8976 Wellington Road
Manassas, VA 20109

April 23, 2013

Alex Czuhanich
Engineering Geologist
New York State Department of Environmental Conservation
Division of Environmental Remediation Bureau E
625 Broadway, 12th Floor
Albany, NY 12233-7017

Re: Transmittal of Semiannual Data Report – Soil Vapor Monitoring Through February 2013
Comprehensive Operations, Maintenance and Monitoring Program
Order on Consent Index # A7-0502-0104, Site # 704014

Dear Mr. Czuhanich:

Enclosed with this transmittal letter please find our Semiannual Soil Vapor Monitoring Data Report, that has been prepared in accordance with the requirements set forth in the referenced Order on Consent.

Should you have any questions concerning this submittal, please contact me at (703) 257-2587.

Sincerely,

M. E. Meyers

Mitchell E. Meyers
Program Manager

cc: K. Lynch, NYSDEC Region 7
D. Tuohy, NYSDEC - Albany
J. Deming, NYSDOH – Troy
C. Edwards, Broome County Health Department
C. Pelto, EIT

SANBORN HEAD

Building Trust. Engineering Success.

Mr. Mitchell E. Meyers
IBM Corporate Environmental Affairs
8976 Wellington Road
Manassas, VA 20109

April 23, 2013
File No. 2755.07

Re: Semiannual Data Report
Soil Vapor Monitoring Through February 2013
Comprehensive Operations, Maintenance, and Monitoring Program
Endicott, New York

Dear Mr. Meyers:

This letter is intended to transmit data recorded during completion of the routine soil vapor monitoring program through February 2013 under IBM's Comprehensive Operations, Maintenance, and Monitoring Plan (COM&M Plan). This report is intended to be a data transmittal/analytical summary report for the limited sampling conducted on an annual basis in February.

Sanborn Head & Associates, Inc. (Sanborn Head) prepared this letter for IBM's submittal to the New York Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH), collectively known as the "Agencies". Since the submittal of the last Report in November 2012[1], a limited sampling has been conducted in February 2013 in accordance with the monitoring program approved through a February 2012 letter from NYSDEC, included as Attachment A. The February sampling includes five locations central to the largest ventilation area and proximate to injection points. In addition, IBM voluntarily conducted monitoring of:

- EN10-17D: a water table depth implant near a groundwater location in the southern area where groundwater concentrations have recently declined substantially. The data indicate continued improvement in water quality and reduced soil vapor concentrations at water table depth;

- EN04-2: a monitoring location centrally located in the largest ventilation area in the vicinity of increased groundwater extraction and injection activities. The data indicate continued improvement in water quality and reduced soil vapor concentrations at water table depth; and

- EN10-41: a monitoring location within OU#4 the Ideal Cleaners Remediation Area which continues to indicate substantially lower PCE vapor concentrations consistent with effective source reduction.

[1] Sanborn Head, November 16, 2012, Annual Report – Soil Vapor Monitoring Through August 2012, Comprehensive Operations, Maintenance, and Monitoring Program, Endicott, New York.

Time series plots depicting the history of groundwater and soil vapor observations for TCE are included on the CD along with the analytical laboratory reports for samples collected in February. The data indicate continued progress in reduction of TCE groundwater concentrations.

The next scheduled sampling event is to be conducted in August. The next reporting of this monitoring program will be submitted to the Agencies in November 2013.

Thank you for the opportunity to provide service to you on this project. Please contact us if you have questions.

Very truly yours,
SANBORN, HEAD & ASSOCIATES, INC.

Erica M. Bradstreet, P.G.
Project Manager
95 High Street
Portland, Maine 04101

Daniel B. Carr, P.E., P.G.
Principal and Senior Vice President
95 High Street
Portland, Maine 04101

EMB/DBC: emb

Encl. Attachment A – Soil Vapor Monitoring Scope Memo
Attachment B - Time Series Plots
Attachment C– Analytical Laboratory Reports

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ATTACHMENT A

Soil Vapor Monitoring Scope Memo

SANBORN HEAD

Building Trust. Engineering Success.

Mr. Mitchell E. Meyers
IBM Corporate Environmental Affairs
8976 Wellington Road
Manassas, Virginia 20109

January 26, 2012
File No. 2755.06

Re: Soil Vapor Monitoring Scope
Comprehensive Operations, Maintenance, and Monitoring Program
Endicott, New York

Dear Mr. Meyers:

Sanborn, Head & Associates, Inc. (Sanborn Head) has prepared this memorandum to outline the proposed scope of future soil vapor monitoring being conducted as a component of the Comprehensive Operations, Maintenance, and Monitoring Plan (COM&M Plan). The work is part of IBM's required activities under Administrative Order on Consent #A7-0502-0104 (Order) as agreed upon between IBM and the New York Department of Environmental Conservation (NYSDEC). We understand that IBM will transmit this letter to NYSDEC and the New York State Department of Health as documentation of the program scope.

The scope of monitoring is consistent with discussions during our meeting on December 6, 2011 and subsequent clarifying conversations between IBM and NYSDEC. The program includes:

- one comprehensive event per year including sampling of all foundation and water table depth implants. Consistent with our past practice this event will be conducted in August; and

- one additional event focused on five monitoring locations central to the largest ventilation area near points of clean water injection. This event is proposed to be conducted in February, also consistent with past practice,

The revised soil vapor monitoring program is presented in tabular and graphical format in Attachments A and B, respectively. The findings of this monitoring will continue to be reported twice per year in April and November.

We trust that this letter and the attachments are consistent with your expectations. If this is not the case, or if you wish to discuss this matter further, please contact us.

Very truly yours,
SANBORN, HEAD & ASSOCIATES, INC.

Daniel B. Carr, P.E., P.G.
Vice President
95 High Street
Portland, Maine 04101

Erica M. Bradstreet, P.G.
Project Manager
1715 W 13th Street
Houston, Texas 77008

EMB/DBC: emb

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Table 1
Revised Sampling Scope 2012
Comprehensive Operations, Maintenance, and Monitoring Program
Endicott, New York

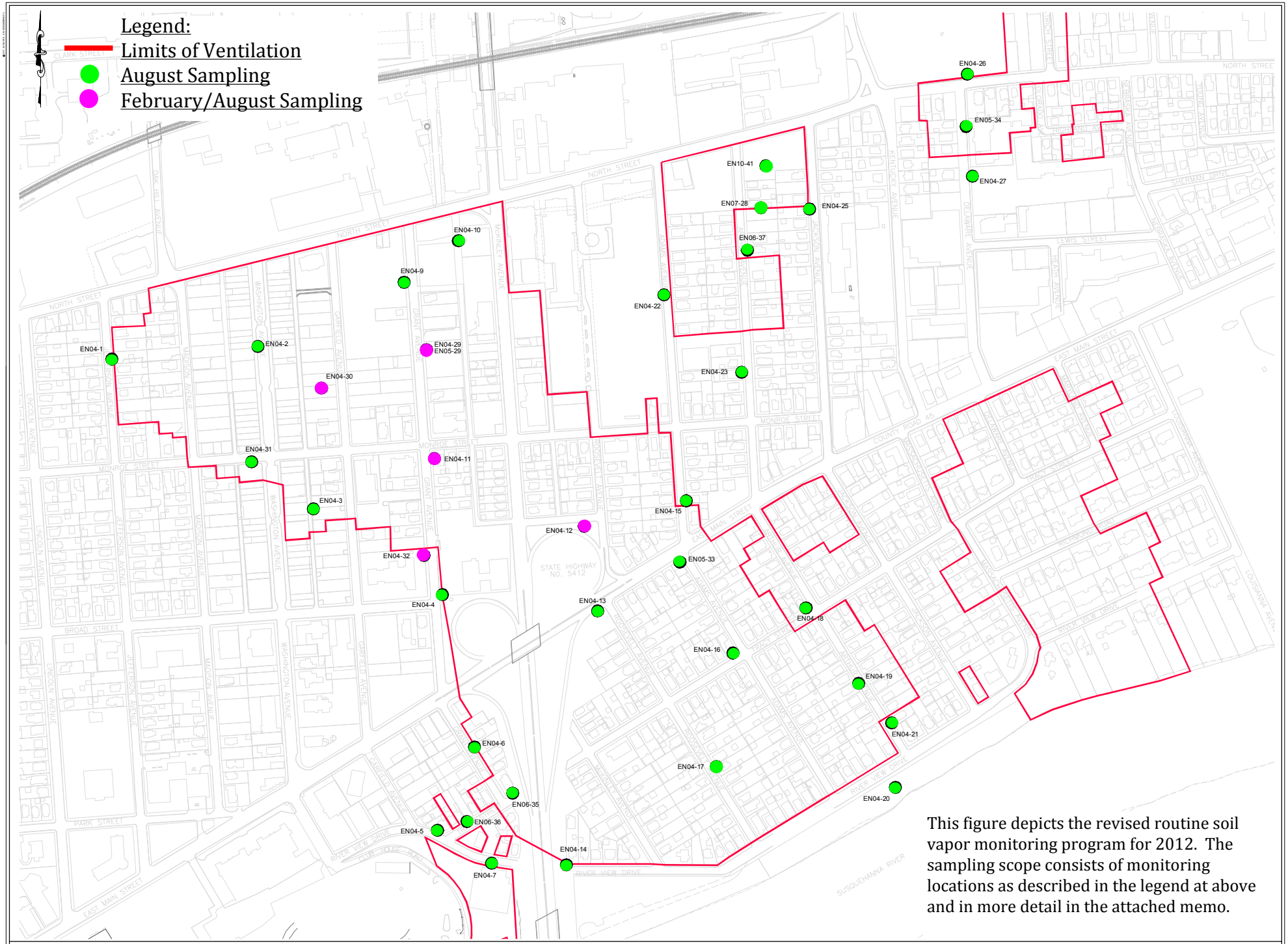
Implant	February	June	August	December
EN04-1S			1	
EN04-1D			1	
EN04-2S			1	
EN04-2D			1	
EN04-3S			1	
EN04-3D			1	
EN04-4S			1	
EN04-4D			1	
EN04-5S			1	
EN04-5D			1	
EN04-6S			1	
EN04-6D			1	
EN04-7S			1	
EN04-7D			1	
EN04-9S			1	
EN04-9D			1	
EN04-10S			1	
EN04-10D			1	
EN04-11S	1		1	
EN04-11D	1		1	
EN10-11D			1	
EN04-12S	1		1	
EN04-12D	1		1	
EN04-13S			1	
EN04-13D			1	
EN04-14S			1	
EN04-14D			1	
EN04-15S			1	
EN04-15D			1	
EN04-16S			1	
EN04-16D			1	
EN04-17S			1	
EN04-17D			1	
EN10-17D			1	
EN04-18S			1	
EN04-18D			1	
EN04-19S			1	
EN04-19D			1	
EN04-20S			1	
EN04-20I				
EN04-20D			1	
EN04-21S			1	
EN04-21D			1	
EN04-22S			1	
EN04-22D			1	
EN04-23S			1	
EN04-23I				
EN04-23D			1	
EN04-25D			1	
EN04-25S			1	

Implant	February	June	August	December
EN04-26S			1	
EN04-26D			1	
EN04-27S			1	
EN07-28S			1	
EN07-28I				
EN07-28D			1	
EN05-29S	1		1	
EN05-29I				
EN04-29D	1		1	
EN04-30S	1		1	
EN04-30D	1		1	
EN04-31S			1	
EN04-31D			1	
EN04-32S	1		1	
EN04-32D	1		1	
EN05-33S			1	
EN05-33I21				
EN05-33I29				
EN05-33D			1	
EN05-34S			1	
EN05-34I				
EN05-34D			1	
EN06-35S			1	
EN06-35I16				
EN06-35I24				
EN06-35D			1	
EN06-36S			1	
EN06-36I21				
EN06-36I29				
EN06-36D			1	
EN06-37S			1	
EN06-37I				
EN06-37D			1	

Routine Sampling Summary

	February	August
Samples	10	69
10% Duplicates	1	7
Equipment Blanks	1	4
Total Canisters	12	80

Note: This table includes the revised routine sampling program and reflects NYSDEC's request for additional sampling of select implants near groundwater injection wells.



This figure depicts the revised routine soil vapor monitoring program for 2012. The sampling scope consists of monitoring locations as described in the legend at above and in more detail in the attached memo.

