Glenn Springs Holdings, Inc.

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October 6, 2014

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 – Third Quarter 2014 (July through September)
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 July through September 2014 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 January 15, 2015 and will cover October through December 2014. A listing of the primary activities is provided in Table 1.

Quarterly Progress Report

The following activities were performed during the period July through September 2014:

- The Quarterly Progress Report for the time period April through June 2014 was submitted to the USEPA on July 11, 2014.

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-3R supplemental air treatment system continued.

ii. The carbon bed was changed out on July 9, 2014.

iii. The potassium permanganate bed was changed out on July 23, 2014.

iv. A leaking flex connector on an air duct at the treatment plant was replaced on September 22, 2014.

Biosparge System

See Figures 1 and 2 for system layout and Figures 3 and 4 for system cross-sections. Also shown in Figures 1 and 2 are the most recent VCM groundwater concentrations.

During the reporting period, air injection into the biosparge system north fence was suspended on June 27 in preparation for the 2014 3rd quarter biosparge system performance monitoring event. Air injection resumed on July 28 after retrieval of the last sampler. Air was injected into all middle fence injection wells for 8 hours at 100 scfm for August and September except for IW-16D1, IW-18D1, IW-19D2 and IW-22D2. No air could be injected into wells IW-16D1, IW-19D2, and IW-22D2; small volumes were injected into IW-18D1 and IW-19D1. It is believed that there are physical impairments in these wells. It is also believed that air injection into these wells is not essential because air is being injected into all the air injection wells immediately adjacent to and above these injection points. Support for this position was provided to the USEPA on August 18 in responses to EPA comments received August 7, 2014 (i.e., the majority of dissolved oxygen (DO) concentrations in the nearby wells are greater than the target level of 2.0 mg/L and VCM concentrations continue to decrease or remain low level).

The PDB/HydraSleeve samplers for the July 2014 quarterly performance monitoring event were inserted on July 2 and 3 and were retrieved between July 17 and 21 except for MW-63S and MW-63I. The samplers for these two wells were inserted on July 22 and retrieved on August 6. The July sampling event included 25 of the 26 biosparge groundwater monitoring wells used to monitor the system components installed in 2012. Well MW-77D1 could not be sampled as an obstruction in this well prevented insertion of the samplers. The July sampling event also included the collection of samples from well nest MW-63 to provide additional groundwater information. The analytical results from this sampling event and the QA/QC review are attached. The field parameter results are provided in Table 2.

Notification for the October 2014 biosparge system performance monitoring event was submitted to the USEPA on September 22, 2014. The PDB/HydraSleeve samplers are to be installed starting October 6 and retrieved a minimum of 14 days after insertion. The wells to be

sampled and analyzed include 36 of the 39 biosparge groundwater monitoring wells. Wells MW-61I, MW-61D1, and MW-77D1 are not available to sample due to obstructions in the wells. Furthermore, to provide information regarding the current condition of the VCM subplume, well nests MW-58, MW-59, MW-63, MW-67, MW-68, MW-92 and MW-93 and well MW-66D2 will be sampled and analyzed.

Fourteen vadose zone wells will also be sampled and analyzed during the October event.

Summary of Biosparge System

The DO, total volatile organic compounds (TVOC), and VCM concentration trends for the individual groundwater monitoring wells around the biosparge injection system are shown on Figures 5 through 25. To date, the results show that the biosparge system is operating successfully as demonstrated by the following:

i. DO levels in the groundwater are greater than the target concentration of 2 milligrams per liter (mg/L) in 23 or the 26 monitoring wells as measured in July (see Table 2). The DO in the remaining 3 wells ranged from 1.2 to 1.4 mg/L.

ii. Groundwater VCM concentrations are non-detect, low level, or decreased between the April 2014 and July 2014 performance monitoring events in 23 of the 25 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 2 wells (MW-75D1 and MW-86D1), are expected to decrease with time.

Planned Fourth Quarter 2014 Activities

The following activities are planned for the fourth quarter of 2014:

i. Continue operation and monitoring of the GP-1/GP-3R supplemental air treatment system.
ii. Change-out of the supplemental system carbon bed is scheduled for October 13, 2014.
iii. Perform the fourth 2014 quarterly biosparge system performance monitoring event in October. PDB/HydraSleeve insertion is scheduled to start on October 6 with retrieval planned to start October20.
iv. Continue the weekly 8-hour air injections for the air injection wells. It is noted that air injections will be temporarily suspended during the October 2014 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/mg/006883/51
Encl.

cc: P. Mannino (USEPS)
M. Popper (CDM)
J. Kay (CRA)
M.E. Wieder (USEPA)
T. Kelly (Nassau Coounty)
S. Scharf (NYSDED-PDF on CD)
S. Krall (Bayer)

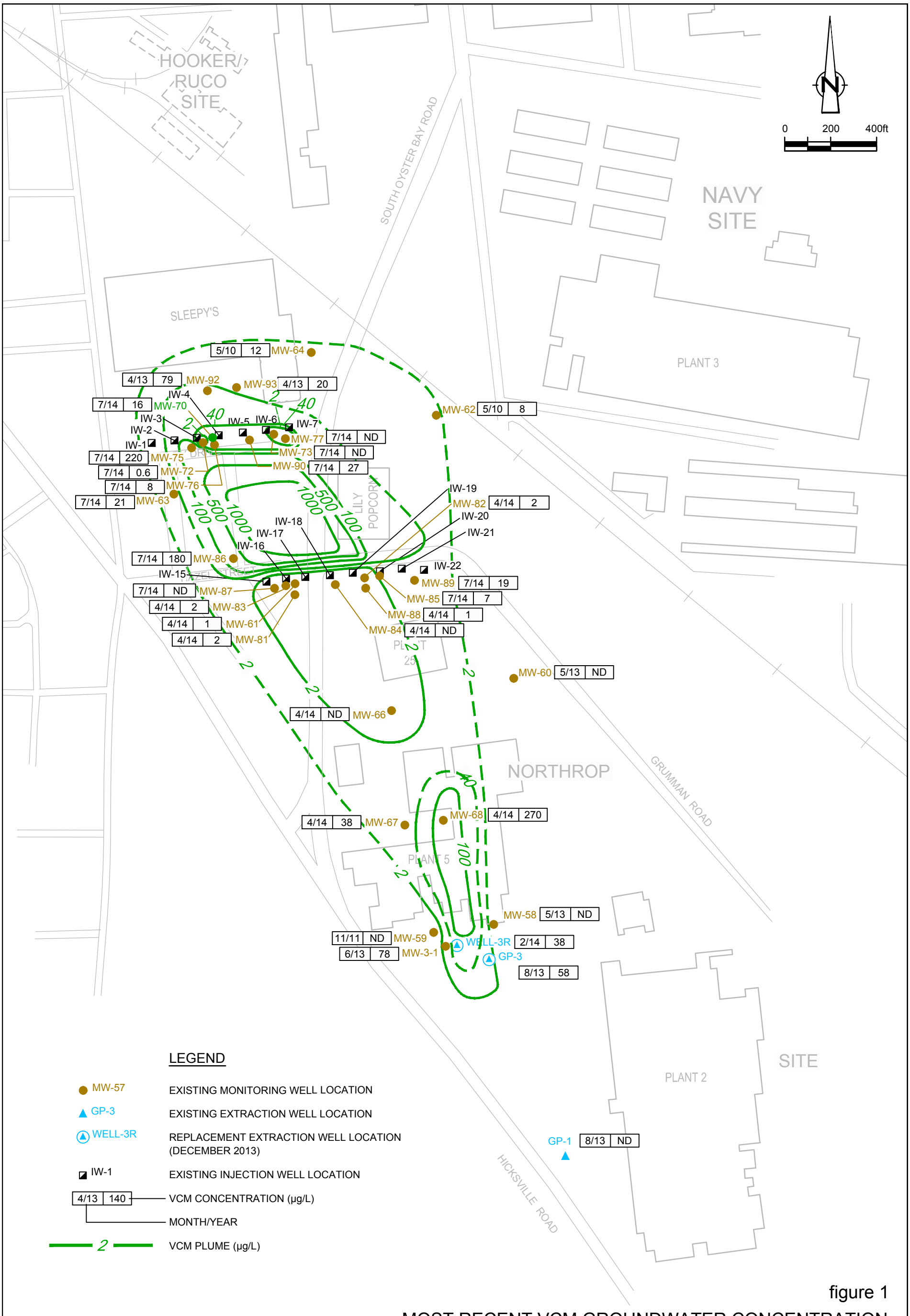


figure 1

MOST RECENT VCM GROUNDWATER CONCENTRATION

Hooker/Ruco Site, Hicksville, New York

06883-D23102(TACC051)GN-WA001 SEP 8/2014

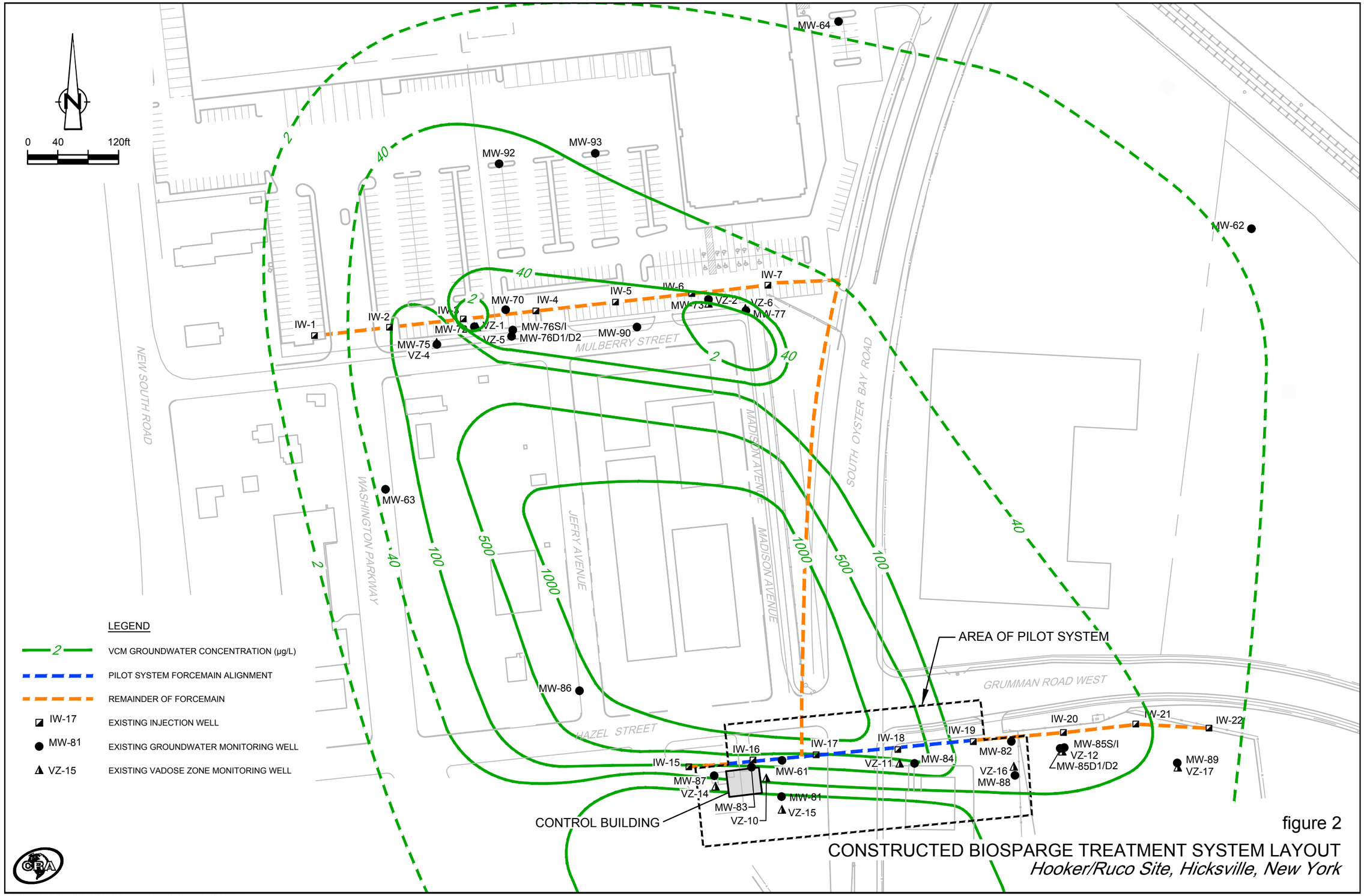
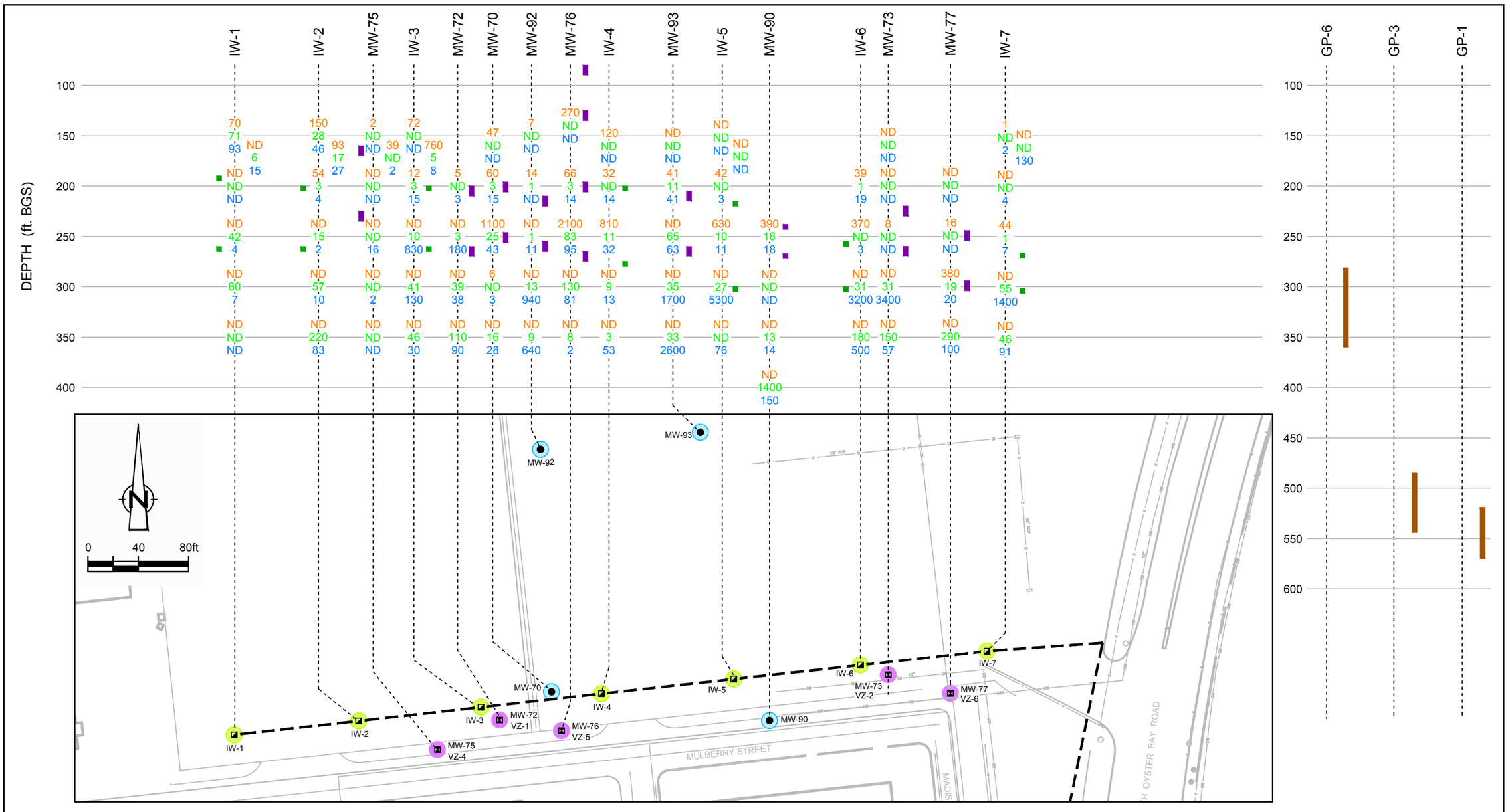


figure 2

CONSTRUCTED BIOSPARGE TREATMENT SYSTEM LAYOUT

Hooker/Ruco Site, Hicksville, New York

06883-D23102(TACC051)GN-WA002 SEP 30/2014



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)

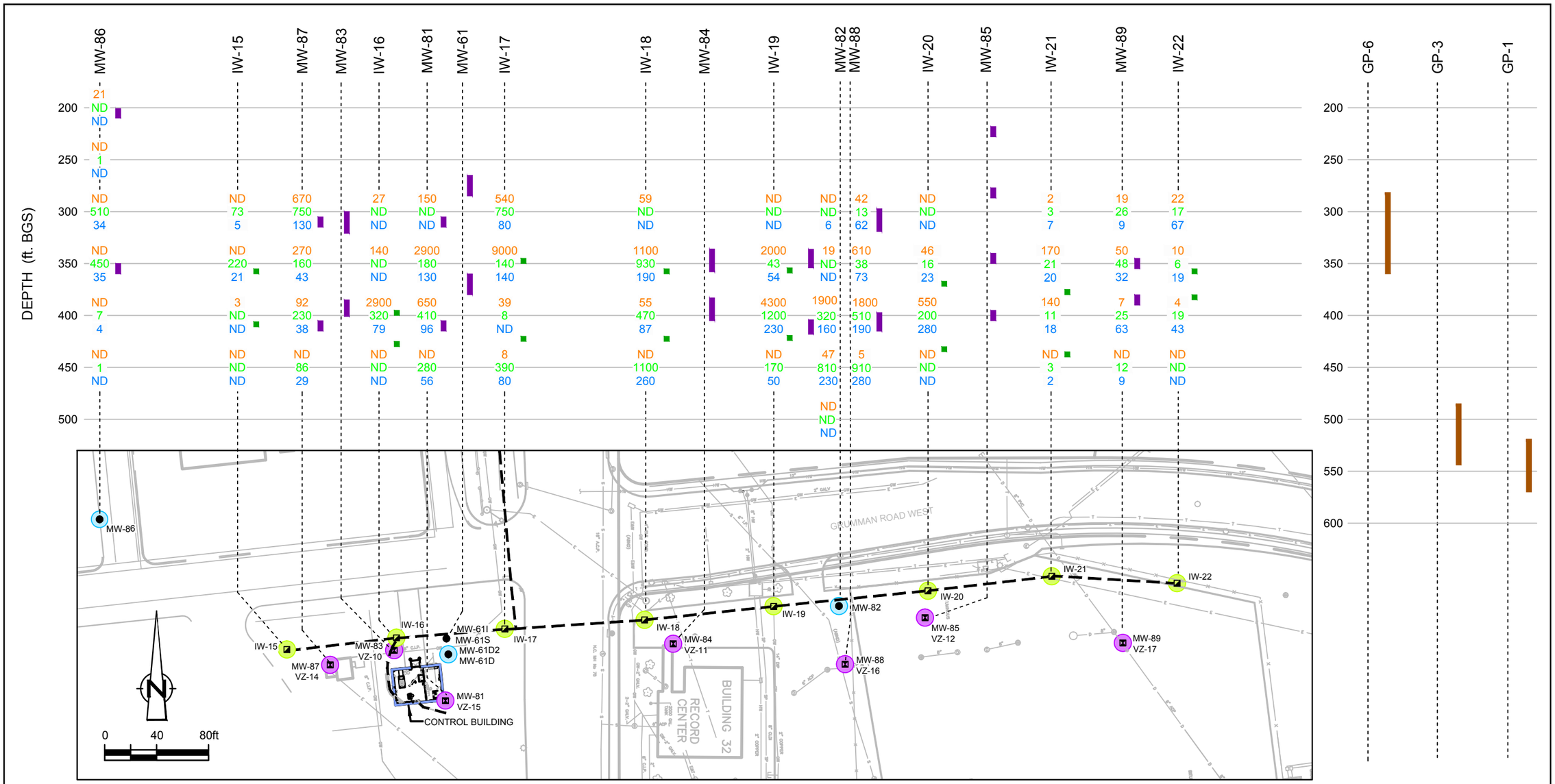
NOTE: FEBRUARY THROUGH MARCH, 2011 HYDROPUNCH RESULTS

figure 3

NORTH FENCE AIR INJECTION AND GROUNDWATER MONITORING WELL SCREENED INTERVALS

Hooker/Ruco Site, Hicksville, New York

CRA



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)

