.00	5.8	5.82	16.2	0.172	-111	0.00	132	0.06

QUARTERLY REPORT
FIRST QUARTER 2013 (JANUARY THROUGH MARCH)
HOOKER RUCO SITE
HICKSVILLE, NEW YORK

Well	*Date Sampled*	*Drawdown from Initial Water Level* [1] [4] *(feet)*	*Well Screen Volumes Purged* [4]	*pH (S.U.)*	*Temperature (Celsius)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Fe^{+2} (mg/L)*
MW-63 I	5/23/2006	0.20	4.6	5.09	15.4	0.154	241	0.00	0.0	0.03
	5/21/2010	0.00	6.1	4.73	15.5	0.217	-102	0.00	130	0.0
MW-64 S	3/23/2006	0.10	2.9	5.83	14.3	0.188	-18	0.00	13.8	4.71
	4/26/2007	0.00	5.3	6.71	14.2	0.304	-114	0.00	53.6	2.37
	5/24/2010	0.00	2.5	6.46	15.3	0.201	-98	0.00	10	4.0
MW-64 I	3/24/2006	-0.01	3.6	5.87	14.1	0.203	-38	0.00	0.0	3.21
	4/26/2007	0.00	6.1	6.78	14.2	0.317	-121	0.00	17.5	1.87
	5/24/2010	0.00	3.3	6.62	15.3	0.218	-110	0.00	11	4.0
MW-64D	4/26/2007	0.00	2.7	6.72	14.6	0.324	-115	0.00	22.9	1.98
	5/24/2010	0.05	1.8	6.63	15.3	0.218	-107	0.00	16	2.30
MW-66 D2	4/3/2006	0.03	5.2	5.23	15.2	0.197	-16	0.00	24.3	4.50
MW-67 S	3/28/2006	0.35	5.2	5.88	15.7	0.206	-117	0.00	271	4.36
	5/20/2010	0.00	4.9	6.73	18.4	0.354	-170	0.00	NM	7.0
MW-67 D	3/29/2006	0.47	4.3	5.64	17.1	0.223	86	0.50	>999	4.22
	5/20/2010	0.00	7.4	6.60	18.3	0.234	-187	1.30	NM	0.2
MW-68 S	4/6/2006	-0.10	5.1	8.87	17.4	0.144	-281	0.00	27.8	0.60
MW-68 D	3/31/2006	0.10	5.1	5.67	17.6	0.165	-150	0.00	440	4.86
	5/19/2010	0.00	9.2	5.89	16.2	0.157	-29	0.00	79	2.40
MW-70D1	4/11/2011	0.00	2.5	6.90	15.3	0.220	-135	0.69	13.8	4.0
	10/25/2012	NA	NA	NM	NM	NM	NM	NM	NM	NM
	2/4/2013	NA	NA	6.69	5.6	0.192	8	4.8	384	3.0
MW-70D2	4/11/2011	0.00	3.1	6.72	16.8	0.270	-122	0.66	26.0	2.0
	10/25/2012	NA	NA	6.54	14.7	0.237	-4	8.78	350	3.2
	2/4/2013	NA	NA	6.78	7.3	0.228	27	11.14	999	0.0
MW-72D1	4/12/2011	0.01	1.7	7.08	14.4	0.224	-159	0.57	109	3.5
	10/25/2012	NA	NA	5.00	14.7	0.141	139	9.82	470	1.0
	2/4/2013	NA	NA	10.49	6.6	0.157	54	4.65	6.98	1.0
MW-72D2	4/13/2011	0.00	3.1	7.25	12.8	0.224	-210	0.37	290	2.0
	10/25/2012	NA	NA	4.16	15.3	0.281	76	7.52	85.2	0.8
	2/4/2013	NA	NA	11.03	4.3	0.180	48	7.77	563	0.4
MW-73D1	4/25/2011	-0.87	2.5	7.02	15.0	0.218	-155	2.56	48.4	3.5
	10/26/2012	NA	NA	6.34	17.8	0.104	7	11.93	800	5.0
	2/13/2013	NA	NA	4.48	12.1	0.221	296	9.91	NM	0.0
MW-73D2	4/25/2011	0.00	3.1	6.29	15.1	0.204	-53	1.86	0.7	3.5
	10/26/2012	NA	NA	6.42	18.6	0.139	12	8.07	800	5.0
	2/13/2013	NA	NA	4.76	11.7	0.035	332	12.53	NM	0.0
MW-75D1	12/1/2011	NA	NA	6.96	15.1	0.337	NM	3.20	101	NM
	10/24/2012	NA	NA	6.48	17.3	0.497	-35	9.41	25.7	1.6
	2/4/2013	NA	NA	8.88	6.5	0.559	-48	6.09	24.1	0.0
MW-75D2	12/1/2011	NA	NA	8.11	13.0	0.171	NM	10.91	107	NM
	10/24/2012	NA	NA	6.50	16.9	0.229	-23	2.63	0	0.0
	2/4/2013	NA	NA	9.83	5.4	0.240	-55	16.33	34.4	0.0
MW-76S	4/6/2011	0.00	3.1	6.87	14.0	0.441	-148	0.78	85.6	7.0
	10/25/2012	NA	NA	6.04	14.5	0.242	45	9.18	104	1.6
	2/6/2013	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-76I	4/8/2011	0.00	2.5	6.84	12.7	0.628	159	1.48	71.8	4.0
	10/25/2012	NA	NA	6.46	14.5	0.408	-23	8.51	166.0	4.25
	2/6/2013	NA	NA	6.93	9.3	0.324	4	16.35	250	2.2
MW76-D1	4/11/2011	0.00	3.1	6.91	13.8	0.185	-123	0.98	45.0	2.0
	10/25/2012	NA	NA	6.45	14.6	0.375	-14	8.32	295	5.00
	2/6/2013	NA	NA	7.37	8.7	0.206	-16	10.47	300	3.00
MW-76D2	4/8/2011	0.00	3.1	6.53	13.6	0.248	-59	1.37	178	4.8
	10/25/2012	NA	NA	6.52	14.6	0.253	-19	8.71	163	0.0
	2/6/2013	NA	NA	8.66	8.7	0.276	-76	16.45	100	0.0
MW-77D1	4/14/2011	0.00	3.1	6.20	15.6	0.297	-194	0.24	36.4	3.5
	10/25/2012	NA	NA	6.20	15.5	0.106	5	9.93	252	0.0
	2/6/2013	NA	NA	NM	NM	NM	NM	NM	NM	NM

QUARTERLY REPORT
FIRST QUARTER 2013 (JANUARY THROUGH MARCH)
HOOKER RUCO SITE
HICKSVILLE, NEW YORK

Well	*Date Sampled*	*Drawdown from Initial Water Level* [1] [4] *(feet)*	*Well Screen Volumes Purged* [4]	*pH (S.U.)*	*Temperature (Celsius)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Fe^{+2} (mg/L)*
MW-77D2	4/14/2011	0.00	3.1	6.66	14.2	0.206	-111	0.72	11.2	4.0
	10/25/2012	NA	NA	6.60	15.2	0.190	-35	14.28	31	0.0
	2/6/2013	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-81 D1	4/12/2006	0.16	2.9	6.44	14.5	0.228	-65	0.00	132	1.47
	5/2/2006	0.05	2.9	5.44	15.1	0.303	-31	0.00	0.9	3.20
	5/17/2006	0.00	3.9	6.04	16.8	0.263	-75	0.00	86.4	2.81
	5/25/2006	0.07	2.5	5.62	15.6	0.268	-32	0.00	31.1	>3.3
	10/24/2006	0.08	4.0	5.72	14.5	0.420	15	2.26	14	3.23
	10/25/2006	0.21	0.7	5.77	15.3	0.349	-55	3.01	0.0	9.76
	10/26/2006	-0.08	1.3	6.02	14.7	0.321	-25	0.00	0.0	10.12
	1/29/2007	-0.07	6.1	6.19	13.1	0.429	-55	2.26	704	2.36
	4/19/2007	0.18	5.3	6.20	14.2	0.380	-128	0.00	629	2.06
	7/23/2007	0.07	5.3	6.13	15.9	0.247	-22	0.74	9.2	5.19
	10/9/2007	0.00	7.9	6.02	15.8	0.228	-77	3.08	5.1	4.98
	4/21/2008	0.06	3.6	6.67	15.5	0.181	-99	0.92	0.0	2.69
	10/28/2008	0.00	4.0	5.13	15.3	0.215	292	17.31	336	2.04
	4/7/2009	0.07	4.7	5.75	13.1	0.274	158	0.04	0.0	5.52
	10/15/2009	0.00	1.3	5.30	13.8	0.210	216	8.90	30.7	0.71
	5/6/2010	0.00	2.7	6.03	16.5	0.159	72	0.00	54.3	2.2
	11/17/2010	-0.02	1.8	5.75	15.1	0.116	327	3.54	0.0	0.0
	4/7/2011	0.41	4.3	6.22	13.7	0.210	27	0.48	229	2.2
	11/30/2011	NA	NA	7.16	10.8	0.146	NM	12.58	77.4	NM
	5/23/2012	NA	NA	8.72	18.6	0.135	80	9.90	156	0.44
	11/5/2012	NA	NA	*	12.9	0.182	112	12.24	79.5	2.88
MW-81 D2	4/12/2006	0.05	2.4	5.79	15.2	0.357	-51	0.00	4.1	5.04
	5/4/2006	0.00	5.8	6.12	16.8	0.204	-6	1.10	119	1.37
	5/18/2006	0.12	3.4	8.18	15.1	0.220	-58	0.00	906	>3.30
	5/26/2006	0.21	3.2	8.58	15.8	0.225	-129	0.00	>999	>3.3
	10/24/2006	0.09	3.2	6.33	14.5	0.263	78	16.87	396	2.37
	10/25/2006	-0.04	1.9	6.49	15.7	0.251	73	17.96	170	0.40
	10/26/2006	0.21	1.9	7.64	15.1	0.229	93	15.00	>999	0.74
	1/24/2007	-0.05	5.9	7.21	13.1	0.234	-39	2.90	>999	0.98
	4/18/2007	0.00	1.3	9.84	12.5	0.301	-110	0.00	519	2.71
	7/19/2007	0.08	2.6	6.03	17.6	0.181	48	14.10	121	1.48
	10/10/2007	0.18	7.5	6.72	15.3	0.180	35	7.45	413	9.39
	4/18/2008	0.00	2.4	6.50	15.8	0.171	81	4.23	130	0.45
	10/22/2008	0.10	1.8	7.20	15.6	0.147	107	>20	0.0	0.09
	4/7/2009	0.07	1.3	6.12	12.4	0.161	326	10.58	31.8	0.45
	10/14/2009	0.03	3.4	6.13	15.1	0.162	227	18.39	14.9	0.50
	5/10/2010	-0.06	1.9	6.41	14.9	0.133	93	9.69	0.0	0.50
	11/16/2010	-0.24	4.3	6.32	14.5	0.137	254	13.28	297	1.0
	4/7/2011	0.00	4.9	6.46	13.6	0.181	85	2.92	0.0	0.0
	11/30/2011	NA	NA	6.57	12.8	0.184	NM	11.01	83.0	NM
	5/23/2012	NA	NA	8.90	17.8	0.128	64	10.23	0	1.8
	11/5/2012	NA	NA	*	NM	NM	NM	NM	NM	NM