ATTACHMENT B

Time Series Plots

Figure A.1
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

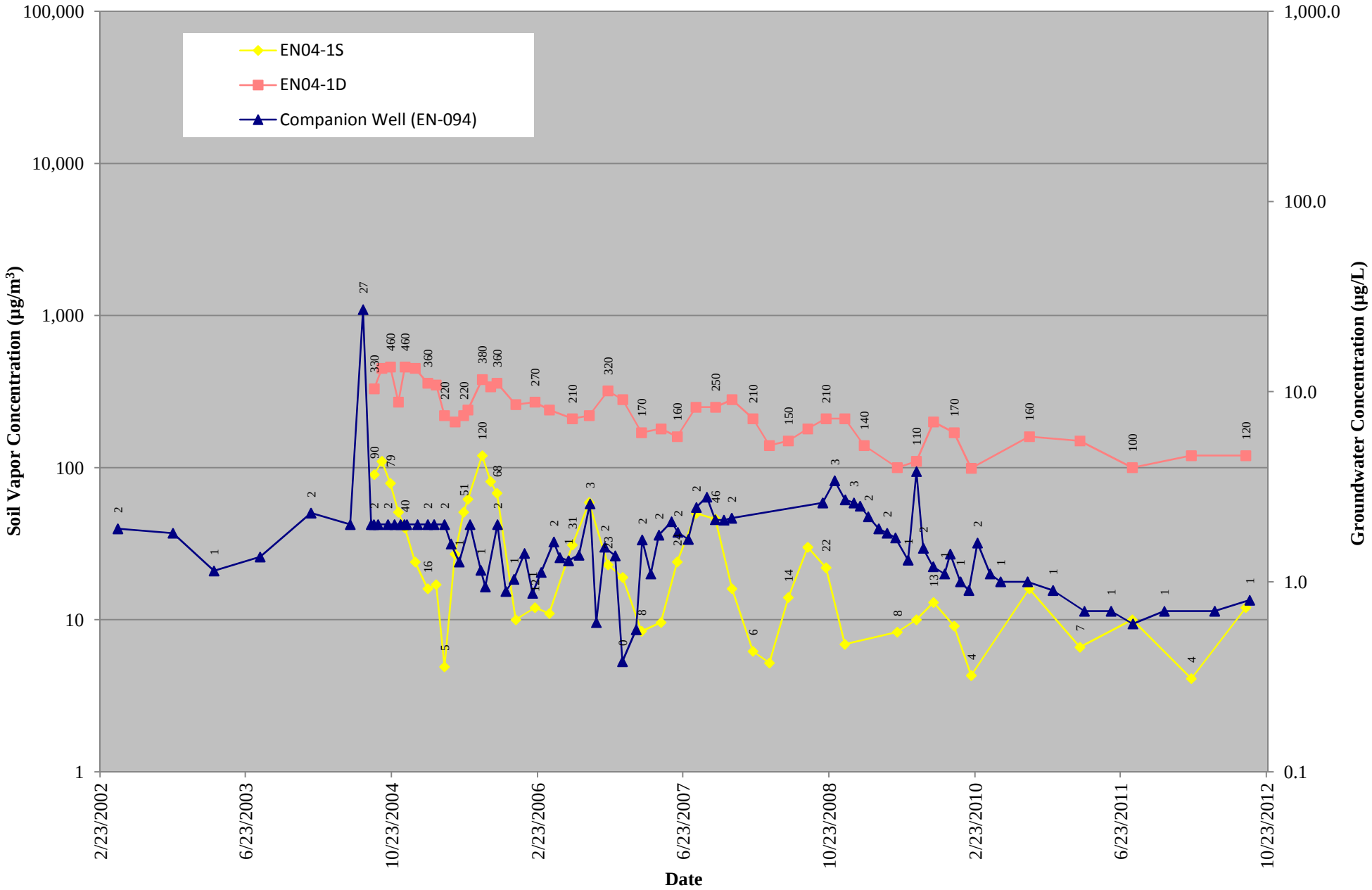


Figure A.2
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

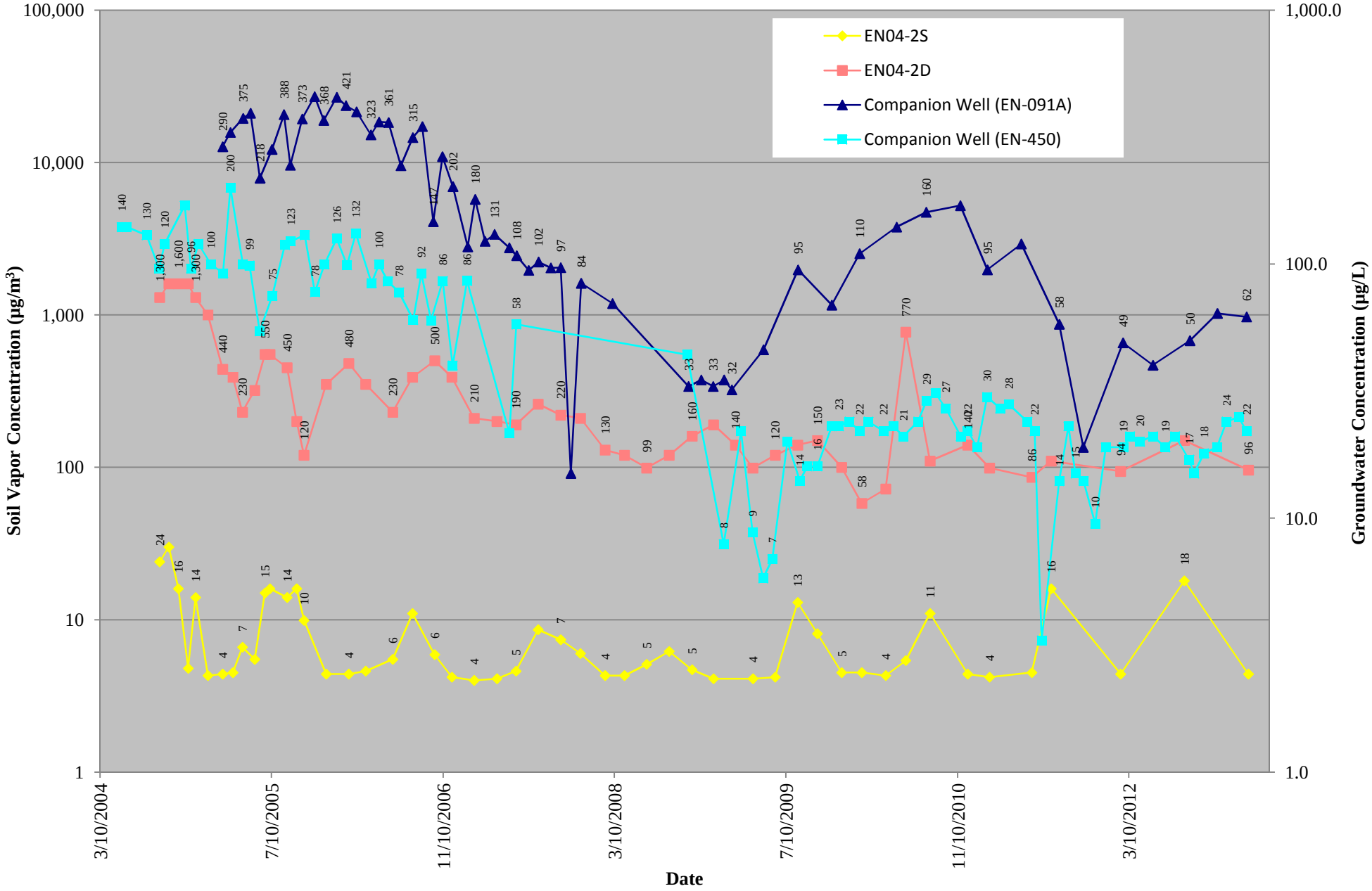


Figure A.3
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

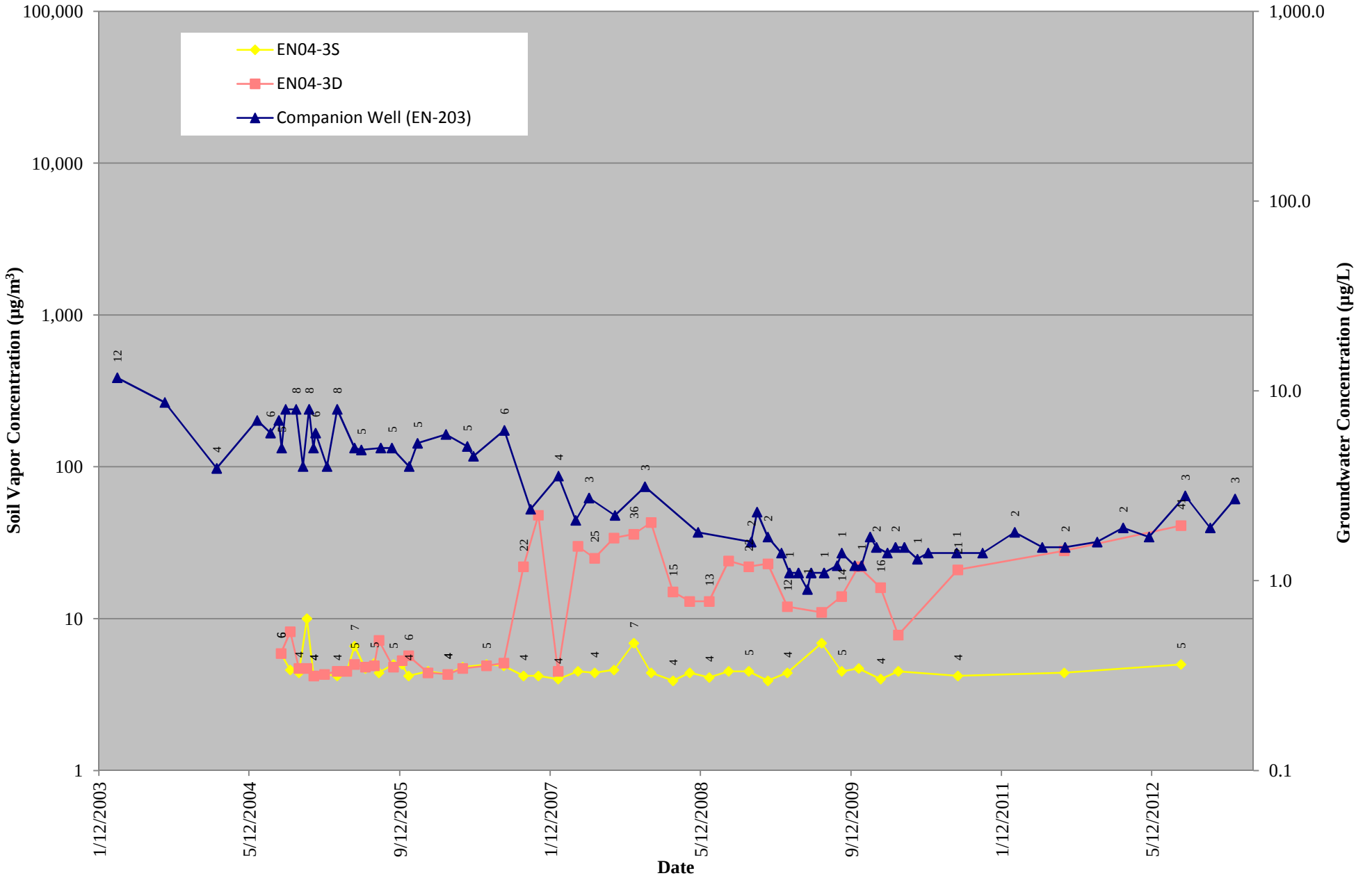


Figure A.4
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

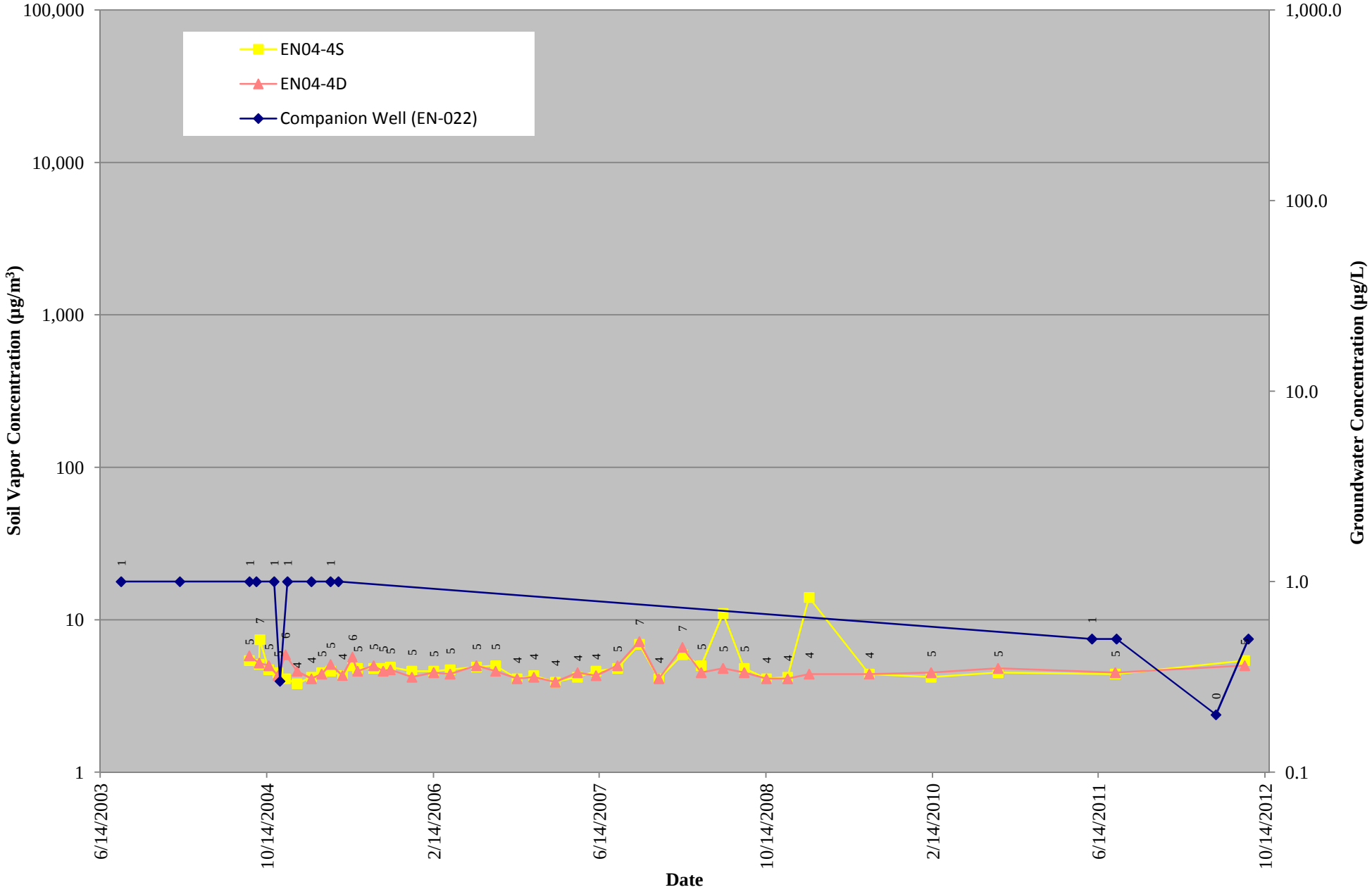


Figure A.5
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

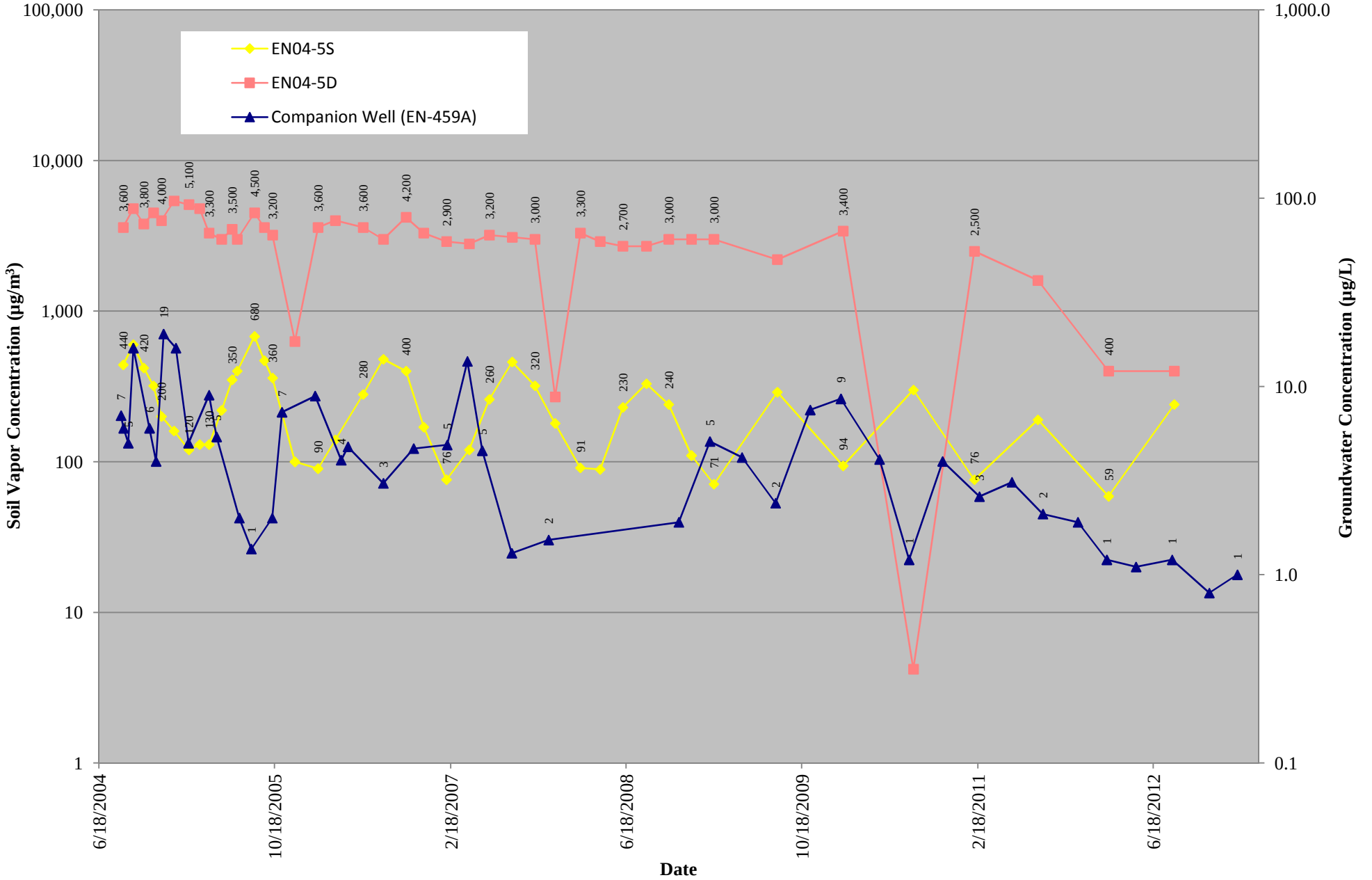