NOTE: PILOT SYSTEM: OCTOBER 2005 THROUGH APRIL 2006 ANALYTICAL RESULTS.
REMAINING COMMENTS: OCTOBER THROUGH DECEMBER 2010 HYDROPUNCH RESULTS.

figure 4

MIDDLE FENCE AIR INJECTION AND GROUNDWATER MONITORING WELL SCREENED INTERVALS

Hooker/Ruco Site, Hicksville, New York

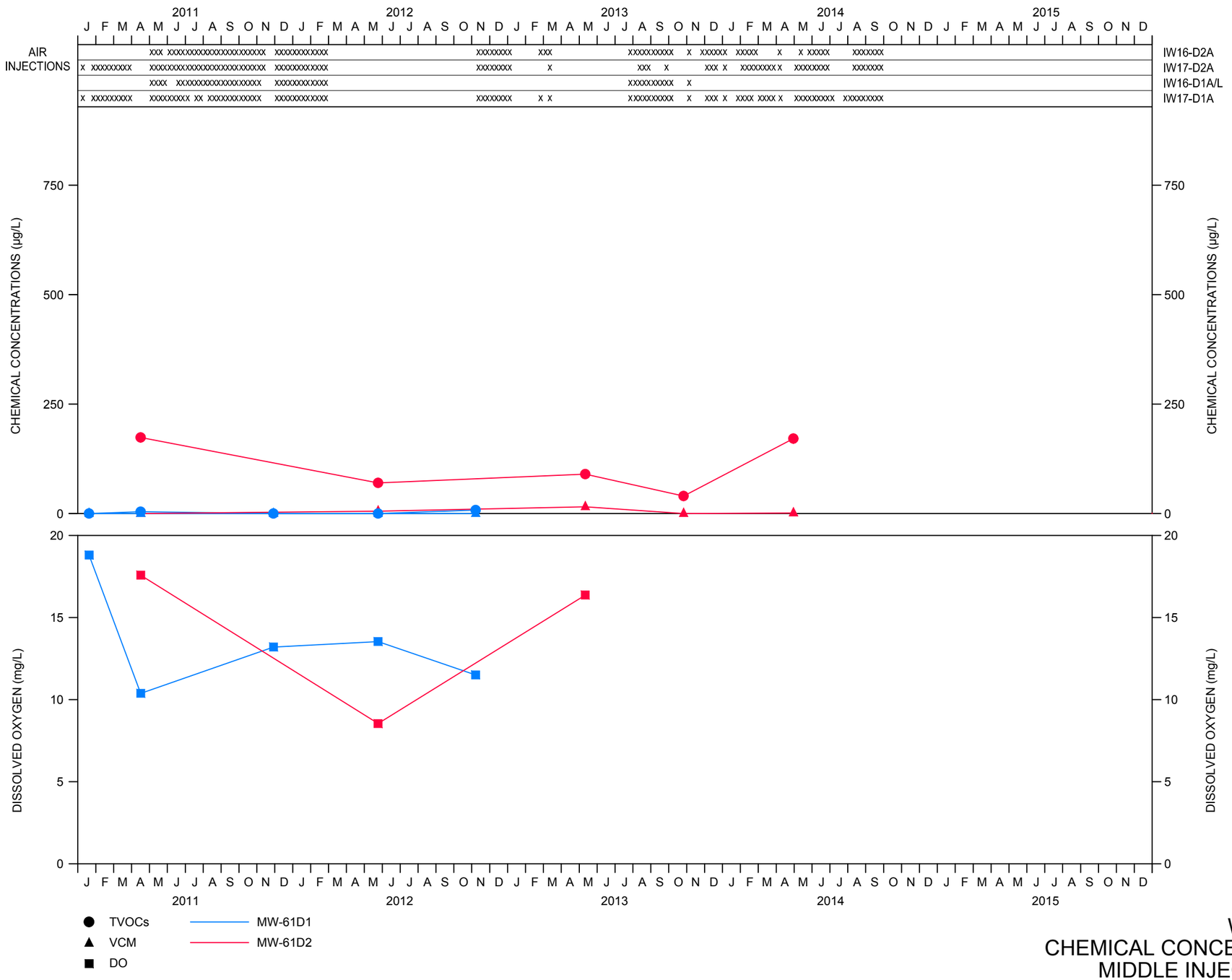


figure 5

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

CRA

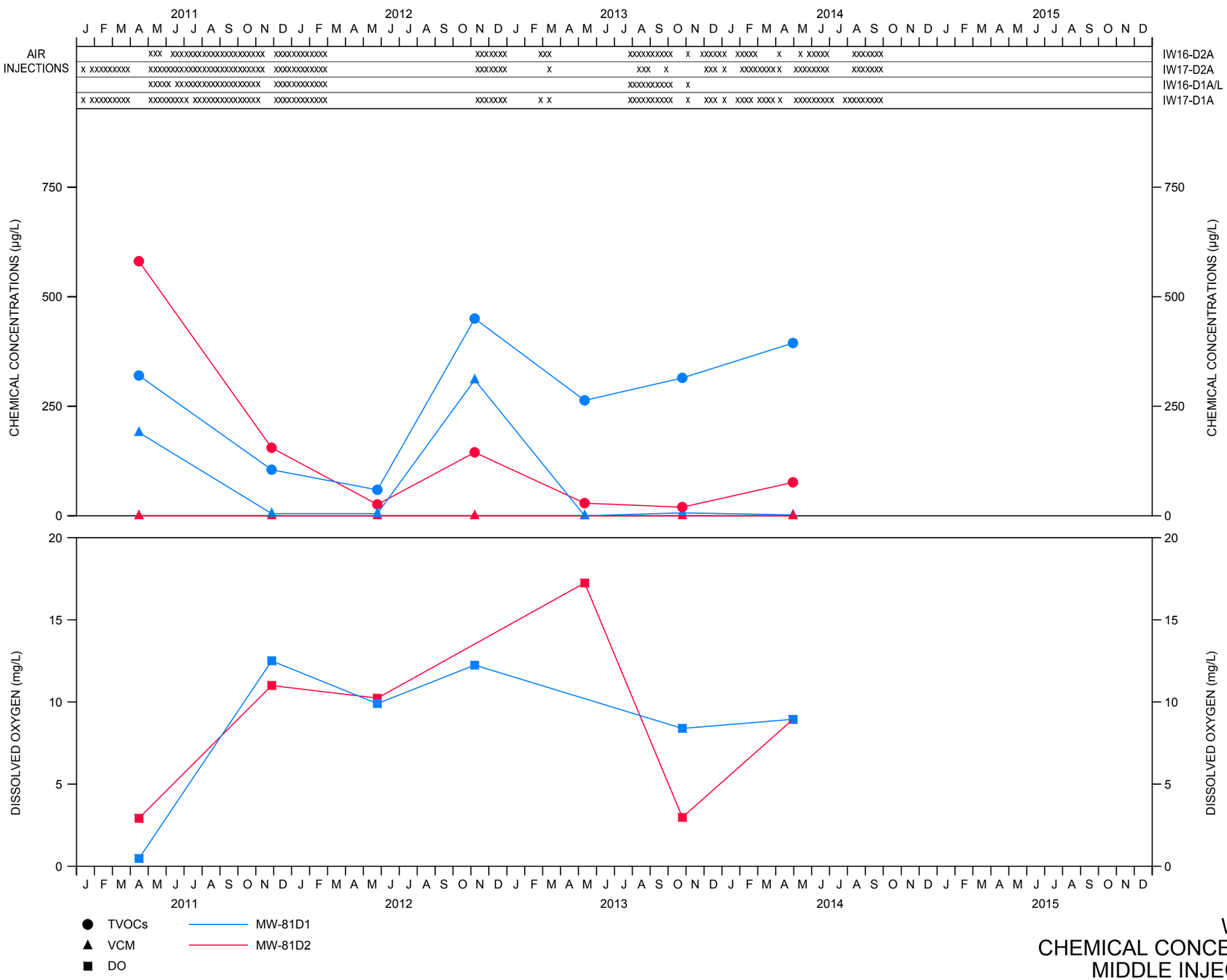


figure 6

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

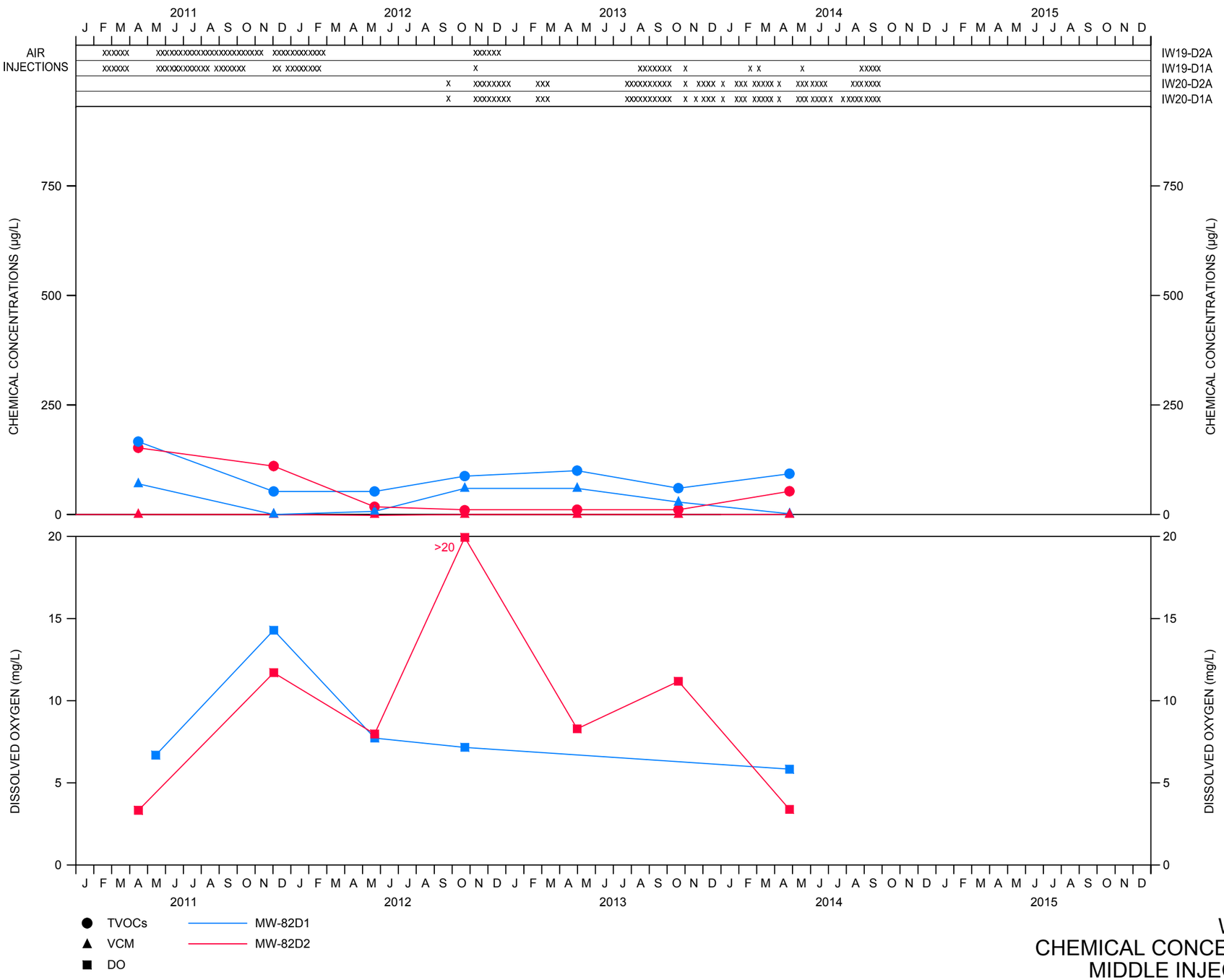


figure 7

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

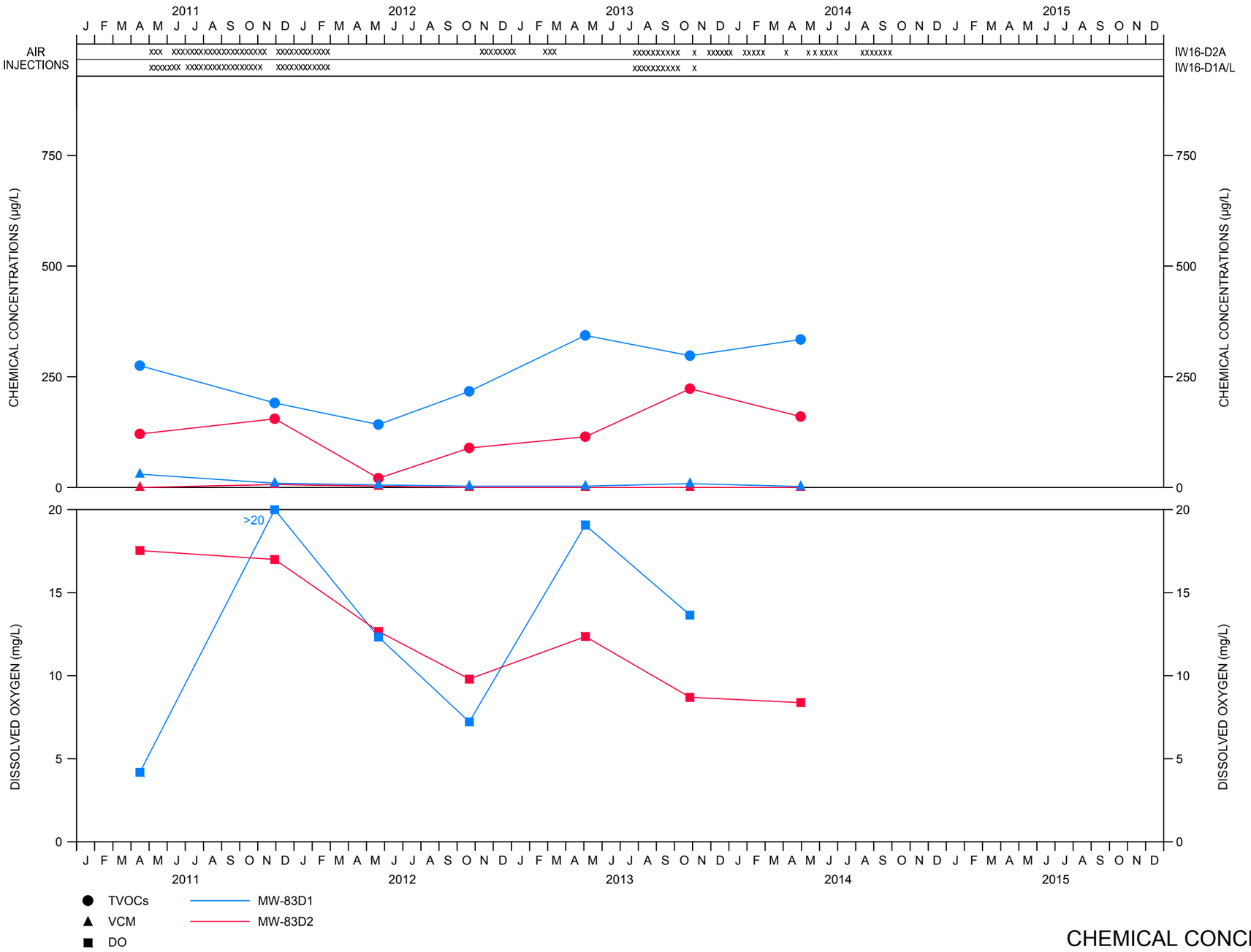


figure 8

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