QUARTERLY REPORT
FIRST QUARTER 2013 (JANUARY THROUGH MARCH)
HOOKER RUCO SITE
HICKSVILLE, NEW YORK

Well	*Date Sampled*	*Drawdown from Initial Water Level* [1] [4] *(feet)*	*Well Screen Volumes Purged* [4]	*pH (S.U.)*	*Temperature (Celsius)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Fe^{+2} (mg/L)*
MW-82 D1	4/17/2006	0.00	2.8	6.88	16.4	0.391	-126	0.00	10.8	1.28
	4/25/2006	0.12	4.9	6.23	17.2	0.351	-170	0.00	281	1.89
	5/11/2006	0.10	2.4	6.39	16.5	0.356	-190	0.00	150	4.32
	5/25/2006	0.00	6.6	6.27	17.8	0.341	-200	0.00	226	5.22
	5/31/2006	0.00	5.0	6.98	20.8	0.374	-214	0.00	297	5.28
	10/24/2006	0.23	0.9	6.44	14.5	0.411	-119	1.93	202	6.14
	10/25/2006	0.00	1.6	7.37	14.5	0.491	-154	0.00	9	9.36
	10/26/2006	0.02	1.0	6.63	16.0	0.317	-142	2.77	116	6.32
	11/30/2006	-0.30	2.6	7.39	15.8	0.463	-158	0.00	252	1.86
	12/20/2006	0.05	2.3	6.89	12.9	0.327	-149	0.00	146	1.98
	1/25/2007	0.05	5.7	7.25	12.9	0.440	-145	1.21	48.8	1.94
	4/20/2007	0.05	2.6	6.76	18.1	0.305	-153	0.76	357	2.79
	7/25/2007	0.05	3.0	5.39	23.0	0.186	95	15.15	73	2.58
	10/18/2007	0.04	3.6	6.04	18.1	0.219	125	0.73	339	5.25
	1/23/2008	0.00	4.2	6.13	13.3	0.239	-38	1.89	7.8	5.82
	4/25/2008	0.45	4.3	4.35	17.5	0.183	108	0.13	81.2	1.49
	7/18/2008	0.03	5.3	5.73	17.6	0.147	96	3.38	0	NM
	10/30/2008	0.00	3.7	4.79	15.9	0.168	309	<20	137	NM
	4/13/2009	0.04	3.5	5.81	14.3	0.184	328	5.35	145	0.21
	10/20/2009	0.03	2.7	5.50	16.4	0.176	231	8.08	0.0	0.26
	5/12/2010	-0.06	1.8	5.81	14.2	0.161	53	7.01	527	0.0
	11/17/2010	0.02	1.8	6.12	16.5	0.097	307	8.00	321	NM
	5/19/2011	0.20	3.1	5.95	15.5	0.161	277	6.70	9.7	0.0
	12/1/2011	NA	NA	7.14	10.7	0.178	NM	14.35	151.0	NM
	5/23/2012	NA	NA	6.77	18.1	0.138	138	7.91	130.0	5.0
	10/26/2012	NA	NA	7.40	18.5	0.154	95	7.18	43.3	0.67
MW-82 D2	4/17/2006	0.08	3.6	6.14	16.2	0.256	-152	0.00	636	5.12
	4/24/2006	0.00	4.3	7.34	15.7	0.295	-367	0.00	315	1.64
	5/25/2006	0.00	2.9	6.06	17.2	0.239	-140	0.00	95	3.02
	6/5/2006	0.05	3.0	6.52	17.7	0.251	-139	0.00	65.1	6.40
	5/31/2006	0.00	3.9	6.54	16.7	0.239	-125	0.00	27.9	6.58
	10/24/2006	0.07	4.1	6.91	16.3	0.231	-166	0.38	234	10.44
	10/25/2006	-0.08	1.0	6.07	15.4	0.282	-95	1.98	6.8	11.64
	10/26/2006	0.14	1.3	6.23	17.5	0.260	-110	3.37	59	8.60
	11/30/2006	0.00	2.7	7.48	16.6	0.313	-179	0.00	37.9	2.31
	12/20/2006	0.00	3.4	7.11	14.1	0.226	-178	0.00	14.1	0.34
	1/25/2007	0.00	3.2	7.23	13.5	0.284	-147	1.70	66.1	2.01
	4/20/2007	0.00	3.4	6.87	18.9	0.182	-183	0.61	182	1.91
	7/25/2007	0.05	3.7	6.49	18.9	0.211	-192	0.50	47	6.56
	10/18/2007	0.05	5.2	9.88	20.6	0.499	-359	2.93	760	1.22
	1/23/2008	0.00	4.2	6.59	13.9	0.183	-147	1.51	61.5	4.74
	4/24/2008	0.28	2.9	7.80	19.0	0.217	-352	0.00	0	2.43
	7/18/2008	0.00	4.7	7.66	25.0	0.153	-472	0.00	0	16.32
	10/30/2008	0.00	1.9	5.62	15.4	0.169	-3	0.84	138	3.01
	4/13/2009	0.03	3.6	6.49	16.5	0.249	282	>20	113	0.05
	10/20/2009	0.09	4.4	6.98	16.5	0.197	-260	0.07	4.5	1.13
	5/12/2010	0.00	3.1	7.38	15.1	0.165	-137	0.00	42	1.0
	11/18/2010	0.17	1.5	6.75	14.8	0.109	276	0.83	21	1.2
	4/27/2011	0.02	4.9	6.52	15.8	0.187	-19	3.38	4.5	1.0
	12/1/2011	NA	NA	8.64	10.4	0.160	NM	11.74	477	NM
	5/23/2012	NA	NA	7.43	17.9	0.159	123	7.97	474	5.0
	10/26/2012	NA	NA	7.91	18.3	0.162	56	>20	0	3.2

QUARTERLY REPORT
FIRST QUARTER 2013 (JANUARY THROUGH MARCH)
HOOKER RUCO SITE
HICKSVILLE, NEW YORK

Well	*Date Sampled*	*Drawdown from Initial Water Level* [1] [4] *(feet)*	*Well Screen Volumes Purged* [4]	*pH (S.U.)*	*Temperature (Celsius)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Fe^{+2} (mg/L)*
MW-83 D1	4/11/2006	0.08	4.3	10.04	15.3	0.472	-195	0.00	648	0.20
	5/1/2006	0.07	4.5	10.35	17.1	0.518	-125	0.00	178	0.44
	5/16/2006	0.01	5.7	11.56	13.5	0.978	-235	0.00	>999	1.20
	5/24/2006	0.05	6.3	10.89	16.0	0.375	-211	0.00	350	1.36
	10/24/2006	0.20	1.0	11.70	13.1	1.190	70	0.00	108	1.94
	10/25/2006	0.11	2.0	12.80	14.4	0.990	-146	0.00	102	0.23
	10/26/2006	0.24	3.1	10.30	14.1	0.561	-64	2.06	9.9	0.06
	1/30/2007	0.03	5.3	11.07	13.4	0.342	6	1.74	79.4	0.01
	4/18/2007	0.00	4.9	10.70	12.7	0.256	-70	0.00	690	0.0
	7/17/2007	0.00	2.4	10.70	16.3	0.271	-14	0.41	12	0.04
	10/12/2007	0.00	12.4	10.10	15.3	0.226	64	3.00	127	0.13
	1/22/2008	0.03	4.4	10.52	13.5	0.283	174	8.34	0.0	0.12
	4/17/2008	0.00	8.4	10.08	14.6	0.275	151	2.32	163	0.03
	7/15/2008	0.03	8.0	9.26	14.9	0.103	216	1.91	0	NM
	10/24/2008	0.03	4.1	8.65	15.6	0.264	291	8.31	35.1	0.04
	4/8/2009	0.10	6.2	7.71	13.7	0.276	274	1.44	61.1	0.09
	10/14/2009	0.01	4.0	7.01	14.9	0.285	361	13.17	141	0.41
	5/5/2010	0.02	6.1	5.50	15.3	0.254	284	3.50	9.1	NM
	11/15/2010	0.05	2.5	8.36	15.2	0.216	271	9.14	317	0.0
	4/7/2011	0.00	3.1	7.12	13.1	0.259	135	4.18	11.8	0.0
	11/30/2011	NA	NA	4.95	13.2	0.187	NM	>20	>999	NM
	5/23/2012	NA	NA	9.47	18.9	0.381	132	12.32	150	0.0
	10/24/2012	NA	NA	5.40	16.3	0.285	276	7.22	105	0.0
MW-83 D2	5/2/2006	-0.25	3.6	6.00	15.0	0.235	7.22	1.70	0.0	0.49
	5/16/2006	0.08	4.5	6.88	15.0	0.224	42	2.02	0.0	0.02
	5/25/2006	0.13	2.4	6.61	15.5	0.216	73	2.91	0.0	0.00
	10/24/2006	0.09	4.9	6.56	13.7	0.226	241	>19.99	17.5	9.88
	10/25/2006	0.10	1.2	6.18	14.3	0.297	179	>20	92	0.0
	10/26/2006	0.10	1.5	6.46	13.1	0.216	171	>20	0.0	0.06
	1/29/2007	0.00	2.9	6.55	10.3	0.197	249	13.20	69.3	0.0
	4/18/2007	0.21	3.4	8.16	13.0	0.233	97	0.00	103	0.0
	7/17/2007	0.04	3.0	6.42	17.3	0.147	289	>19.99	25	0.08
	10/15/2007	0.15	13.0	5.92	15.6	0.140	279	11.44	0.0	0.23
	1/22/2008	0.11	5.3	6.76	13.3	0.174	328	>20	0.0	0.14
	4/17/2008	0.10	11.1	6.35	15.2	0.169	295	>20	0.0	0.04
	7/15/2008	0.34	4.1	7.00	*	0.140	270	8.50	0.0	0.04
	10/21/2008	0.12	2.6	6.26	14.9	0.120	297	0.92	2.9	0.00
	4/8/2009	0.09	2.3	6.04	13.0	0.162	370	20.00	7.1	0.01
	10/13/2009	0.10	2.4	5.70	15.2	0.146	380	19.81	0.0	0.01
	5/6/2010	0.17	2.5	4.38	15.5	0.060	190	11.32	46	NM
	11/16/2010	0.00	2.5	6.85	14.7	0.127	370	16.45	632	0.0
	4/7/2011	0.00	4.3	6.12	13.3	0.170	249	17.54	16.6	0.0
	11/30/2011	NA	NA	6.26	14.2	0.146	NM	16.99	141	NM
	5/23/2012	NA	NA	8.84	17.7	0.156	79	12.67	75	0.0
	10/24/2012	NA	NA	6.53	16.3	0.165	225	9.81	70.8	0.0

QUARTERLY REPORT
FIRST QUARTER 2013 (JANUARY THROUGH MARCH)
HOOKER RUCO SITE
HICKSVILLE, NEW YORK

Well	*Date Sampled*	*Drawdown from Initial Water Level* [1] [4] *(feet)*	*Well Screen Volumes Purged* [4]	*pH (S.U.)*	*Temperature (Celsius)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Fe^{+2} (mg/L)*
MW-84 D1	5/23/2006	0.09	1.7	6.25	16.1	0.301	-71	0.00	18.5	3.19
	5/26/2006	0.00	3.4	6.45	16.8	0.305	-118	0.00	91.9	4.50
	6/6/2006	0.15	4.1	6.55	16.6	0.280	-139	0.00	10.3	5.50
	6/8/2006	0.00	5.1	6.58	16.3	0.263	-163	0.00	10.4	2.35
	10/24/2006	0.00	4.7	5.46	15.7	0.197	50	7.89	54.7	1.44
	10/25/2006	0.06	1.3	6.32	15.4	0.296	86	8.03	0.0	1.37
	10/26/2006	0.04	2.9	6.19	15.8	0.300	78	6.51	77	1.19
	1/30/2007	0.00	3.6	6.16	13.1	0.254	160	7.53	188	1.24
	4/24/2007	0.00	3.6	6.49	16.5	0.249	282	>20	113	0.05
	7/24/2007	0.10	5.1	6.26	19.2	0.137	301	>20	6.9	0.05
	10/17/2007	0.21	4.9	6.45	15.8	0.143	304	8.81	85	0.62
	1/28/2008	0.07	4.5	6.46	13.9	0.157	303	>20	70.4	0.0
	4/24/2008	0.04	4.4	7.34	17.2	0.165	210	0.60	83	0.03
	7/17/2008	0.17	2.8	6.93	20.0	0.141	95	14.51	0.0	0.13
	10/29/2008	0.03	2.8	5.69	14.1	0.125	319	12.18	231	0.0
	4/9/2009	0.14	4.4	5.71	15.2	0.142	214	13.34	12.5	0.0
	10/19/2009	0.10	3.6	6.01	15.5	0.137	271	10.98	0.0	0.19
	5/12/2010	0.00	2.4	6.63	14.7	0.125	127	9.85	30	NM
	11/18/2010	0.00	0.6	6.66	15.4	0.137	207	7.94	6.7	NM
	4/27/2011	0.00	NM	6.45	15.6	0.129	210	7.54	5.3	NM
	12/1/2011	NA	NA	8.82	9.7	0.135	NM	13.98	250	NM
	5/24/2012	NA	NA	7.10	17.7	0.117	185	10.30	283	0.00
	10/26/2012	NA	NA	6.65	16.7	0.156	72	7.29	96.2	1.08
MW-84 D2	5/23/2006	0.15	3.9	6.74	17.4	0.246	-131	0.00	780	12.68
	5/30/2006	0.20	2.4	6.59	18.8	0.241	-152	2.70	595	3.18
	6/6/2006	0.00	5.7	7.17	16.8	0.219	-221	0.00	228	2.70
	6/8/2006	0.00	3.0	6.78	16.5	0.220	-162	0.00	230	3.78
	10/24/2006	0.00	6.8	8.47	14.9	0.295	-90	4.69	131	1.53
	10/25/2006	-0.02	1.0	8.68	15.1	0.395	-47	2.84	127	0.27
	10/26/2006	-0.01	5.0	8.00	15.5	0.393	-77	2.67	>999	0.64
	1/29/2007	0.00	1.9	9.97	12.2	0.322	7	3.91	199	0.18
	4/24/2007	0.10	6.7	10.22	16.5	0.339	138	16.31	470	0.30
	7/24/2007	0.10	8.9	10.33	20.6	0.313	139	>20	200	0.21
	10/17/2007	0.09	4.7	10.88	17.1	0.396	34	4.68	817	0.23
	1/28/2008	0.00	6.5	11.01	13.8	0.789	97	9.91	187	0.79
	4/23/2008	0.20	12.9	10.97	16.8	0.575	6	3.96	603	0.09
	7/17/2008	0.16	4.1	10.05	18.1	0.287	13	14.05	>999	0.27
	10/29/2008	0.00	2.4	10.12	15.6	0.351	160	8.33	320	0.25
	4/9/2009	0.00	4.9	10.45	15.7	0.316	70	10.15	367	0.08
	10/16/2009	0.00	5.8	10.19	14.6	0.257	135	14.65	>999	1.45
	5/25/2010	0.00	3.1	10.63	21.9	0.233	-20	11.75	430	0.0
	11/18/2010	0.00	2.5	10.67	15.3	0.235	-21	0.79	>999	0.0
	4/15/2011	0.00	3.1	10.65	13.4	0.056	-49	0.37	144	0.0
	12/1/2011	NA	NA	10.67	9.3	0.242	NM	11.00	885	NM
	5/24/2012	NA	NA	6.84	19.4	0.123	114	4.83	0	0.5
	10/26/2012	NA	NA	10.20	16.6	0.251	-28	3.14	800	5.0
MW-85S	4/20/2011	0.25	3.1	6.16	14.1	0.144	46	4.38	21.3	0.5
	10/26/2012	NA	NA	NM	NM	NM	NM	NM	NM	NM
	2/4/2013	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-85I	4/20/2011	0.13	3.1	6.14	14.5	0.144	93	2.90	67	2.4
	10/26/2012	NA	NA	NM	NM	NM	NM	NM	NM	NM
	2/4/2013	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-85D1	4/20/2011	0.00	2.6	6.87	15.1	0.253	-33	3.75	160	(3)
	10/26/2012	NA	NA	6.63	18.30	0.137	18	>20	286	5.0
	2/4/2013	NA	NA	8.44	8.9	0.207	1	7.26	580	2.0
MW-85D2	4/20/2011	0.00	3.7	6.35	14.7	0.201	-190	1.59	3.6	4.0
	10/26/2012	NA	NA	7.96	18.2	0.196	29	14.34	800	5.0
	2/4/2013	NA	NA	NM	NM	NM	NM	NM	NM	NM