Figure A.6
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

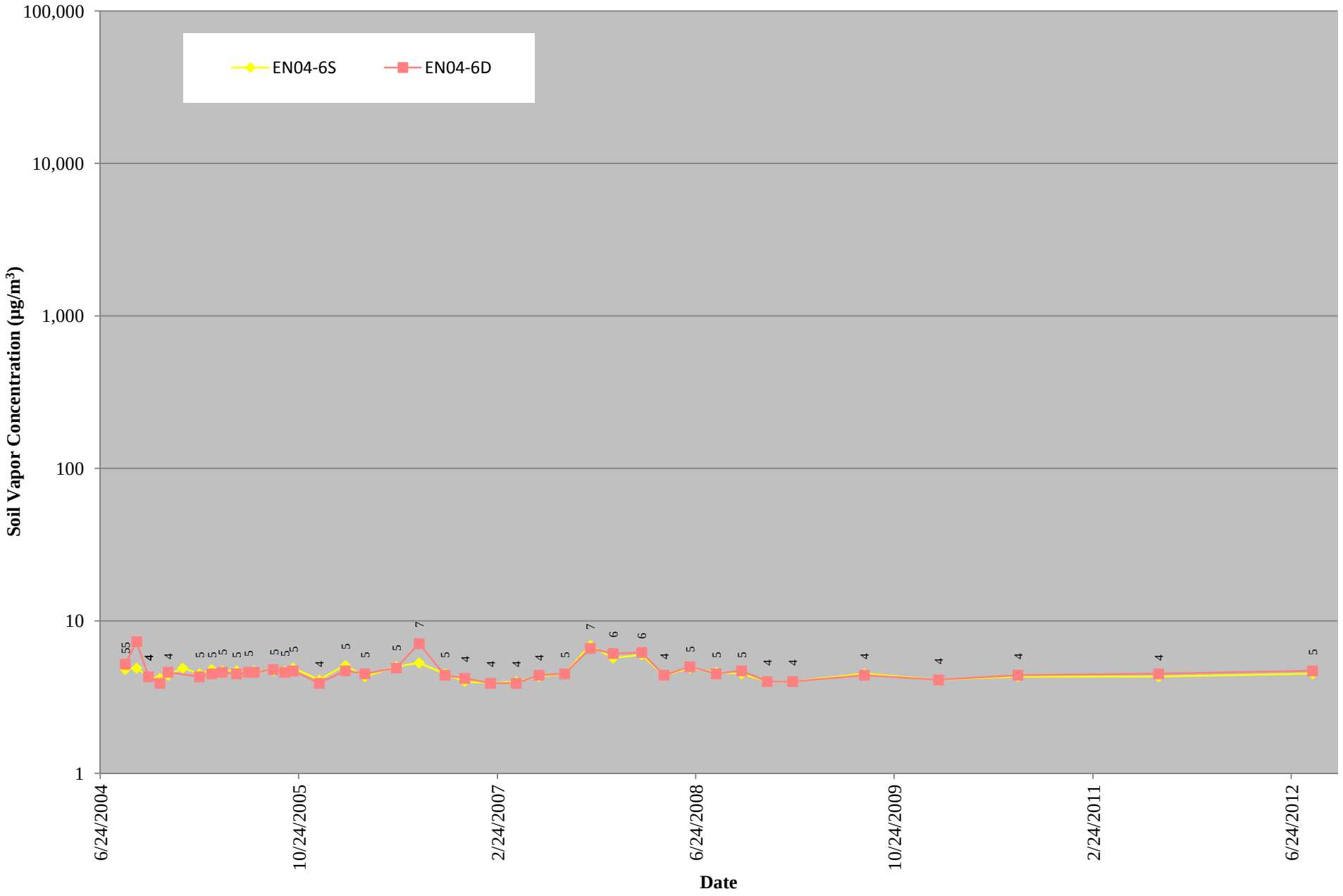


Figure A.7
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

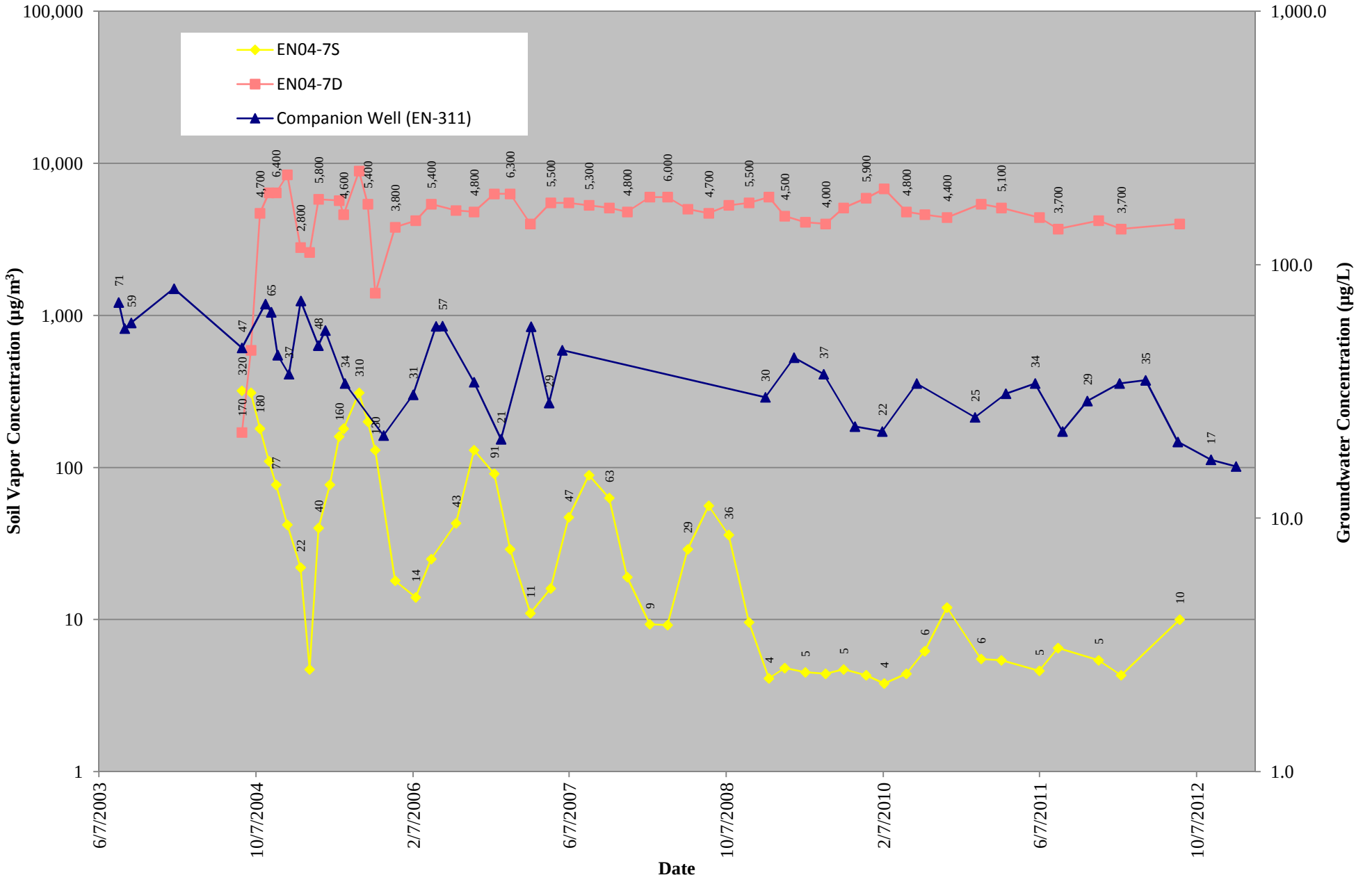


Figure A.8
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

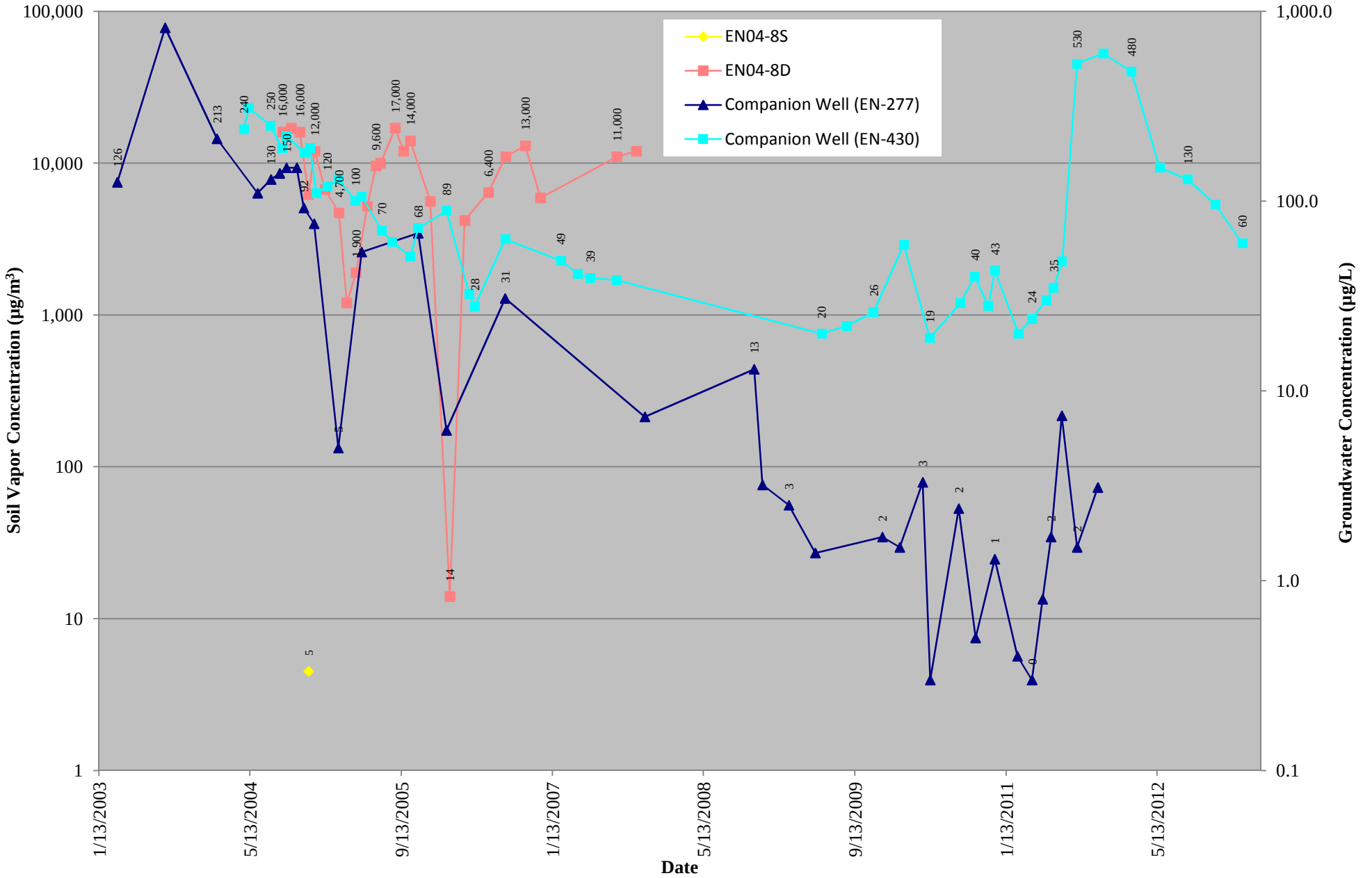


Figure A.9
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

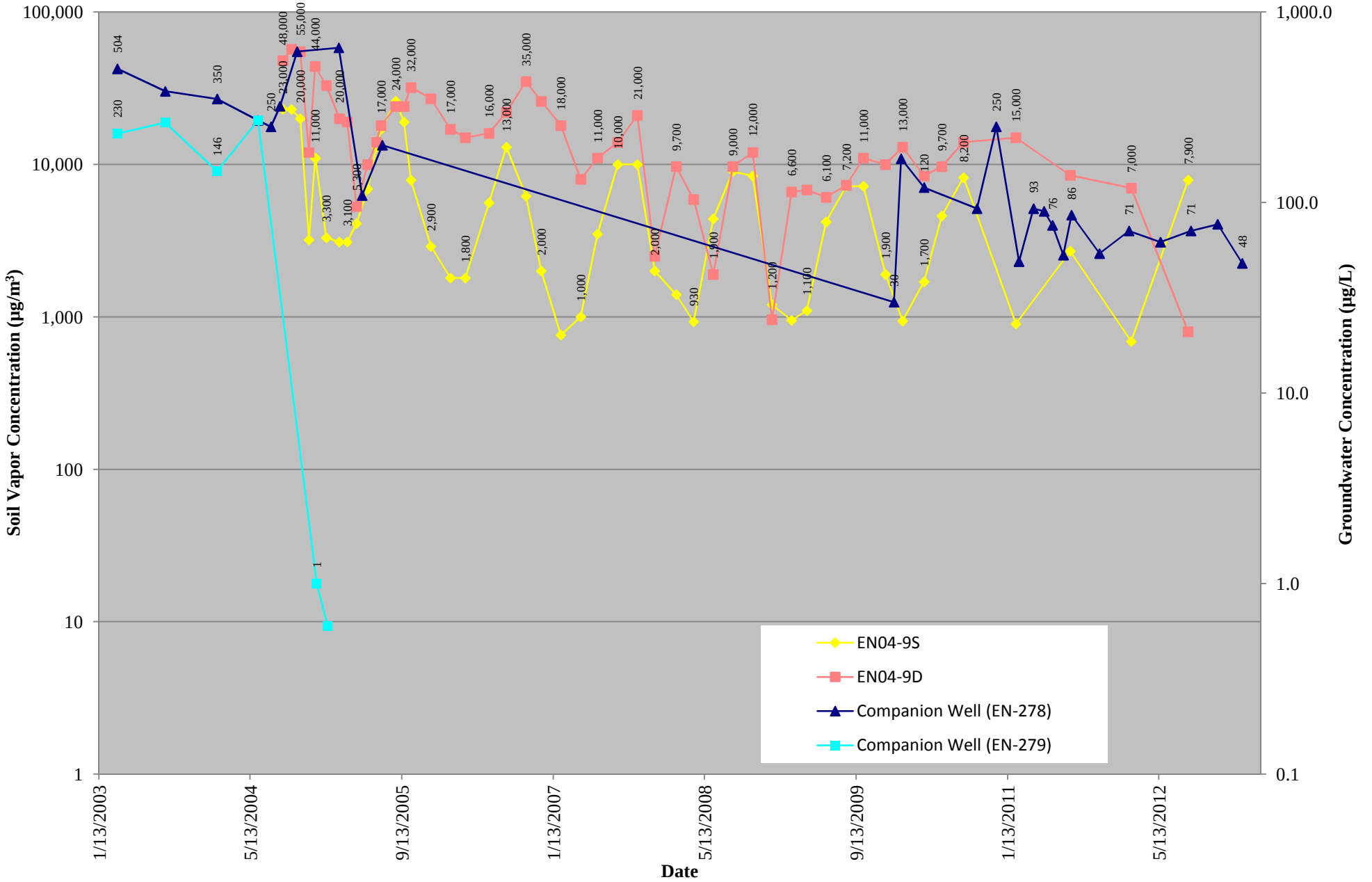


Figure A.10
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
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Endicott, New York