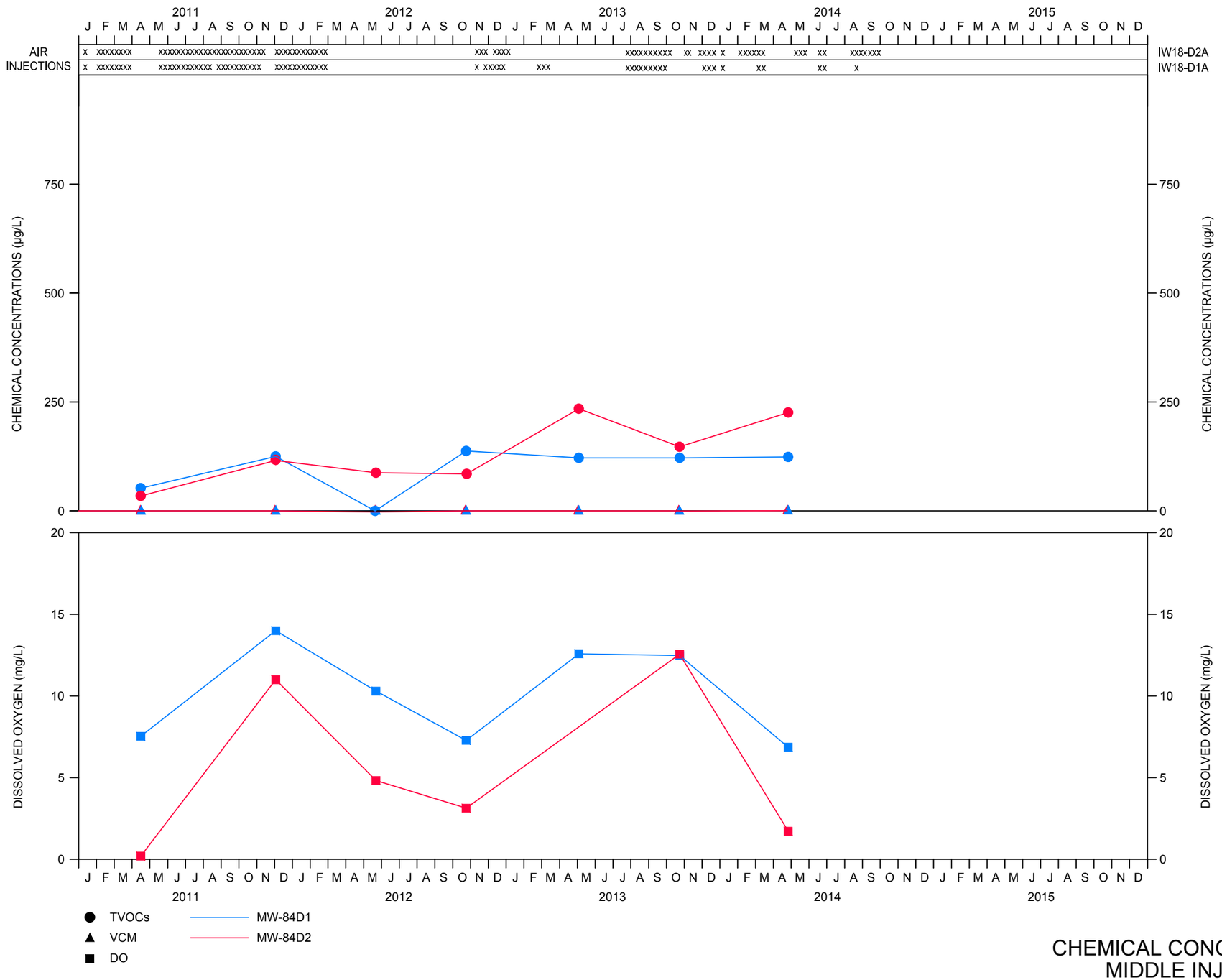


figure 9

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

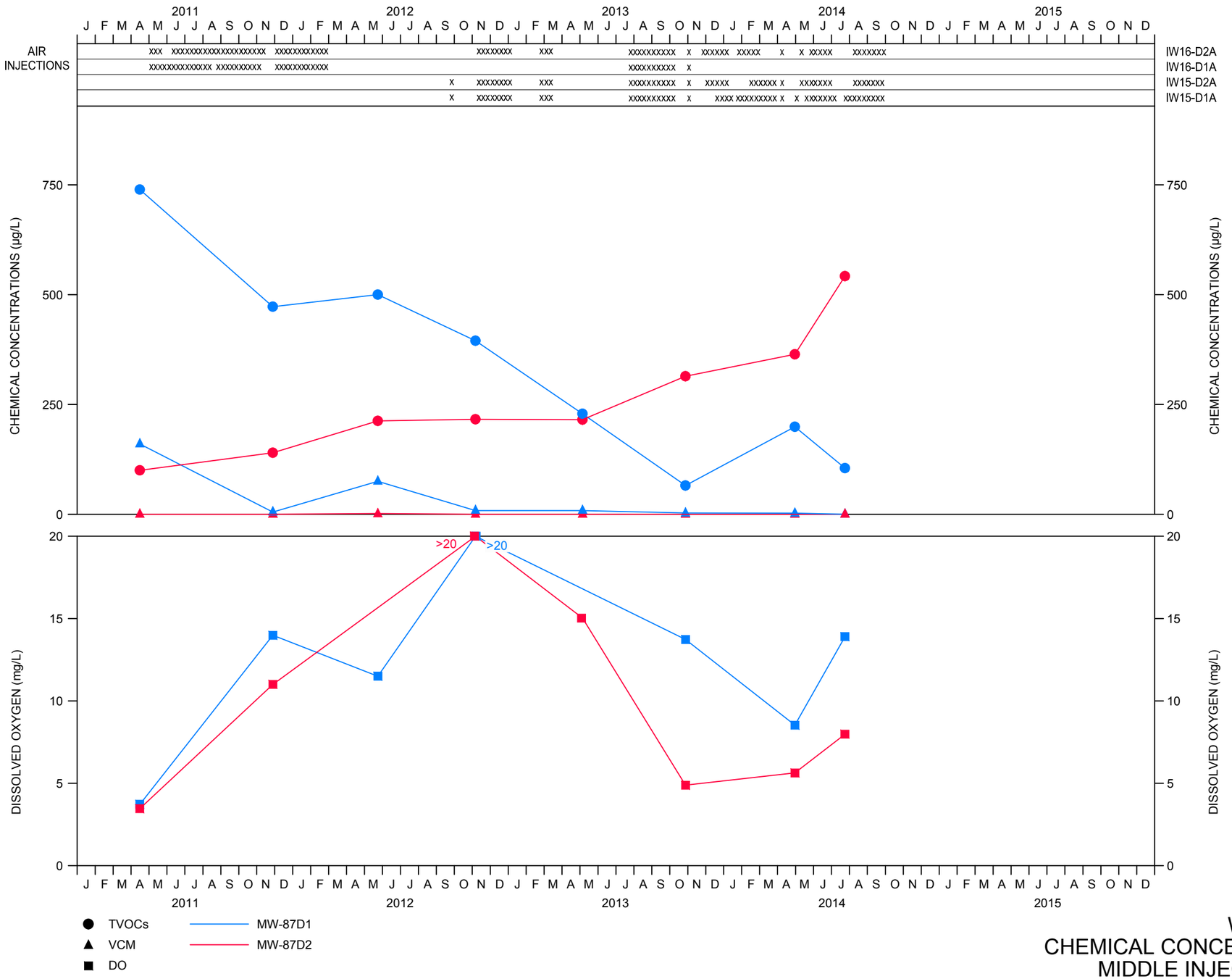


figure 10

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

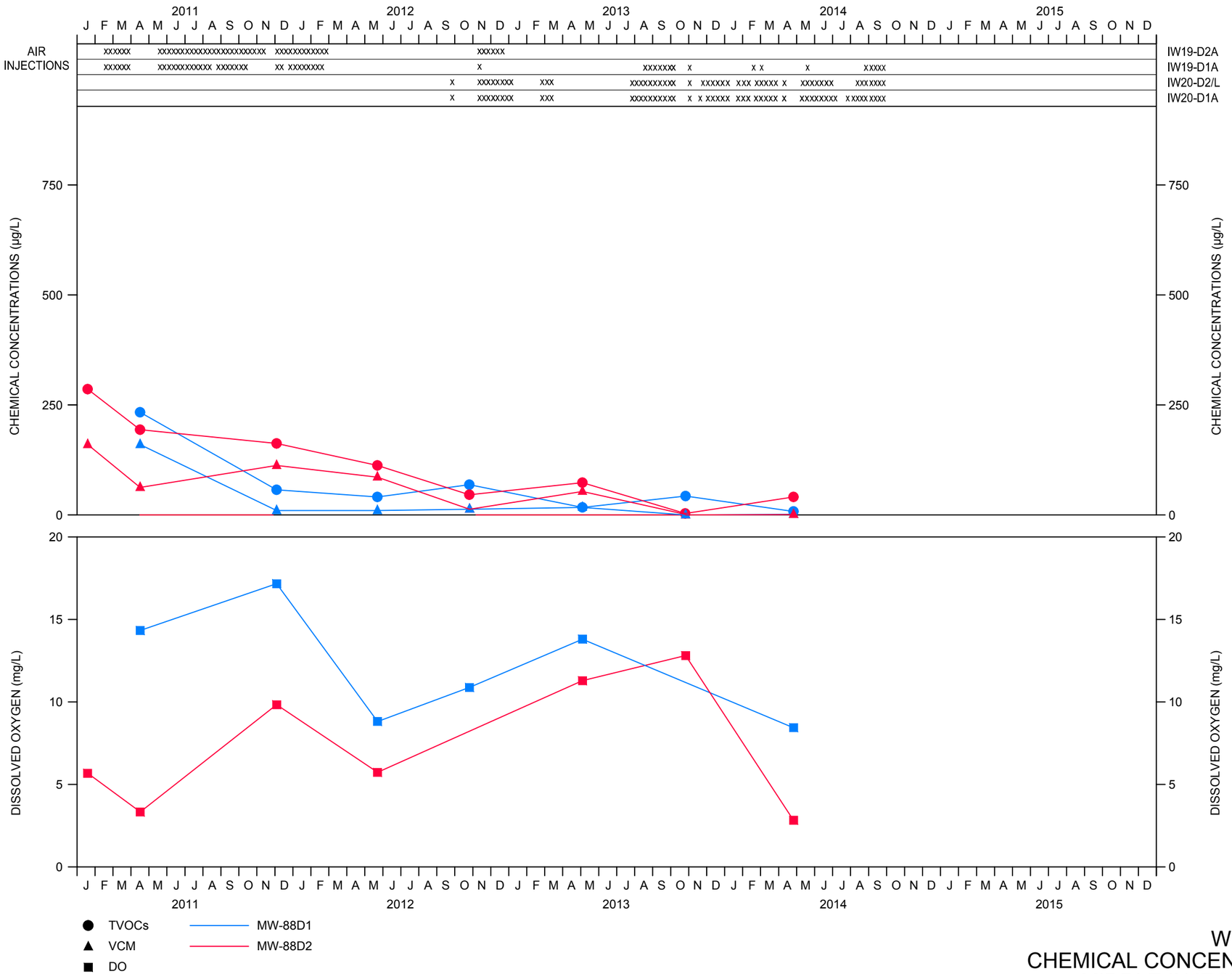


figure 11

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

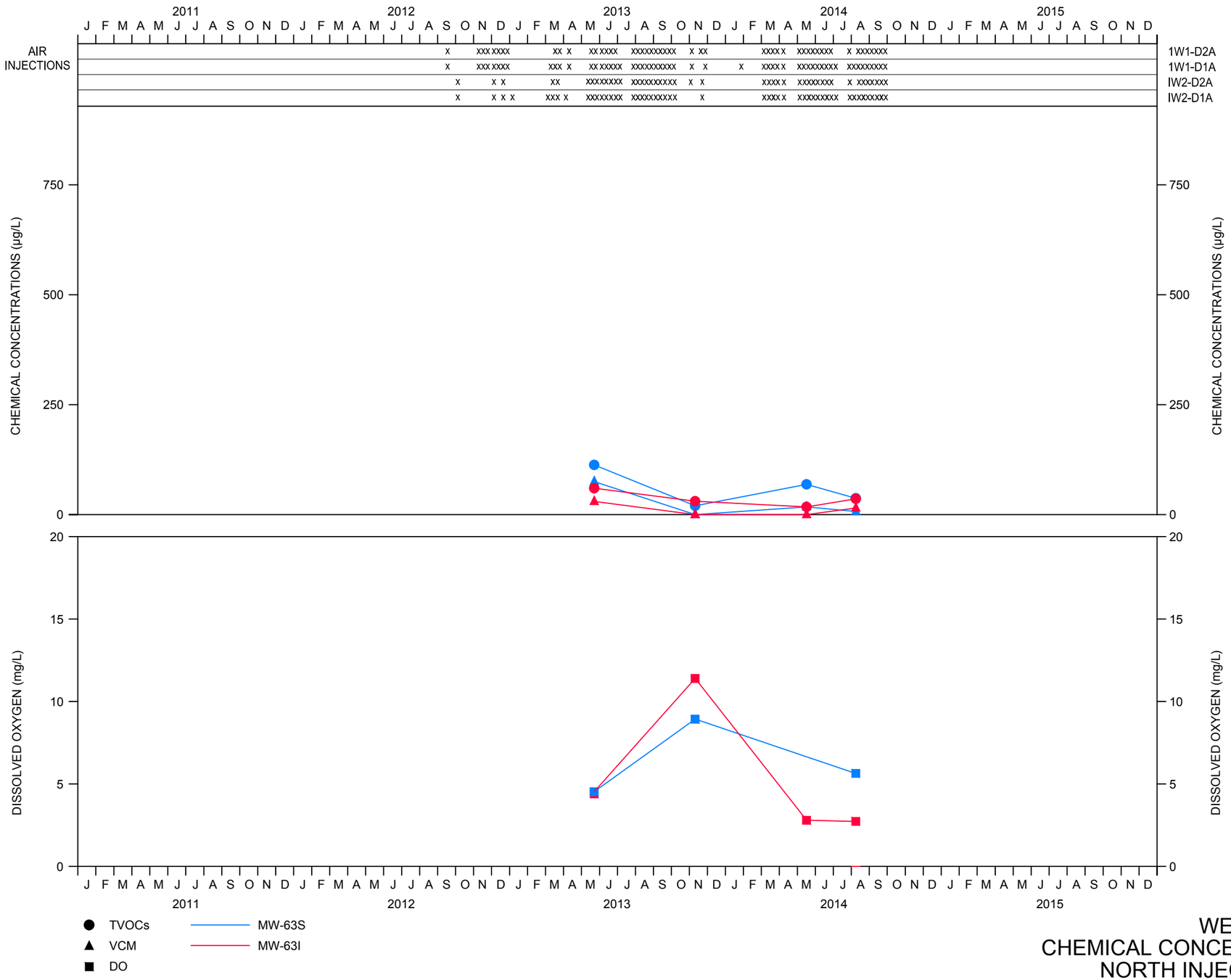


figure 12

WELL NEST MW-63S/I
CHEMICAL CONCENTRATION PLOTS
NORTH INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

06883-D23102(TACC051)GN-WA012 SEP 29/2014

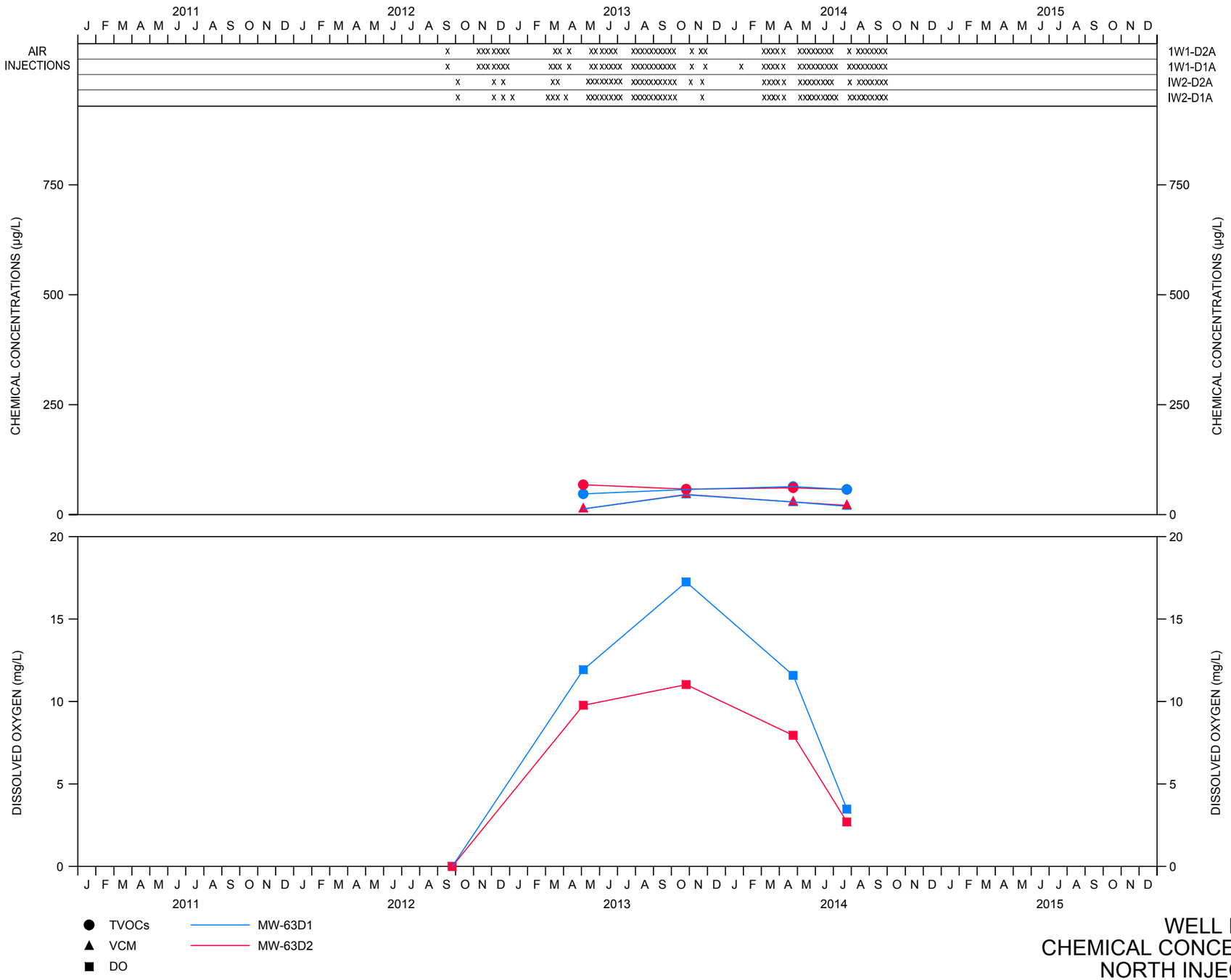


figure 13

WELL NEST MW-63D1/D2
CHEMICAL CONCENTRATION PLOTS
NORTH INJECTION FENCELINE
Hooker/Ruco Site, Hicksville, New York