QUARTERLY REPORT
FIRST QUARTER 2013 (JANUARY THROUGH MARCH)
HOOKER RUCO SITE
HICKSVILLE, NEW YORK

Well	*Date Sampled*	*Drawdown from Initial Water Level* [1] [4] *(feet)*	*Well Screen Volumes Purged* [4]	*pH (S.U.)*	*Temperature (Celsius)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Fe^{+2} (mg/L)*
MW-86D1	4/18/2011	0.00	3.1	6.53	14.6	0.240	-107	0.74	79.0	2.0
	10/24/2012	NA	NA	6.23	16.8	0.226	67	>20	100	0.68
	2/6/2013	NA	NA	6.84	9.0	0.122	87	14.5	0.0	1.0
MW-86D2	4/18/2011	0.01	2.5	6.89	15.1	0.219	-107	1.24	34.6	3.0
	10/24/2012	NA	NA	6.80	16.9	0.178	-115	2.49	422	0.39
	2/6/2013	NA	NA	7.11	11.3	0.160	-45	13.05	800	2.0
MW-87 D1	4/5/2006	-0.04	2.9	5.04	12.8	0.197	142	0.00	64	0.99
	4/20/2006	0.02	3.9	4.94	17.5	0.184	218	0.00	43.8	0.30
	5/4/2006	0.02	2.6	5.03	16.2	0.187	231	0.00	0.0	0.34
	5/15/2006	0.02	2.0	5.28	15.1	0.165	207	0.00	66.2	0.27
	10/24/2006	0.25	4.5	5.45	14.9	0.229	234	0.70	5.4	0.17
	10/25/2006	-0.01	2.8	5.23	15.9	0.224	221	0.00	0.0	0.35
	10/26/2006	0.03	2.1	5.26	15.0	0.192	226	2.63	22.2	0.05
	1/24/2007	0.10	2.1	5.31	14.7	0.200	248	0.78	11.0	0.10
	4/17/2007	0.10	5.3	5.47	14.5	0.999	169	0.00	62	0.14
	7/17/2007	0.00	4.0	5.30	17.2	0.186	223	0.44	54	0.09
	10/8/2007	0.00	5.7	5.30	19.1	0.229	203	4.39	17.3	0.40
	4/16/2008	0.07	9.0	5.04	15.7	0.193	322	8.35	220	0.05
	10/21/2008	0.00	3.4	4.34	15.0	0.193	463	>20	16.2	0.00
	4/7/2009	0.00	3.6	5.12	14.0	0.148	289	8.62	0.0	0.00
	10/13/2009	0.03	2.4	4.60	16.1	0.205	379	16.18	0.0	0.17
	5/3/2010	0.00	4.9	3.23	16.2	0.170	282	5.74	2.0	0.0
	11/29/2010	0.00	3.4	5.88	16.2	0.133	192	2.75	5.8	0.0
	4/19/2011	0.05	2.5	5.18	13.6	0.200	300	3.72	325	0.0
	11/30/2011	NA	NA	6.32	14.5	0.156	NM	13.98	80.2	NM
	5/24/2012	NA	NA	6.28	18.5	0.154	149	11.51	74.0	1.4
	11/5/2012	NA	NA	8.67	13.2	0.151	105	>20	104	1.6
MW-87 D2	4/5/2006	0.00	2.8	5.21	14.1	0.172	121	1.81	129	1.14
	4/25/2006	-0.05	5.1	5.40	15.5	0.163	149	2.62	42.8	0.20
	5/15/2006	0.32	4.3	5.80	15.4	0.152	104	1.59	54.8	NM
	5/24/2006	0.10	4.9	5.45	16.2	0.155	163	1.62	0.0	1.36
	10/24/2006	0.13	3.9	5.69	15.5	0.183	212	4.00	131	0.08
	10/25/2006	0.06	1.5	5.34	15.5	0.173	137	6.68	25.5	0.09
	10/26/2006	-0.03	2.1	5.37	15.2	0.160	226	4.53	0.0	0.02
	1/24/2007	0.00	4.7	5.61	13.3	0.186	131	3.64	160	0.25
	4/17/2007	0.00	5.3	5.83	14.5	0.228	106	3.89	0.9	0.09
	7/16/2007	0.00	2.0	5.65	17.8	0.168	145	3.31	5.1	0.07
	10/9/2007	0.18	2.9	5.57	16.2	0.172	287	7.45	60.1	0.12
	4/16/2008	0.00	6.9	5.37	15.9	0.174	288	5.39	0.0	0.01
	10/21/2008	0.08	1.6	4.65	16.9	0.158	440	9.66	27	0.00
	4/7/2009	0.03	4.4	4.60	13.0	0.175	346	9.90	7.0	0.06
	10/13/2009	0.00	2.1	5.05	16.0	0.176	341	5.30	49.7	0.26
	5/5/2010	0.05	0.2	4.34	15.3	0.138	222	4.15	17.1	NM
	11/15/2010	0.01	2.5	5.21	15.4	0.148	397	12.41	7.7	0.0
	4/18/2011	0.00	3.1	5.52	14.9	0.173	234	3.46	5.6	0.0
	11/30/2011	NA	NA	6.94	12.7	0.110	NM	11.08	52.2	NM
	5/24/2012	NA	NA	NM	NM	NM	NM	NM	NM	2.1
	11/5/2012	NA	NA	7.91	18.3	0.162	86	>20	0.0	1.0

QUARTERLY REPORT
FIRST QUARTER 2013 (JANUARY THROUGH MARCH)
HOOKER RUCO SITE
HICKSVILLE, NEW YORK

Well	*Date Sampled*	*Drawdown from Initial Water Level* [1] [4] *(feet)*	*Well Screen Volumes Purged* [4]	*pH (S.U.)*	*Temperature (Celsius)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Fe^{+2} (mg/L)*
MW-88 D1	4/19/2006	0.08	2.9	6.09	17.9	0.273	-90	0.00	>999	9.64
	4/26/2006	0.32	6.7	5.99	16.7	0.204	-53	0.00	589	4.96
	5/10/2006	0.25	4.2	5.68	15.4	0.200	-2	0.00	393	2.75
	5/30/2006	0.00	3.6	5.90	17.1	0.188	-65	3.13	408	3.62
	6/1/2006	0.10	5.0	6.13	19.9	0.188	-73	0.00	367	5.12
	10/24/2006	0.06	1.8	6.06	15.6	0.252	-43	0.00	88.6	11.04
	10/25/2006	0.09	1.4	5.86	15.3	0.233	-13	0.00	4.7	10.20
	10/26/2006	0.00	3.4	5.59	15.6	0.317	33	3.36	415	6.56
	1/30/2007	0.10	2.9	6.12	11.8	0.193	-45	1.16	257	2.01
	4/19/2007	0.03	4.9	5.84	15.4	0.187	172	11.88	334	1.84
	7/26/2007	0.22	2.0	5.75	22.4	0.249	232	9.48	284	0.74
	10/16/2007	0.00	2.5	6.35	17.7	0.226	3	0.02	92	5.47
	4/25/2008	0.11	2.8	6.11	17.8	0.226	225	5.95	967	0.52
	10/30/2008	NM	3.8	5.06	15.8	0.200	339	>20	14.1	0.00
	4/13/2009	0.01	5.5	5.46	16.0	0.174	205	16.71	>999	0.31
	10/21/2009	0.02	2.1	5.66	16.0	0.235	253	>20	268	0.47
	5/11/2010	0.02	5.7	5.94	15.5	0.191	177	19.00	177	0.50
	11/17/2010	0.03	2.5	6.12	17.0	0.121	366	13.04	39.7	0.0
	4/15/2011	0.00	3.1	5.89	14.0	0.195	184	14.39	163	0.0
	12/1/2011	NA	NA	7.51	8.6	0.182	NM	17.16	>999	NM
	5/24/2012	NA	NA	9.06	18.7	0.252	65	8.82	594	0.0
	10/26/2012	NA	NA	6.94	17.6	0.200	83	10.88	204	1.15
MW-88 D2	4/20/2006	0.00	3.7	6.25	17.4	0.244	-152	0.00	951	6.16
	5/10/2006	0.03	3.5	8.05	16.6	0.330	-331	0.00	>999	9.44
	6/1/2006	0.00	4.9	7.24	18.5	0.287	-210	0.00	>999	12.95
	6/7/2006	0.10	4.3	8.44	15.9	0.320	-380	0.00	>999	12.52
	10/24/2006	0.00	5.8	9.10	15.8	0.387	-282	1.44	>999	18.96
	10/25/2006	0.17	1.0	9.44	15.0	0.426	-253	1.97	>999	11.40
	10/26/2006	0.00	1.5	7.33	17.7	0.286	-212	0.00	>999	NM
	1/25/2007	0.00	8.5	9.17	11.3	0.323	-315	0.82	993	0.16
	4/19/2007	0.10	4.0	7.13	16.8	0.278	-219	0.37	>999	2.17
	7/26/2007	0.31	2.5	9.18	31.2	0.427	-333	0.44	>999	1.21
	10/16/2007	0.03	5.7	7.48	18.2	0.192	-291	3.04	145	9.39
	4/25/2008	1.60	4.3	6.28	17.0	0.164	40	8.02	>999	2.65
	10/31/2008	0.00	5.3	6.64	17.5	0.191	45	8.94	435	2.70
	4/14/2009	0.08	11.9	5.99	13.9	0.206	41	9.94	>999	0.98
	10/20/2009	0.03	9.2	6.94	16.2	0.265	-3	4.67	325	4.49
	5/11/2010	-0.13	4.7	7.30	15.5	0.230	-5	5.70	697	0.50
	1/20/2011	0.00	1.9	9.99	11.3	0.450	232	5.58	206	0.00
	4/19/2011	0.00	1.9	10.35	14.4	0.522	-585	3.35	320	0.0
	12/1/2011	NA	NA	9.87	12.0	0.470	NM	9.81	85.2	NM
	5/24/2012	NA	NA	10.36	18.0	0.403	22	5.73	304.0	0.0
	10/26/2012	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-89D1	4/21/2011	0.00	3.7	6.77	15.2	0.401	-142	1.57	558	6.0
	10/24/2012	NA	NA	8.12	15.8	0.190	17	9.68	102	0.0
	2/6/2013	NA	NA	8.82	9.4	0.236	-70	8.99	0.0	0.0
MW-89D2	4/21/2011	0.00	3.1	7.60	14.6	0.373	-154	2.43	118	1.0
	10/24/2012	NA	NA	8.56	16.2	0.355	-95	10.73	141	0.0
	2/6/2013	NA	NA	7.41	9.0	0.381	-122	10.05	0.0	0.0
MW-90 D1	6/13/2006	0.10	7.8	6.25	17.0	0.230	-112	0.00	76.8	4.10
	4/25/2007	0.00	4.9	6.07	16.1	0.231	-100	0.93	542	2.30
	4/13/2011	-0.01	1.8	6.54	12.9	0.256	-103	0.34	14.6	NM
	10/25/2012	NA	NA	NM	NM	NM	NM	NM	NM	NM
	2/6/2013	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-90 D2	6/13/2006	0.05	7.8	5.91	18.4	0.191	-9	0.20	95.3	3.06
	4/25/2007	0.05	4.7	5.95	15.3	0.209	-47	1.38	102	1.76
	5/17/2010	0.00	12.9	5.75	15.5	0.186	-112	0.00	147	2.5
	4/14/2011	0.02	3.1	6.09	15.3	0.197	12	4.03	0.0	1.0
	2/6/2013	NA	NA	NM	NM	NM	NM	NM	NM	NM