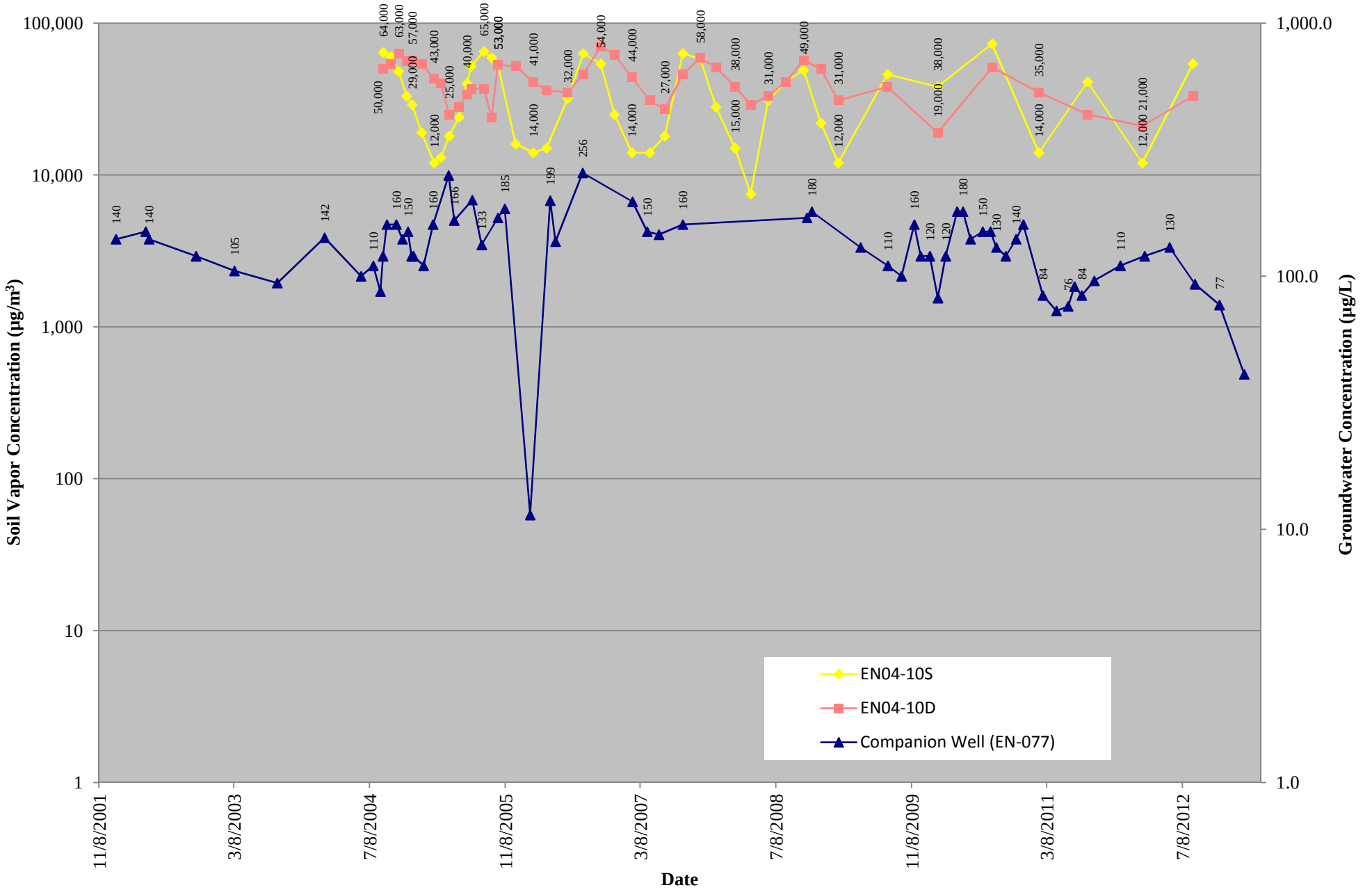

Figure A.11
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

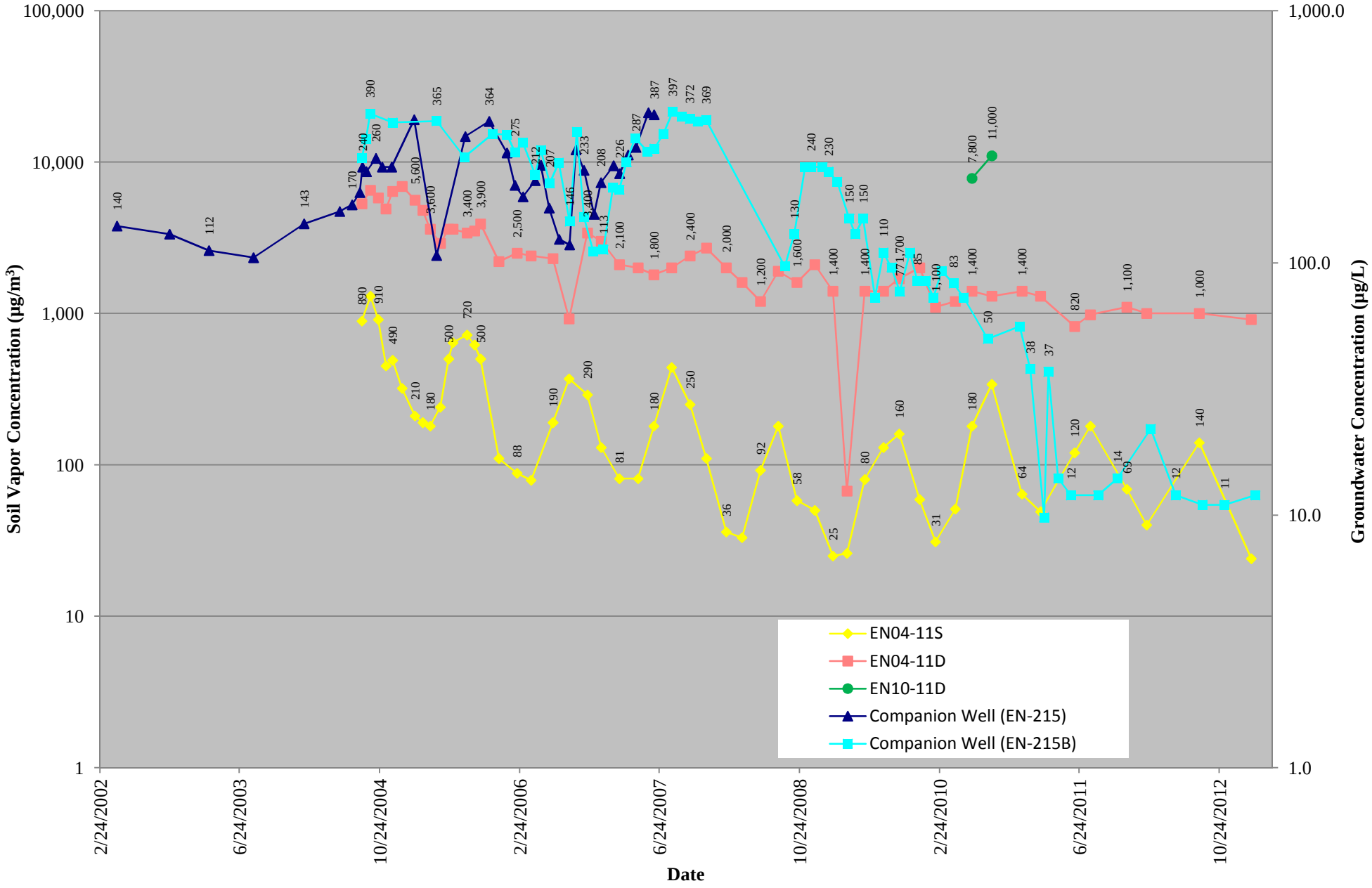

Figure A.12
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

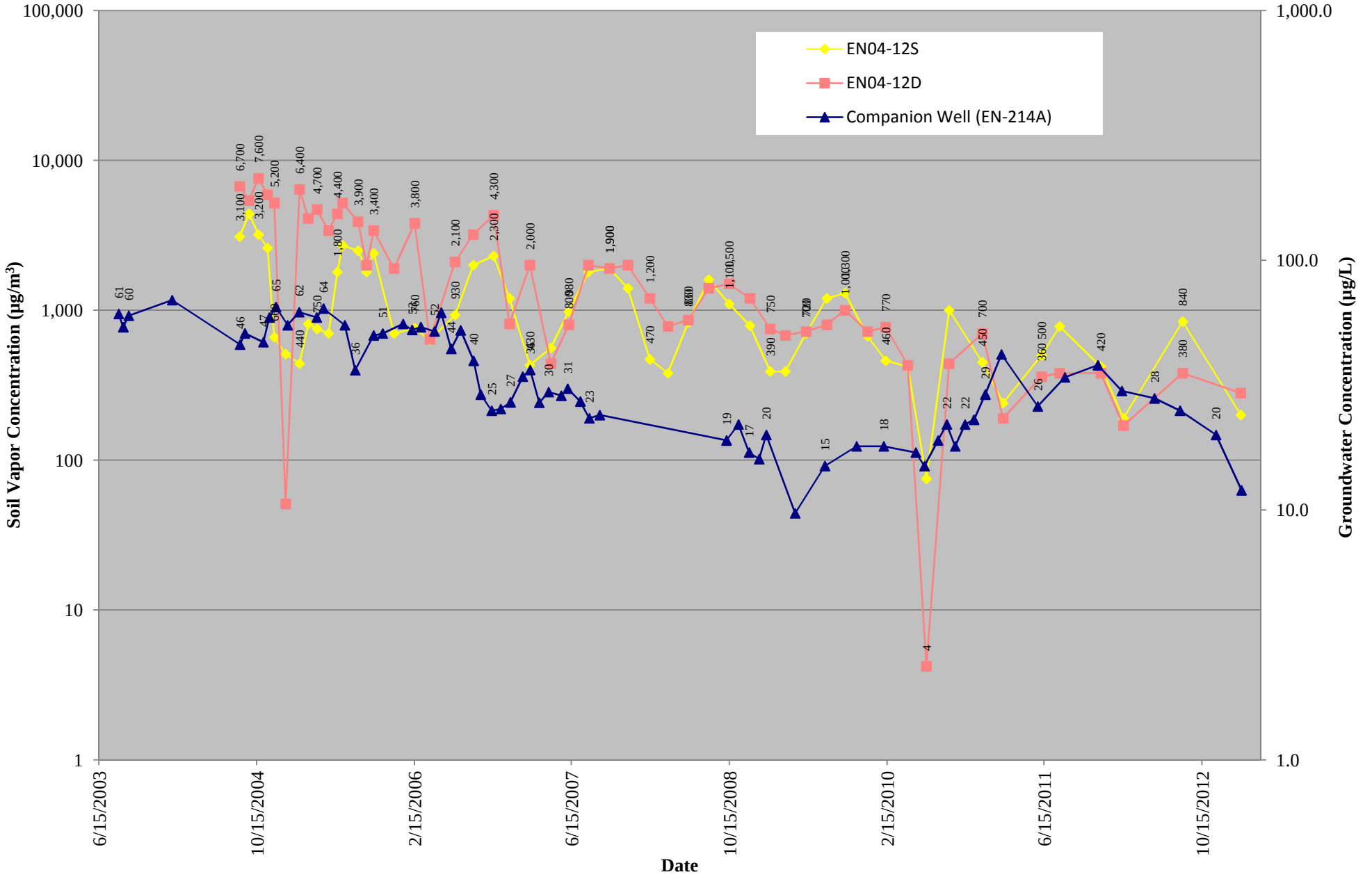

Figure A.13
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

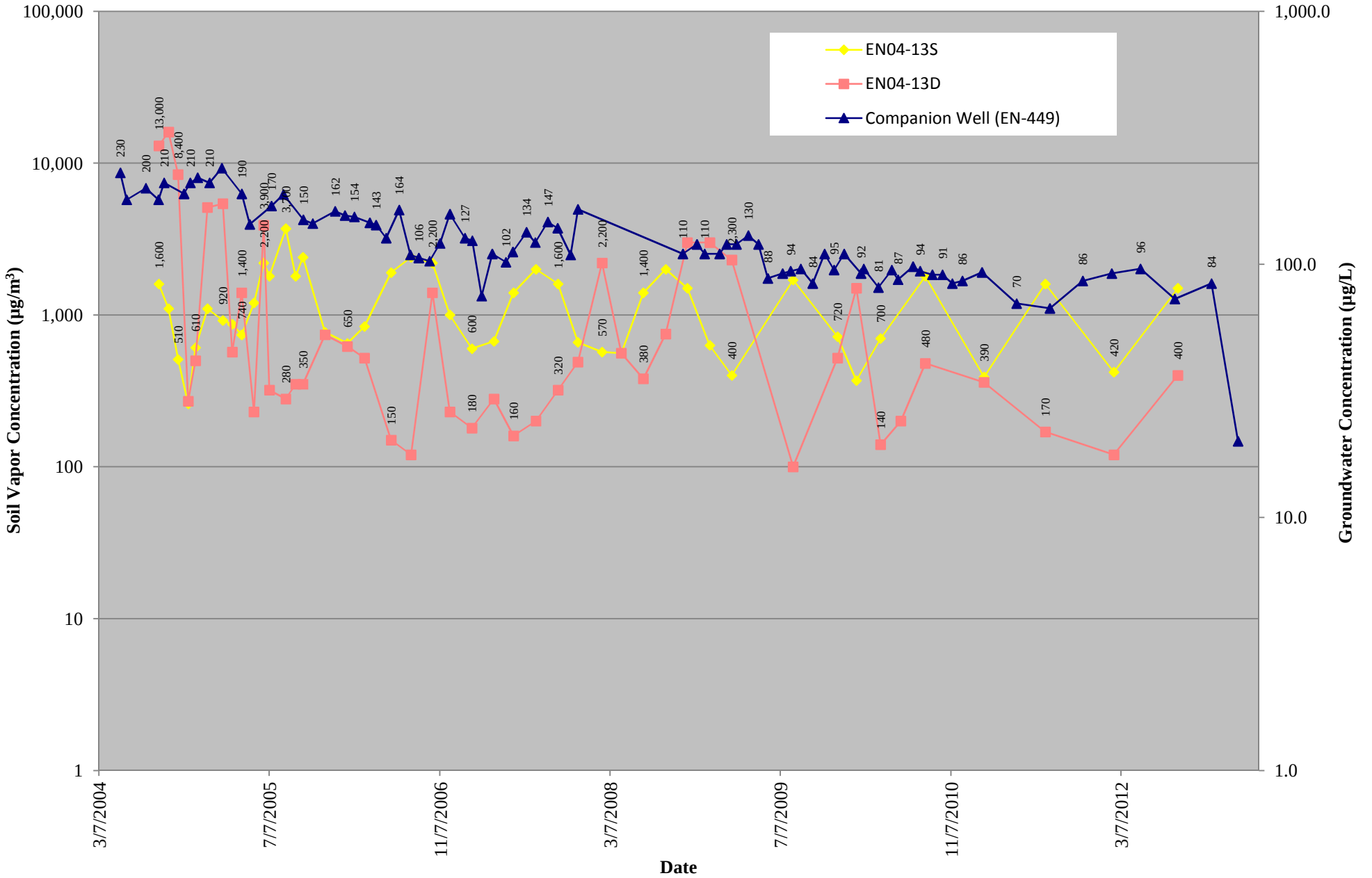

Figure A.14
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

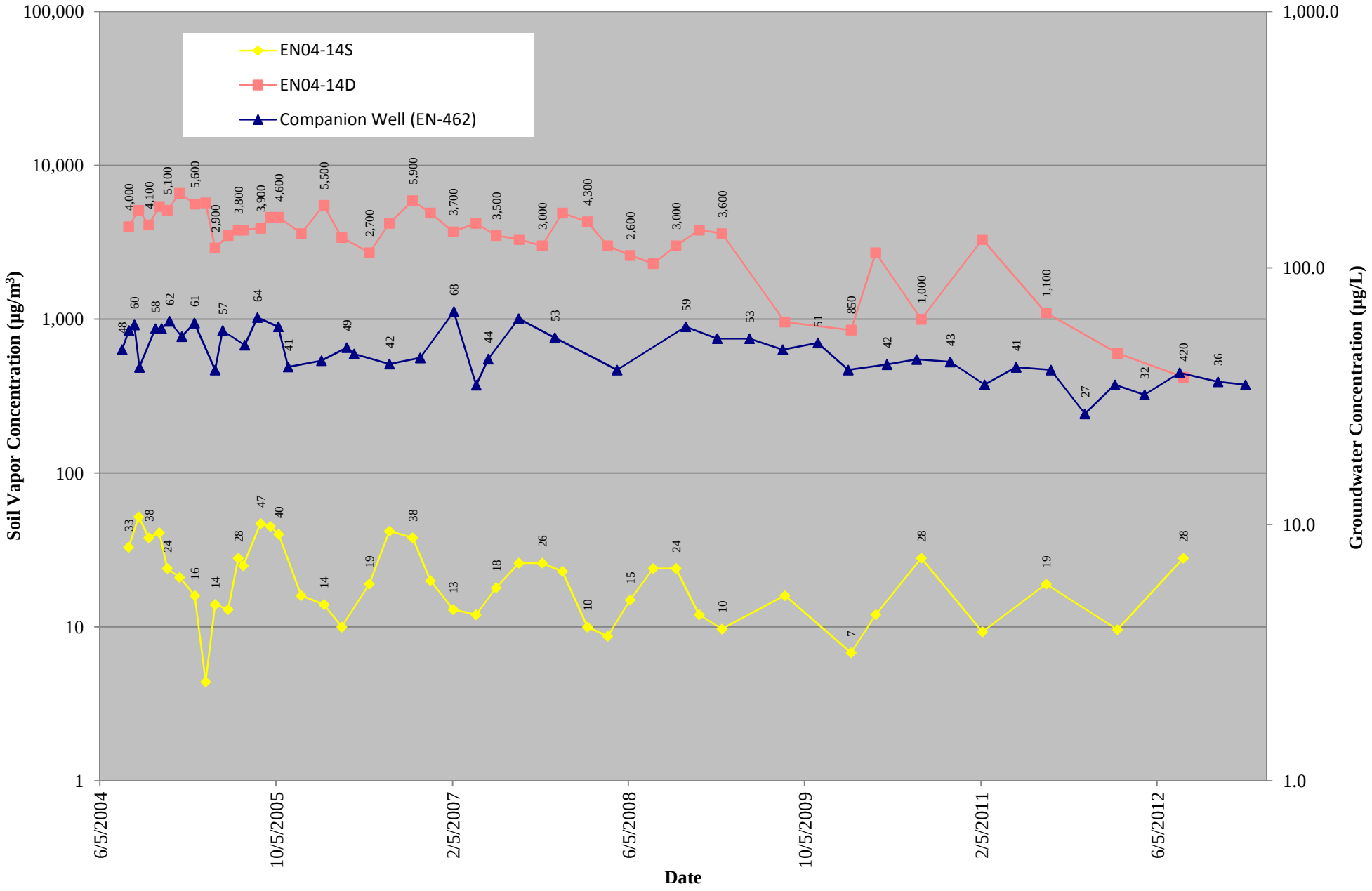

Figure A.15
TCE in Soil Vapor and Groundwater
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Endicott, New York

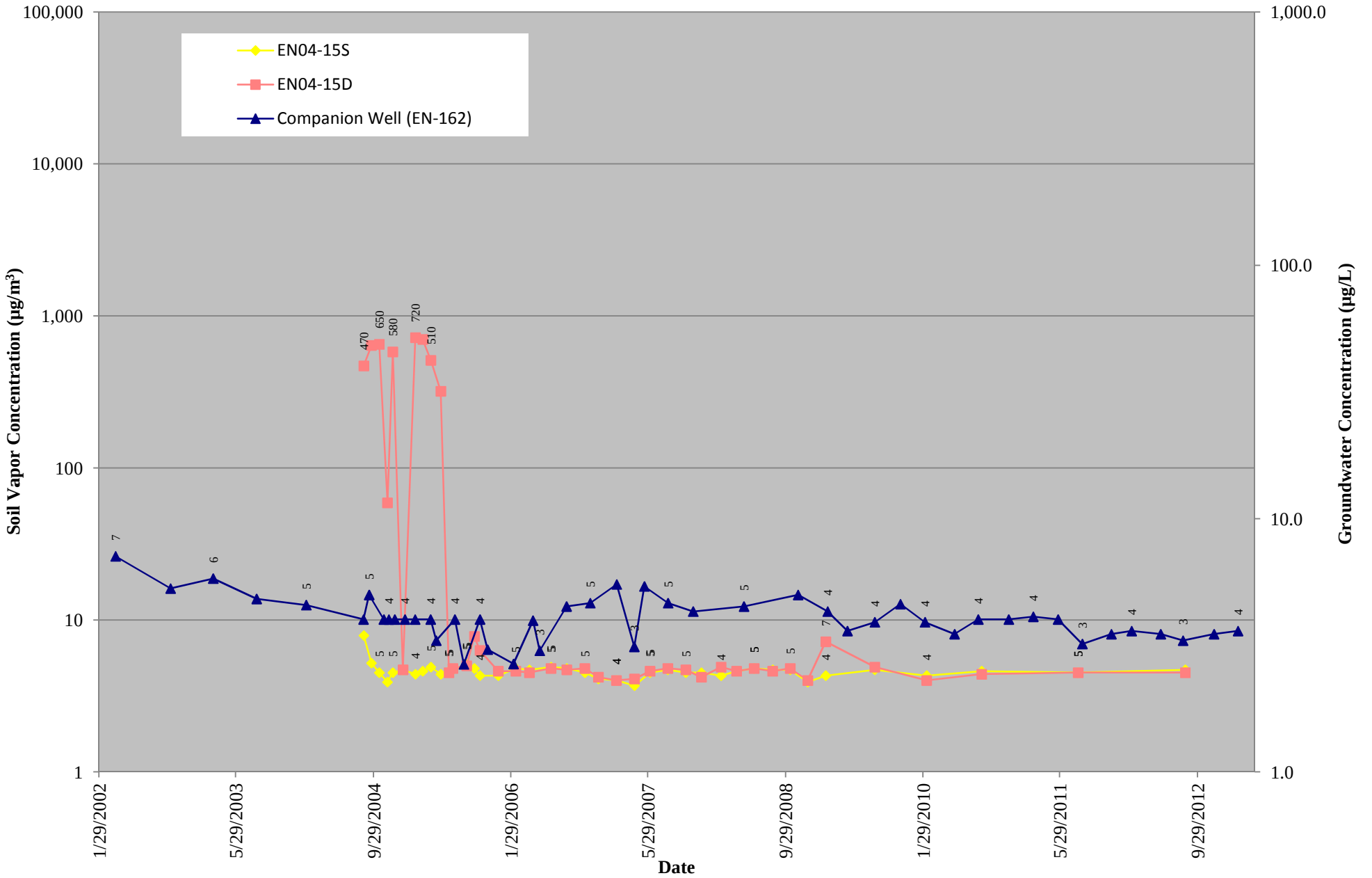

Figure A.16
TCE in Soil Vapor and Groundwater
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Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

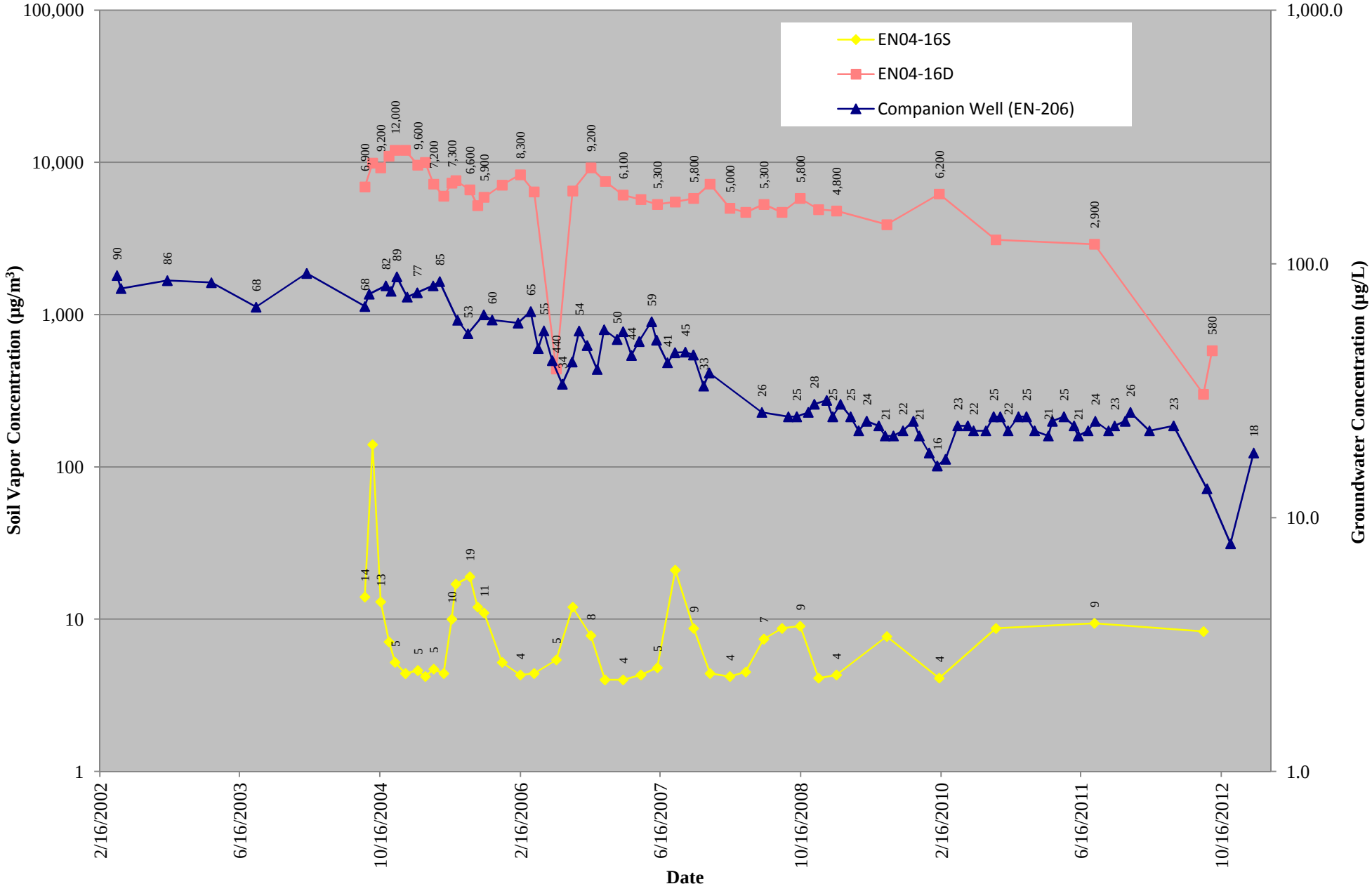

Figure A.17
TCE in Soil Vapor and Groundwater
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Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

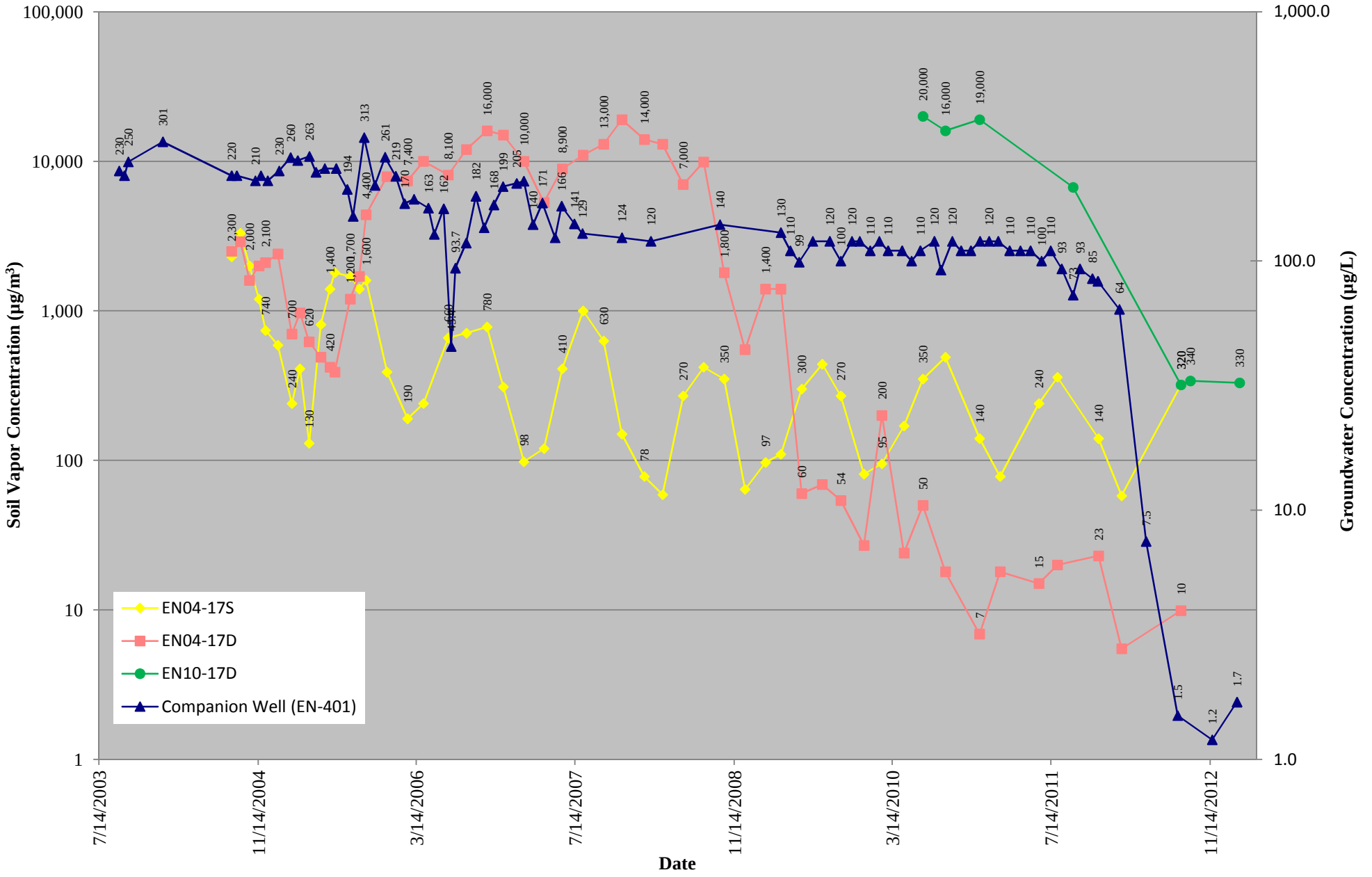

Figure A.18
TCE in Soil Vapor and Groundwater
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Endicott, New York