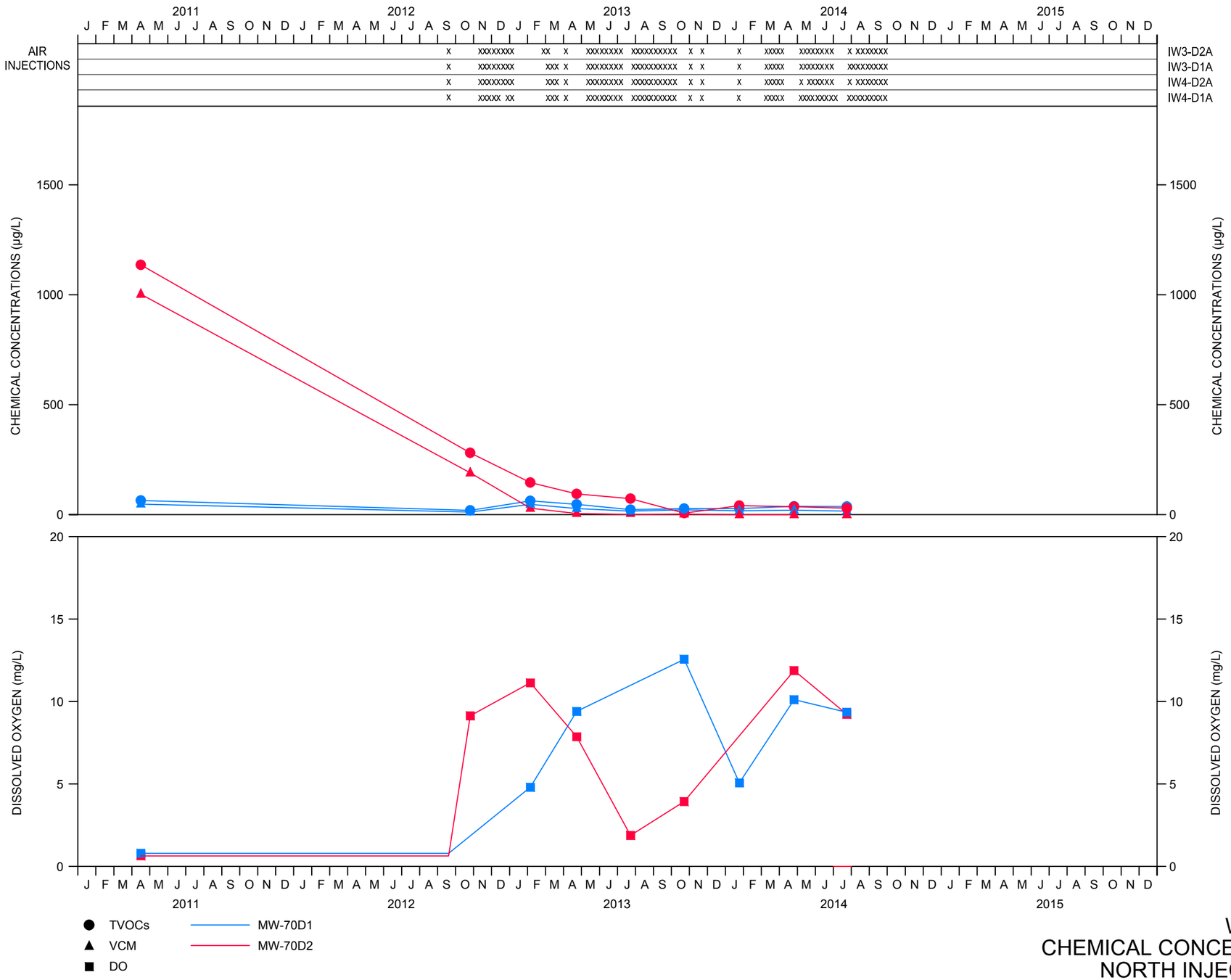


figure 14

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

06883-D23102(TACC051)GN-WA014 SEP 29/2014

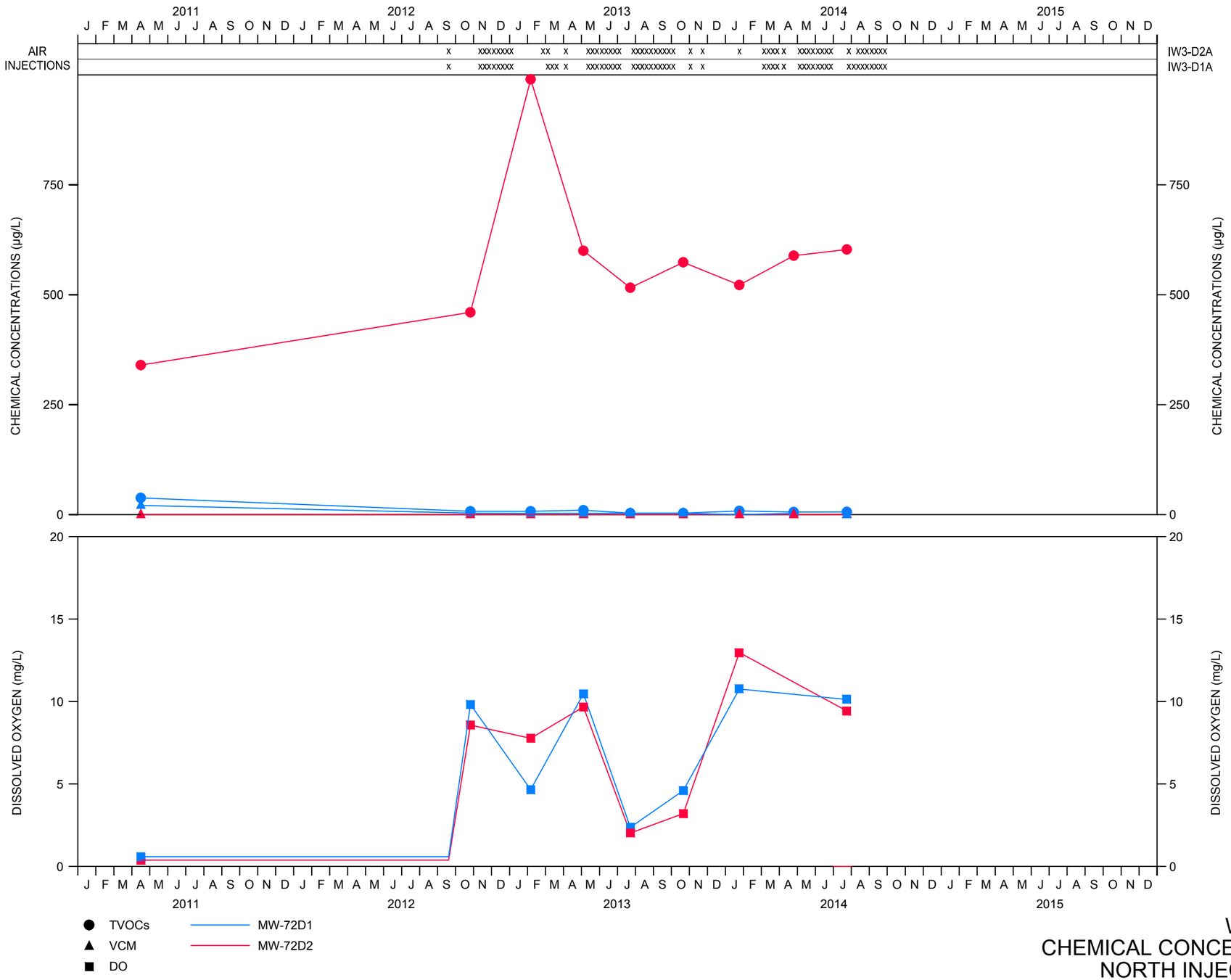


figure 15

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

06883-D23102(TACC051)GN-WA015 SEP 29/2014

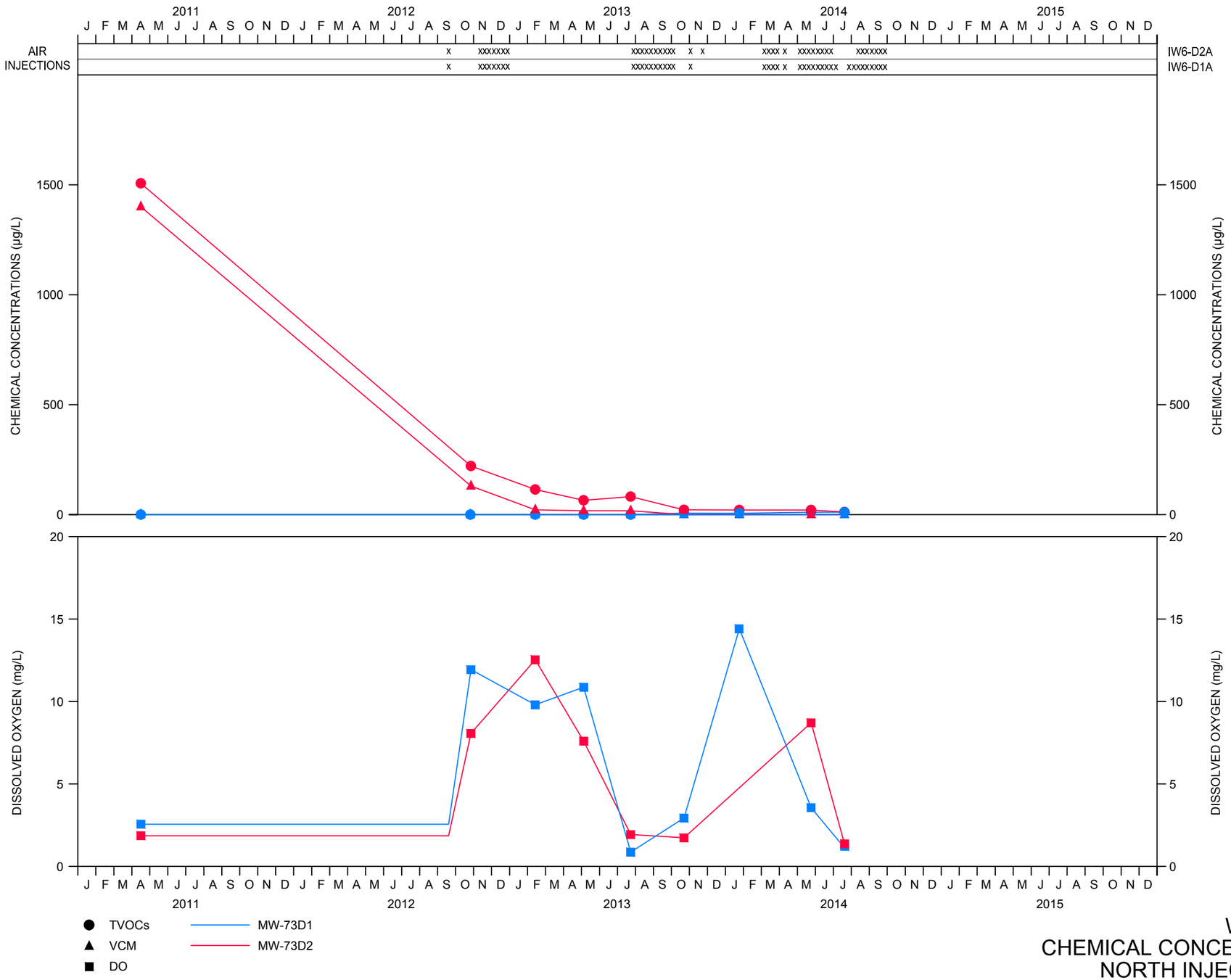


figure 16

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

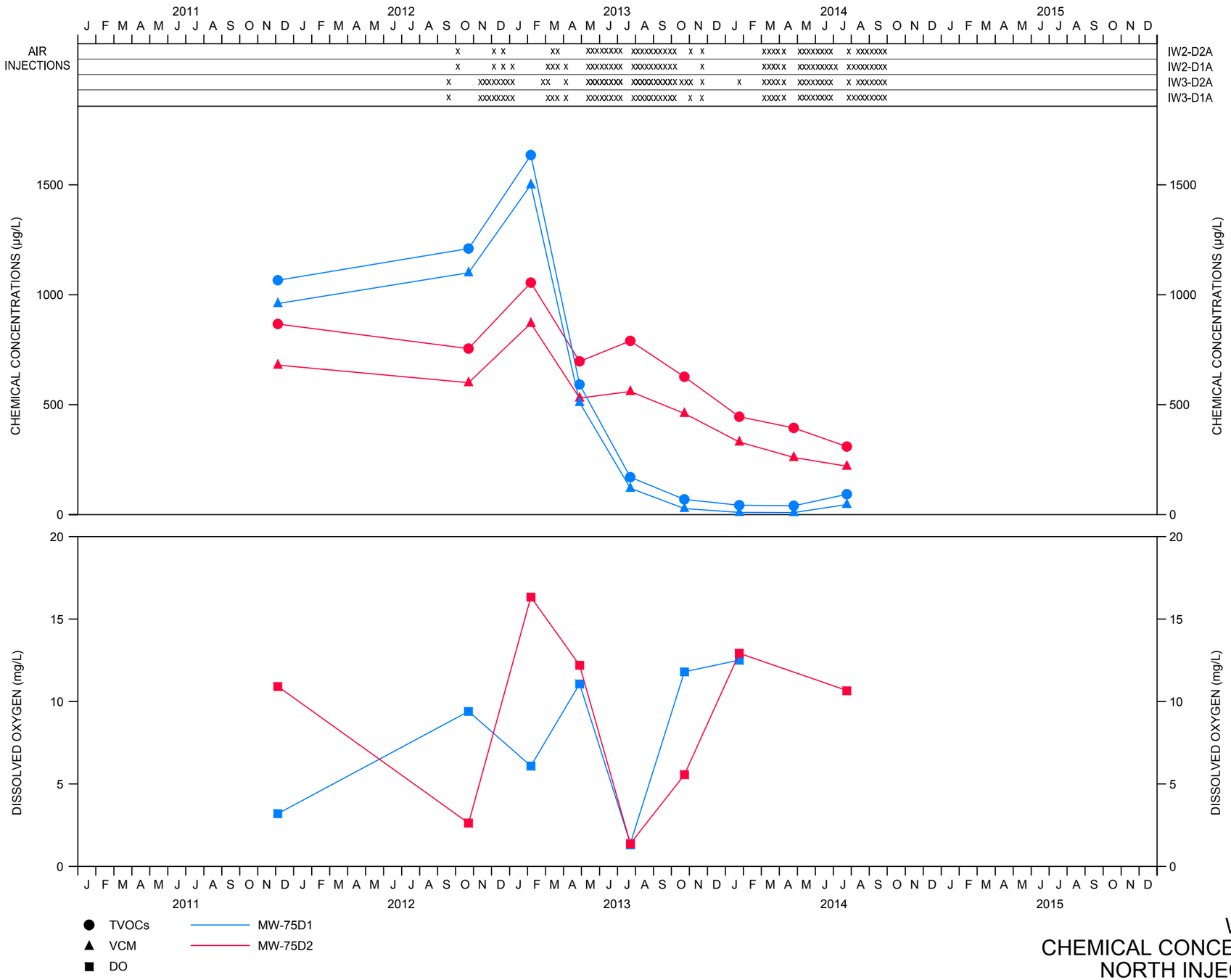


figure 17

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

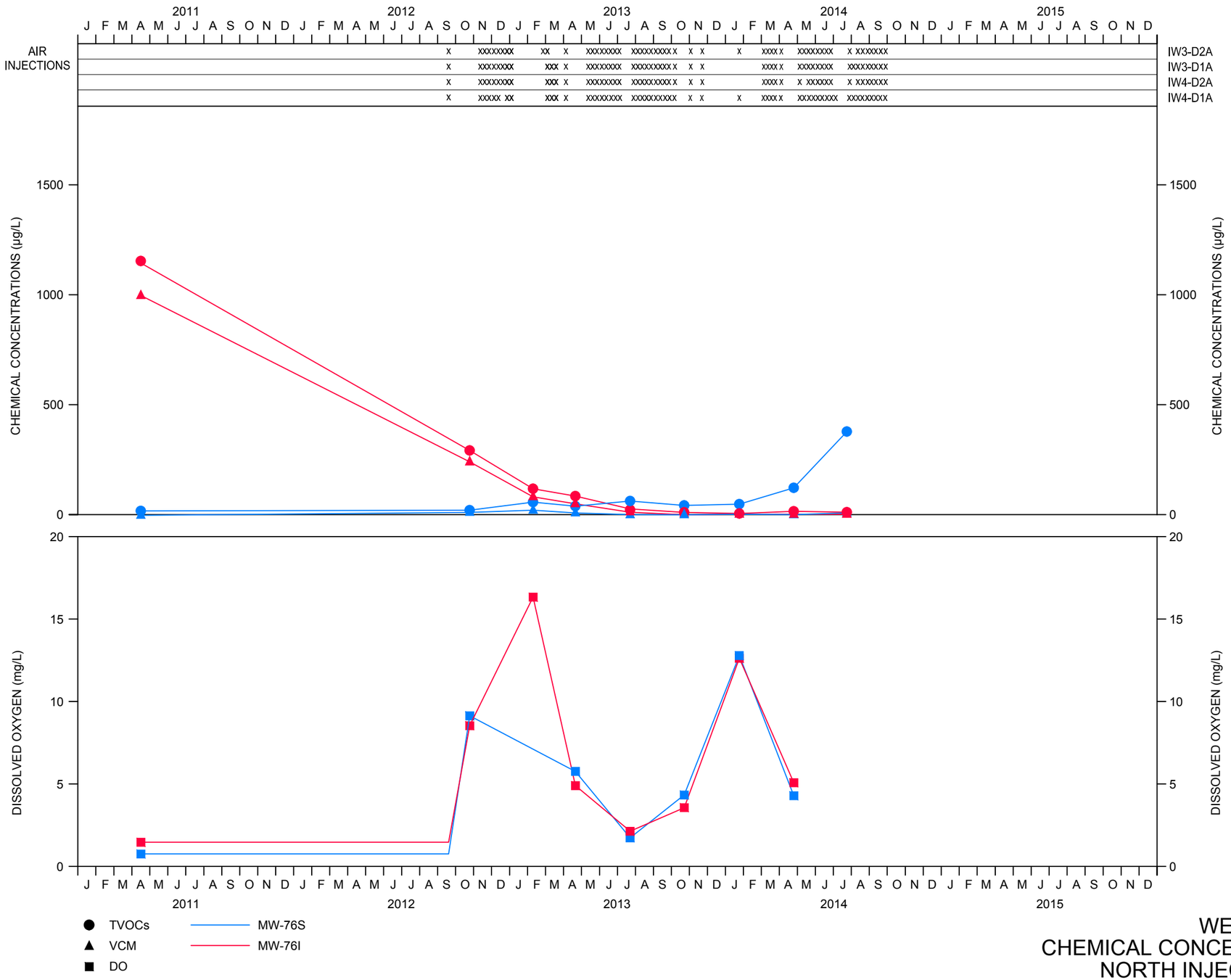


figure 18

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

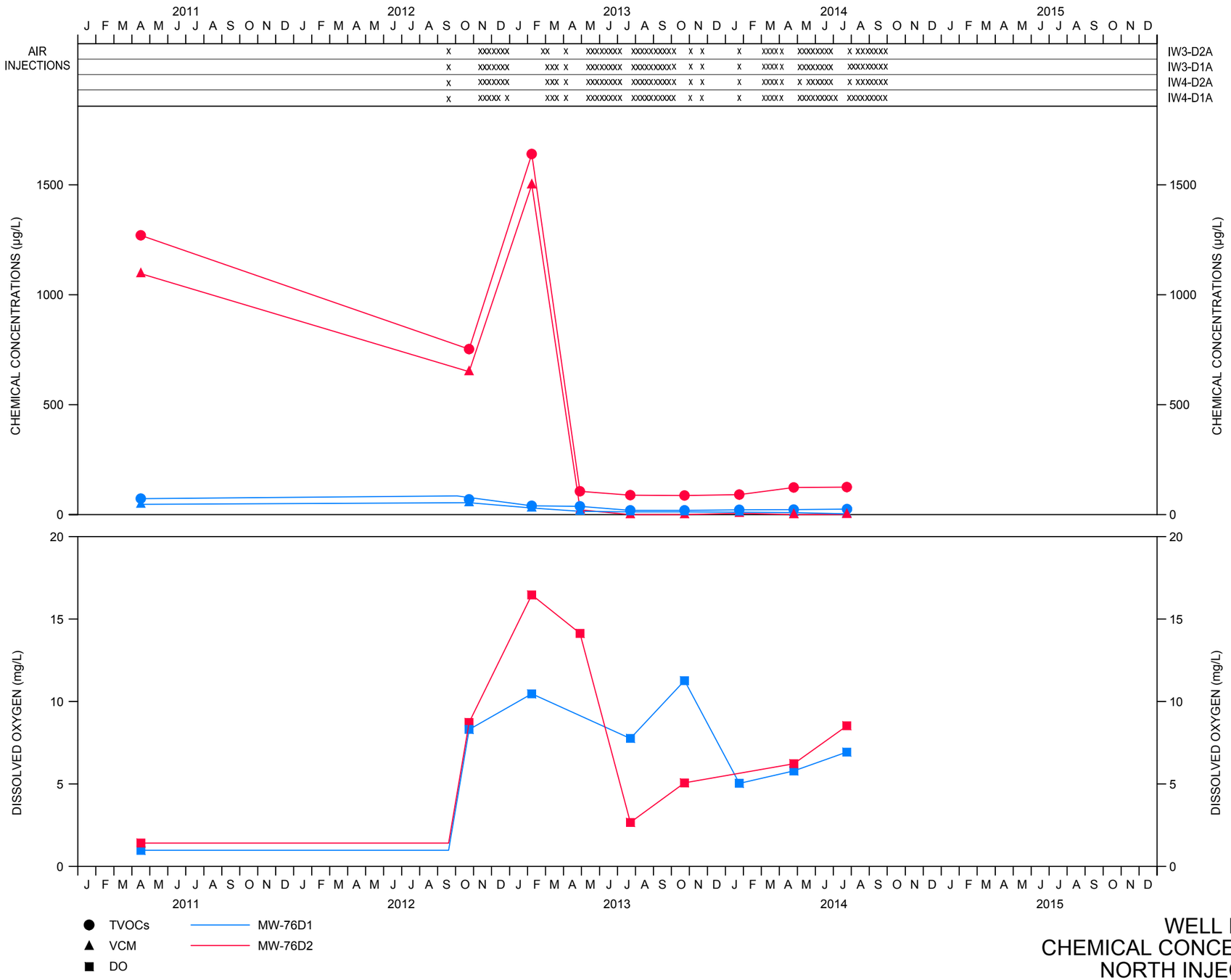


figure 19

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

06883-D23102(TACC051)GN-WA019 SEP 30/2014

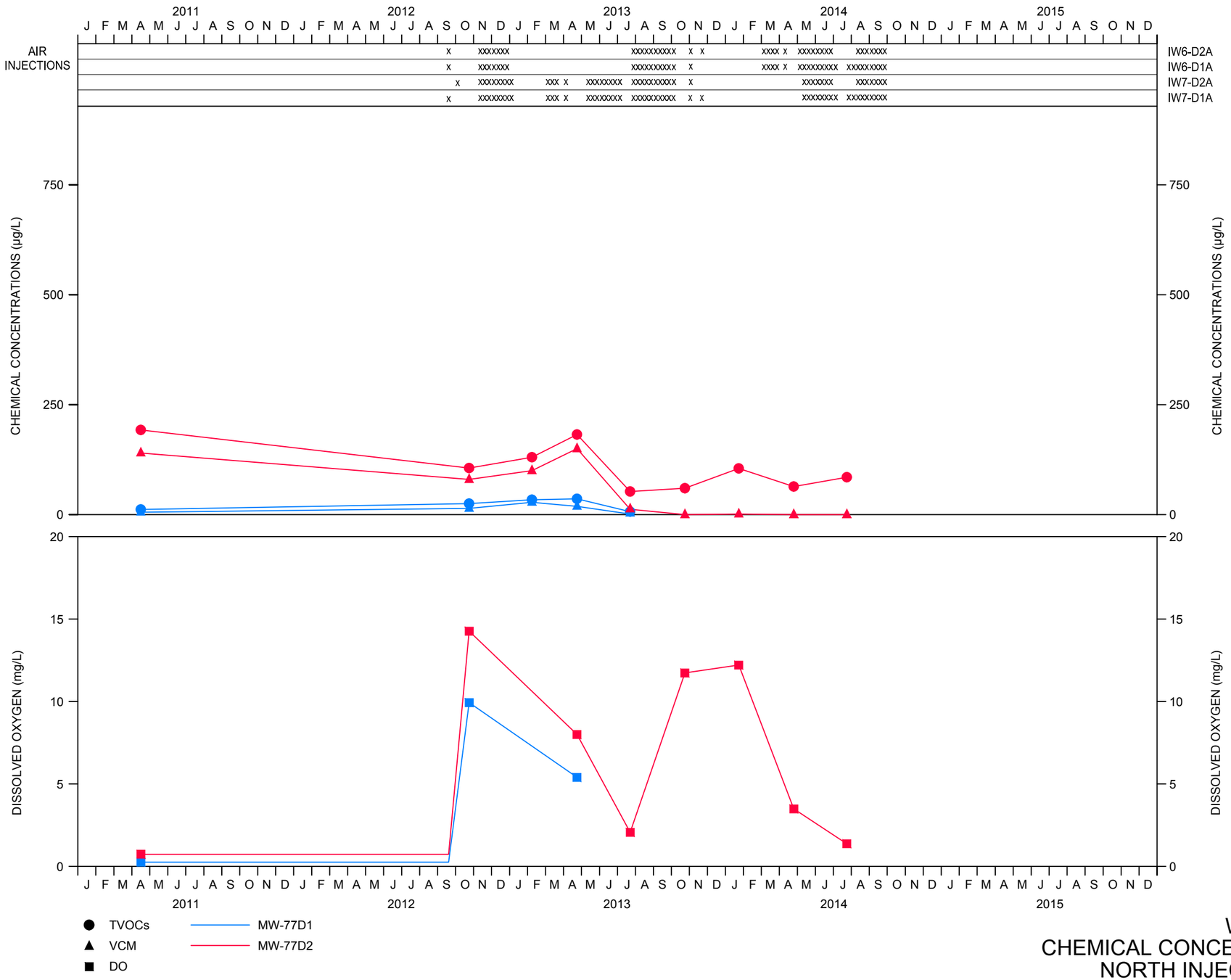


figure 20

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

06883-D23102(TACC051)GN-WA020 SEP 30/2014

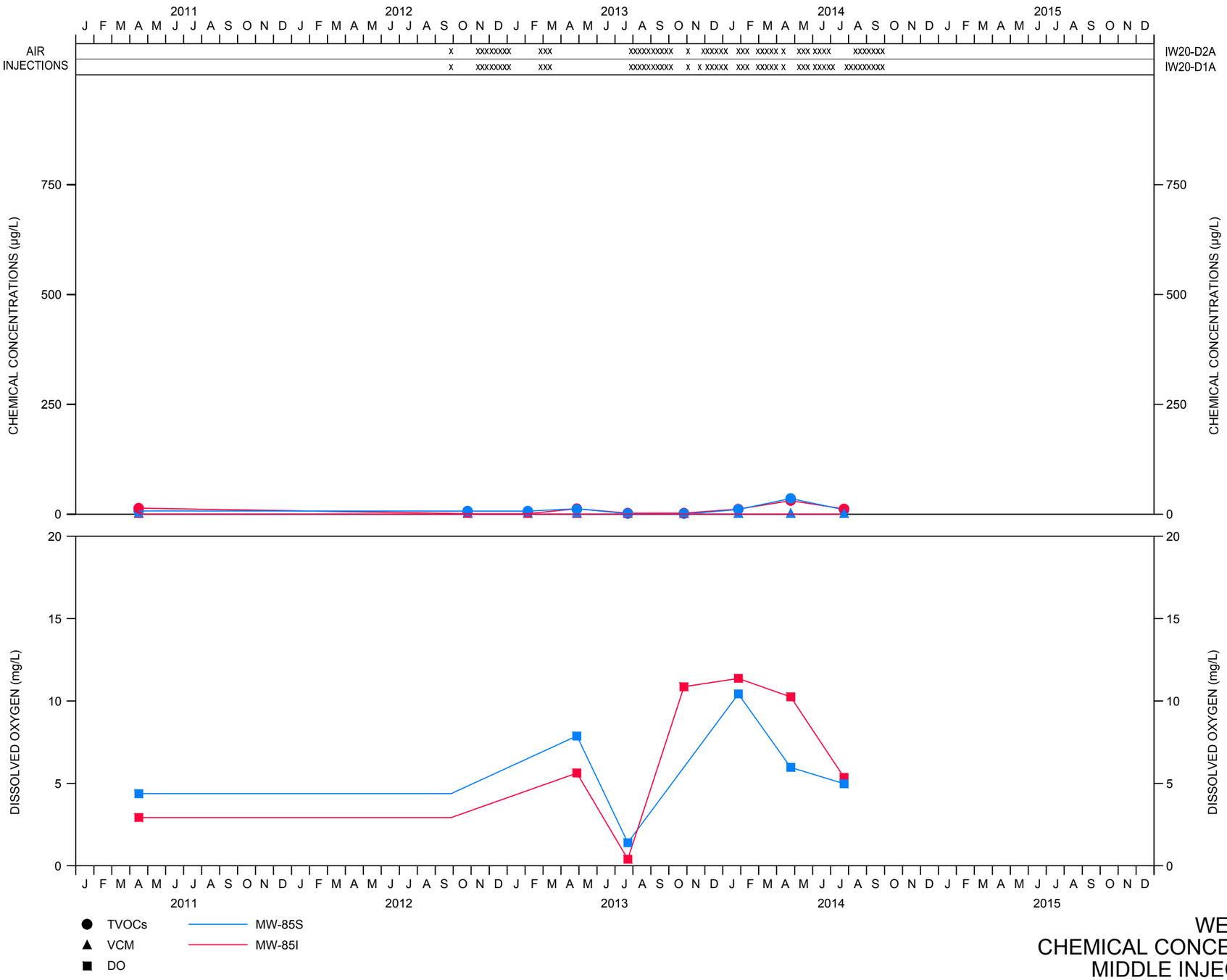


figure 21

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

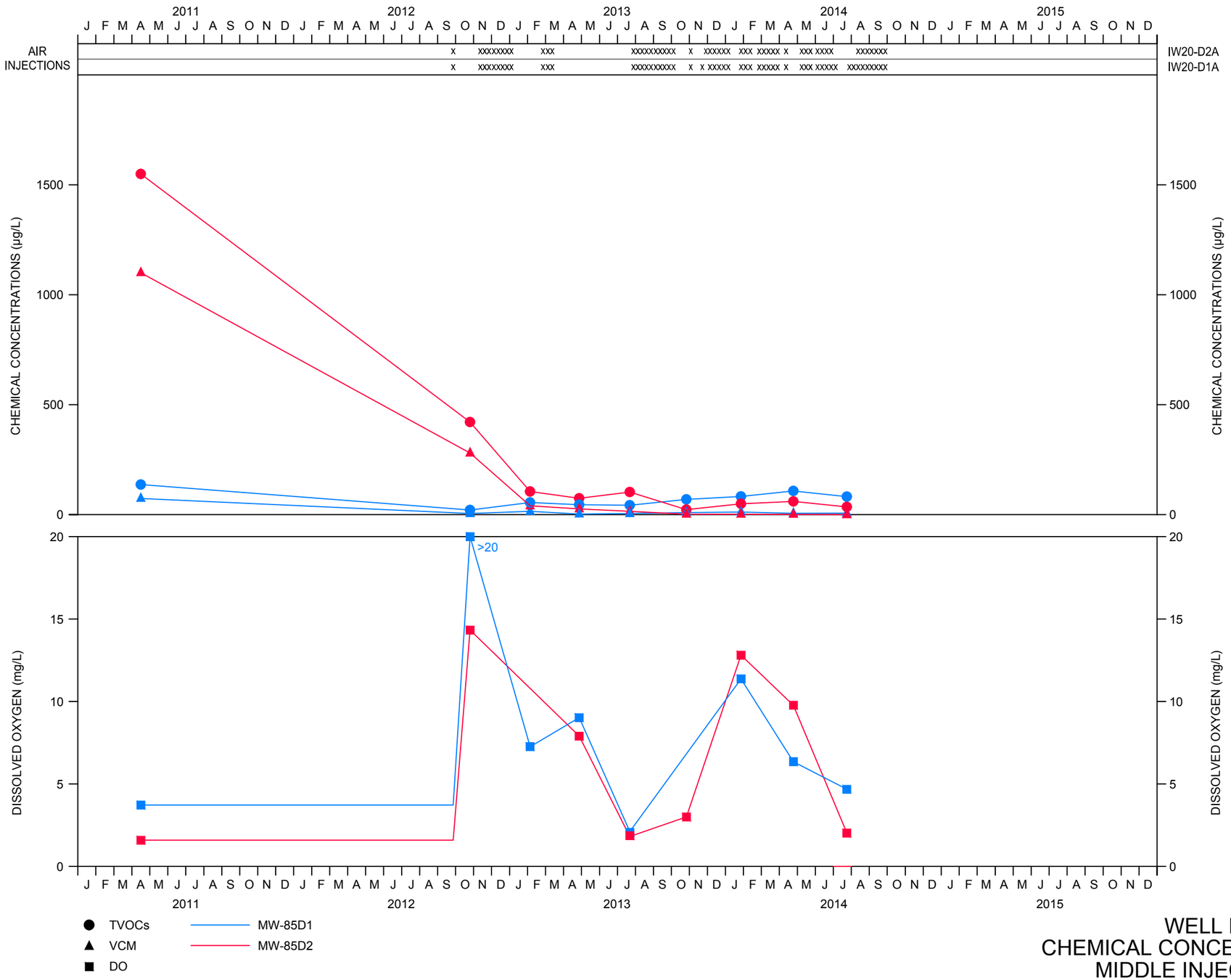


figure 22

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

06883-D23102(TACC051)GN-WA022 SEP 30/2014

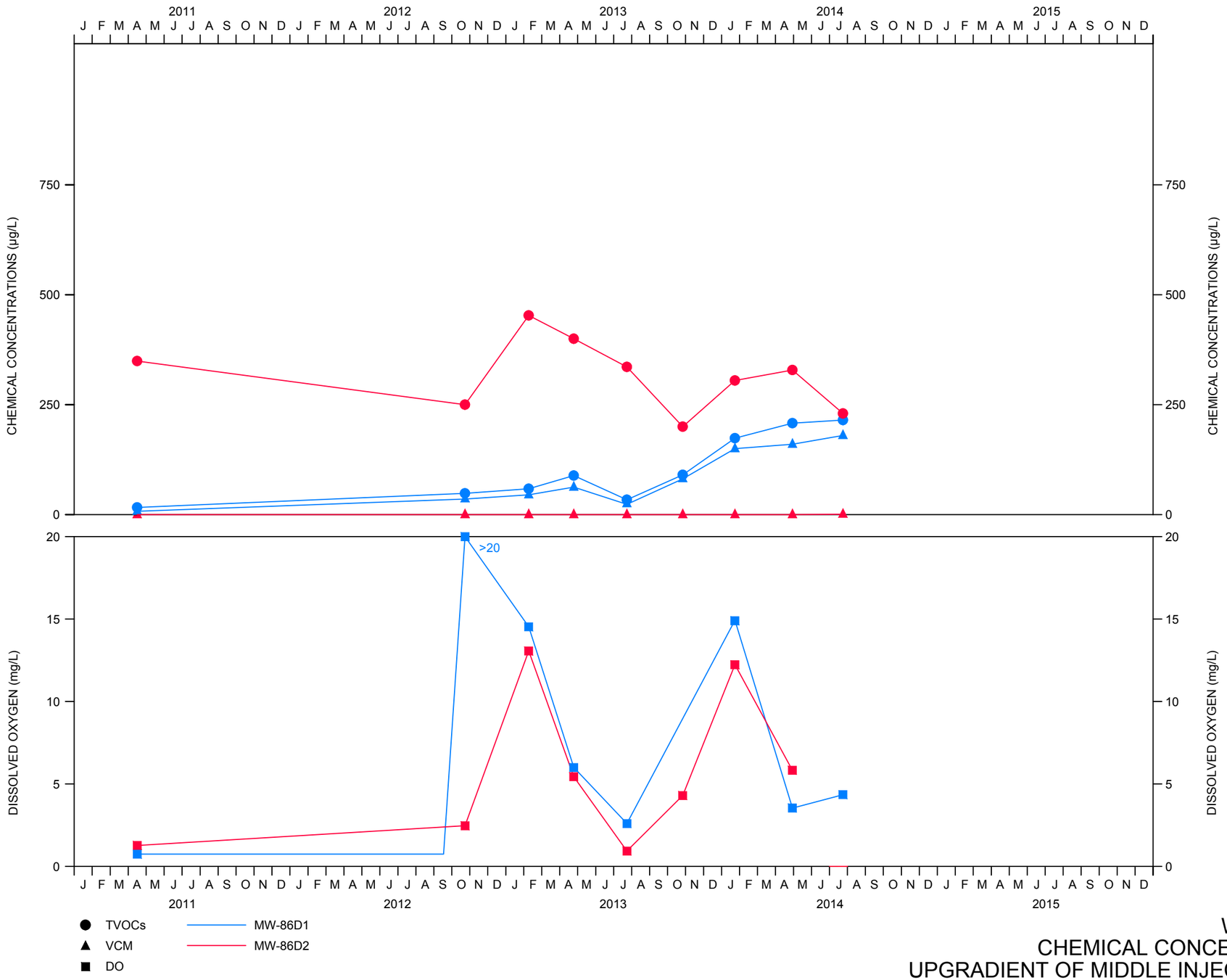


figure 23

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

06883-D23102(TACC051)GN-WA023 SEP 30/2014

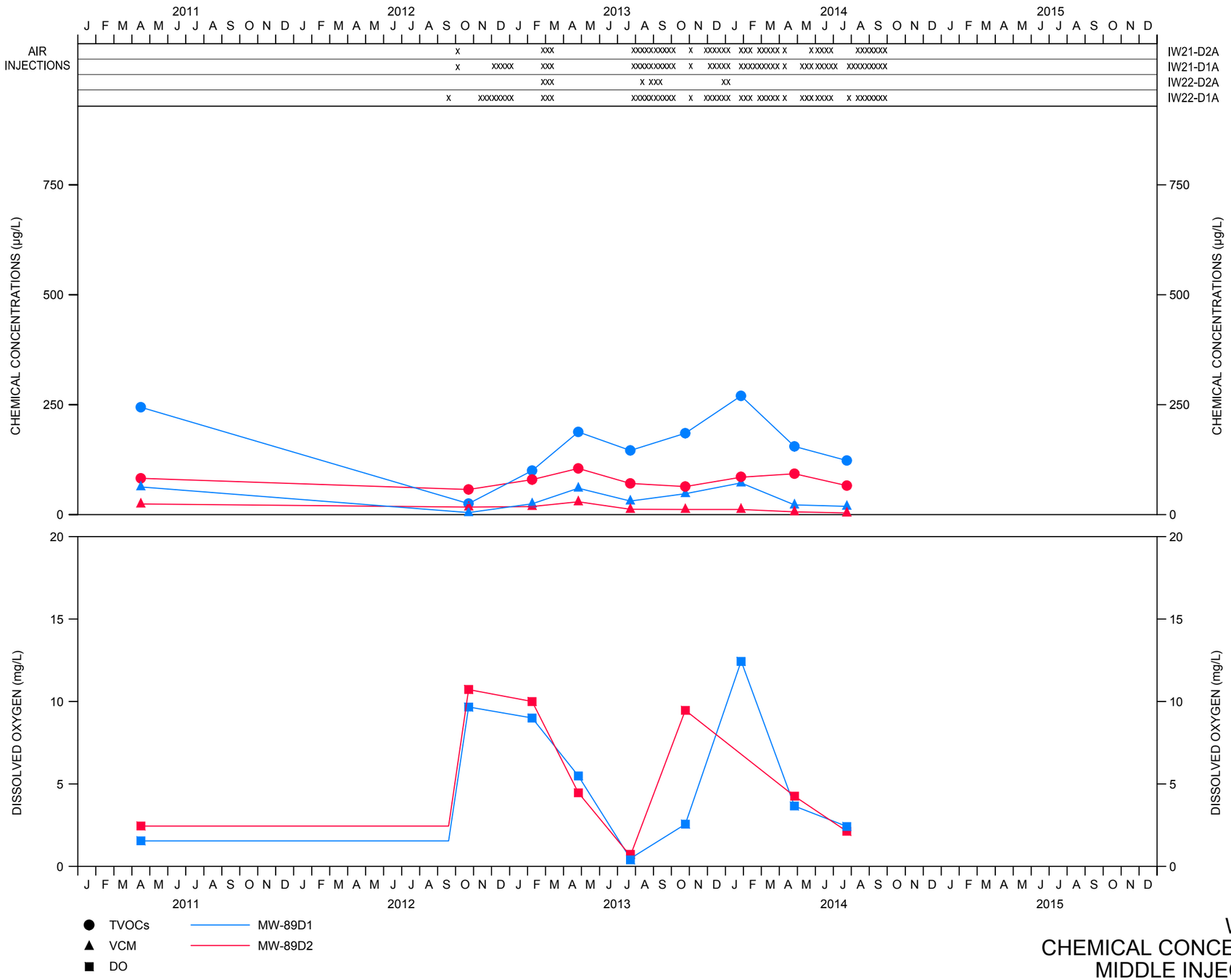


figure 24

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

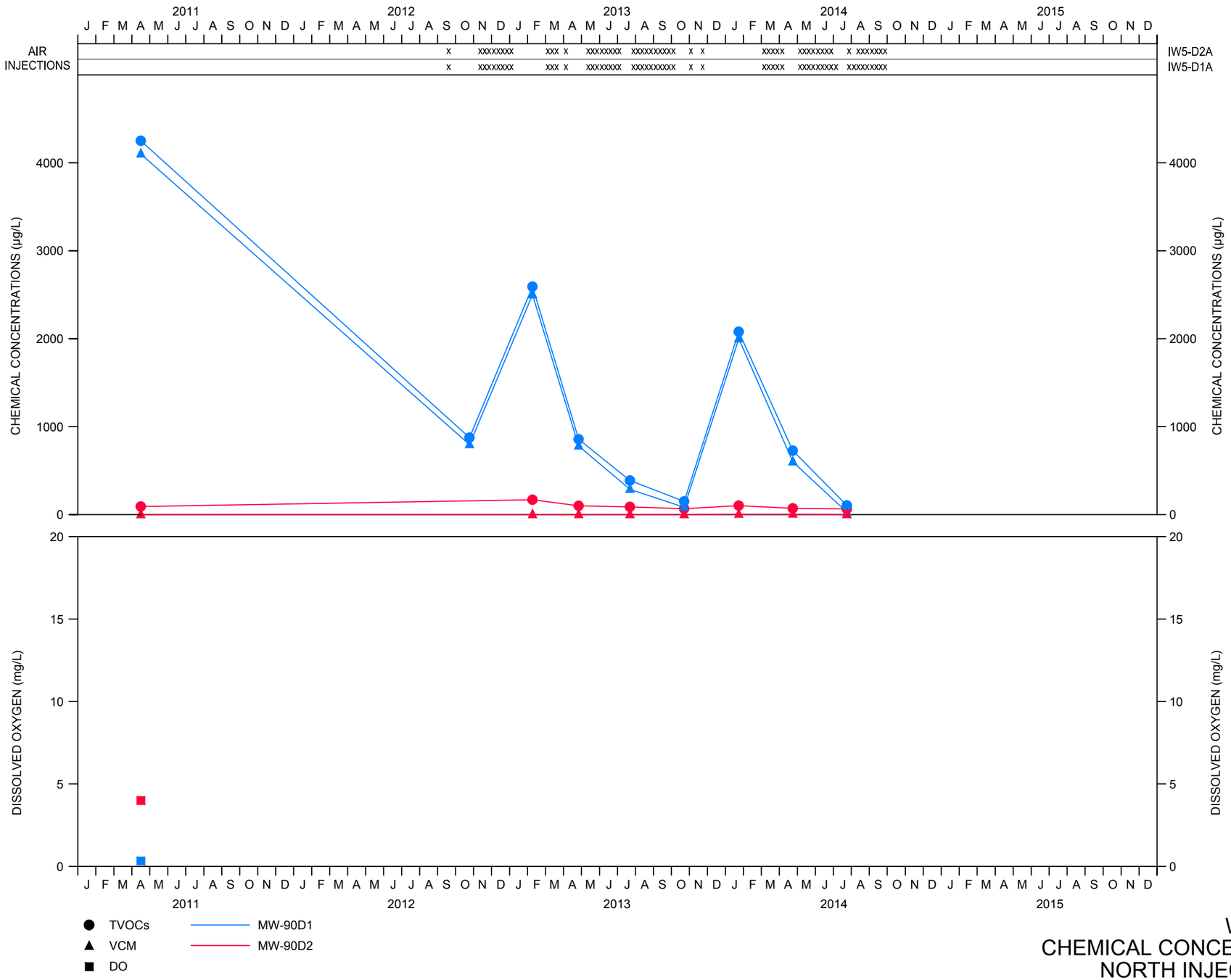


figure 25

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

July through September 2014

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
• Revised RI Report	100	May 25, 1999		November 16, 1999
• Revised FS Report	100	July 7, 1999		December 22, 1999

TABLE 1

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

July through September 2014

Task and Activity	*Percentage of Activity Completed*	*Start Date*	*Scheduled Completion Date*	*Completion Date*
• 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 Remedy	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
• 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

TABLE 1

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

July through September 2014

Task and Activity	*Percentage of Activity Completed*	*Start Date*	*Scheduled Completion Date*	*Completion Date*
• 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
• 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™ Evaluation	100			February 11, 2010
• Trailing Edge Proposal	100			March 15, 2010

TABLE 1

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

July through September 2014

Task and Activity	*Percentage of Activity Completed*	*Start Date*	*Scheduled Completion Date*	*Completion Date*
• 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™ 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 8 to 29, 2013
• 2013 Second Quarter Sampling	100			April 24 to May 23, 2013
• 2013 Third Quarter Sampling	100			July 9 to 25, 2013
• 2013 Fourth Quarter Sampling	100			October 24 to November 7, 2013
• 2014 First Quarter Sampling	100			January 7 to 27, 2014
• 2014 Second Quarter Sampling	100			April 23 to May 15, 2014
• 2014 Third Quarter Sampling	100			July 2 to August 6, 2014

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2014 (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-52S	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-52I	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-58D	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
	11/21/2011	-0.02	NR	4.96	14.7	0.270	74	0.30	7	NR
	5/23/2013	NA	NA	4.87	20.8	0.210	167	5.94	18	2.0
MW-58D1	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
	11/21/2011	-0.02	NR	6.47	15.3	0.307	-48	0.52	27	NR
	5/23/2013[5]	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-58D2	10/25/2006	0.11	2.8	6.95	17.3	0.266	-198	0.00	15.1	5.16
	4/29/2013	NA	NA	6.37	15.4	0.151	-81	7.70	35.8	3.87
MW-59D1	10/25/2006	0.00	2.0	6.07	17.4	0.432	-20	0.58	261	3.24
	11/29/2011	-0.07	NR	6.07	18.0	0.267	-43	0.30	60	NR
MW-59D2	10/25/2006	0.02	5.5	6.50	17.5	0.452	-99	0.47	240	2.00
	11/29/2011	-0.10	NR	6.60	17.3	0.260	-128	0.10	550	NR
MW-59D	10/26/2006	0.07	4.5	10.29	17.1	0.364	-108	0.00	9.6	2.65
	11/29/2011	0.03	NR	5.53	17.9	0.255	49	0.35	40	NR
MW-60S	5/23/2013	NA	NA	10.18	19.8	0.127	-233	4.74	565	>5.0