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2013 (JANUARY THROUGH MARCH)
HOOKER RUCO SITE
HICKSVILLE, NEW YORK

Well	*Date Sampled*	*Drawdown from Initial Water Level* [(1) (4)] *(feet)*	*Well Screen Volumes Purged* [(4)]	*pH (S.U.)*	*Temperature (Celsius)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Fe^{+2} (mg/L)*
MW-92D1	4/12/2011	0.00	1.8	7.10	12.1	0.421	-190	1.13	34.0	4.0
MW-92D2	4/25/2011	0.02	3.1	6.69	15.7	0.206	-156	2.00	1.3	1.5
MW-93D1	4/26/2011	0.00	3.7	7.11	16.0	0.245	-191	2.18	800	2.5
MW-93D2	4/26/2011	0.00	3.1	7.34	15.6	0.203	-219	2.96	35.1	2.0

Notes:

(1) Negative indicates groundwater level during purging higher than initial water level
(2) Orange colored
(3) Black coloured water prevented reading on colorimetric meter
(4) Samples during and subsequent to November 2011 were collected using PDB/HydraSleeve samplers. No purging was required.
NA - Not applicable
NM - Not measured (insufficient sample volume for all samples subsequent to 11/30/2011)
* - Probe malfunctioned

TABLE 3

PRIMARY DETECTED COMPOUNDS IN VADOSE ZONE AIR
BIOSPARGE SYSTEM
HOOKER/RUCO SITE
HICKSVILLE, NEW YORK

	VZ-1S	
	Well Screen Interval: 6.0 to 8.0 ft bgs	
Parameter	***11/6/2012***	***2/6/2013***
Acetone	14.3	3.9
Carbon Disulfide	ND	ND
Ethanol	ND	1.5
Methyl Ethyl Ketone	505	13.7
Methyl Chloride	ND	ND
Tetrachloroethene	3.5J	2.5
Tetrahydrofuran	1,320	2.2
Toluene	ND	ND
Vinyl Chloride	ND	ND

	VZ-1D	
	Well Screen Interval: 41.0 to 46.0 ft bgs	
Parameter	***11/6/2012***	***2/6/2013***
Acetone	628	387
Carbon Disulfide	140	109
Ethanol	ND	90
Methyl Ethyl Ketone	1030	46
Methyl Chloride	ND	22
Tetrachloroethene	ND	ND
Tetrahydrofuran	6020	1530
Toluene	39	132
Vinyl Chloride	ND	ND

Notes

(1) Units are ppbv
J - Estimated concentrations

TABLE 3

PRIMARY DETECTED COMPOUNDS IN VADOSE ZONE AIR
BIOSPARGE SYSTEM
HOOKER/RUCO SITE
HICKSVILLE, NEW YORK

VZ-2S
Well Screen Interval: 6.0 to 8.0 ft bgs

Parameter	*4/28/2011*	*11/6/2012*	*2/6/2013*
Acetone	4.4	22	1.6
Carbon Disulfide	ND	ND	ND
Ethanol	2.6	40	1.1
Methyl Ethyl Ketone	0.52	ND	14
Methyl Chloride	ND	ND	ND
Tetrachloroethene	0.33J	ND	0.58
Tetrahydrofuran	0.38J	ND	27
Toluene	0.85	ND	ND
Vinyl Chloride	ND	ND	ND

VZ-2D
Well Screen Interval: 44.0 to 49.0 ft bgs

Parameter	*4/28/2011*	*11/6/2012*	*2/6/2013*
Acetone	ND	87	ND
Carbon Disulfide	3.9	ND	5.5
Ethanol	4.3	ND	5.3
Methyl Ethyl Ketone	2.0J	334	8.8
Methyl Chloride	3.6	ND	6.7
Tetrachloroethene	1.8J	ND	1.3
Tetrahydrofuran	2.0J	1050	12
Toluene	18.0	ND	ND
Vinyl Chloride	ND	ND	2.8

Notes

(1) Units are ppbv
J - Estimated concentrations

TABLE 3

PRIMARY DETECTED COMPOUNDS IN VADOSE ZONE AIR
BIOSPARGE SYSTEM
HOOKER/RUCO SITE
HICKSVILLE, NEW YORK

VZ-4S
Well Screen Interval: 6.0 to 8.0 ft bgs

Parameter	*12/8/2011*	*11/6/2012*	*2/6/2013*
Acetone	1.9J	287	4.9
Carbon Disulfide	ND	240	0.50
Ethanol	ND	ND	3.1
Methyl Ethyl Ketone	68.0	428	22
Methyl Chloride	ND	43	0.41J
Tetrachloroethene	3.4	ND	2.0
Tetrahydrofuran	221.0	4,530	32
Toluene	ND	50	ND
Vinyl Chloride	ND	ND	ND

VZ-4D
Well Screen Interval: 43.0 to 48.0 ft bgs

Parameter	*12/8/2011*	*11/6/2012*	*2/6/2013*
Acetone	5.8	4.3	ND
Carbon Disulfide	66	ND	118
Ethanol	ND	2.6	ND
Methyl Chloride	6.2	ND	16
Methyl Ethyl Ketone	45	16	13
Tetrachloroethene	9.4	1.2	ND
Tetrahydrofuran	460	36	1150
Toluene	ND	ND	ND
Vinyl Chloride	ND	ND	ND

Notes

(1) Units are ppbv
J - Estimated concentrations

TABLE 3

PRIMARY DETECTED COMPOUNDS IN VADOSE ZONE AIR
BIOSPARGE SYSTEM
HOOKER/RUCO SITE
HICKSVILLE, NEW YORK

VZ-5S
Well Screen Interval: 6.0 to 8.0 ft bgs

Parameter	*4/26/2011*	*11/6/2012*	*2/6/2013*
Acetone	7.7	43,100	793
Carbon Disulfide	0.23J	ND	ND
Ethanol	2.6	ND	45
Methyl Ethyl Ketone	1.0	55,300	1230
Methyl Chloride	ND	ND	ND
Tetrachloroethene	0.99	ND	ND
Tetrahydrofuran	1.0	141,000	2350
Toluene	0.34J	871J	87
Vinyl Chloride	ND	ND	ND

VZ-5D
Well Screen Interval: 41.0 to 46.0 ft bgs

Parameter	*4/26/2011*	*11/6/2012*	*2/6/2013*
Acetone	2,640	118	74
Carbon Disulfide	21	156	126
Ethanol	48	ND	11
Methyl Ethyl Ketone	8.4J	75	25
Methyl Chloride	ND	26	21
Tetrachloroethene	ND	2.7J	6.0
Tetrahydrofuran	ND	561	245
Toluene	38	ND	ND
Vinyl Chloride	ND	20	5.3

Notes

(1) Units are ppbv
J - Estimated concentrations

TABLE 3

PRIMARY DETECTED COMPOUNDS IN VADOSE ZONE AIR
BIOSPARGE SYSTEM
HOOKER/RUCO SITE
HICKSVILLE, NEW YORK

VZ-6S
Well Screen Interval: 6.0 to 8.0 ft bgs

Parameter	*4/27/2011*	*11/6/2012*	*2/6/2013*
Acetone	1.3	3.9	2.6
Carbon Disulfide	ND	1.8	ND
Ethanol	2.0	ND	14
Methyl Ethyl Ketone	0.38J	30	15
Methyl Chloride	ND	0.86	0.46J
Tetrachloroethene	0.56	ND	0.57
Tetrahydrofuran	0.35J	95	28
Toluene	0.20J	ND	ND
Vinyl Chloride	ND	ND	ND

VZ-6D
Well Screen Interval: 44.0 to 49.0 ft bgs

Parameter	*12/8/2011*	*11/6/2012*	*2/6/2013*
Acetone	3.1	14	4.1
Carbon Disulfide	ND	120	0.62
Ethanol	1.0	ND	1.7
Methyl Chloride	0.41J	49	0.88
Methyl Ethyl Ketone	31	50	21
Tetrachloroethene	0.27J	ND	0.63
Tetrahydrofuran	65	920	21
Toluene	ND	ND	ND
Vinyl Chloride	ND	ND	ND

Notes

(1) Units are ppbv
J - Estimated concentrations

TABLE 3

PRIMARY DETECTED COMPOUNDS IN VADOSE ZONE AIR
BIOSPARGE SYSTEM
HOOKER/RUCO SITE
HICKSVILLE, NEW YORK

VZ-12S
Well Screen Interval: 6.0 to 8.0 ft bgs

Parameter	*4/21/2011*	*11/6/2012*	*2/6/2013*
Acetone	4.6	13	1.9
Carbon Disulfide	0.19J	13	ND
Ethanol	1.7	ND	3.0
Methyl Ethyl Ketone	1.5	590	16
Methyl Chloride	ND	8.2J	ND
Tetrachloroethene	22	6.8J	6.1
Tetrahydrofuran	4.1	1010	5.2
Toluene	ND	ND	ND
Vinyl Chloride	1.5	ND	ND

VZ-12D
Well Screen Interval: 43.5 to 48.5 ft bgs

Parameter	*4/21/2011*	*11/6/2012*	*2/6/2013*
Acetone	3.2	738	810
Carbon Disulfide	1.7	ND	54J
Ethanol	1.3	ND	195
Methyl Chloride	0.56	ND	ND
Methyl Ethyl Ketone	1.6	14,800	1,830
Tetrachloroethene	19	ND	ND
Tetrahydrofuran	3.9	24,200	4360
Toluene	0.23J	ND	321
Vinyl Chloride	ND	ND	ND

Notes:

(1) Units are ppbv
J - Estimated Concentration
NL - Not Listed

TABLE 3

PRIMARY DETECTED COMPOUNDS IN VADOSE ZONE AIR
BIOSPARGE SYSTEM
HOOKER/RUCO SITE
HICKSVILLE, NEW YORK

VZ-17S
Well Screen Interval: 6.0 to 8.0 ft bgs

Parameter	*4/21/2011*	*11/6/2012*	*2/6/2013*
Acetone	3.7	2.6	1.8
Carbon Disulfide	0.52	1.5	0.46J
Ethanol	4.8	0.73	2.1
Methyl Ethyl Ketone	1.4	30	20
Methyl Chloride	0.56	0.52	ND
Tetrachloroethene	10	17	6.6
Tetrahydrofuran	3.2	24	9.6
Toluene	0.25J	ND	ND
Vinyl Chloride	ND	ND	ND

VZ-17D
Well Screen Interval: 33.0 to 38.0 ft bgs

Parameter	*4/21/2011*	*11/6/2012*	*2/6/2013*
Acetone	16	39	2.2
Carbon Disulfide	1.5	23	17
Ethanol	8.9	1.0	2.7
Methyl Chloride	0.6	9.6	9.3
Methyl Ethyl Ketone	6.9	35	16
Tetrachloroethene	16	15	14
Tetrahydrofuran	8.5	27	29
Toluene	0.71	0.27J	ND
Vinyl Chloride	0.37J	2.2	2.4

Notes:

(1) Units are ppbv
J - Estimated Concentration
NL - Not Listed

ATTACHMENTS

- County of Nassau Department of Public Works Discharge Permit
- Well Rehabilitation Works Wastewater Analytical Results
  - March 20, 21, and 26
- QA/QC Review
  - First Quarterly 2013 Biosparge System Performance Monitoring Event
- Electronic Data Deliverable (EPA only)

EDWARD MANGANO
COUNTY EXECUTIVE

SHILA SHAH-GAVNOUDIAS, P.E.
COMMISSIONER

COUNTY OF NASSAU
DEPARTMENT OF PUBLIC WORKS
1194 Prospect Avenue
Westbury, New York 11590-2723

March 12, 2013

Mr. Roger Smith
Glen Springs Holding, Inc.
5005 LBJ Freeway, Suite 1350
Dallas, Texas 75244-5119

Re: 2013 Renewal for Disposal of Biosparge System Wells
Hooker-Ruco Site, Hicksville, New York

Dear Mr. Smith:

This letter is in response to your letter dated February 19, 2013, requesting a renewal of the approval to dispose of wastewater generated from the operation of the existing Biosparge System Wells to the County's Sanitary Sewer System located at the above referenced site.