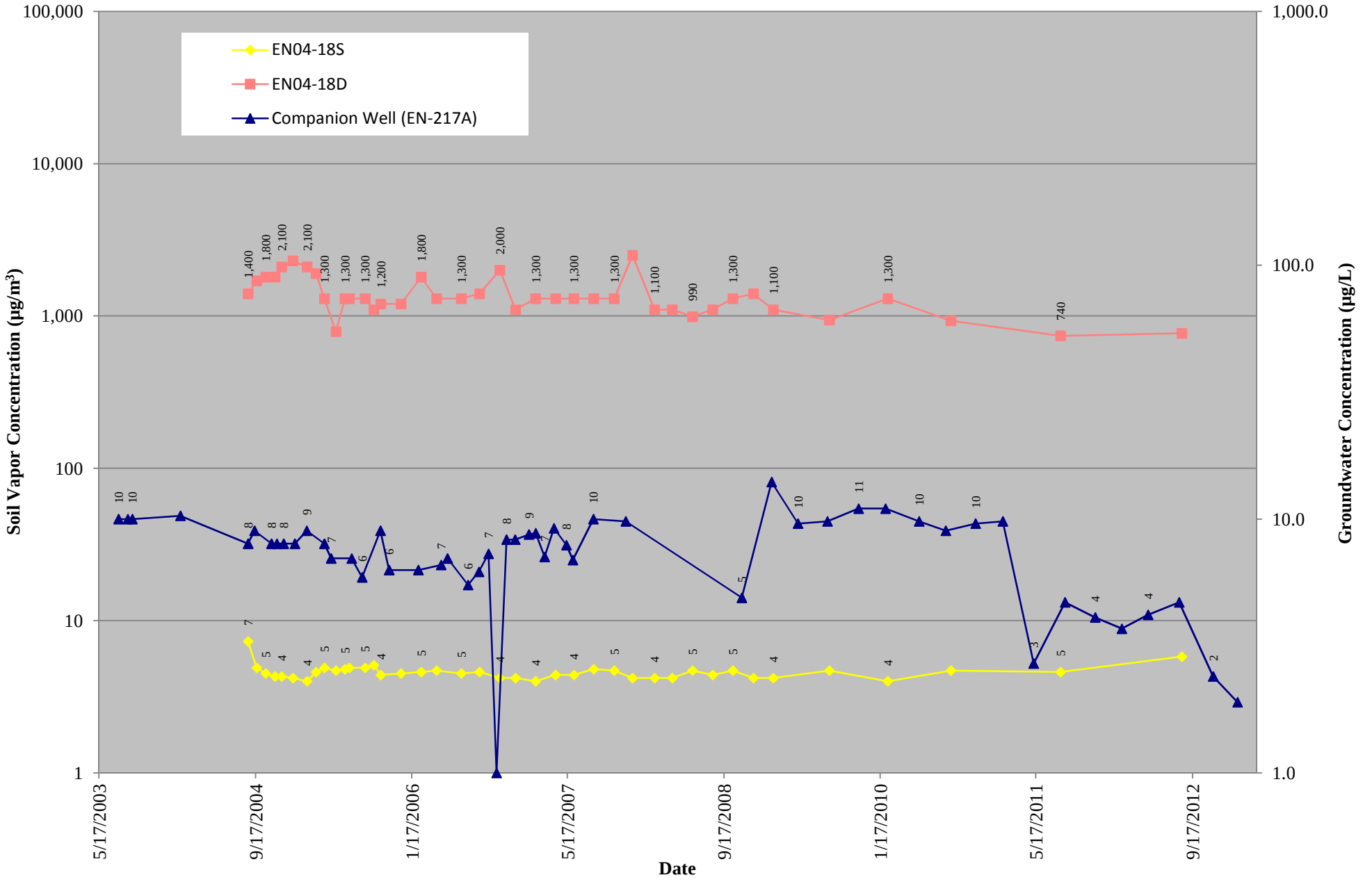

Figure A.19
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

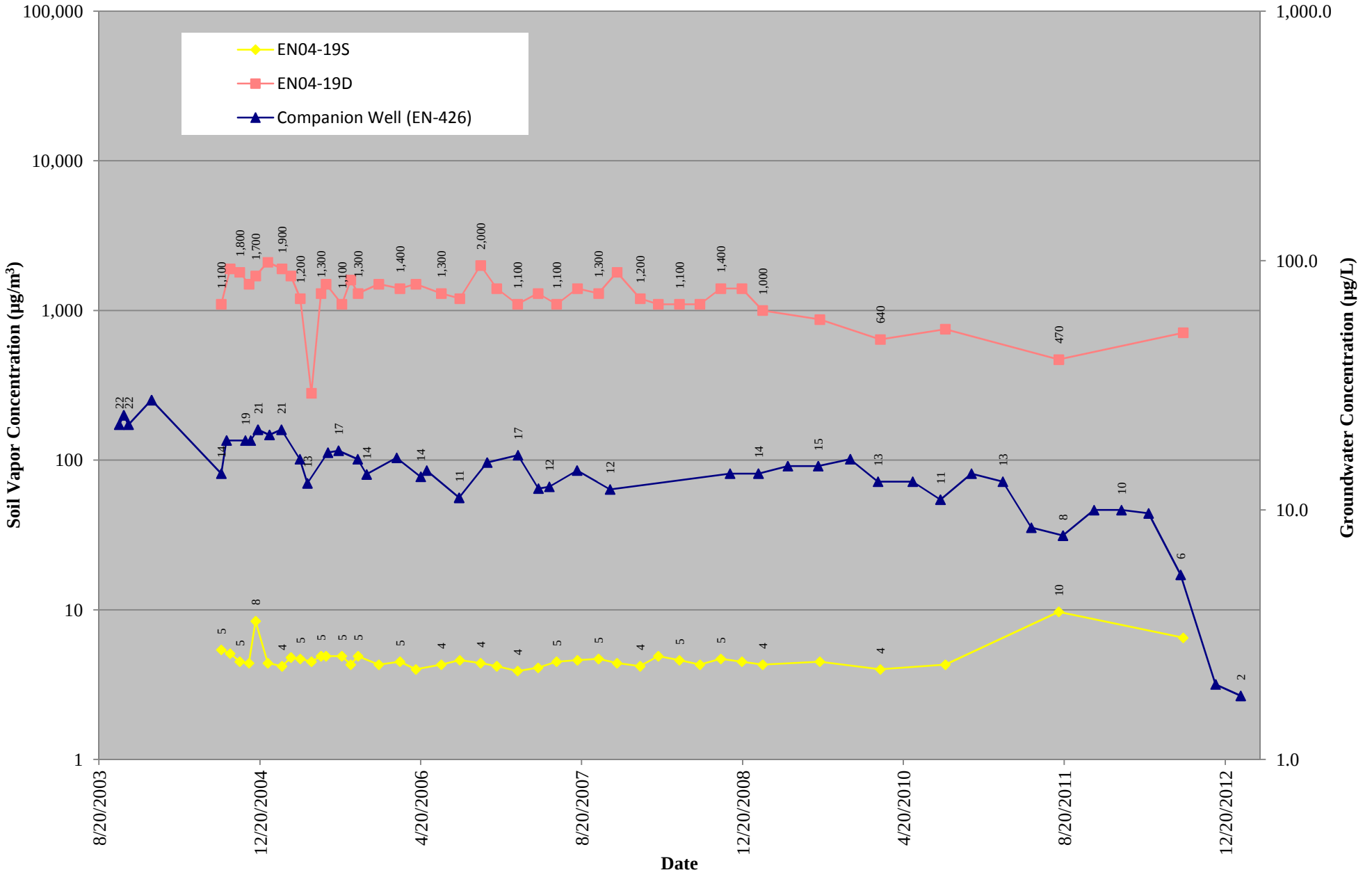

Figure A.20
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

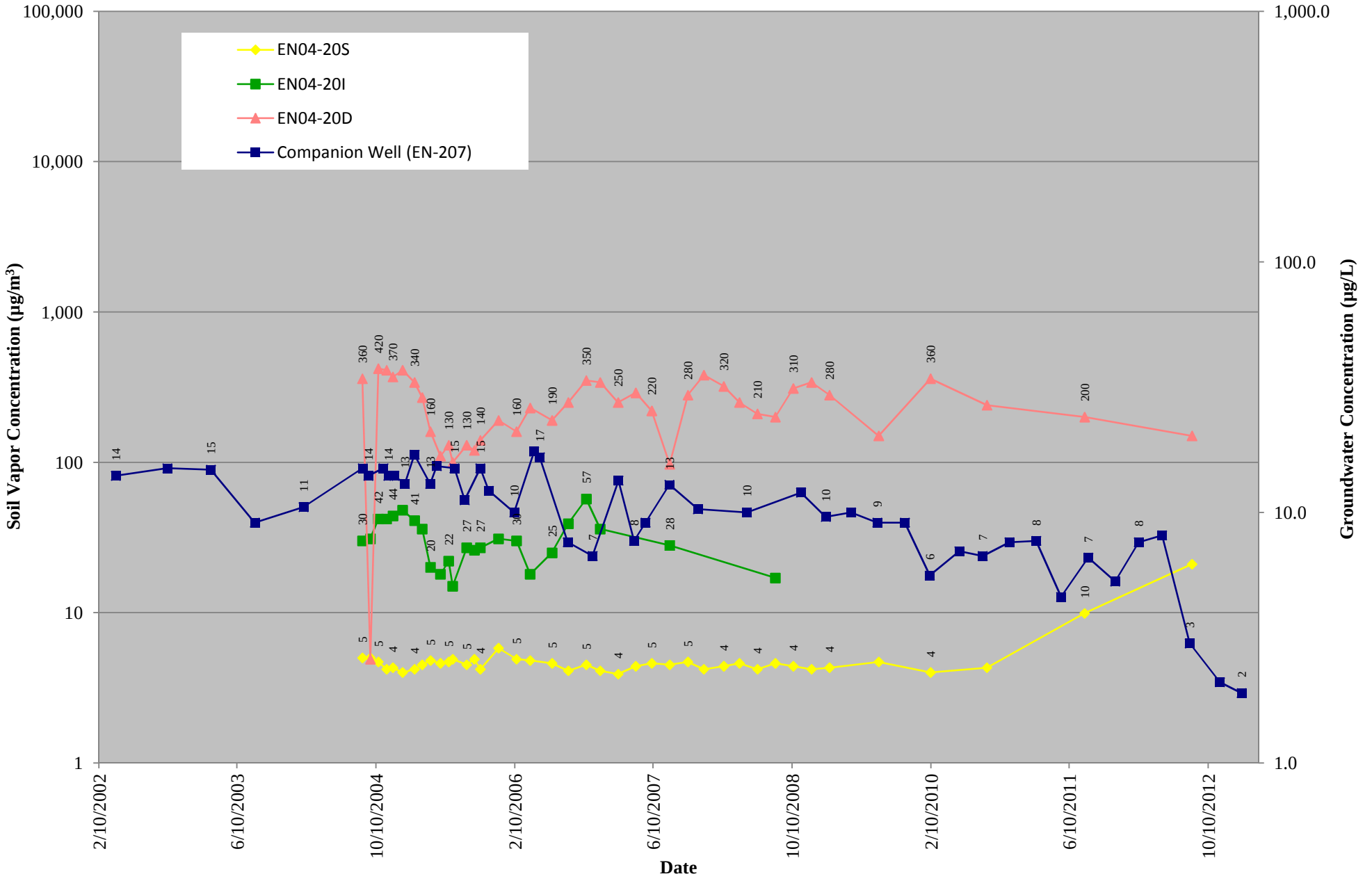

Figure A.21
TCE in Soil Vapor and Groundwater
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Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

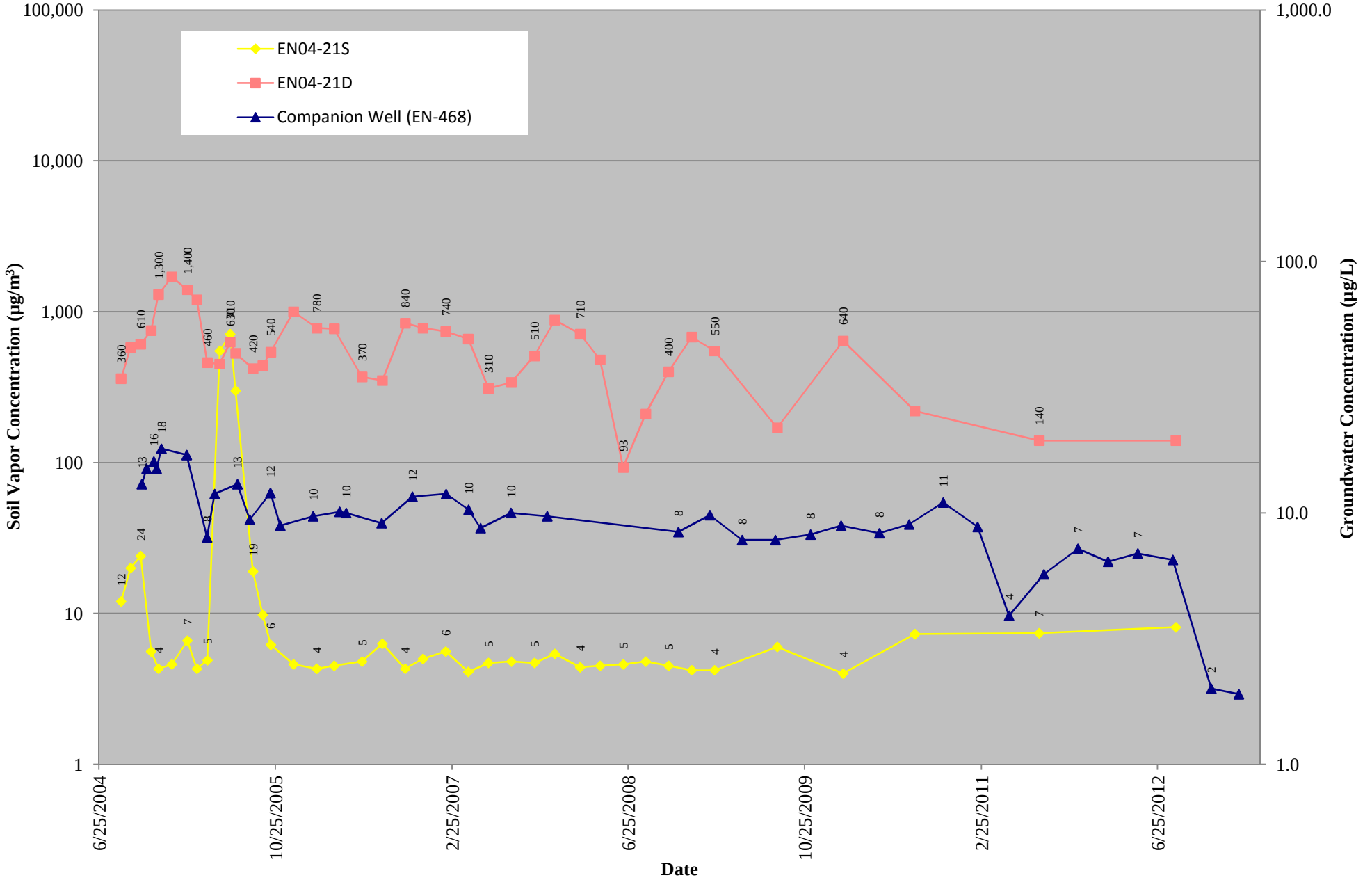

Figure A.22
TCE in Soil Vapor and Groundwater
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Endicott, New York

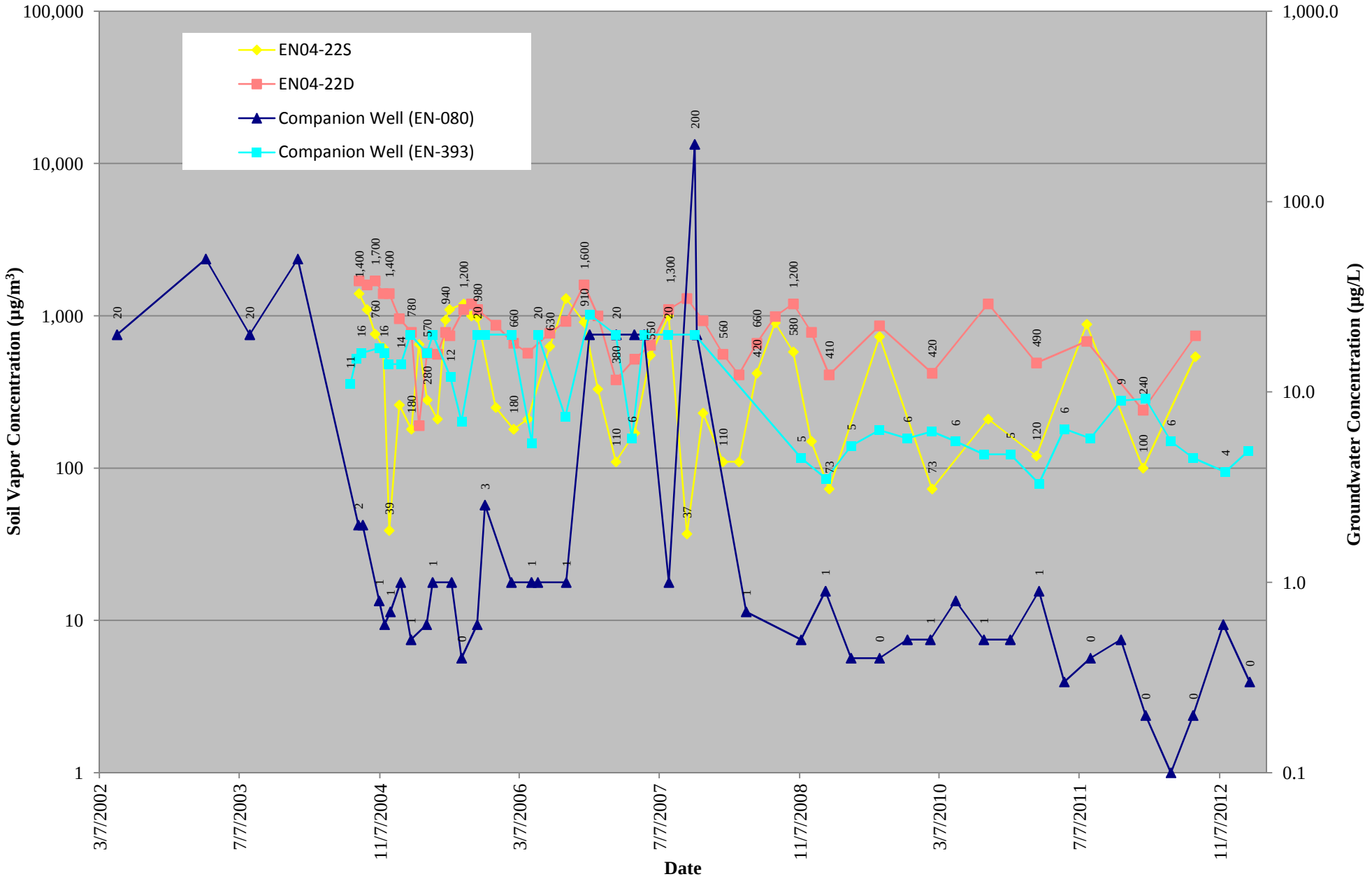

Figure A.23
TCE in Soil Vapor and Groundwater
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Endicott, New York

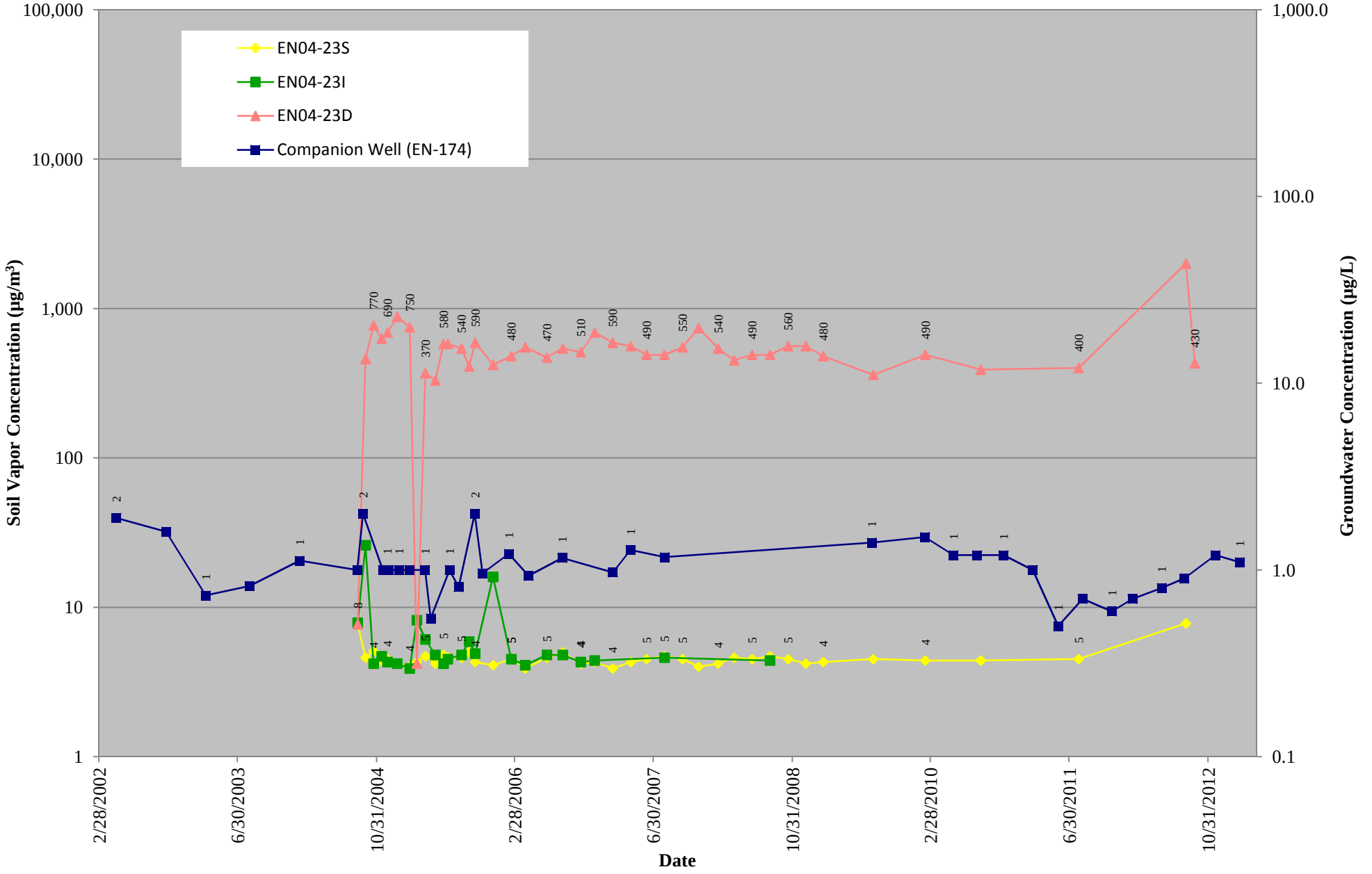

Figure A.24
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
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Endicott, New York