MW-60I	5/23/2013	NA	NA	6.57	21.2	0.201	-93	3.77	119	>5.0
MW-60D	5/23/2013	NA	NA	10.11	20.3	0.267	-204	4.60	122	2.43
MW-60D1	4/30/2013	NA	NA	7.10	17.4	0.315	-108	5.84	>1000	>5.0
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-61I	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

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2014 (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-61D1	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
	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
	5/2/2013	NA	NA	7.66	14.1	0.147	196	16.37	>1000	>5.0
	10/29/2013 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	4/29/2014 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2014 (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-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-63D1	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
	5/1/2013	NA	NA	5.71	14.8	0.189	232	11.93	58.4	1.6
	10/24/2013	NA	NA	5.84	9.7	0.139	208	17.25	25.6	0.9
	4/24/2014	NA	NA	4.56	9.3	0.274	276	11.59	10.4	0.0
	7/17/2014	NA	NA	5.37	20.2	0.184	158	3.50	7.8	3.2
MW-63D2	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
	5/1/2013	NA	NA	5.23	13.6	0.198	229	9.77	43.8	1.65
	10/24/2013	NA	NA	6.05	6.7	0.157	-17	11.03	18.8	3.86
	4/24/2014	NA	NA	4.73	7.5	0.232	202	7.95	33.3	0.11
	7/17/2014	NA	NA	6.02	19.6	0.216	125	2.70	2.5	3.10
MW-63S	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
	5/23/2013	NA	NA	6.36	21.0	0.193	74	4.53	17.1	1.33
	11/7/2013	NA	NA	8.12	15.6	0.240	7	8.91	36	3.16
	5/15/2014 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	8/6/2014	NA	NA	5.20	20.2	0.211	145	5.64	2.6	0.10
MW-63I	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
	5/23/2013	NA	NA	6.17	20.8	0.183	75	4.40	27.7	1.7
	11/7/2013	NA	NA	8.31	15.5	0.243	70	11.37	19.8	0.7
	5/15/2014	NA	NA	6.78	18.8	0.175	36	2.83	0.0	0.0
	8/6/2014	NA	NA	5.27	20.5	0.245	139	2.73	4.3	0.5
MW-64S	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-64I	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-66D2	4/3/2006	0.03	5.2	5.23	15.2	0.197	-16	0.00	24.3	4.50
	4/25/2013	NA	NA	6.83	17.3	0.137	-44	6.58	399	0.21
	10/29/2013	NA	NA	8.10	13.7	0.149	-111	3.88	236	0.25
	4/25/2014	NA	NA	6.80	16.8	0.126	53	4.55	594	0.69
MW-67S	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
	11/22/2011	-0.11	NR	6.74	13.5	0.183	-35	0.14	>1000	NR
	4/25/2013	NA	NA	4.48	15.1	0.164	45	5.14	602	1.9
	10/29/2013	NA	NA	8.97	14.3	0.058	-161	2.49	637	1.0
	4/25/2014	NA	NA	6.38	14.1	0.096	77	2.76	>800	0.0
MW-67D	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
	11/22/2011	0.03	NR	5.57	15.2	0.144	129	2.97	30	NR
	4/25/2013	NA	NA	4.40	11.6	0.066	45	11.98	125	1.9
	10/29/2013	NA	NA	9.73	13.5	0.131	-204	3.78	39.8	0.0
	4/25/2014	NA	NA	6.68	14.3	0.098	2	5.35	>800	0.0
MW-68S	4/6/2006	-0.10	5.1	8.87	17.4	0.144	-281	0.00	27.8	0.60
	11/28/2011	-0.17	NR	6.51	17.2	0.309	-107	0.05	>1000	NR
	4/25/2013	NA	NA	5.96	14.2	0.079	-190	6.84	64.6	1.93
	10/29/2013	NA	NA	8.40	11.3	0.119	-128	3.58	48.8	0.97
	4/25/2014	NA	NA	6.17	13.7	0.175	-50	2.49	189	0.00
MW-68D	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
	11/28/2011	0.04	NR	5.79	18.2	0.170	-38	0.97	160	NR
	4/25/2013	NA	NA	6.10	15.0	0.119	-174	5.88	NM	0.73
	10/29/2013	NA	NA	7.76	12.0	0.135	-91	4.12	514	0.19
	4/25/2014	NA	NA	6.71	12.6	0.150	-71	5.27	>800	0.00

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2014 (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-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	4.80	384	3.0
	4/26/2013	NA	NA	4.08	15.9	0.212	170	9.35	346	3.5
	7/23/2013[(5)]	NA	NA	NM	NM	NM	NM	NM	NM	NM
	10/24/2013	NA	NA	5.25	10.0	0.078	38	12.56	214	2.8
	1/23/2014	NA	NA	6.91	8.0	0.105	-109	5.06	111	0.0
	4/23/2014	NA	NA	4.75	15.8	0.578	76	10.11	93	0.0
	7/21/2014	NA	NA	7.03	18.6	0.152	48	9.35	190	0.0
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
	4/26/2013	NA	NA	6.86	17.1	0.190	-19	7.89	780	>5.0
	7/23/2013	NA	NA	5.58	23.8	0.110	16	1.88	224	1.2
	10/24/2013	NA	NA	7.19	13.8	0.079	-17	3.95	291	0.1
	1/23/2014[(5)]	NA	NA	NM	NM	NM	NM	NM	NM	NM
	4/23/2014	NA	NA	2.32	14.4	0.197	211	11.88	132	0.0
	7/21/2014	NA	NA	6.68	19.3	0.138	-9	9.22	222	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
	5/1/2013	NA	NA	7.20	18.1	0.131	103	10.48	981	3.7
	7/23/2013	NA	NA	5.60	28.6	0.081	-11	2.37	145	>5.0