The sources of the wastewater and their estimated volumes for the next three (3) years are:

1. Rehabilitation of five (5) air injection wells in the Spring of 2013 (2500 to 3000 gallons)
2. Watewater obtained from the water injection system when pressure is released between injection cycles (100 to 200 gallons per day, 5 days per week)
3. Condensate from the air compressor (less than 430 gallons per week)

The request is hereby conditionally approved. As stated in my March 11, 2010 letter, "Wells that have been consistently below 0.5 ppm can be discharged without a sample. However, wells with a history of greater than 0.5 ppm organics will continue to be batch sampled; as well as any new wells that do not have a documented organic concentration history. In addition, you must keep a log of all batches discharged, indicating wells, volume discharged and if a sample was collected." All samples requiring analysis will be analyzed by EPA Method 624. This approval is limited to only the liquid phase wastes pumped from the above referenced site's monitoring wells. The water will be discharged directly into the site's existing sewer connection. The water can be discharged at a rate not to exceed 100 gallons per minute (gpm). This Department reserves the right to cancel this temporary approval at any time.

As requested in your February 19, 2013 letter, this Department hereby grants a three (3) year period for this approval (ending on March 11, 2016); a disposal fee for the three (3) year period of $1500.00 shall be accessed; by copy of this letter, the Department's Division of Administration will invoice your company for the disposal fee.

If you have any questions concerning the above matter, please call me at (516) 571-7353.

Very truly yours,

Peter J. Witkowski
Director of Hazardous Waste Services

PJW

c. Joseph L. Davenport, Chief Sanitary Engineer, Water/Wastewater Engineering Unit

H 2 M labs

575 Broad Hollow Rd. , Melville, NY
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Glenn Springs Holdings - GSHHPG
5005 Lyndon B Johnson Freeway
Dallas, TX 75244
Attn To : Jeff Kogut
Collected 3/20/2013 3:35:00 PM
Received : 3/20/2013 4:10:00 PM
Collected By SD99

Lab No. : 1303A04-001
Client Sample ID: WW-6883-032013-5D-001

Sample Information:
Type : Water

Origin:

Analytical Method: E624 Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1-Trichloroethane	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
1,1,2-Trichloroethane	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
1,1-Dichloroethane	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
1,1-Dichloroethene	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
1,2-Dichlorobenzene	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
1,2-Dichloroethane	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
1,2-Dichloropropane	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
1,3-Dichlorobenzene	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
1,4-Dichlorobenzene	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
2-Chloroethylvinyl ether	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Acrolein	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Acrylonitrile	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Benzene	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Bromodichloromethane	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Bromoform	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Bromomethane	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Carbon tetrachloride	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Chlorobenzene	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Chloroethane	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Chloroform	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Chloromethane	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
cis-1,2-Dichloroethene	2.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Dibromochloromethane	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Dichlorodifluoromethane	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Ethylbenzene	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Methylene chloride	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Tetrachloroethene	10		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
Toluene	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
trans-1,2-Dichloroethene	< 1.0		1	µg/L	03/20/2013 6:01 PM	Container-01 of 02
trans-1,3-Dichloropropene	< 1.0	c	1	µg/L	03/20/2013 6:01 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Date Reported :

PRELIMINARY

Test results meet the requirements of NELAC unless otherwise noted.

H 2 M labs

575 Broad Hollow Rd., Melville, NY
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Glenn Springs Holdings - GSHHPG
5005 Lyndon B Johnson Freeway
Dallas, TX 75244
Attn To : Jeff Kogut
Collected 3/20/2013 3:35:00 PM
Received 3/20/2013 4:10:00 PM
Collected By SD99

Lab No. : 1303A04-001
Client Sample ID: WW-6883-032013-5D-001

Sample Information:
Type : Water

Origin:

Analytical Method: E624 Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units		Analyzed:	Container:
Trichloroethene	27		1	µg/L		03/20/2013 6:01 PM	Container-01 of 02
Trichlorofluoromethane	< 1.0		1	µg/L		03/20/2013 6:01 PM	Container-01 of 02
Vinyl chloride	1.9		1	µg/L		03/20/2013 6:01 PM	Container-01 of 02
Xylene (total)	< 1.0		1	µg/L		03/20/2013 6:01 PM	Container-01 of 02
Surr: 1,2-Dichloroethane-d4	118		1	%REC	Limit 51-156	03/20/2013 6:01 PM	Container-01 of 02
Surr: 4-Bromofluorobenzene	99.0		1	%REC	Limit 40-150	03/20/2013 6:01 PM	Container-01 of 02
Surr: Toluene-d8	102		1	%REC	Limit 61-156	03/20/2013 6:01 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Date Reported :

PRELIMINARY

Test results meet the requirements of NELAC unless otherwise noted.

H 2 M labs

575 Broad Hollow Rd. , Melville, NY
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Glenn Springs Holdings - GSHHPG
5005 Lyndon B Johnson Freeway
Dallas, TX 75244
Attn To : Jeff Kogut
Collected :3/21/2013 1:00:00 PM
Received :3/21/2013 1:38:00 PM
Collected By SD99

Lab No. : 1303A58-001
Client Sample ID: WW-6883-032113-SD-002

Sample Information:
Type : Water

Origin:

Analytical Method: E624 Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1-Trichloroethane	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
1,1,2-Trichloroethane	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
1,1-Dichloroethane	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
1,1-Dichloroethene	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
1,2-Dichlorobenzene	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
1,2-Dichloroethane	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
1,2-Dichloropropane	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
1,3-Dichlorobenzene	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
1,4-Dichlorobenzene	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
2-Chloroethylvinyl ether	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Acrolein	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Acrylonitrile	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Benzene	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Bromodichloromethane	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Bromoform	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Bromomethane	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Carbon tetrachloride	< 1.0	cs	1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Chlorobenzene	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Chloroethane	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Chloroform	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Chloromethane	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
cis-1,2-Dichloroethene	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Dibromochloromethane	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Dichlorodifluoromethane	< 1.0	cs	1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Ethylbenzene	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Methylene chloride	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Tetrachloroethene	3.1		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
Toluene	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
trans-1,2-Dichloroethene	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02
trans-1,3-Dichloropropene	< 1.0		1	µg/L	03/22/2013 12:44 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Date Reported :

PRELIMINARY

Test results meet the requirements of NELAC unless otherwise noted.

H 2 M labs

575 Broad Hollow Rd., Melville, NY
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Glenn Springs Holdings - GSHHPG
5005 Lyndon B Johnson Freeway
Dallas, TX 75244
Attn To : Jeff Kogut
Collected :3/21/2013 1:00:00 PM
Received :3/21/2013 1:38:00 PM
Collected By SD99

Lab No. : 1303A58-001
Client Sample ID: WW-6883-032113-SD-002

Sample Information:
Type : Water

Origin:

Analytical Method: E624 Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units		Analyzed:	Container:
Trichloroethene	3.6		1	µg/L		03/22/2013 12:44 PM	Container-01 of 02
Trichlorofluoromethane	< 1.0		1	µg/L		03/22/2013 12:44 PM	Container-01 of 02
Vinyl chloride	1.1		1	µg/L		03/22/2013 12:44 PM	Container-01 of 02
Xylene (total)	< 1.0		1	µg/L		03/22/2013 12:44 PM	Container-01 of 02
Surr: 1,2-Dichloroethane-d4	114		1	%REC	Limit 51-156	03/22/2013 12:44 PM	Container-01 of 02
Surr: 4-Bromofluorobenzene	97.3		1	%REC	Limit 40-150	03/22/2013 12:44 PM	Container-01 of 02
Surr: Toluene-d8	101		1	%REC	Limit 61-156	03/22/2013 12:44 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Date Reported :

PRELIMINARY

Test results meet the requirements of NELAC unless otherwise noted.

H2M labs

575 Broad Hollow Rd., Melville, NY
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Glenn Springs Holdings - GSHHPG
5005 Lyndon B Johnson Freeway
Dallas, TX 75244
Attn To : Roger Smith
Collected : 3/26/2013 2:00:00 PM
Received : 3/26/2013 2:45:00 PM
Collected By SD99

Lab No. : 1303C39-001
Client Sample ID: WW-6883-032613-SD-003

Sample Information:
Type : Water

Origin:

Analytical Method: E624 Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1-Trichloroethane	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
1,1,2-Trichloroethane	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
1,1-Dichloroethane	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
1,1-Dichloroethene	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
1,2-Dichlorobenzene	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
1,2-Dichloroethane	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
1,2-Dichloropropane	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
1,3-Dichlorobenzene	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
1,4-Dichlorobenzene	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
2-Chloroethylvinyl ether	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Acrolein	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Acrylonitrile	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Benzene	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Bromodichloromethane	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Bromoform	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Bromomethane	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Carbon tetrachloride	< 1.0	s	1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Chlorobenzene	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Chloroethane	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Chloroform	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Chloromethane	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
cis-1,2-Dichloroethene	1.6		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Dibromochloromethane	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Dichlorodifluoromethane	< 1.0	cs	1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Ethylbenzene	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Methylene chloride	1.4	B	1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Tetrachloroethene	6.1	s	1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
Toluene	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
trans-1,2-Dichloroethene	< 1.0		1	µg/L	03/27/2013 1:31 PM	Container-01 of 02
trans-1,3-Dichloropropene	< 1.0	c	1	µg/L	03/27/2013 1:31 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Date Reported :

PRELIMINARY

Test results meet the requirements of NELAC unless otherwise noted.

H 2 M labs

575 Broad Hollow Rd. , Melville, NY
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Glenn Springs Holdings - GSHHPG
5005 Lyndon B Johnson Freeway
Dallas, TX 75244
Attn To : Roger Smith
Collected : 3/26/2013 2:00:00 PM
Received : 3/26/2013 2:45:00 PM
Collected By SD99

Lab No. : 1303C39-001
Client Sample ID: WW-6883-032613-SD-003

Sample Information:
Type : Water

Origin:

Analytical Method: E624 Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units		Analyzed:	Container:
Trichloroethene	9.1	s	1	µg/L		03/27/2013 1:31 PM	Container-01 of 02
Trichlorofluoromethane	< 1.0		1	µg/L		03/27/2013 1:31 PM	Container-01 of 02
Vinyl chloride	1.1		1	µg/L		03/27/2013 1:31 PM	Container-01 of 02
Xylene (total)	< 1.0		1	µg/L		03/27/2013 1:31 PM	Container-01 of 02
Surr: 1,2-Dichloroethane-d4	115		1	%REC	Limit 51-156	03/27/2013 1:31 PM	Container-01 of 02
Surr: 4-Bromofluorobenzene	101		1	%REC	Limit 40-150	03/27/2013 1:31 PM	Container-01 of 02
Surr: Toluene-d8	102		1	%REC	Limit 61-156	03/27/2013 1:31 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Date Reported :

PRELIMINARY

Test results meet the requirements of NELAC unless otherwise noted.

CONESTOGA-ROVERS & ASSOCIATES

2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
Telephone: (716) 297-6150 Fax: (716) 297-2265
www.CRAworld.com

MEMORANDUM

TO: Klaus Schmidtke

REF. NO.: 006883

FROM: Kathleen Willy/bjw/4

DATE: March 14, 2013

RE: **Analytical Results and Full Validation**
Quarterly Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
February 2013

E-Mail and Hard Copy if Requested

INTRODUCTION

The following document details a validation of analytical results for groundwater and soil vapor samples collected in support of the quarterly groundwater monitoring at the Hicksville Site during February 2013. Samples were submitted to Mitkem Laboratories, located in Warwick, Rhode Island. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Tables 2A and 2B. A summary of the analytical methodology is presented in Table 3.

Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody form(s), calibration data, blank data, duplicate data, recovery data from surrogate spikes, laboratory control samples (LCS), and matrix spike samples (MS); and field quality assurance/quality control (QA/QC) samples . The assessment of analytical and in-house data included checks for: data consistency (by observing comparability of duplicate analyses); adherence to accuracy and precision criteria; and transmittal errors.

The quality assurance/quality control (QA/QC) criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and the documents entitled:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, October 1999

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994

Items ii and iii will subsequently be referred to as the "Guidelines" in this Memorandum.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. The data quality assessment and validation presented in the following subsections were performed based on the sample results, supporting quality assurance/quality control (QA/QC) and all raw data provided.

SAMPLE HOLDING TIME AND PRESERVATION

The sample holding time criteria for the analyses are summarized in Table 2. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were properly preserved and delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

GAS CHROMATOGRAPHY/MASS SPECTROMETER (GC/MS) - TUNING AND MASS CALIBRATION (INSTRUMENT PERFORMANCE CHECK)

Organic Analyses

Prior to volatile organic compound (VOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the method requires the analysis of specific tuning compound bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout the volatile analysis periods. All tuning criteria were met; indicating that proper optimization of the instrumentation was achieved.