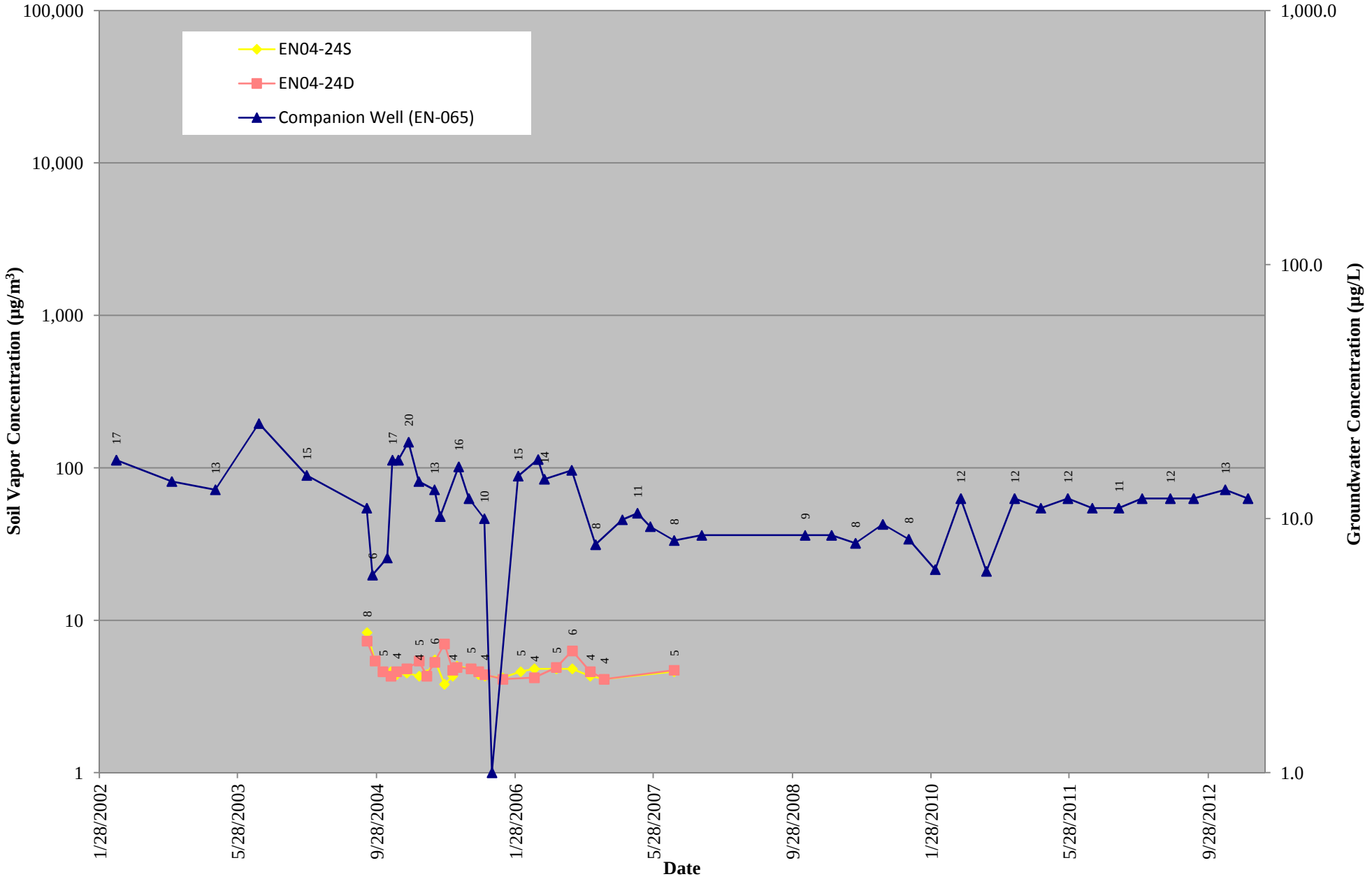

Figure A.25
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

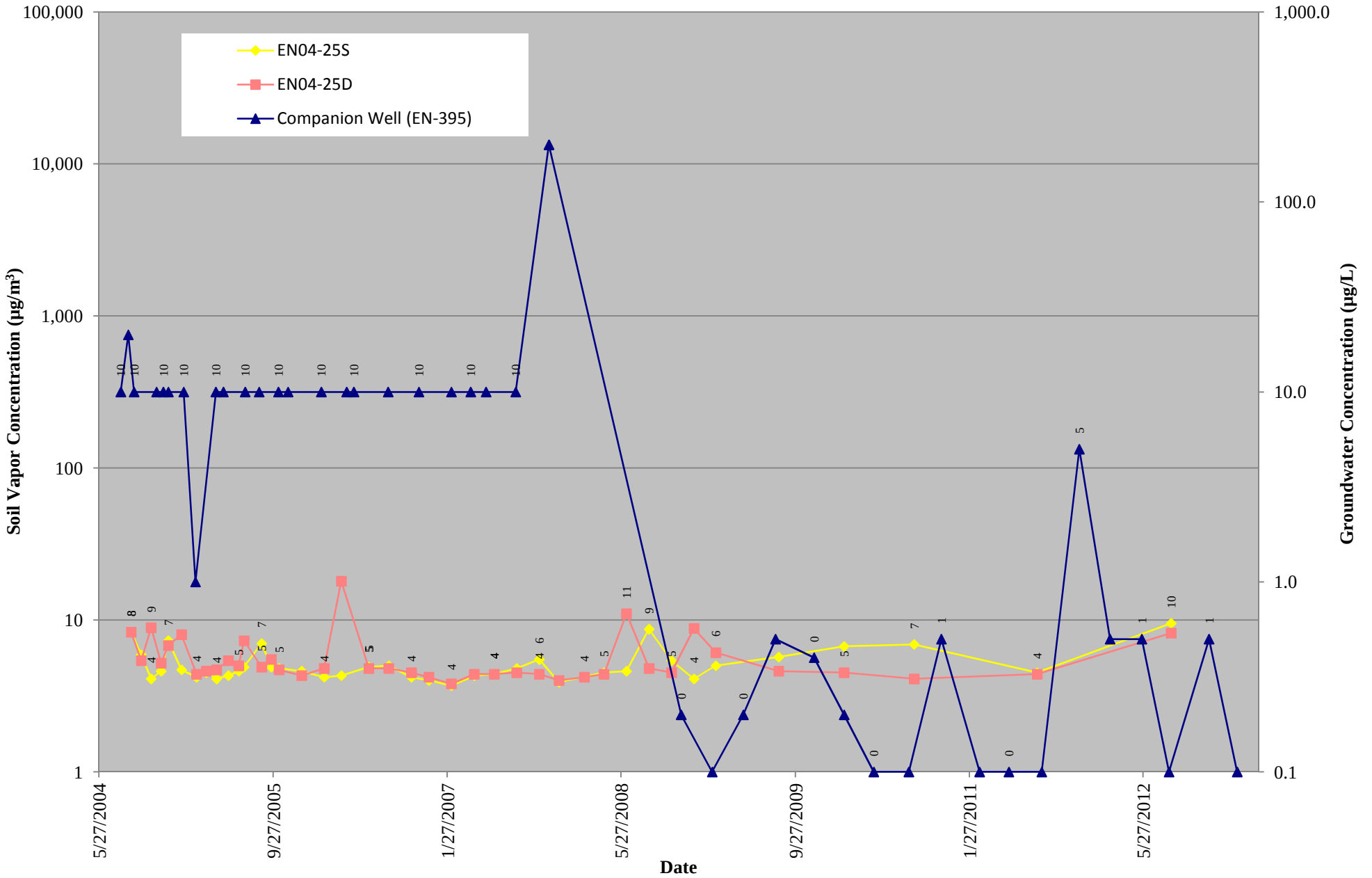

Figure A.26
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
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Endicott, New York

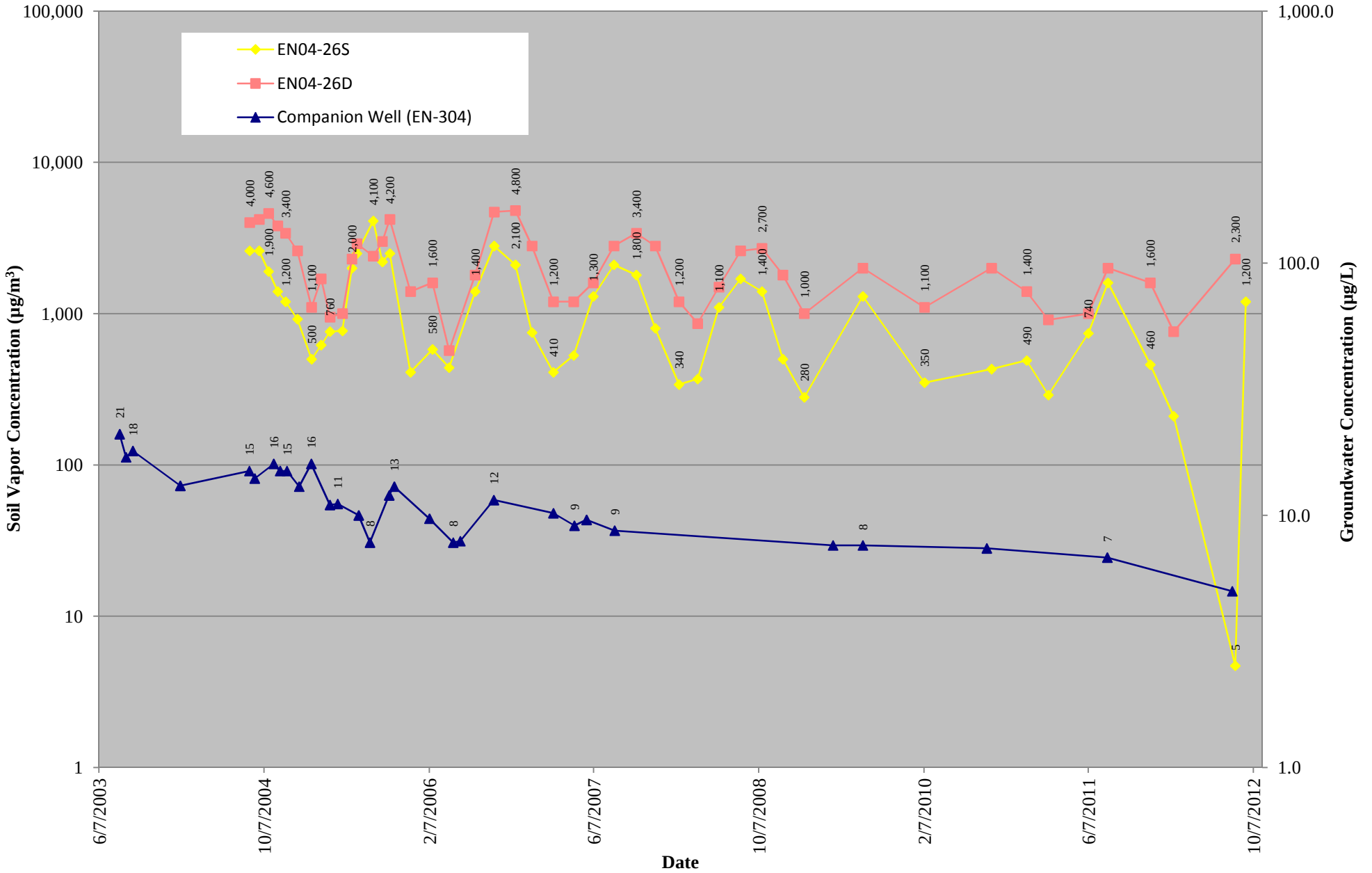

Figure A.27
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

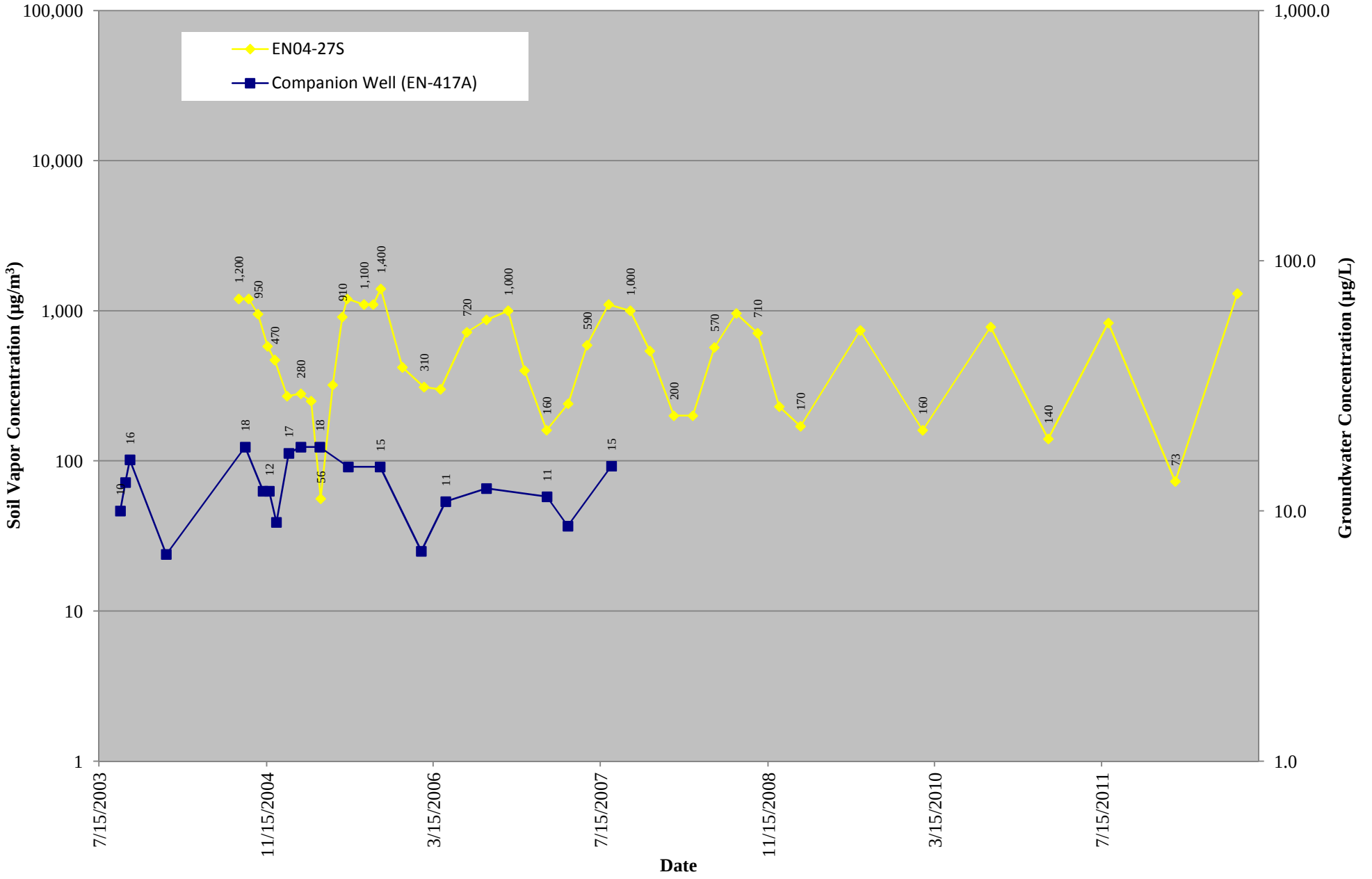

Figure A.28
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
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Endicott, New York

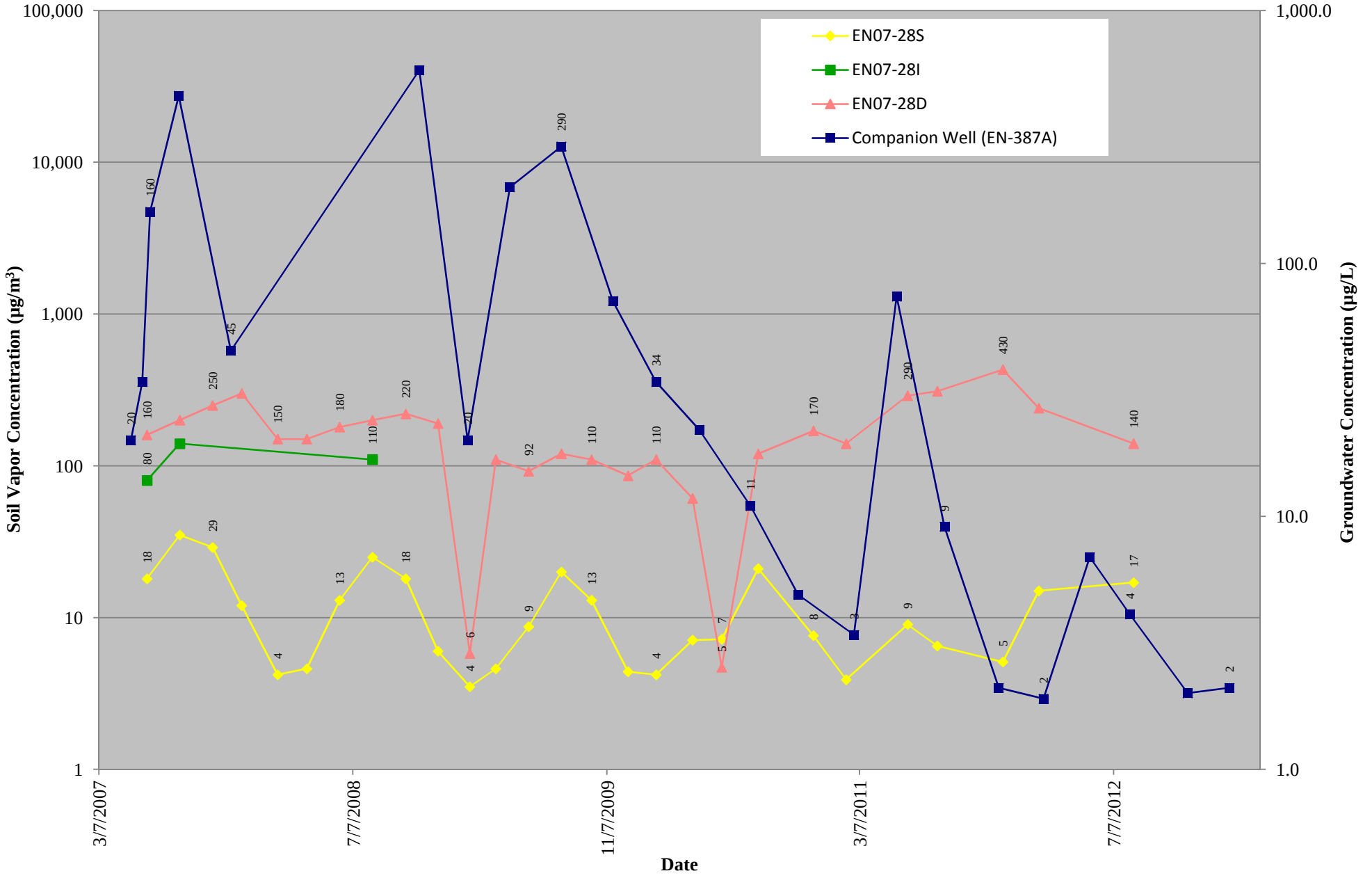

Figure A.29
TCE in Soil Vapor and Groundwater
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Endicott, New York