	10/24/2013	NA	NA	7.24	12.8	0.094	-80	4.60	535	4.6
	1/24/2014	NA	NA	5.74	10.2	0.075	36	10.78	544	NM
	4/23/2014[(5)]	NA	NA	NM	NM	NM	NM	NM	NM	NM
	7/21/2014	NA	NA	6.85	19.9	0.081	-21	10.13	578	0.0
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
	5/1/2013	NA	NA	8.38	17.5	0.199	-32	9.69	735	>5.0
	7/23/2013	NA	NA	7.15	23.8	0.185	-134	2.03	647	3.7
	10/24/2013	NA	NA	7.80	14.0	0.154	-144	3.20	0.0	3.2
	1/24/2014	NA	NA	7.12	10.6	0.126	67	12.96	>800	NM
	4/23/2014[(5)]	NA	NA	NM	NM	NM	NM	NM	NM	NM
	7/21/2014	NA	NA	7.03	21.1	0.112	-2	9.43	558	0.3
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
	5/1/2013	NA	NA	6.92	16.8	0.144	-44	10.87	831	>5.0
	7/24/2013	NA	NA	6.98	24.3	0.089	-128	0.86	>999	3.0
	10/25/2013	NA	NA	7.05	13.2	NM	-51	2.94	0.0	0.3
	1/24/2014	NA	NA	8.66	12.4	0.113	143	14.42	446	NM
	4/24/2014	NA	NA	5.44	10.9	0.059	140	3.56	>800	0.8
	7/18/2014	NA	NA	7.40	21.2	0.007	21	1.22	669	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
	5/1/2013	NA	NA	7.38	17.3	0.146	-95	7.63	448	>5.0
	7/24/2013	NA	NA	6.92	21.6	0.123	-29	1.95	629	3.6
	10/25/2013	NA	NA	7.15	17.5	0.077	-32	1.74	485	1.3
	1/24/2014[(5)]	NA	NA	NM	NM	NM	NM	NM	NM	NM
	4/24/2014	NA	NA	6.43	10.1	0.160	130	8.71	>800	0.0
	7/18/2014	NA	NA	7.65	21.7	0.030	1	1.37	608	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
	4/30/2013	NA	NA	6.04	17.2	0.364	1	11.07	35.3	4.1
	7/24/2013	NA	NA	6.54	22.9	0.356	-138	1.32	131	2.2
	10/24/2013	NA	NA	5.67	7.7	0.184	48	11.80	22.9	3.2
	1/24/2014	NA	NA	6.85	10.9	0.107	40	12.51	267	NM
	4/23/2014[(5)]	NA	NA	NM	NM	NM	NM	NM	NM	NM
	7/18/2014[(5)]	NA	NA	NM	NM	NM	NM	NM	NM	NM

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2014 (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-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
	4/30/2013	NA	NA	5.76	17.0	0.248	26	12.20	63.5	3.9
	7/24/2013	NA	NA	6.56	24.5	0.199	-136	1.32	13.6	2.2
	10/24/2013	NA	NA	6.63	12.3	0.171	-92	5.56	10.7	0.0
	1/24/2014	NA	NA	6.30	10.5	0.111	0	12.93	80.9	NM
	4/23/2014[(5)]	NA	NA	NM	NM	NM	NM	NM	NM	NM
	7/18/2014	NA	NA	6.73	24.8	0.152	-37	10.65	20.8	0.0

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2014 (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-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
	4/24/2013(5)	NA	NA	6.18	17.2	0.234	-70	5.76	63.2	1.25
	7/23/2013	NA	NA	6.16	24.0	0.269	-157	1.71	119.0	2.90
	10/25/2013	NA	NA	6.17	13.8	0.201	-1	4.33	88.6	0.56
	1/24/2014	NA	NA	6.17	11.3	0.062	125	12.79	73.9	0.0
	4/23/2014	NA	NA	3.39	12.6	0.553	228	4.29	21.5	0.0
	7/18/2014(5)	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	4.25
	2/6/2013	NA	NA	6.93	9.3	0.324	4	16.35	250	2.2
	4/24/2013	NA	NA	6.15	16.4	0.221	-74	4.90	NM	>5.0
	7/23/2013	NA	NA	6.25	22.7	0.211	0	2.14	>999	2.9
	10/25/2013	NA	NA	6.08	14.1	0.163	4	3.56	0	0.5
	1/24/2014	NA	NA	6.78	11.0	0.151	-8	12.62	149	0.7
	4/23/2014	NA	NA	4.35	14.3	1.09	106	5.08	>800	0.05
	7/18/2014(5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-76D1	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
	4/30/2013(5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	7/23/2013	NA	NA	6.46	23.5	0.153	-148	7.76	359	3.94
	10/25/2013	NA	NA	4.43	12.1	0.085	97	11.27	210	0.08
	1/24/2014	NA	NA	6.94	10.2	0.128	-117	5.04	>800	NM
	4/23/2014	NA	NA	4.20	15.0	0.819	153	5.70	796	0.05
	7/21/2014	NA	NA	6.39	18.6	0.118	143	6.96	72.4	1.00
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
	4/30/2013	NA	NA	6.55	16.7	0.197	15	14.13	398	2.2
	7/23/2013	NA	NA	5.88	23.2	0.180	-73	2.65	>999	>5.0
	10/25/2013	NA	NA	5.92	12.7	0.132	13	5.07	195	5.1
	1/24/2014(5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	4/23/2014	NA	NA	3.98	15.5	1.010	164	6.23	98.9	0.18
	7/21/2014	NA	NA	7.11	18.5	0.132	91	8.53	159	0.49
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(5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	4/26/2013	NA	NA	8.86	18.4	0.18	-64	8.03	589	3.52
	7/24/2013(5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
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(5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	4/26/2013	NA	NA	7.92	18.0	0.161	-141	5.39	5.20	>5.0
	7/24/2013	NA	NA	6.43	21.2	0.165	-79	2.06	68.3	1.46
	10/25/2013	NA	NA	5.66	11.3	0.058	27	11.71	322	1.17
	1/23/2014	NA	NA	6.52	9.1	0.057	-107	12.21	129	1.20
	4/24/2014	NA	NA	7.40	10.8	0.163	46	3.49	515	0.0
	7/18/2014	NA	NA	6.97	20.4	0.138	78	1.37	997	0.0