INITIAL CALIBRATION - ORGANIC ANALYSES

GC/MS

To quantify VOC compounds of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.05.

ii) The percent relative standard deviation (RSD) values must not exceed 30.0 percent or a minimum correlation coefficient (R) of 0.995 and minimum coefficient of determination (R^2) of 0.99 if linear and quadratic equation calibration curves, respectively, are used.

The initial calibration data for VOCs was reviewed. All compounds met the above criteria for linearity. Acceptable sensitivity was achieved for all compounds of interest with the exception of acetone and 2-butanone which yielded a response factor of <0.05. All associated sample results were non-detect and rejected due to poor analytical efficiency (see Table 4).

INITIAL CALIBRATION - INORGANIC ANALYSES

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve and resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	*Parameter*	*Control Limits*
Instrumental Wet Chemistry	TOC, ammonia, nitrate, nitrite	85 - 115%

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

CONTINUING CALIBRATION - ORGANIC ANALYSES

GC/MS

To ensure that instrument calibration for VOC and analysis is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.05.

ii) Percent difference (%D) values must not exceed 25 percent.

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity. All compounds of interest met instrument linearity requirements with the exception of acetone and bromomethane. Associated sample results have been qualified as estimated (see Table 5).

CONTINUING CALIBRATION - INORGANIC ANALYSES

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte

recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

LABORATORY BLANK ANALYSES

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per 20 investigative samples and/or one per analytical batch.

Organic Analyses

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

Inorganic Analyses

All ICBs, CCBs, and method blanks were non-detect, indicating that laboratory contamination was not a factor for this investigation.

SURROGATE SPIKE RECOVERIES

In accordance with the methods employed, all samples, blanks and QC samples analyzed for VOCs are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC determination were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory (method) control limits. All surrogate recoveries met the above criteria.

INTERNAL STANDARDS (IS) ANALYSES

Internal standard data were evaluated for all VOC sample analyses.

To ensure that changes in the GC/MS sensitivity and response do not affect sample analysis results, internal standard compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the internal standard responses.

The sample internal standard results were evaluated against the following criteria:

i) The retention time of the internal standard must not vary more than ±30 seconds from the associated calibration standard.

ii) Internal standard area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard.

All VOC internal standard recoveries and retention times met the above criteria.

LABORATORY CONTROL SAMPLE (LCS) ANALYSES

LCS and/or laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS and/or LCS/LCSD were analyzed at a minimum frequency of one per 20 investigative samples and/or one per analytical batch.

Organic Analyses
The LCS/LCSD contained all compounds of interest. All LCS recoveries and relative percent differences were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

Inorganic Analyses
The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES - ORGANIC ANALYSES

To evaluate the effects of sample matrices on the extraction or digestion process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1. The laboratory performed additional site-specific MS/MSD analyses internally.

Organic Analyses
The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory (method) control limits, demonstrating acceptable analytical accuracy and precision.

Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

MATRIX SPIKE (MS) ANALYSES - INORGANIC ANALYSES

To evaluate the effects of sample matrices on the preparation, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. For this study, MS samples were prepared and analyzed by the laboratory as specified in Table 1. The laboratory performed additional site-specific MS analyses internally.

The MS results were evaluated per the "Guidelines". In accordance with the "Guidelines", MS recoveries for samples with analyte concentrations significantly greater than the spike concentrations could not be assessed.

All MS analyses performed were acceptable, demonstrating acceptable analytical accuracy.

DUPLICATE SAMPLE ANALYSES - INORGANIC ANALYSES

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The laboratory performed additional site-specific duplicate analyses internally. The duplicate results were evaluated per the "Guidelines".

All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

FIELD QA/QC SAMPLES

The field QA/QC consisted of three (3) trip blank samples, two (2) field blank samples, and one (1) field duplicate sample set.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, three (3) trip blanks were collected and submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

Field Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, two (2) field blanks were submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest with the exception of low concentrations of acetone, trichloroethene and phosphorus. Associated sample results similar to that found in the field blank were qualified as non-detect (see Table 6). Sample results that were non-detect or significantly greater than that found in the field blank were not impacted and no qualification of the data was necessary.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one (1) field duplicate sample was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 and 100 percent for water. If the reported concentration in either the investigative sample or its duplicate is less than five times the practical quantitation limit (PQL), the evaluation criteria is one or two times the PQL value for water and soil samples, respectively.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision with the exception of Nitrate (as N) which showed some variability. A summary of qualified results can be found in Table 7.

TENTATIVELY IDENTIFIED COMPOUNDS (TICs)

Chromatographic peaks recorded during VOC sample analyses that are not target compounds, surrogates, or internal standards, are potential TICs.

A summary of the TICs reported by the laboratory is presented in Table 8. Per the "Guidelines", TICs that were present in the method blanks or identified as solvent preservatives/aldol reaction products were rejected and are not included in the table.

ANALYTE REPORTING

The laboratory reported detected results down to the laboratory's MDL for each analyte. Positive analyte detections less than the PQL but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the PQL in Table 2.

TARGET COMPOUND IDENTIFICATION

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

CONCLUSION

Based on this assessment of the information provided, the data produced by Mitkem Laboratories were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted with the exception of the following:

- VOC non-detect data were rejected in a number of samples due to insufficient initial calibration response factors.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

					Analysis/Parameters							
Sample Identification	*Location*	*Matrix*	*Collection Date (mm/dd/yyyy)*	*Collection Time (hr:min)*	*Ammonia*	*Nitrate, Nitrite*	*Methane*	*Phosphorous*	*VOCs*	*TOC*	*TO 15*	*Comments*
GW11013VW001	Field Blank	water	1/10/2013	12:45					X			Field Blank
GW2413VW002	MW-75D1	water	2/4/2013	09:38	X	X		X	X	X		
GW2413VW003	MW-75D2	water	2/4/2013	09:40	X	X		X	X	X		
GW2413VW004	MW-72D1	water	2/4/2013	10:30	X	X		X	X	X		
GW2413VW005	MW-72D2	water	2/4/2013	10:00	X	X		X	X	X		
GW2413VW006	MW-70D2	water	2/4/2013	11:30	X	X		X	X	X		
GW2413VW007	MW-70D1	water	2/4/2013	11:50	X	X		X	X	X		
GW2413VW008	MW-85S	water	2/4/2013	13:30					X			
GW2413VW009	MW-85I	water	2/4/2013	13:45	X	X		X	X	X		
GW2413VW010	MW-85D1	water	2/4/2013	14:15	X	X		X	X	X		
GW2413VW011	MW-85D2	water	2/4/2013	14:30	X	X		X	X	X		
GW2413VW012	MW-85D2	water	2/4/2013	14:30	X	X		X	X	X		Field duplicate of sample GW2413VW011
TRIP BLANK	Trip Blank	water	2/4/2013	-					X			Trip Blank
GW2613VW013	MW-89D1	water	2/6/2013	09:15	X	X		X	X	X		
GW2613VW014	MW-89D2	water	2/6/2013	09:25	X	X		X	X	X		
GW2613VW015	MW-76D2	water	2/6/2013	10	X	X		X	X	X		
GW2613VW016	MW-76D1	water	2/6/2013	11:00	X	X		X	X	X		
GW2613VW017	MW-76I	water	2/6/2013	11:15	X	X		X	X	X		
GW2613VW018	MW-76S	water	2/6/2013	11:30	X	X		X	X	X		
GW2613VW019	MW-90D1	water	2/6/2013	12:00					X			

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

					Analysis/Parameters							
Sample Identification	*Location*	*Matrix*	*Collection Date (mm/dd/yyyy)*	*Collection Time (hr:min)*	*Ammonia*	*Nitrate, Nitrite*	*Methane*	*Phosphorous*	*VOCs*	*TOC*	*TO 15*	*Comments*
GW2613VW020	MW-90D2	water	2/6/2013	12:10					X			
GW2613VW021	MW-77D2	water	2/6/2013	13:00	X	X		X	X	X		
GW2613VW022	MW-77D2	water	2/6/2013	13:00	X	X		X	X	X		MS/MSD
GW2613VW023	MW-77D1	water	2/6/2013	13:15	X	X		X	X	X		
GW2613VW024	MW-86D1	water	2/6/2013	14:00	X	X		X	X	X		
GW2613VW025	MW-86D2	water	2/6/2013	14:15	X	X		X	X	X		
GW2613VW026	Field Blank	water	2/6/2013	14:30	X	X		X	X	X		Field Blank
TRIP BLANK	Trip Blank	water	2/6/2013	-					X			Trip Blank
GW21313MY028	MW-73D2	water	2/13/2013	10:45	X	X		X	X	X		
GW21313MY027	MW-73D1	water	2/13/2013	10:30	X	X		X	X	X		
TRIP BLANK	Trip Blank	water	2/13/2013	-					X			Trip Blank
VZ2613VW001	VZ-12S	Soil Vapor	2/6/2013	09:15			X				X	
VZ2613VW002	VZ-12D	Soil Vapor	2/6/2013	10:00			X				X	
VZ2613VW003	VZ-17S	Soil Vapor	2/6/2013	09:15			X				X	
VZ2613VW004	VZ-17D	Soil Vapor	2/6/2013	09:30			X				X	
VZ2613VW005	VZ-5S	Soil Vapor	2/6/2013	10:30			X				X	
VZ2613VW006	VZ-5D	Soil Vapor	2/6/2013	10:45			X				X	
VZ2613VW007	VZ-1S	Soil Vapor	2/6/2013	10:00			X				X	
VZ2613VW008	VZ-1D	Soil Vapor	2/6/2013	11:30			X				X	
VZ2613VW009	VZ-4S	Soil Vapor	2/6/2013	11:45			X				X	

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

					Analysis/Parameters							
Sample Identification	*Location*	*Matrix*	*Collection Date (mm/dd/yyyy)*	*Collection Time (hr:min)*	*Ammonia*	*Nitrate, Nitrite*	*Methane*	*Phosphorous*	*VOCs*	*TOC*	*TO 15*	*Comments*
VZ2613VW010	VZ-4D	Soil Vapor	2/6/2013	12:00			X				X	
VZ2613VW011	VZ-6S	Soil Vapor	2/6/2013	12:36			X				X	
VZ2613VW012	VZ-6D	Soil Vapor	2/6/2013	12:45			X				X	
VZ2613VW013	VZ-2S	Soil Vapor	2/6/2013	13:15			X				X	
VZ2613VW014	VZ-2D	Soil Vapor	2/6/2013	13:30			X				X	

Notes:

MS	Matrix spike.
MSD	Matrix spike/matrix spike duplicate.
TOC	Total organic carbon.
TO15	Toxic organic carbons in air.
VOCs	Volatile organic compounds.

TABLE 2A

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*VZ-1D*	*VZ-1S*	*VZ-2D*	*VZ-2S*	*VZ-4D*	*VZ-4S*	*VZ-5D*
	Sample ID:	*VZ2613VW008*	*VZ2613VW007*	*VZ2613VW014*	*VZ2613VW013*	*VZ2613VW010*	*VZ2613VW009*	*VZ2613VW006*
	Sample Date:	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*
Parameters	*Units*							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,1,1-Trichloroethane	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	1.40 J
1,1,2,2-Tetrachloroethane	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,1,2-Trichloroethane	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,1-Dichloroethane	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,1-Dichloroethene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,2,4-Trichlorobenzene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,2,4-Trimethylbenzene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,2-Dibromoethane (Ethylene dibromide)	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,2-Dichlorobenzene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,2-Dichloroethane	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,2-Dichloropropane	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,3,5-Trimethylbenzene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,3-Butadiene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,3-Dichlorobenzene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,4-Dichlorobenzene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
1,4-Dioxane	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppbv	45.5	13.7	8.84	13.9	13.2	21.5	24.8
2-Hexanone	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
2-Phenylbutane (sec-Butylbenzene)	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
4-Ethyl toluene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	1.75 J
Acetone	ppbv	387	3.88	0.500 U	1.64	10.0 U	4.92	73.6
Acrylonitrile	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Benzene	ppbv	14.9 U	0.500 U	0.190 J	0.500 U	10.0 U	0.500 U	2.50 U
Benzyl chloride	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Bromodichloromethane	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Bromoform	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U