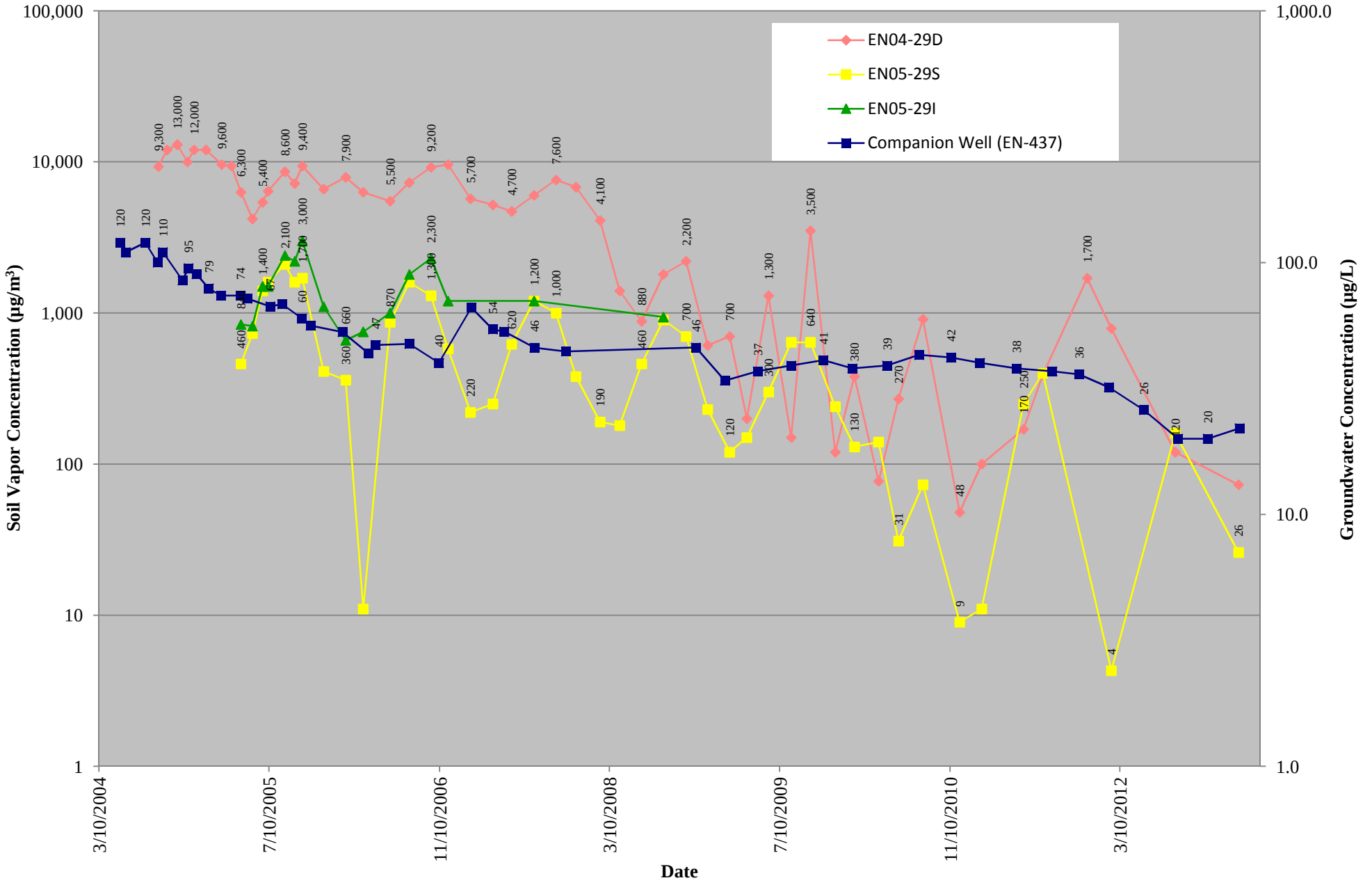


Figure A.30
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

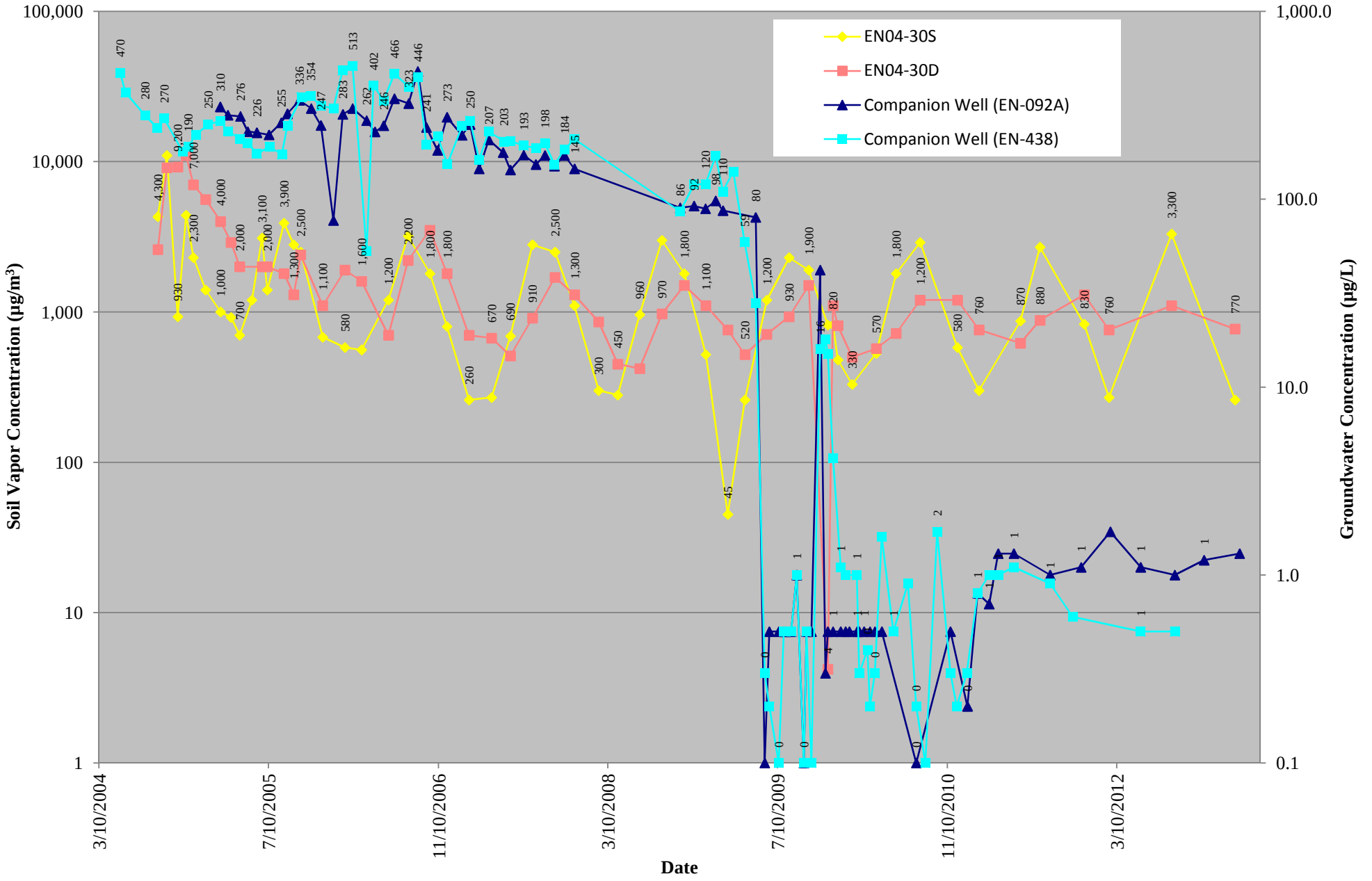


Figure A.31
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

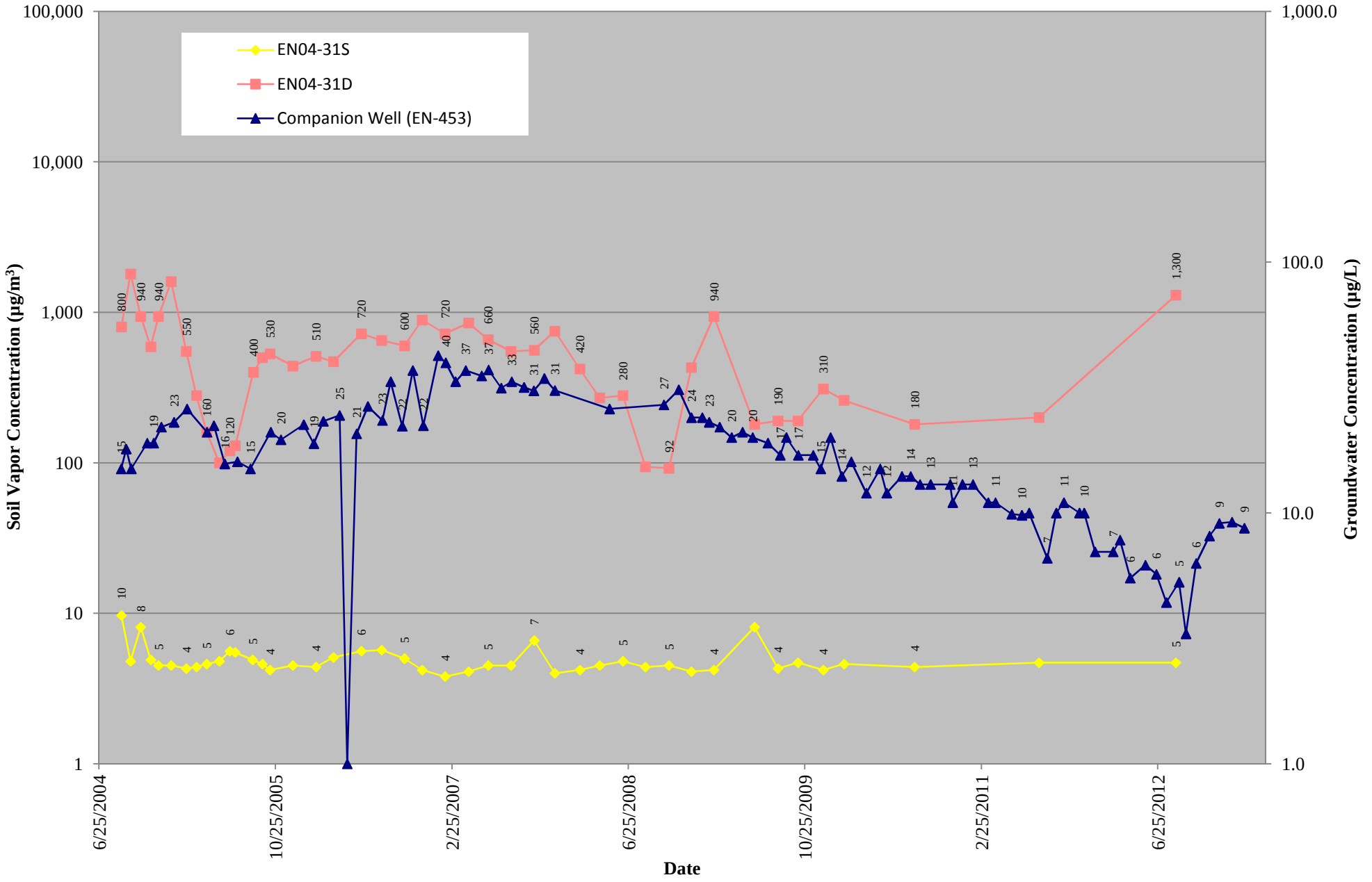


Figure A.32
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

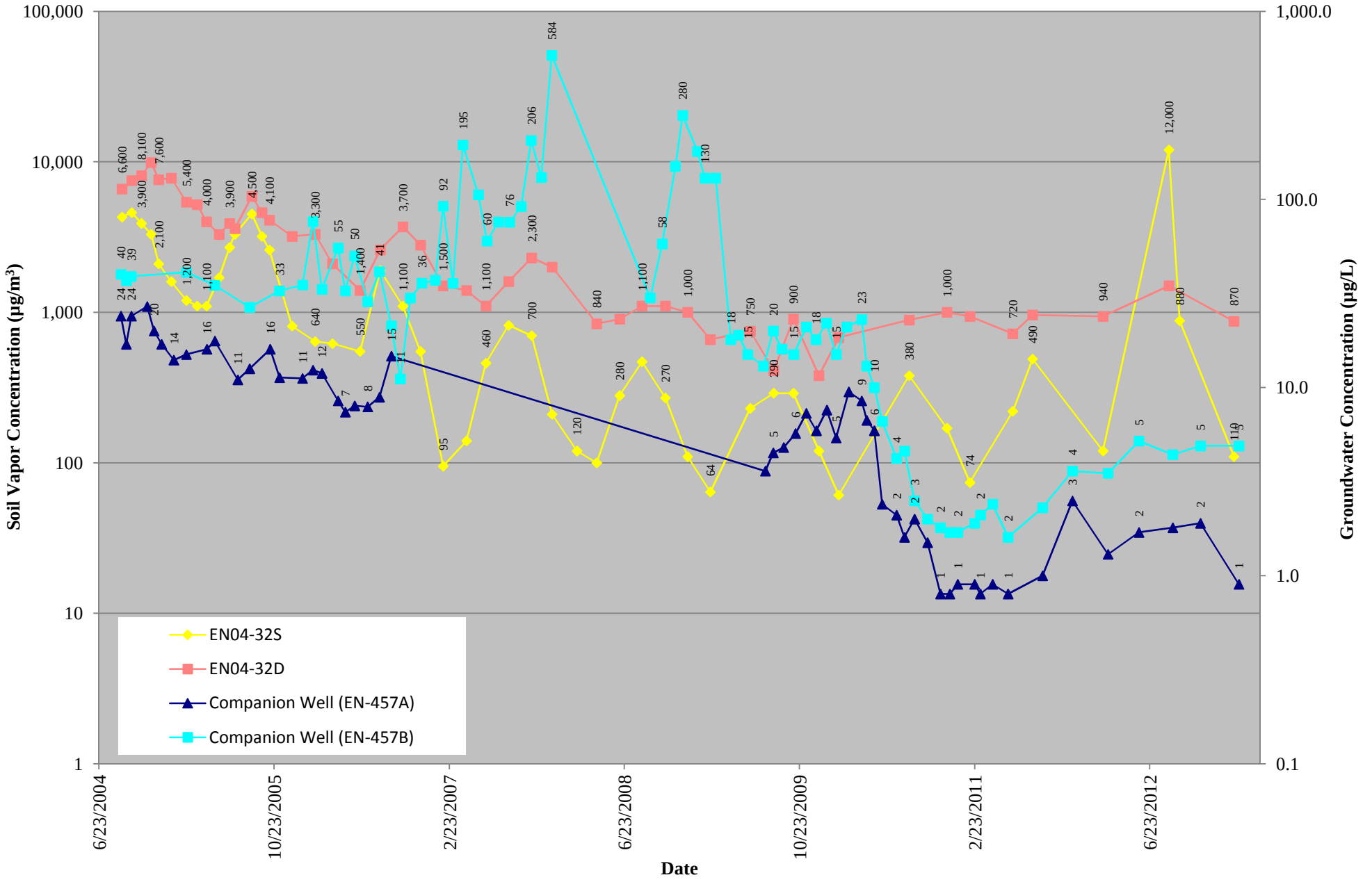


Figure A.33
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

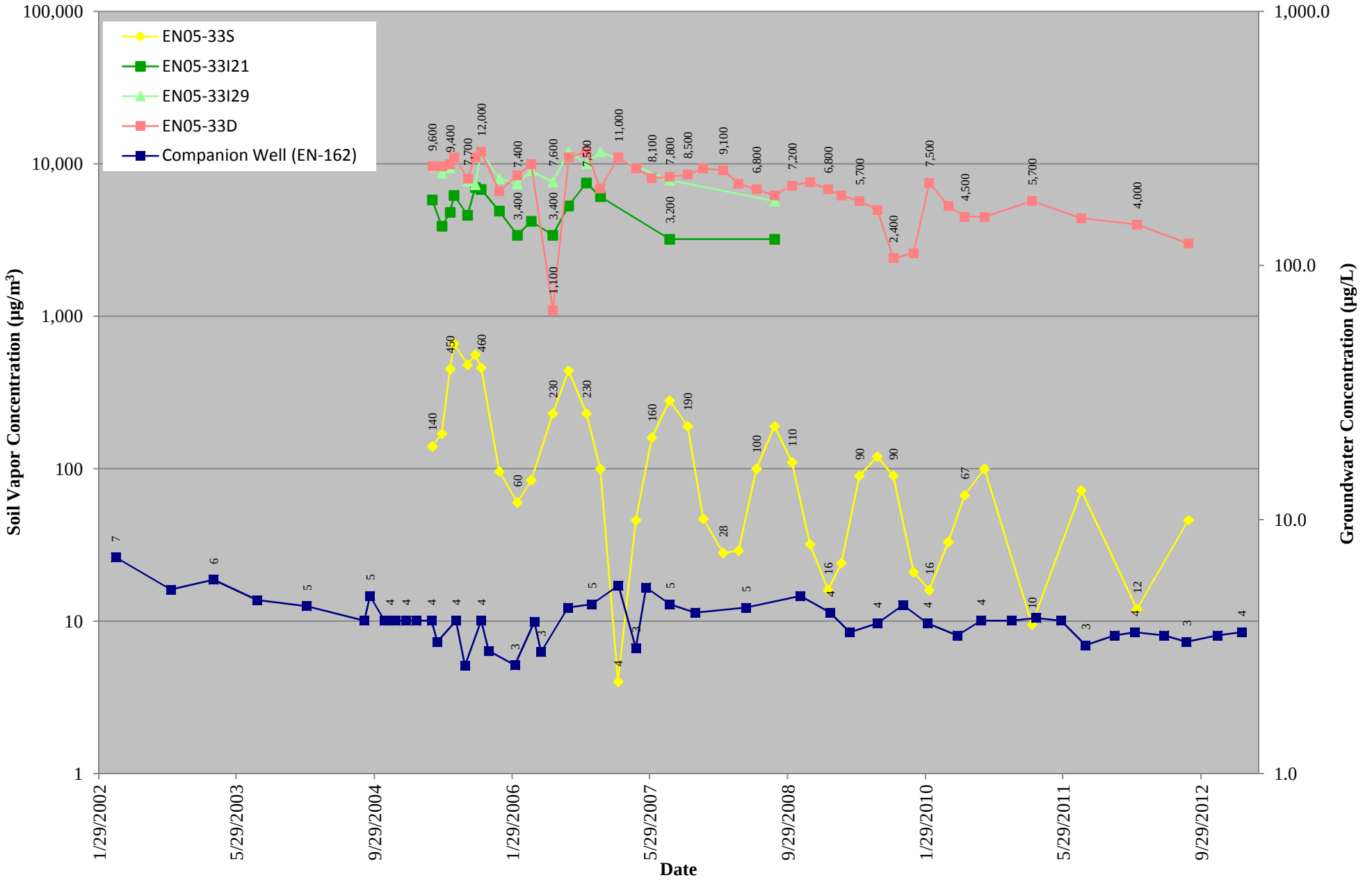


Figure A.34
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

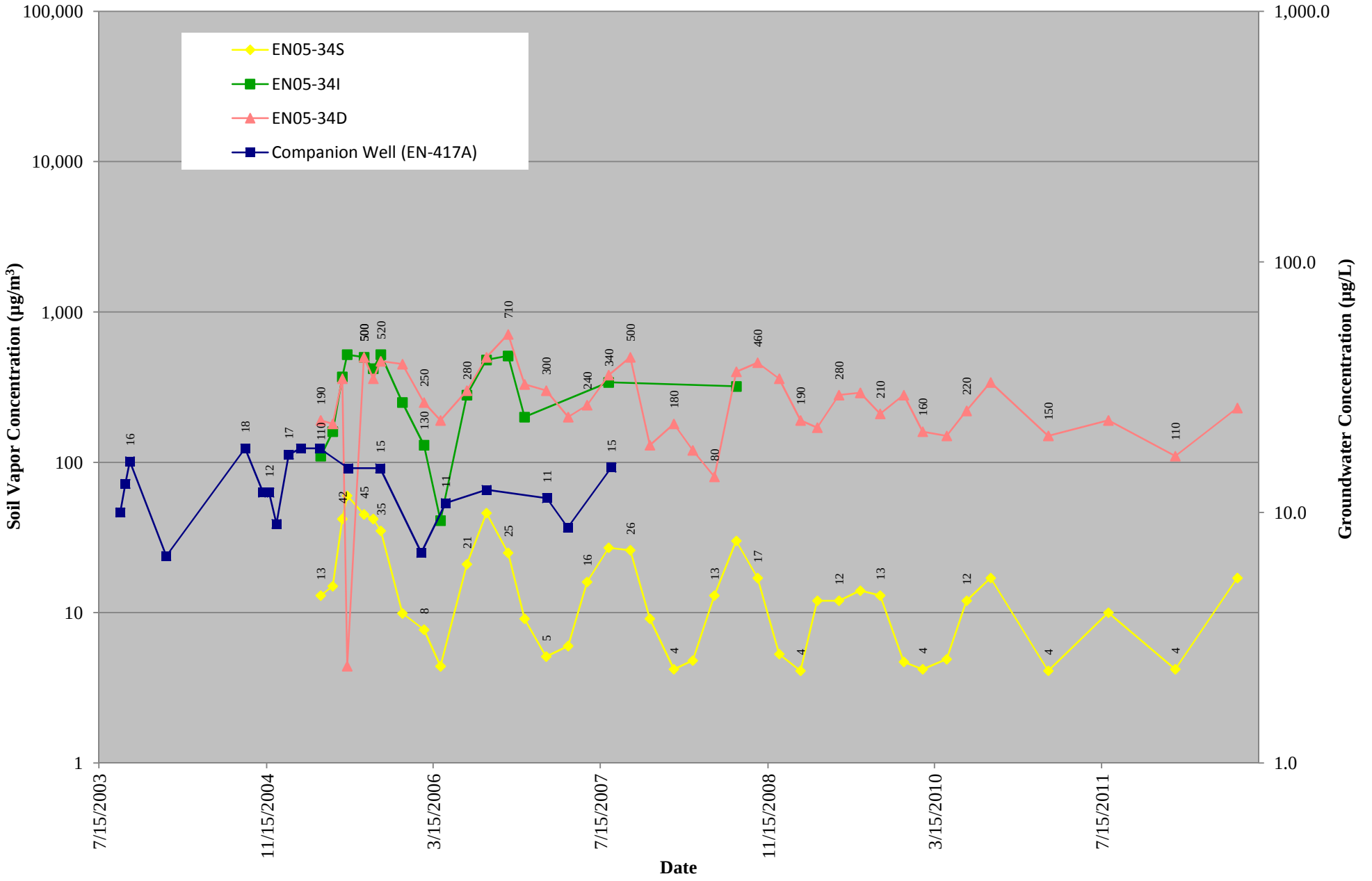


Figure A.35
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

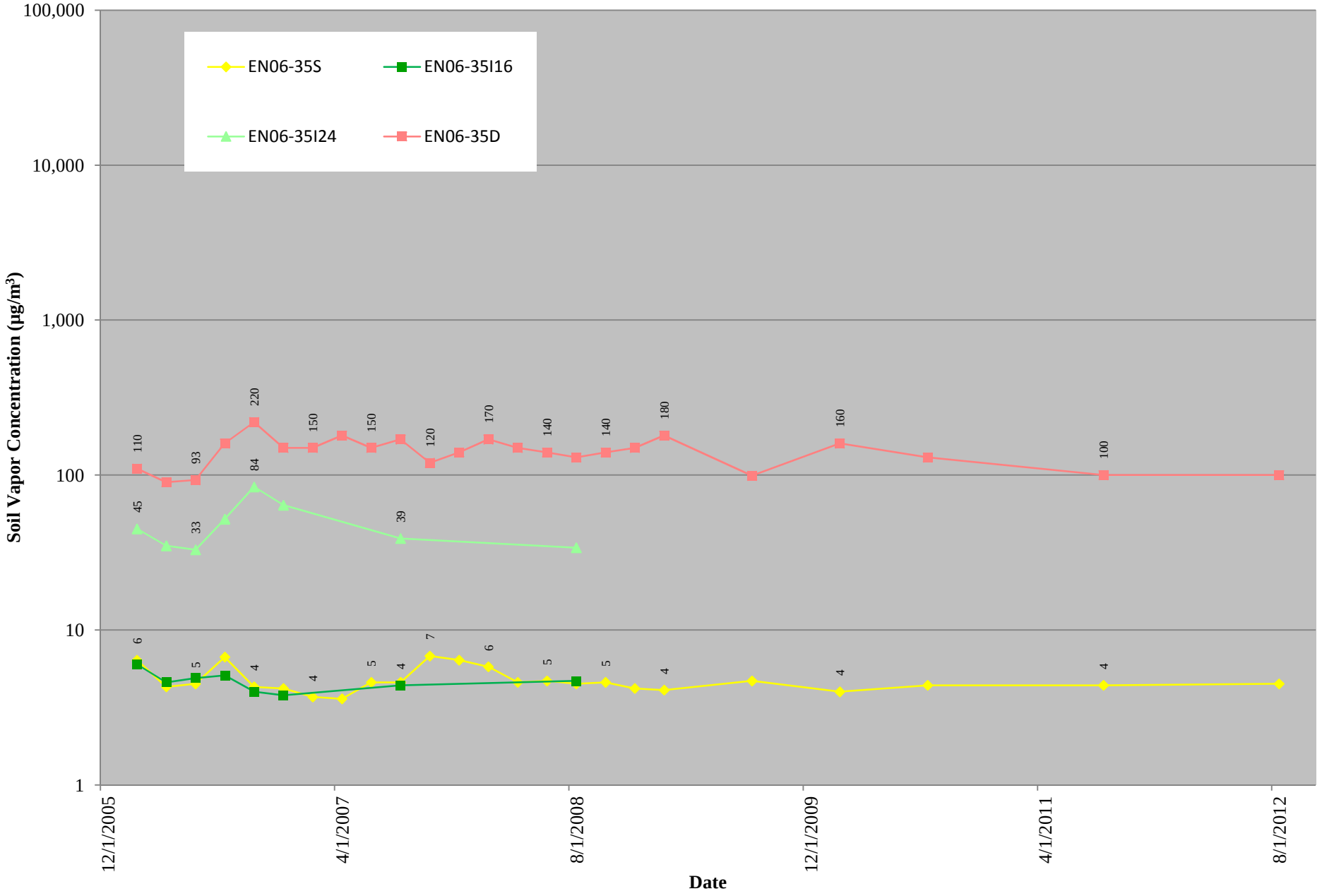


Figure A.36
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

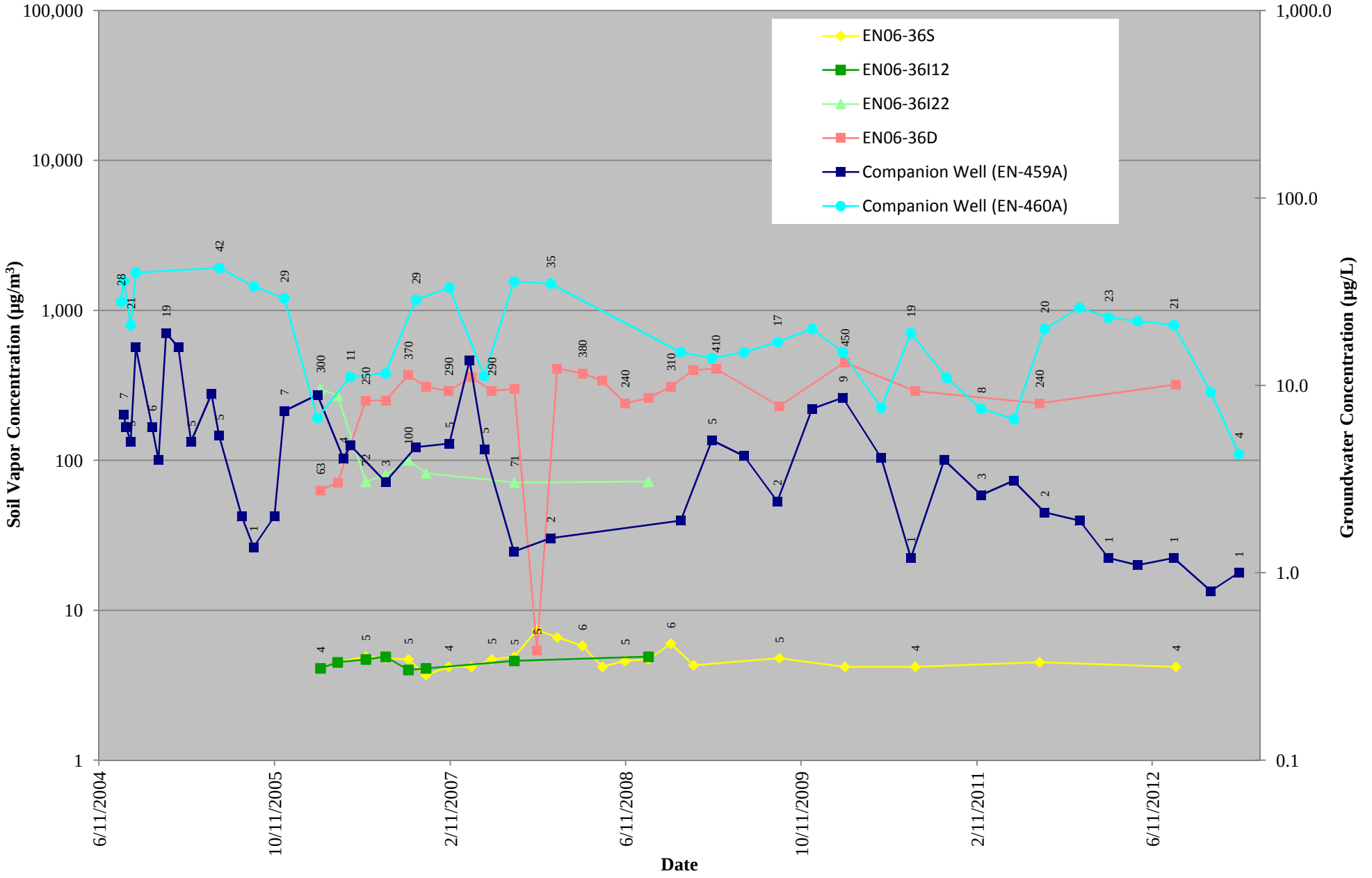


Figure A.37
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2013
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

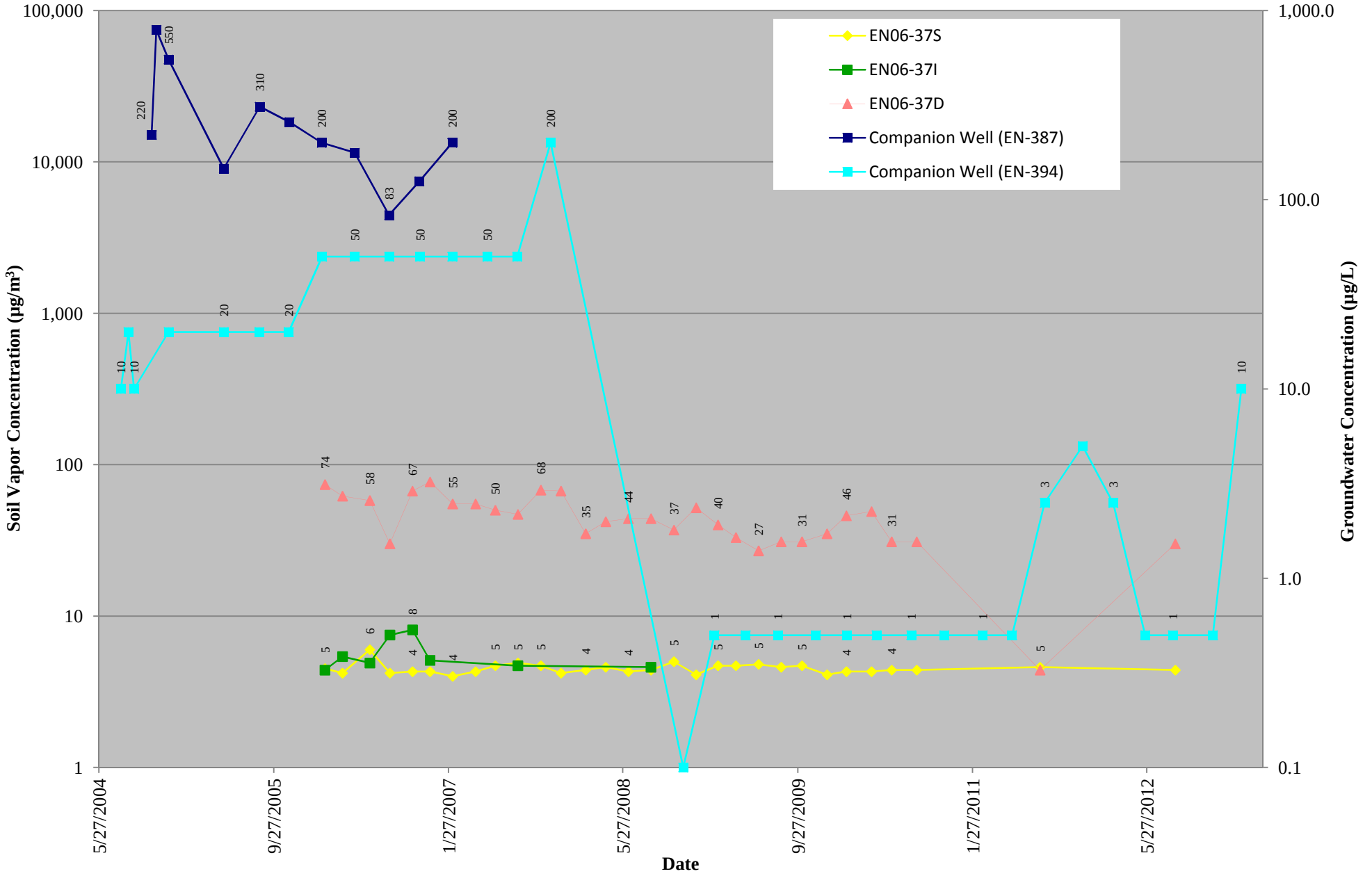
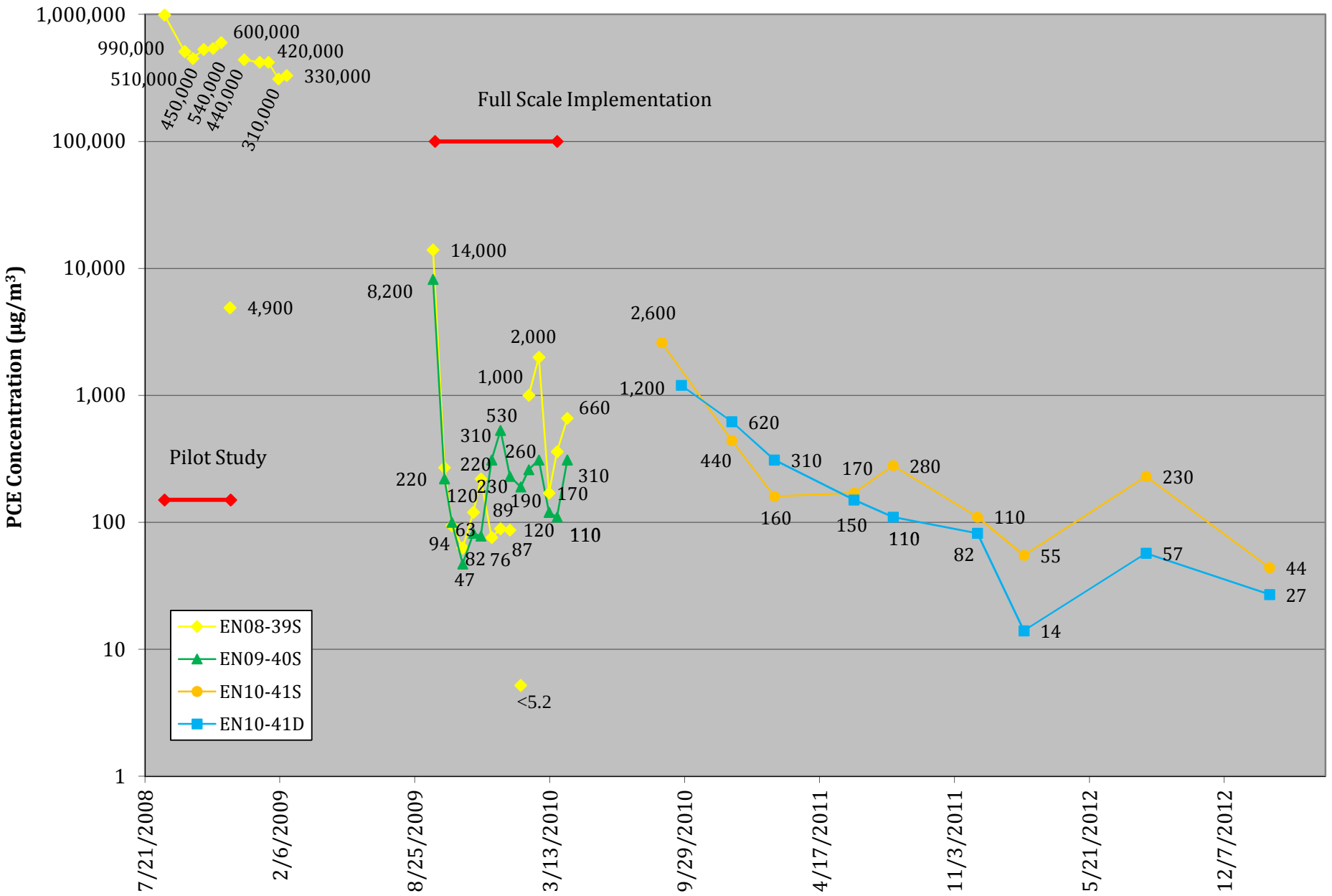


Figure A.38
PCE in Soil Vapor
Semiannual Report - Soil Vapor Monitoring through February 201σ
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York



ATTACHMENT C

Analytical Laboratory Reports

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2/28/2013
Ms. Erica Bradstreet
Sanborn, Head & Associates
1715 W 13th Street

Houston TX 77008

Project Name: IBM Groundwater Vapor Project
Project #: 2755.07
Workorder #: 1302250

Dear Ms. Erica Bradstreet

The following report includes the data for the above referenced project for sample(s) received on 2/14/2013 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1302250

Work Order Summary

CLIENT:	Ms. Erica Bradstreet Sanborn, Head & Associates 1715 W 13th Street Houston, TX 77008	**BILL TO:**	Accounts Payable Sanborn, Head & Associates 20 Foundry Street Concord, NH 03301
PHONE:	713-869-2259	**P.O. #**	3304.00
FAX:		**PROJECT #**	2755.07 IBM Groundwater Vapor Project
DATE RECEIVED:	02/14/2013	**CONTACT:**	Ausha Scott
DATE COMPLETED:	02/28/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	DU3456021213	Modified TO-15	5.5 "Hg	5 psi
02A	EB3333021213	Modified TO-15	6.0 "Hg	5 psi
03A	EB3352021313	Modified TO-15	5.5 "Hg	5 psi
04A	EN0411D021213	Modified TO-15	4.6 "Hg	5 psi
05A	EN0411S021213	Modified TO-15	4.0 "Hg	5 psi
06A	EN0412D021213	Modified TO-15	6.0 "Hg	5 psi
07A	EN0412S021213	Modified TO-15	6.5 "Hg	5 psi
08A	EN0429D021213	Modified TO-15	5.2 "Hg	5 psi
09A	EN0429S021213	Modified TO-15	4.5 "Hg	5 psi
10A	EN042S021213	Modified TO-15	5.4 "Hg	5 psi
11A	EN0430D021213	Modified TO-15	4.0 "Hg	5 psi
12A	EN0430S021213	Modified TO-15	4.2 "Hg	5 psi
13A	EN0432D021213	Modified TO-15	5.0 "Hg	5 psi
13AA	EN0432D021213 Lab Duplicate	Modified TO-15	5.0 "Hg	5 psi
14A	EN0432S021213	Modified TO-15	4.8 "Hg	5 psi
14AA	EN0432S021213 Lab Duplicate	Modified TO-15	4.8 "Hg	5 psi
15A	EN1017D021213	Modified TO-15	5.0 "Hg	5 psi