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2014 (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-81D1	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
	5/2/2013 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	10/28/2013	NA	NA	8.55	14.1	0.135	-137	8.41	29.6	0.68
	4/29/2014	NA	NA	5.80	13.6	0.185	146	8.94	32.3	0.00
MW-81D2	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
	5/2/2013	NA	NA	7.68	14.6	0.162	46	17.28	489	3.9
	10/28/2013	NA	NA	10.12	14.0	0.121	NM	2.97	39	0.0
	4/29/2014	NA	NA	6.93	13.5	0.193	119	8.94	55	0.0

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2014 (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-82D1	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
	5/1/2013 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	10/25/2013 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	4/25/2014	NA	NA	6.07	14.5	0.163	177	5.83	30.4	0.00
MW-82D2	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
	5/1/2013	NA	NA	7.31	17.3	0.158	238	8.33	>1000	>5.0
	10/25/2013	NA	NA	8.40	11.5	0.160	-127	11.22	144	0.0
	4/25/2014	NA	NA	8.00	13.9	0.161	73	3.38	>800	0.13

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2014 (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-83D1	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
	5/1/2013	NA	NA	6.88	18.9	0.195	212	19.10	108	2.9
	10/29/2013	NA	NA	6.68	13.6	0.100	NM	13.65	15.7	0.5
	4/29/2014 (5)	NA	NA	NM	NM	NM	NM	NM	NM	Nm
MW-83D2	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
	5/1/2013	NA	NA	7.00	19.4	0.144	162	12.34	52.5	1.0
	10/29/2013	NA	NA	7.26	13.9	0.100	-63	8.73	15.1	0.3
	4/29/2014	NA	NA	6.44	13.3	0.148	172	8.38	2.2	0.0

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2014 (JANUARY THROUGH MARCH)
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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-84D1	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
	5/1/2013	NA	NA	7.71	17.9	0.151	250	12.62	197	0.72
	10/25/2013	NA	NA	5.73	11.5	0.093	23	12.48	84.7	1.50
	4/25/2014	NA	NA	7.35	13.8	0.154	134	6.86	68.2	0.26
MW-84D2	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
	5/1/2013 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	10/25/2013	NA	NA	6.94	11.5	0.148	-45	12.51	108	NA
	4/25/2014	NA	NA	9.93	13.5	0.232	21	1.72	>800	0.26

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2014 (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-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
	4/30/2013	NA	NA	7.09	19.1	0.155	180	7.88	363	>5.0
	7/24/2013	NA	NA	6.91	25.1	0.204	12	1.39	>999	0.4
	10/28/2013(5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	1/27/2014	NA	NA	7.32	14.1	0.185	112	11.37	338	NM
	4/24/2014	NA	NA	7.64	13.8	0.181	161	5.97	>800	0.0
	7/17/2014	NA	NA	8.05	21.3	0.101	26	4.98	>1000	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
	4/30/2013	NA	NA	6.79	19.9	NM	-57	5.63	655	>5.0
	7/24/2013	NA	NA	6.96	24.7	0.151	-139	0.42	>999	0.1
	10/28/2013	NA	NA	8.56	12.9	0.095	-137	10.87	>800	1.3
	1/27/2014	NA	NA	7.22	12.3	0.137	-61	10.43	771	NM
	4/24/2014	NA	NA	7.67	12.9	0.202	87	10.21	437	0.19
	7/17/2014	NA	NA	7.24	20.7	0.203	92	5.36	934	2.30
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
	4/30/2013	NA	NA	8.18	17.1	0.168	28	9.02	604	>5.0
	7/24/2013	NA	NA	9.54	22.8	0.154	-130	2.06	717	>5.0
	10/28/2013(5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	1/27/2014	NA	NA	7.37	12.2	0.131	-83	11.37	697	NM
	4/24/2014	NA	NA	9.64	13.8	0.193	50	6.35	>800	0.0
	7/17/2014	NA	NA	9.13	21.1	0.169	39	4.68	492	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
	4/30/2013	NA	NA	8.01	18.4	0.128	155	7.90	>1000	>5.0
	7/24/2013	NA	NA	7.27	20.7	0.164	6	1.89	290	1.6
	10/28/2013	NA	NA	7.85	19.3	0.116	-98	3.03	>800	0.7
	1/27/2014	NA	NA	7.86	12.3	0.121	-98	12.81	>800	NM
	4/24/2014	NA	NA	8.74	18.1	0.103	36	9.77	>800	0.09
	7/17/2014	NA	NA	9.27	20.7	0.113	13	2.82	143	2.60
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
	4/29/2013	NA	NA	4.44	14.6	0.186	135	5.99	32.1	2.5
	7/24/2013	NA	NA	6.59	22.6	0.186	-103	2.61	14.6	0.0
	10/29/2013(5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	1/23/2014	NA	NA	4.41	6.8	0.148	27	14.90	90.2	NM
	4/29/2014	NA	NA	5.89	14.7	0.195	25	3.56	59.8	0.1
	7/17/2014	NA	NA	7.43	22.3	0.179	-102	4.35	8.7	3.0
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
	4/29/2013	NA	NA	6.04	14.9	0.164	-64	5.44	160	3.4
	7/24/2013	NA	NA	6.91	22.0	0.153	-165	0.93	371	1.8
	10/29/2013	NA	NA	6.89	12.4	0.124	-43	4.30	>800	0.0
	1/23/2014	NA	NA	7.11	8.9	0.156	-101	12.18	>800	0.0
	4/29/2014	NA	NA	4.76	15.0	0.261	168	5.83	102	0.0
	7/17/2014(5)	NA	NA	NM	NM	NM	NM	NM	NM	NM

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2014 (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-87D1	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
	5/2/2013 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	10/28/2013	NA	NA	7.33	14.0	0.132	-67	13.76	137	0.1
	4/29/2014	NA	NA	5.53	13.5	0.179	201	8.53	99	0.0
	7/21/2014	NA	NA	9.28	20.4	0.115	177	13.90	68	1.4
MW-87D2	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
	5/2/2013	NA	NA	6.65	15.9	0.108	312	15.02	71.0	2.2
	10/28/2013	NA	NA	5.99	14.1	0.094	9	4.86	66.9	0.4
	4/29/2014	NA	NA	5.61	12.5	0.160	160	5.63	30.9	0.0
	7/21/2014	NA	NA	5.70	18.4	0.133	206	7.98	30.9	0.0

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2014 (JANUARY THROUGH MARCH)
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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-88D1	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
	5/1/2013	NA	NA	8.18	17.0	0.162	202	13.77	783	1.22
	10/28/2013 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	4/25/2014	NA	NA	5.72	14.7	0.176	197	8.44	56.5	0.06
MW-88D2	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
	10/26/2012	NA	NA	NM	NM	NM	NM	NM	NM	NM
	5/1/2013	NA	NA	9.06	17.7	0.157	154	11.30	389	1.56
	10/28/2013	NA	NA	5.23	14.6	0.077	52	12.83	193	0.46
	4/25/2014	NA	NA	9.76	14.3	0.183	62	2.83	30	0.00

TABLE 2

QUARTERLY REPORT
FIRST QUARTER 2014 (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-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
	4/29/2013	NA	NA	6.64	14.1	0.222	-125	5.49	39.8	3.8
	7/24/2013	NA	NA	6.75	23.7	0.234	-198	0.43	154	1.8
	10/28/2013	NA	NA	7.06	12.5	0.192	-52	2.56	136	0.5
	1/27/2014	NA	NA	6.43	15.3	0.113	239	12.43	172	NM
	4/24/2014	NA	NA	6.96	15.2	0.275	-88	3.67	112	0.0
	7/17/2014	NA	NA	6.61	20.1	0.175	-45	2.42	104	3.6
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
	4/29/2013	NA	NA	8.52	14.2	0.296	-244	4.49	33.4	3.0
	7/24/2013	NA	NA	8.58	21.4	0.308	-250	0.75	72.8	2.7
	10/28/2013	NA	NA	7.25	12.8	0.235	-63	9.45	44.3	0.8
	1/27/2014 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	4/24/2014	NA	NA	7.64	14.8	0.368	-27	4.26	102	0.0
	7/17/2014	NA	NA	6.00	20.8	0.174	-40	2.13	31.3	2.0
MW-90D1	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 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	2/6/2013 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	4/30/2013 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	7/23/2013 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	10/25/2013 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	1/23/2014 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	4/23/2014 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	7/18/2014 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-90D2	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 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	4/30/2013 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	7/23/2013 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	10/25/2013 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	1/23/2014 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	4/23/2014 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
	7/18/2014 (5)	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-92D1	4/12/2011	0.00	1.8	7.10	12.1	0.421	-190	1.13	34.0	4.0
	4/24/2013	NA	NA	8.00	14.8	0.181	12	6.57	146	3.0
MW-92D2	4/25/2011	0.02	3.1	6.69	15.7	0.206	-156	2.00	1.3	1.5
	4/24/2013	NA	NA	8.46	17.8	0.080	-104	5.52	670	>5.0
MW-93D1	4/26/2011	0.00	3.7	7.11	16.0	0.245	-191	2.18	800	2.5
	4/24/2013	NA	NA	7.05	19.6	0.137	-140	5.16	107	2.2
MW-93D2	4/26/2011	0.00	3.1	7.34	15.6	0.203	-219	2.96	35.1	2.0
	4/23/2013	NA	NA	7.87	19.0	0.155	-105	4.58	NM	4.5

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.
(5) Insufficient sample volume to obtain measurement/reading.
NA - Not applicable
NM - Not measured (insufficient sample volume for all samples subsequent to 11/30/2011)
* - Probe malfunctioned

Attachment A

CONESTOGA-ROVERS & ASSOCIATES

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MEMORANDUM

TO:	Klaus Schmidtke	REF. NO.:	006883
FROM:	Kathy Willy/adh/11	DATE:	September 2, 2014

RE: Analytical Results and Full Validation
Quarterly Groundwater Monitoring
Glenn Springs Holdings, Inc.
Hicksville, New York
July-August 2014

1.0 Introduction

The following document details a validation of analytical results for groundwater samples collected in support of the quarterly groundwater monitoring at the Hicksville site during July and August 2014. Samples were submitted to Spectrum Analytical, Inc., located in North Kingstown, Rhode Island. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3. Copies of the chain of custody can be found in Attachment A.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, duplicate data, recovery data from surrogate spikes, laboratory control samples (LCS), matrix spike (MS) samples, 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 QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", United States Environmental Protection Agency (USEPA) 540-R-08-01, June 2008
ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

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

2.0 Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

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

3.0 Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

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 VOC analysis periods. All tuning criteria were met, indicating that proper optimization of the instrumentation was achieved.

4.0 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 (0.01 for poor responders)
ii) The percent relative standard deviation (RSD) values must not exceed 20.0 percent (40.0 percent for poor responders) 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 were reviewed. All compounds met the above criteria for sensitivity and linearity with the exception of tetrachloroethene which showed some variability. A summary of qualified results can be found in Table 4.

5.0 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	Total organic carbon (TOC), ammonia, phosphorous, 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.

6.0 Continuing Calibration - Organic Analyses

GC/MS

To ensure that instrument calibration for VOC analyses 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 (0.01 for poor responders)
ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for poor responders)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability with the exception of tetrachloroethene which showed some variability. A summary of qualified results can be found in Table 5.

7.0 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.

8.0 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 1 per 20 investigative samples and/or 1 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.

9.0 Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for VOC 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 determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

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

10.0 Internal Standards (IS) Analyses

IS data were evaluated for all VOC sample analyses.

Organics Analyses

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

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard
ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration

All organic IS recoveries and retention times met the above criteria.

11.0 Laboratory Control Sample 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 LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Organic Analyses

The LCS contained all compounds of interest. All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

Inorganic Analyses

The LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits, demonstrating acceptable analytical accuracy and precision.

12.0 Matrix Spike/Matrix Spike Duplicate (MS/MSD) 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 RPD between the MS and MSD is used to assess analytical precision.

Site-specific MS/MSDs were not requested for this sampling event.

13.0 Field QA/QC Samples

The field QA/QC consisted of four trip blank samples and one rinse blank sample.

Trip Blank Sample Analysis

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

Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, one rinse blank was submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest.

14.0 Tentatively Identified Compounds (TICS)

Chromatographic peaks recorded during VOC sample GC/MS analyses that are not target compounds, surrogates, or IS, are potential TICs.

A summary of the TICs reported by the laboratory is presented in Table 6. 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.

15.0 Analyte Reporting

The laboratory reported detected results down to the laboratory's MDL for each analyte. Positive analyte detections less than the practical quantitation limit (PQL) but greater than the method detection limit (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.

16.0 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.

17.0 Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
JULY-AUGUST 2014

					Analysis/Parameters					
Sample Identification	***Location***	***Matrix***	***Collection Date (mm/dd/yyyy)***	***Collection Time (hr:min)***	***Ammonia***	***Nitrate, Nitrite***	***Phosphorous***	***VOCs***	***TOC***	***Comments***
GW71714VW001	MW-63D1	Water	07/17/2014	10:10	x	x	x	x	x	
GW71714VW002	MW-63D2	Water	07/17/2014	10:10	x	x	x	x	x	
GW71714VW003	MW-89D1	Water	07/17/2014	11:25	x	x	x	x	x	
GW71714VW004	MW-89D2	Water	07/17/2014	11:45	x	x	x	x	x	
GW71714VW005	MW-85S	Water	07/17/2014	12:00	x	x	x	x	x	
GW71714VW006	MW-85I	Water	07/17/2014	12:20	x	x	x	x	x	
GW71714VW007	MW-85D1	Water	07/17/2014	12:45	x	x	x	x	x	
GW71714VW008	MW-85D2	Water	07/17/2014	13:15	x	x	x	x	x	
GW71714VW009	MW-86D1	Water	07/17/2014	14:00	x	x	x	x	x	
GW71714VW010	MW-86D2	Water	07/17/2014	14:10				x		
GW71714VW011	Field Blank	Water	07/17/2014	14:15	x	x	x	x	x	Field Blank
TB071714	Trip Blank	Water	07/17/2014	-				x		Trip Blank
GW71814VW012	MW-77D2	Water	07/18/2014	09:30	x	x	x	x	x	
GW71814VW013	MW-73D1	Water	07/18/2014	10:00	x	x	x	x	x	
GW71814VW014	MW-73D2	Water	07/18/2014	10:15	x	x	x	x	x	
GW71814VW015	MW-90D1	Water	07/18/2014	10:45				x		
GW71814VW016	MW-90D2	Water	07/18/2014	11:00				x		
GW71814VW017	MW-75D1	Water	07/18/2014	11:50	x	x	x	x	x	
GW71814VW018	MW-75D2	Water	07/18/2014	12:15	x	x	x	x	x	
GW71814VW019	MW-76S	Water	07/18/2014	12:30	x	x	x	x	x	
GW71814VW020	MW-76I	Water	07/18/2014	12:45	x	x	x	x	x	
TB071814	Trip Blank	Water	07/18/2014	13:00				x		Trip Blank
GW72114VW021	MW-87D1	Water	07/21/2014	09:00	x	x	x	x	x	
GW72114VW022	MW-87D2	Water	07/21/2014	09:25	x	x	x	x	x	
GW72114VW023	MW-76D1	Water	07/21/2014	10:00	x	x	x	x	x	

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
JULY-AUGUST 2014

					Analysis/Parameters					
Sample Identification	***Location***	***Matrix***	***Collection Date (mm/dd/yyyy)***	***Collection Time (hr:min)***	***Ammonia***	***Nitrate, Nitrite***	***Phosphorous***	***VOCs***	***TOC***	***Comments***
GW72114VW024	MW-76D2	Water	07/21/2014	10:25	x	x	x	x	x	
GW72114VW025	MW-70D1	Water	07/21/2014	10:45	x	x	x	x	x	
GW72114VW026	MW-70D2	Water	07/21/2014	11:00	x	x	x	x	x	
GW72114VW027	MW-72D1	Water	07/21/2014	11:30	x	x	x	x	x	
GW72114VW028	MW-72D2	Water	07/21/2014	11:45	x	x	x	x	x	
TB072114	Trip Blank	Water	07/21/2014	-				x		Trip Blank
GW8614VW029	MW-63I	Water	08/06/2014	09:30	x	x	x	x	x	
GW8614VW030	MW-63S	Water	08/06/2014	10:00	x	x	x	x	x	
TB	Trip Blank	Water	08/06/2014	-				x		Trip Blank

Notes:

VOCs Volatile Organic Compounds
TOC Total Organic Carbon

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
JULY-AUGUST 2014

Sample Location:		*MW-63D1*	*MW-63D2*	*MW-63I*	*MW-63S*	*MW-70D1*	*MW-70D2*	*MW-72D1*	*MW-72D2*
Sample ID:		*GW71714VW001*	*GW71714VW002*	*GW8614VW029*	*GW8614VW030*	*GW72114VW025*	*GW72114VW026*	*GW72114VW027*	*GW72114VW028*
Sample Date:		*7/17/2014*	*7/17/2014*	*8/6/2014*	*8/6/2014*	*7/21/2014*	*7/21/2014*	*7/21/2014*	*7/21/2014*
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	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	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	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	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.70 J
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	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	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	5.0 U	5.0 U	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	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	5.0 U	5.0 U
Acetone	µg/L	21	20	13	23	13	9.9	6.2	21
Benzene	µg/L	5.0 U	5.0 U	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	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	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	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	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	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	5.0 U	5.0 U
Chloroethane	µg/L	1.6 J	1.8 J	5.0 U	5.0 U	5.0 U	1.4 J	5.0 U	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	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	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	2.4 J	2.3 J	2.0 J	1.6 J	5.0 U	5.1	5.0 U	110
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	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	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	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	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	5.0 U	5.0 U
Tetrachloroethene	µg/L	6.9	5.6	5.0 UJ	5.0 UJ	6.6	11	5.0 U	500
Toluene	µg/L	5.0 U	5.0 U	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	5.0 U	5.0 U	5.0 U	5.0 U	2.5 J
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	6.0	6.1	5.9	5.5	1.0 J	1.4 J	5.0 U	48
Vinyl chloride	µg/L	19	21	15	7.2	16	5.0 U	5.0 U	0.59 J
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
JULY-AUGUST 2014