TABLE 2A

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*VZ-1D*	*VZ-1S*	*VZ-2D*	*VZ-2S*	*VZ-4D*	*VZ-4S*	*VZ-5D*
	Sample ID:	*VZ2613VW008*	*VZ2613VW007*	*VZ2613VW014*	*VZ2613VW013*	*VZ2613VW010*	*VZ2613VW009*	*VZ2613VW006*
	Sample Date:	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*
Parameters	*Units*							
Volatile Organic Compounds (Cont'd.)								
Bromomethane (Methyl bromide)	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Carbon disulfide	ppbv	109	0.500 U	5.51	0.500 U	118	0.500	126
Carbon tetrachloride	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Chlorobenzene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Chloroethane	ppbv	24.7	0.500 U	1.46	0.500 U	10.0 U	0.500 U	29.8
Chloroform (Trichloromethane)	ppbv	14.9 U	0.500 U	0.520	0.500 U	10.0 U	0.500 U	2.50 U
Chloromethane (Methyl chloride)	ppbv	22.3	0.500 U	6.71	0.500 U	16.4	0.410 J	20.6
cis-1,2-Dichloroethene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
cis-1,3-Dichloropropene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Cyclohexane	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Cymene (p-Isopropyltoluene)	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Dibromochloromethane	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Dichlorodifluoromethane (CFC-12)	ppbv	14.9 U	0.510	0.820	0.620	10.0 U	0.490 J	2.50 U
Ethanol	ppbv	90.1	1.49	5.33	1.13	10.0 U	3.08	10.6
Ethyl acetate	ppbv	19.6	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Ethylbenzene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Hexachlorobutadiene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Hexane	ppbv	19.3	0.350 J	2.51	0.230 J	10.0 U	1.42	1.65 J
Isopropyl alcohol	ppbv	28.0	0.640	0.500 U	0.500 U	4.60 J	1.63	2.50 U
Isopropyl benzene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
m&p-Xylenes	ppbv	29.8 U	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U	5.00 U
Methyl tert butyl ether (MTBE)	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Methylene chloride	ppbv	14.9 U	0.500 U	2.37	0.460 J	10.0 U	3.83	2.50 U
Naphthalene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
N-Butylbenzene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
N-Heptane	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
o-Xylene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Propylene (propene)	ppbv	7.44 J	0.290 J	0.500 U	0.500 U	10.0 U	0.320 J	2.50 U
Styrene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U

TABLE 2A

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*VZ-1D*	*VZ-1S*	*VZ-2D*	*VZ-2S*	*VZ-4D*	*VZ-4S*	*VZ-5D*
	Sample ID:	*VZ2613VW008*	*VZ2613VW007*	*VZ2613VW014*	*VZ2613VW013*	*VZ2613VW010*	*VZ2613VW009*	*VZ2613VW006*
	Sample Date:	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*
Parameters	*Units*							
Volatile Organic Compounds (Cont'd.)								
Tetrachloroethene	ppbv	14.9 U	2.51	1.32	0.580	10.0 U	1.96	6.00
Tetrahydrofuran	ppbv	1530	22.4	11.8	27.0	1150	32.2	245
Toluene	ppbv	132	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
trans-1,2-Dichloroethene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
trans-1,3-Dichloropropene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Trichloroethene	ppbv	14.9 U	0.500 U	0.500 U	0.500 U	10.0 U	0.500 U	2.50 U
Trichlorofluoromethane (CFC-11)	ppbv	14.9 U	0.470 J	0.920	1.25	10.0 U	0.640	2.50 U
Trifluorotrichloroethane (Freon 113)	ppbv	13.4 J	0.590	26.2	10.7	10.0 U	0.500 U	49.6
Vinyl chloride	ppbv	14.9 U	0.500 U	2.84	0.500 U	10.0 U	0.500 U	5.30
General Chemistry								
Methane	ppmv	61.3	10.0 U	13.4	10.0 U	10.0 U	10.0 U	10.0 U

TABLE 2A

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*VZ-5S*	*VZ-6D*	*VZ-6S*	*VZ-12D*	*VZ-12S*	*VZ-17D*	*VZ-17S*
	Sample ID:	*VZ2613VW005*	*VZ2613VW012*	*VZ2613VW011*	*VZ2613VW002*	*VZ2613VW001*	*VZ2613VW004*	*VZ2613VW003*
	Sample Date:	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*
Parameters	*Units*							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,1,1-Trichloroethane	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,1,2-Trichloroethane	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethane	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,2,4-Trichlorobenzene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,2,4-Trimethylbenzene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,2-Dibromoethane (Ethylene dibromide)	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,2-Dichlorobenzene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethane	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,2-Dichloropropane	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,3,5-Trimethylbenzene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,3-Butadiene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,3-Dichlorobenzene	ppbv	29.0 U	0.500 U	0.300 J	58.5 U	0.500 U	0.500 U	0.500 U
1,4-Dichlorobenzene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
1,4-Dioxane	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppbv	1230	20.7	14.7	1830	15.6	15.5	19.7
2-Hexanone	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
2-Phenylbutane (sec-Butylbenzene)	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
4-Ethyl toluene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Acetone	ppbv	793	4.06	2.59	810	1.88	2.21	1.75
Acrylonitrile	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Benzene	ppbv	29.0 U	0.370 J	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Benzyl chloride	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Bromodichloromethane	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Bromoform	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U

TABLE 2A

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*VZ-5S*	*VZ-6D*	*VZ-6S*	*VZ-12D*	*VZ-12S*	*VZ-17D*	*VZ-17S*
	Sample ID:	*VZ2613VW005*	*VZ2613VW012*	*VZ2613VW011*	*VZ2613VW002*	*VZ2613VW001*	*VZ2613VW004*	*VZ2613VW003*
	Sample Date:	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*
Parameters	*Units*							
Volatile Organic Compounds (Cont'd.)								
Bromomethane (Methyl bromide)	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Carbon disulfide	ppbv	29.0 U	0.620	0.500 U	53.8 J	0.500 U	17.0	0.460 J
Carbon tetrachloride	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Chlorobenzene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Chloroethane	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	1.23	0.500 U
Chloroform (Trichloromethane)	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Chloromethane (Methyl chloride)	ppbv	29.0 U	0.880	0.460 J	58.5 U	0.500 U	9.34	0.500 U
cis-1,2-Dichloroethene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
cis-1,3-Dichloropropene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Cyclohexane	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Cymene (p-Isopropyltoluene)	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Dibromochloromethane	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Dichlorodifluoromethane (CFC-12)	ppbv	29.0 U	0.530	0.490 J	58.5 U	0.840	2.70	1.09
Ethanol	ppbv	45.2	1.69	13.7	195	2.98	2.69	2.11
Ethyl acetate	ppbv	29.0 U	0.500 U	0.500 U	38.6 J	0.500 U	0.500 U	0.500 U
Ethylbenzene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Hexachlorobutadiene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Hexane	ppbv	15.7 J	0.300 J	0.410 J	59.7	1.22	1.15	0.410 J
Isopropyl alcohol	ppbv	29.0 U	0.310 J	2.54	50.3 J	0.470 J	0.820	0.460 J
Isopropyl benzene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
m&p-Xylenes	ppbv	58.0 U	1.00 U	1.00 U	117 U	1.00 U	1.00 U	1.00 U
Methyl tert butyl ether (MTBE)	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Methylene chloride	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	1.02	1.50	0.500 U
Naphthalene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
N-Butylbenzene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
N-Heptane	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
o-Xylene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Propylene (propene)	ppbv	29.0 U	0.500 U	0.270 J	58.5 U	0.500 U	0.500 U	0.500 U
Styrene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U

TABLE 2A

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*VZ-5S*	*VZ-6D*	*VZ-6S*	*VZ-12D*	*VZ-12S*	*VZ-17D*	*VZ-17S*
	Sample ID:	*VZ2613VW005*	*VZ2613VW012*	*VZ2613VW011*	*VZ2613VW002*	*VZ2613VW001*	*VZ2613VW004*	*VZ2613VW003*
	Sample Date:	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*
Parameters	*Units*							
Volatile Organic Compounds (Cont'd.)								
Tetrachloroethene	ppbv	29.0 U	0.630	0.570	58.5 U	6.11	14.3	6.63
Tetrahydrofuran	ppbv	2350	20.6	28.0	4360	5.24	29.0	9.60
Toluene	ppbv	87.0	0.500 U	0.500 U	321	0.500 U	0.500 U	0.500 U
trans-1,2-Dichloroethene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
trans-1,3-Dichloropropene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.500 U	0.500 U
Trichloroethene	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	0.310 J	0.500 U
Trichlorofluoromethane (CFC-11)	ppbv	29.0 U	0.500 U	0.660	58.5 U	0.500 U	1.95	0.680
Trifluorotrichloroethane (Freon 113)	ppbv	29.0 U	1.91	1.69	58.5 U	0.500 U	3.34	0.950
Vinyl chloride	ppbv	29.0 U	0.500 U	0.500 U	58.5 U	0.500 U	2.40	0.500 U
General Chemistry								
Methane	ppmv	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U

Notes:

J Estimated concentration.
U Not detected at the associated reporting limit.

TABLE 2B

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*MW-70D1*	*MW-70D2*	*MW-72D1*	*MW-72D2*	*MW-73D1*	*MW-73D2*
	Sample ID:	*GW2413VW007*	*GW2413VW006*	*GW2413VW004*	*GW2413VW005*	*GW21313MY027*	*GW21313MY028*
	Sample Date:	*2/4/2013*	*2/4/2013*	*2/4/2013*	*2/4/2013*	*2/13/2013*	*2/13/2013*
Parameters	*Units*						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	1.1 J	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	1.1 J	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	R	R
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	7.4	11	5.0 U	5.0 U	R	R
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	7.9	5.0 U	5.0 U	5.0 U	1.7 J
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	1.6 J	13	5.0 U	83	5.0 U	7.6
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	8.8	62	3.5 J	850	5.0 U	60

TABLE 2B

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*MW-70D1*	*MW-70D2*	*MW-72D1*	*MW-72D2*	*MW-73D1*	*MW-73D2*
	Sample ID:	*GW2413VW007*	*GW2413VW006*	*GW2413VW004*	*GW2413VW005*	*GW21313MY027*	*GW21313MY028*
	Sample Date:	*2/4/2013*	*2/4/2013*	*2/4/2013*	*2/4/2013*	*2/13/2013*	*2/13/2013*
Parameters	*Units*						
Volatile Organic Compounds (Cont'd.)							
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	2.4 J	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	2.1 J	23	1.0 J	51	5.0 U	23
Vinyl chloride	µg/L	43	29	3.0 J	5.0 U	5.0 U	22
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
General Chemistry							
Ammonia-N	mg/L	0.304	0.272	0.215	1.97	0.267	0.840
Nitrate (as N)	mg/L	0.100 U	0.148	0.246	0.280	0.200 U	0.200 U
Nitrite (as N)	mg/L	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.200 U
Phosphorus	mg/L	0.030 U	0.043	0.030 U	0.030 U	0.030 U	0.030 U
Total organic carbon (TOC)	mg/L	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 2B

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*MW-75D1*	*MW-75D2*	*MW-76D1*	*MW-76D2*	*MW-76I*	*MW-76S*
	Sample ID:	*GW2413VW002*	*GW2413VW003*	*GW2613VW016*	*GW2613VW015*	*GW2613VW017*	*GW2613VW018*
	Sample Date:	*2/4/2013*	*2/4/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*
Parameters	*Units*						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	1.1 J	5.0 U	5.0 U	1.0 J	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	R	R	R	R
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	5.0 U	5.0 U	5.0 U	7.1 U	8.1 U	6.6 U
Benzene	µg/L	2.0 J	5.0 U	5.0 U	0.69 J	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	0.83 J	0.77 J
Chloroethane	µg/L	24	16	0.90 J	16	4.4 J	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	50	48	1.6 J	35	29	37
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	39	46	8.7	63	5.0 U	5.0 U

TABLE 2B

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*MW-75D1*	*MW-75D2*	*MW-76D1*	*MW-76D2*	*MW-76I*	*MW-76S*
	Sample ID:	*GW2413VW002*	*GW2413VW003*	*GW2613VW016*	*GW2613VW015*	*GW2613VW017*	*GW2613VW018*
	Sample Date:	*2/4/2013*	*2/4/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*
Parameters	*Units*						
Volatile Organic Compounds (Cont'd.)							
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	1.4 J	5.0 U	5.0 U	5.0 U	1.4 J	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	16	76	5.0 U	25	5.0 U	5.0 U
Vinyl chloride	µg/L	1500	870	28	1500	81	19
Xylenes (total)	µg/L	1.1 J	0.69 J	5.0 U	1.3 J	1.5 J	5.0 U
General Chemistry							
Ammonia-N	mg/L	0.236	0.484	0.322	0.058 J	0.542	0.481
Nitrate (as N)	mg/L	0.106	0.660	0.250 U	0.250 U	0.500 U	0.500 U
Nitrite (as N)	mg/L	0.250 U	0.250 U	0.250 U	0.250 U	0.500 U	0.500 U
Phosphorus	mg/L	0.030 U	0.030 U	0.11 U	0.031 U	0.14 U	0.045 U
Total organic carbon (TOC)	mg/L	16	10 U	10 U	2.7 J	11	6.8 J

TABLE 2B

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*MW-77D1*	*MW-77D2*	*MW-77D2*	*MW-85D1*	*MW-85D2*
	Sample ID:	*GW2613VW023*	*GW2613VW021*	*GW2613VW022*	*GW2413VW010*	*GW2413VW011*
	Sample Date:	*2/6/2013*	*2/6/2013*	*2/6/2013 (Duplicate)*	*2/4/2013*	*2/4/2013*
Parameters	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	6.9	2.8 J
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	0.54 J	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	R	R	R	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	5.0 U	5.0 U	5.0 U	7.7	5.0 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	0.50 J	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	1.7 J	5.0 U	5.0 U	7.4	5.3
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	2.5 J	2.5 J	1.5 J	4.9 J
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	7.8	17	17	5.8	21

TABLE 2B

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*MW-77D1*	*MW-77D2*	*MW-77D2*	*MW-85D1*	*MW-85D2*
	Sample ID:	*GW2613VW023*	*GW2613VW021*	*GW2613VW022*	*GW2413VW010*	*GW2413VW011*
	Sample Date:	*2/6/2013*	*2/6/2013*	*2/6/2013 (Duplicate)*	*2/4/2013*	*2/4/2013*
Parameters	*Units*					
Volatile Organic Compounds (Cont'd.)						
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	11	11	9.2	24
Vinyl chloride	µg/L	24	99	100	17	40
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
General Chemistry						
Ammonia-N	mg/L	1.42	0.426	0.498	0.100 U	2.00 U
Nitrate (as N)	mg/L	0.500 U	0.250 U	0.500 U	0.175	0.813 J
Nitrite (as N)	mg/L	0.500 U	0.250 U	0.500 U	0.100 U	0.100 U
Phosphorus	mg/L	0.041 U	0.046 U	0.050 U	0.030 U	0.030 U
Total organic carbon (TOC)	mg/L	10 U	10 U	10 U	10 U	10 U

TABLE 2B

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*MW-85D2*	*MW-85I*	*MW-85S*	*MW-86D1*	*MW-86D2*
	Sample ID:	*GW2413VW012*	*GW2413VW009*	*GW2413VW008*	*GW2613VW024*	*GW2613VW025*
	Sample Date:	*2/4/2013 (Duplicate)*	*2/4/2013*	*2/4/2013*	*2/6/2013*	*2/6/2013*
Parameters	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	0.58 J
1,1-Dichloroethane	µg/L	2.9 J	5.0 U	5.0 U	5.0 U	0.98 J
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.9 J
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	R	R
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	7.5	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	4.2 J	5.0 U	5.0 U	2.6 J	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.1	5.0 U	5.0 U	5.4	62
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	23	1.9 J	2.5 J	6.3	17

TABLE 2B

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*MW-85D2*	*MW-85I*	*MW-85S*	*MW-86D1*	*MW-86D2*
	Sample ID:	*GW2413VW012*	*GW2413VW009*	*GW2413VW008*	*GW2613VW024*	*GW2613VW025*
	Sample Date:	*2/4/2013 (Duplicate)*	*2/4/2013*	*2/4/2013*	*2/6/2013*	*2/6/2013*
Parameters	*Units*					
Volatile Organic Compounds (Cont'd.)						
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	25	5.0 U	5.0 U	5.0 U	370
Vinyl chloride	µg/L	40	5.0 U	5.0 U	44	0.54 J
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
General Chemistry						
Ammonia-N	mg/L	2.00 U	0.170	-	0.910	1.22
Nitrate (as N)	mg/L	0.299 J	0.288	-	0.250 U	3.20
Nitrite (as N)	mg/L	0.100 U	0.100 U	-	0.250 U	0.250 U
Phosphorus	mg/L	0.034	0.030 U	-	0.097 U	0.030 U
Total organic carbon (TOC)	mg/L	10 U	10 U	-	10 U	10 U

TABLE 2B

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*MW-89D1*	*MW-89D2*	*MW-90D1*	*MW-90D2*
	Sample ID:	*GW2613VW013*	*GW2613VW014*	*GW2613VW019*	*GW2613VW020*
	Sample Date:	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*
Parameters	*Units*				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	1.6 J	4.2 J	5.0 U	0.55 J
1,1-Dichloroethene	µg/L	0.56 J	0.84 J	1.2 J	0.60 J
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	R	R	R	R
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	9.6 U	9.3 U	5.0 U	5.0 U
Benzene	µg/L	1.8 J	1.4 J	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	2.6 J	1.3 J	5.0 U	5.0 U
Chloroethane	µg/L	2.4 J	3.2 J	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	37	39	55	9.1
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	20	5.0	27	120

TABLE 2B

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER SAMPLING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

	Sample Location:	*MW-89D1*	*MW-89D2*	*MW-90D1*	*MW-90D2*
	Sample ID:	*GW2613VW013*	*GW2613VW014*	*GW2613VW019*	*GW2613VW020*
	Sample Date:	*2/6/2013*	*2/6/2013*	*2/6/2013*	*2/6/2013*
Parameters	*Units*				
Volatile Organic Compounds (Cont'd.)					
Toluene	µg/L	5.0 U	5.0 U	2.1 J	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	10	4.6 J	6.7	37
Vinyl chloride	µg/L	25	20	2500	3.1 J
Xylenes (total)	µg/L	2.0 J	0.52 J	4.8 J	5.0 U
General Chemistry					
Ammonia-N	mg/L	0.152	0.253	-	-
Nitrate (as N)	mg/L	0.500 U	0.500 U	-	-
Nitrite (as N)	mg/L	0.500 U	0.500 U	-	-
Phosphorus	mg/L	0.045 U	0.14 U	-	-
Total organic carbon (TOC)	mg/L	13	3.9 J	-	-

Notes:

J	Estimated concentration.
R	Rejected.
U	Not detected above the associated reporting limit.
UJ	Not detected; associated reporting limit is estimated.
-	Not analyzed.

TABLE 3

ANALYTICAL METHODS AND HOLDING TIME CRITERIA
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

Parameter	*Method*	*Matrix*	*Holding Time*	
			Collection to Extraction (Days)	*Collection or Extraction to Analysis (Days)*
TCL VOC	SW-846 8260 [1]	Water	-	14
Ammonia	E350.1	Water	-	28
Phosphorous	SM 4500P [2]	Water	-	28
Nitrate, Nitrite	E353.2	Water	-	48 hr.
Methane	EPA 3C	Water	-	30
VOC	TO-15 [4]	Water	-	14
Total Organic Carbon (TOC)	415.1 [3]	Water	-	28

Notes

1 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions.

2 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, with subsequent revisions.

3 "Methods for Chemical Analysis of Water and Wastes", USEPA-600/4-79-020, March 1983 with subsequent revisions.

4 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999

TCL Target compound list.

VOC Volatile organic compound.

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING INITIAL CALIBRATION RESULTS
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

Parameter	*Analyte*	*Calibration Date*	*% RSD*	*RRF*	*Associated Sample ID*	*Qualified Result*	*Units*
VOCs	2-Butanone	02/12/13	-	0.028	GW2613VW013	R	µg/L
					GW2613VW014	R	µg/L
					GW2613VW015	R	µg/L
					GW2613VW015	R	µg/L
					GW2613VW016	R	µg/L
					GW2613VW017	R	µg/L
					GW2613VW018	R	µg/L
					GW2613VW019	R	µg/L
					GW2613VW019	R	µg/L
					GW2613VW020	R	µg/L
					GW2613VW021	R	µg/L
					GW2613VW022	R	µg/L
					GW2613VW023	R	µg/L
					GW2613VW024	R	µg/L
					GW2613VW025	R	µg/L
					GW2613VW025	R	µg/L
VOCs	2-Butanone	02/19/13	-	0.027	GW21313MY027	R	µg/L
					GW21313MY028	R	µg/L
VOCs	Acetone	02/19/13	-	0.027	GW21313MY027	R	µg/L
					GW21313MY028	R	µg/L

Notes:

- Not applicable.
RSD Relative standard deviation.
RRF Relative response factor.
R Rejected.
VOCs Volatile organic compounds.

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

Parameter	*Analyte*	*Calibration Date*	*RRF*	*%D*	*Associated Sample ID*	*Qualified Result*	*Units*
VOCs	Acetone	2/12/2013	-	32	GW2613VW013	9.6 UJ	µg/L
					GW2613VW014	9.3 UJ	µg/L
					GW2613VW015	7.1 UJ	µg/L
					GW2613VW017	8.1 UJ	µg/L
					GW2613VW018	6.6 UJ	µg/L
					GW2613VW019	5.0 UJ	µg/L
					GW2613VW020	5.0 UJ	µg/L
					GW2613VW021	5.0 UJ	µg/L
VOCs	Acetone	2/13/2013	-	28	GW2613VW016	5.0 UJ	µg/L
					GW2613VW022	5.0 UJ	µg/L
					GW2613VW023	5.0 UJ	µg/L
					GW2613VW024	5.0 UJ	µg/L
					GW2613VW025	5.0 UJ	µg/L
VOCs	Bromomethane	2/20/2013	-	47	GW21313MY027	5.0 UJ	µg/L
					GW21313MY028	5.0 UJ	µg/L

Notes:

- Not applicable.
%D Percent difference.
RRF Relative response factor.
UJ Not detected; associated reporting limit is estimated.
VOCs Volatile organic compounds.

TABLE 6

QUALIFIED SAMPLE DATA DUE TO ANALYTE CONCENTRATIONS IN THE FIELD BLANKS
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

Parameter	*Blank Date*	*Analyte*	*Blank Result*	*Associated Sample ID*	*Original Result*	*Qualified Result*	*Units*
VOCs	02/06/13	Acetone	2.9 J	GW2613VW013	9.6	9.6 U	µg/L
				GW2613VW014	9.3	9.3 U	µg/L
				GW2613VW015	7.1	7.1 U	µg/L
				GW2613VW016	3.6 J	5.0 U	µg/L
				GW2613VW017	8.1	8.1 U	µg/L
				GW2613VW018	6.6	6.6 U	µg/L
				GW2613VW019	4.3 J	5.0 U	µg/L
				GW2613VW020	4.4 J	5.0 U	µg/L
				GW2613VW021	3.7 J	5.0 U	µg/L
				GW2613VW022	3.2 J	5.0 U	µg/L
				GW2613VW023	3.0 J	5.0 U	µg/L
				GW2613VW024	4.0 J	5.0 U	µg/L
				GW2613VW025	3.4 J	5.0 U	µg/L
VOCs	02/06/13	Trichloroethene	0.73 J	GW2613VW016	1.2	5.0 U	µg/L
				GW2613VW023	1.5	5.0 U	µg/L
				GW2613VW024	1.1	5.0 U	µg/L
General Chemistry	02/06/13	Phosphorous	0.17	GW2613VW013	0.045	0.045 U	µg/L
				GW2613VW014	0.14	0.14 U	µg/L
				GW2613VW015	0.031	0.031 U	µg/L
				GW2613VW016	0.11	0.11 U	µg/L
				GW2613VW017	0.14	0.14 U	µg/L
				GW2613VW018	0.045	0.045 U	µg/L
				GW2613VW021	0.046	0.046 U	µg/L
				GW2613VW022	0.050	0.050 U	µg/L
				GW2613VW023	0.041	0.041 U	µg/L
				GW2613VW024	0.097	0.097 U	µg/L

Notes:

J Estimated concentration.
U Not detected at the associated reporting limit.

TABLE 7

QUALIFIED SAMPLE DATA DUE TO VARIABILITY IN FIELD DUPLICATE RESULTS
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

Parameter	*Analyte*	*RPD*	*Sample ID*	*Qualified Result*	*Field Duplicate Sample ID*	*Qualified Result*	*Units*
General Chemistry	Nirate (as N)	92	GW2413VW011	0.813 J	GW2413VW012	0.299 J	mg/kg

Notes:

RPD Relative percent difference.
J Estimated concentration.

TABLE 8

TENTATIVELY IDENTIFIED COMPOUNDS
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
FEBRUARY 2013

Sample ID	*Volatile Organics*	*Estimated Concentration (µg/L)*
GW2413VW002	Cyclohexane, 4-ethenyl-	6.7 J
	Oxepane	6.9 J
	Unknown	169 J
GW2413VW003	Unknown	18 J
GW2413VW006	Unknown	27 J
GW2613VW013	1-Propene, 2-methyl-	21 J
	Cyclohexane, 4-ethenyl-	5.5 J
	Unknown	13 J
GW2613VW014	1-Propene, 2-methyl-	8.8 J
	Unknown	5.1 J
GW2613VW015	Propanal, 2-methyl-	8.5 J
GW2613VW017	Propanal, 2-methyl-	37 J
	Isobutyl ether	6.6 J
	Unknown	14 J
GW2613VW018	Propanal, 2-methyl-	9.6 J

Notes:

J Estimated concentration.