Sample Location:		*MW-63D1*	*MW-63D2*	*MW-63I*	*MW-63S*	*MW-70D1*	*MW-70D2*	*MW-72D1*	*MW-72D2*
Sample ID:		*GW71714VW001*	*GW71714VW002*	*GW8614VW029*	*GW8614VW030*	*GW72114VW025*	*GW72114VW026*	*GW72114VW027*	*GW72114VW028*
Sample Date:		*7/17/2014*	*7/17/2014*	*8/6/2014*	*8/6/2014*	*7/21/2014*	*7/21/2014*	*7/21/2014*	*7/21/2014*
Parameters	***Units***								
General Chemistry									
Ammonia-N	mg/L	0.142	0.133	0.100 U	0.091 J	0.210	1.06	0.307	0.282
Nitrate (as N)	mg/L	1.00 U	1.00 U	0.500 U	0.500 U	2.00 U	2.00 U	2.00 U	2.00 U
Nitrite (as N)	mg/L	1.00 U	1.00 U	0.500 U	0.500 U	2.00 U	2.00 U	2.00 U	2.00 U
Phosphorus	mg/L	0.069	0.11	0.051	0.046	0.032	0.031	0.030 U	0.13
Total organic carbon (TOC)	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
JULY-AUGUST 2014

Sample Location:		*MW-73D1*	*MW-73D2*	*MW-75D1*	*MW-75D2*	*MW-76D1*	*MW-76D2*	*MW-76I*
Sample ID:		*GW71814VW013*	*GW71814VW014*	*GW71814VW017*	*GW71814VW018*	*GW72114VW023*	*GW72114VW024*	*GW71814VW020*
Sample Date:		*7/18/2014*	*7/18/2014*	*7/18/2014*	*7/18/2014*	*7/21/2014*	*7/21/2014*	*7/18/2014*
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	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	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	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	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	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	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	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	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	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	5.0 U
Acetone	µg/L	9.7	9.4	14	11	21	13	9.6
Benzene	µg/L	5.0 U	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	5.0 U
Bromoform	µg/L	5.0 U	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	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	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	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	4.1 J	6.0	5.0 U	4.2 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	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	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	14	20	5.0 U	9.2	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	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	5.0 U
Ethylbenzene	µg/L	5.0 U	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	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	0.85 J	2.8 J	10	20	5.0 U	80	0.74 J
Toluene	µg/L	5.0 U	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	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	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	4.9 J	32	5.0 U	18	5.0 U
Vinyl chloride	µg/L	5.0 U	5.0 U	46	220	3.8 J	0.79 J	0.96 J
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
JULY-AUGUST 2014

Sample Location:		***MW-73D1***	***MW-73D2***	***MW-75D1***	***MW-75D2***	***MW-76D1***	***MW-76D2***	***MW-76I***
Sample ID:		***GW71814VW013***	***GW71814VW014***	***GW71814VW017***	***GW71814VW018***	***GW72114VW023***	***GW72114VW024***	***GW71814VW020***
Sample Date:		***7/18/2014***	***7/18/2014***	***7/18/2014***	***7/18/2014***	***7/21/2014***	***7/21/2014***	***7/18/2014***
Parameters	***Units***							
General Chemistry								
Ammonia-N	mg/L	0.256	0.290	0.719	0.667	0.388	0.361	0.416
Nitrate (as N)	mg/L	2.00 U	2.00 U	1.00 U	1.00 U	2.00 U	4.00 U	1.00 U
Nitrite (as N)	mg/L	2.00 U	2.00 U	1.00 U	1.00 U	2.00 U	4.00 U	1.00 U
Phosphorus	mg/L	0.050	0.030 U	0.054	0.049	0.030 U	0.031	0.030 U
Total organic carbon (TOC)	mg/L	4.0 J	10 U	6.5 J	10 U	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
JULY-AUGUST 2014

Sample Location:		*MW-76S*	*MW-77D2*	*MW-85D1*	*MW-85D2*	*MW-85I*	*MW-85S*	*MW-86D1*	*MW-86D2*
Sample ID:		*GW71814VW019*	*GW71814VW012*	*GW71714VW007*	*GW71714VW008*	*GW71714VW006*	*GW71714VW005*	*GW71714VW009*	*GW71714VW010*
Sample Date:		*7/18/2014*	*7/18/2014*	*7/17/2014*	*7/17/2014*	*7/17/2014*	*7/17/2014*	*7/17/2014*	*7/17/2014*
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	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	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	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	4.0 J	1.8 J	5.0 U	5.0 U	5.0 U	0.51 J
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	0.69 J	5.0 U	5.0 U	5.0 U	5.0 U	0.78 J
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	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	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	5.0 U	5.0 U	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	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	5.0 U	5.0 U
Acetone	µg/L	17	11	12	11	10	9.3	18	7.4
Benzene	µg/L	5.0 U	5.0 U	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	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	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	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	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	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	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0	0.74 J	5.0 U	5.0 U	3.6 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	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	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	350	2.7 J	6.9	0.99 J	5.0 U	5.0 U	2.8 J	35
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	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	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	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	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	5.0 U	5.0 U
Tetrachloroethene	µg/L	1.3 J	52	20	6.8	1.2 J	1.1 J	9.5	15
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	2.4 J	5.0 U	5.0 U	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	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	19	26	14	0.67 J	5.0 U	0.89 J	170
Vinyl chloride	µg/L	7.5	5.0 U	7.2	5.0 U	5.0 U	5.0 U	180	0.79 J
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
JULY-AUGUST 2014

Sample Location:		*MW-76S*	*MW-77D2*	*MW-85D1*	*MW-85D2*	*MW-85I*	*MW-85S*	*MW-86D1*	*MW-86D2*
Sample ID:		*GW71814VW019*	*GW71814VW012*	*GW71714VW007*	*GW71714VW008*	*GW71714VW006*	*GW71714VW005*	*GW71714VW009*	*GW71714VW010*
Sample Date:		*7/18/2014*	*7/18/2014*	*7/17/2014*	*7/17/2014*	*7/17/2014*	*7/17/2014*	*7/17/2014*	*7/17/2014*
Parameters	***Units***								
General Chemistry									
Ammonia-N	mg/L	0.290	0.831	0.100 U	0.689	0.191	0.247	0.100 U	-
Nitrate (as N)	mg/L	1.61	4.00 U	2.03	2.00 U	3.57	4.00 U	2.00 U	-
Nitrite (as N)	mg/L	1.00 U	4.00 U	2.00 U	2.00 U	2.00 U	4.00 U	2.00 U	-
Phosphorus	mg/L	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.042	0.055	-
Total organic carbon (TOC)	mg/L	2.5 J	10 U	10 U	10 U	3.1 J	10 U	10 U	-

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
JULY-AUGUST 2014

Sample Location:		*MW-87D1*	*MW-87D2*	*MW-89D1*	*MW-89D2*	*MW-90D1*	*MW-90D2*
Sample ID:		*GW72114VW021*	*GW72114VW022*	*GW71714VW003*	*GW71714VW004*	*GW71814VW015*	*GW71814VW016*
Sample Date:		*7/21/2014*	*7/21/2014*	*7/17/2014*	*7/17/2014*	*7/18/2014*	*7/18/2014*
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	0.95 J	1.4 J	3.5 J	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	0.65 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	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	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	17	11	11	11	23	16
Benzene	µg/L	5.0 U	5.0 U	1.5 J	0.62 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	2.8 J	0.75 J	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	4.6 J	1.4 J	1.7 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	5.7	12	58	35	8.6	5.3
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	140	420	17	3.9 J	33	22
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	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	5.0 U
Trichloroethene	µg/L	22	98	7.3	5.6	11	22
Vinyl chloride	µg/L	5.0 U	5.0 U	19	3.7 J	27	5.0 U
Xylenes (total)	µg/L	5.0 U	5.0 U	0.76 J	5.0 U	5.0 U	5.0 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
JULY-AUGUST 2014

Sample Location:		***MW-87D1***	***MW-87D2***	***MW-89D1***	***MW-89D2***	***MW-90D1***	***MW-90D2***
Sample ID:		***GW72114VW021***	***GW72114VW022***	***GW71714VW003***	***GW71714VW004***	***GW71814VW015***	***GW71814VW016***
Sample Date:		***7/21/2014***	***7/21/2014***	***7/17/2014***	***7/17/2014***	***7/18/2014***	***7/18/2014***
Parameters	***Units***						
General Chemistry							
Ammonia-N	mg/L	0.100 U	0.114	0.220	0.223	-	-
Nitrate (as N)	mg/L	1.36	2.24	2.00 U	2.00 U	-	-
Nitrite (as N)	mg/L	1.00 U	1.00 U	2.00 U	2.00 U	-	-
Phosphorus	mg/L	0.081	0.051	0.17	0.095	-	-
Total organic carbon (TOC)	mg/L	10 U	10 U	12	4.0 J	-	-

Notes:

J Estimated concentration
U Not detected at 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
JULY-AUGUST 2014

Parameter	*Method*	*Matrix*	*Holding Time*	
			Collection to Extraction (Days)	*Collection or Extraction to Analysis (Days)*
Target Compound List Volatile Organic Compounds	SW-846 8260 [1]	Water	-	14
Ammonia	E350.1 [3]	Water	-	28
Phosphorous	SM 4500P [2]	Water	-	28
Nitrate, Nitrite	E353.2 [3]	Water	-	48 hr.
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

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING INITIAL CALIBRATION RESULTS
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
JULY-AUGUST 2014

Parameter	*Analyte*	*Calibration Date*	*% RSD*	*RRF*	*Associated Sample ID*	*Qualified Result*	*Units*
VOCs	Tetrachloroethene	08/15/2014	45.6	-	GW8614VW029	5.0 UJ	µg/L
					GW8614VW030	5.0 UJ	µg/L

Notes:

VOCs Volatile Organic Compounds
- Not applicable
RRF Relative Response Factor
UJ Not detected; associated reporting limit is estimated
RSD Relative Standard Deviation

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
JULY-AUGUST 2014

Parameter	*Analyte*	*Calibration Date*	*RRF*	*%D*	*Associated Sample ID*	*Qualified Result*	*Units*
VOCs	Tetrachloroethene	08/15/2014	-	30.1	GW8614VW029	5.0 UJ	µg/L
					GW8614VW030	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

TENTATIVELY IDENTIFIED COMPOUNDS
QUARTERLY GROUNDWATER MONITORING
GLENN SPRINGS HOLDINGS, INC.
HICKSVILLE, NEW YORK
JULY-AUGUST 2014

Sample ID	*Volatile Organics*	*Estimated Concentration (µg/L)*
GW71714VW003	Unknown	21.5 J
	n-Butyl ether	10 J
GW71814VW017	Propanal, 2-methyl-	17 J

Notes:

J Estimated concentration

Attachment A

Chain of Custody Records

N1235

Final Due: 8/5/14

SPECTRUM ANALYTICAL, INC. *Featuring* HANIBAL TECHNOLOGY

Page 1 of 1

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: ______
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Klaus Schmidtke, 2055 Niagara Falls Blvd, Niagara Falls, NY 14304

Telephone #: (519) 884-0510

Project Mgr. K. Schmidtke

Invoice To: Jenn Devonshire (Same)

P.O. No.: ______ RQN: ______

Project No.: 06883

Site Name: Biosparge

Location: Hicksville State: NY

Sampler(s): VU + MY + TB

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=______ 12=______

List preservative code below:

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=______ X2=______ X3=______

G=Grab C=Composite

N1235

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOCs	VOCs + TICs	Nitrate	Nitrite	Phosphorous	Ammonia
01	GW071714VW001	7/17/14	1010		GW	5			3	X		X	X	X	X
02	GW071714VW002	7/17/14	1010		GW	5			3	X		X	X	X	X
03	GW071714VW003	7/17/14	1125		GW	5			3		X	X	X	X	X
04	GW071714VW004	7/17/14	1145		GW	5			3	X		X	X	X	X
05	GW071714VW005	7/17/14	1200		GW	5			3	X		X	X	X	X
06	GW071714VW006	7/17/14	1220		GW	5			3	X		X	X	X	X
07	GW071714VW007	7/17/14	1245		GW	5			3	X		X	X	X	X
08	GW071714VW008	7/17/14	1315		GW	5			3	X		X	X	X	X
09	GW071714VW009	7/17/14	1400		GW	5			3	X		X	X	X	X
10	GW071714VW010	7/17/14	1410		GW	3			~~3~~	X		~~X~~	~~X~~	~~X~~	~~X~~ — (no)

QA/QC Reporting Level

☐ Level I ☐ Level II ☐ Level III ☐ Level IV ☐ Other ______

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	7/17/14	1416	1.5
	Subout	7/17/14	1930	0
Subout	[signature]	7/18/14	0830	1.5
[signature]	[signature]	07/18/14	12:10	0

☐ EDD Format ______

☐ E-mail to ______

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

www.spectrum-analytical.com 2.0°C

Revised Feb 2013

Final Due: 8/5/14

N1235

SPECTRUM ANALYTICAL, INC.
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Page 2 of 2

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Klaus Schmidtke
2055 Niagara Falls Blvd.
Niagara Falls NY 14304

Telephone #: (519) 884-0510
Project Mgr. K. Schmidtke

Invoice To: Jen Delashire
(same)

P.O. No.: _____ RQN: _____

Project No.: 06883
Site Name: Biospray
Location: Hicksville State: NY
Sampler(s): _____

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: VOCs	VOCs+TICs	Nitrate	Nitrite	Phosphorus	Ammonia	QA/QC Reporting Level
N1235																☐ Level I ☐ Level II ☐ Level III ☐ Level IV ☐ Other _____
11	GW7171414W011	7/17/14	1435		GW	5			3	X		X	X	X	X	State-specific reporting standards:
12	TB	7/17/14			GW	2				X						

Relinquished by:	Received by:	Date:	Time:	Temp°C
		7-17-14	1445	
		7/17/14		
SUBOT		7/18/14	0830	
		07/18/14	12:10	2.0°C

☐ EDD Format _____
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Final Due: 8/5/14

N1235

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Page _____ of _____

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Klaas Schmaltz
2053 Niagara Falls Blvd.
Niagara Falls 14304
Telephone #: (519) 884-0510
Project Mgr. _____

Invoice To: Jenn Devonshire (same)
P.O. No.: _____ RQN: _____

Project No.: 060883
Site Name: Biosparge
Location: Hicksville State: NY
Sampler(s): _____

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____
State-specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: VOCs	VOCs+TICs	Filtered Nitrate	Filtered Sulfate	Dissolved Methane/Ethane/Ethene	Ammonia		QA/QC Reporting Notes:
N1235 13	GW71814VW012	7/18/14	930		GW	5			3	X		X	X	X	X		
14	GW71814VW013	7/18/14	1000		GW	5			3	X		X	X	X	X		
15	GW71814VW014	7/18/14	1015		GW	5			3	X		X	X	X	X		
16	GW71814VW015	7/18/14	1045		GW	3				X							
17	GW71814VW016	7/18/14	1100		GW	3				X							
18	GW71814VW017	7/18/14	1150		GW	5			3		X	X	X	X	X		
19	GW71814VW018	7/18/14	1215		GW	5			3	X	X*	X	X	X	X		
20	GW71814VW019	7/18/14	1230		GW	5			3		X	X	X	X	X		* limited water
21	GW71814VW020	7/18/14	1245		GW	5			3	X	X*	X	X	X	X		* limited water
22	TB	7/18/14	1300		GW	2				X							

Relinquished by:	Received by:	Date:	Time:	Temp°C
	Eurofins	7/18/14	1337	
Eurofins		7/18/2014	1920	
		7/21/14	0830	
		7/21/14	13:38	3.2

☐ EDD Format _____
☐ E-mail to 13/0/13IR01 7/18/2014 mdw

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Page 12 of 127

Final Due: 8/5/14

N1235

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Page _____ of _____

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: Klaus Schmidtke
9055 Niagara Falls Blvd.
Niagara Falls 14304
Telephone #: _____
Project Mgr. _____

Invoice To: Dan Deuschle (same)
P.O. No.: _____ RQN: _____

Project No.: 06883
Site Name: Biosparge
Location: Hicksville State: NY
Sampler(s): _____

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11=_____ 12=_____

List preservative code below:

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: VOCs	VOCs+TIC	Nitrate	Sulfate	Phosphorous	Ammonia			QA/QC Reporting Level
N1235-23	GW72114VW021	7/21/14	900		GW	5			3	X		X	X	X	X			☐ Level I ☐ Level II
-24	GW72114VW022	7/21/14	925		GW	5			3	X		X	X	X	X			☐ Level III ☐ Level IV
-25	GW72114VW023	7/21/14	1000		GW	5			3	X		X	X	X	X			☐ Other _____
-26	GW72114VW024	7/21/14	1025		GW	5			3	X		X	X	X	X			State-specific reporting standards:
-27	GW72114VW025	7/21/14	1045		GW	5			3	X		X	X	X	X			
-28	GW72114VW026	7/21/14	1100		GW	5			3	X		X	X	X	X			
-29	GW72114VW027	7/21/14	1130		GW	5			3	X		X	X	X	X			
-30	GW72114VW028	7/21/14	1145		GW	5			3	X		X	X	X	X			
-31	TB				GW	2				X								

Relinquished by:	Received by:	Date:	Time:	Temp°C
		7/21/14	1215	0.3
	Subcat	7/21/14	1920	0
	Agnieszka Dunlop	7/22/14	1255	-0.3
				01

☐ EDD Format _____
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

2.3°C

Final Due : 8/21/14

N1387

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Page 1 of 1

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
· All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
· Samples disposed of after 60 days unless otherwise instructed.

Report To: Klaus Schmidtke
2055 Niagara Falls Blvd.
Niagara Falls NY 14304
Telephone #:
Project Mgr.

Invoice To: Sean Devonshire (same) C

P.O. No.: _____ RQN: _____

Project No.: 060883
Site Name: Biospark
Location: Hicksville State: NY
Sampler(s): VW + MY

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: VOCs	Nitrate	Nitrite	Phosphorus	Ammonia	
N1387-01	GW8614VW009	8/6/14	930		GW	5			3	X	X	X	X	X	
N1387-02	GW8614VW030	8/6/14	1000		GW	5			3	X	X	X	X	X	
N1387-03	TB				W	2				X					

8/6/14

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____
State-specific reporting standards:

0.7/0.7 IR OK

Relinquished by:	Received by:	Date:	Time:	Temp°C
		8/6/14	1125	
		8/6/14	1435	0.7
		8/7/14	0830	
		8/7/14	11:40	3.0 C

☐ EDD Format _____
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Page 3 of 117