16A	EN1041D021313	Modified TO-15	5.2 "Hg	5 psi
17A	EN1041S021313	Modified TO-15	7.0 "Hg	5 psi
18A	EN042D021213	Modified TO-15	5.2 "Hg	5 psi
19A	Lab Blank	Modified TO-15	NA	NA
19B	Lab Blank	Modified TO-15	NA	NA
20A	CCV	Modified TO-15	NA	NA

Continued on next page

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WORK ORDER #: 1302250

Work Order Summary

CLIENT:	Ms. Erica Bradstreet Sanborn, Head & Associates 1715 W 13th Street Houston, TX 77008	**BILL TO:**	Accounts Payable Sanborn, Head & Associates 20 Foundry Street Concord, NH 03301
PHONE:	713-869-2259	**P.O. #**	3304.00
FAX:		**PROJECT #**	2755.07 IBM Groundwater Vapor Project
DATE RECEIVED:	02/14/2013	**CONTACT:**	Ausha Scott
DATE COMPLETED:	02/28/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
20B	CCV	Modified TO-15	NA	NA
21A	LCS	Modified TO-15	NA	NA
21AA	LCSD	Modified TO-15	NA	NA
21B	LCS	Modified TO-15	NA	NA
21BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 02/28/13

Technical Director

Certfication numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Sanborn, Head & Associates
Workorder# 1302250

Eighteen 1 Liter Summa Canister (100% Certified) samples were received on February 14, 2013. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

The Chain of Custody (COC) information for sample EN0429D021213 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: DU3456021213

Lab ID#: 1302250-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.82	4.6	4.4	24

Client Sample ID: EB3333021213

Lab ID#: 1302250-02A

No Detections Were Found.

Client Sample ID: EB3352021313

Lab ID#: 1302250-03A

No Detections Were Found.

Client Sample ID: EN0411D021213

Lab ID#: 1302250-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.79	1.1	3.1	4.5
1,1,1-Trichloroethane	0.79	6.2	4.3	34
Trichloroethene	0.79	170	4.2	910
Tetrachloroethene	0.79	4.7	5.4	32

Client Sample ID: EN0411S021213

Lab ID#: 1302250-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.78	0.80	4.2	4.4
Trichloroethene	0.78	4.4	4.2	24

Client Sample ID: EN0412D021213

Lab ID#: 1302250-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.84	2.1	4.6	11

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EN0412D021213

Lab ID#: 1302250-06A

Trichloroethene	0.84	52	4.5	280

Client Sample ID: EN0412S021213

Lab ID#: 1302250-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.86	1.5	4.7	8.1
Trichloroethene	0.86	38	4.6	200

Client Sample ID: EN0429D021213

Lab ID#: 1302250-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.81	14	4.4	73

Client Sample ID: EN0429S021213

Lab ID#: 1302250-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.79	4.8	4.2	26

Client Sample ID: EN042S021213

Lab ID#: 1302250-10A

No Detections Were Found.

Client Sample ID: EN0430D021213

Lab ID#: 1302250-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.78	0.84	3.1	3.3
1,1,1-Trichloroethane	0.78	18	4.2	96
Trichloroethene	0.78	140	4.2	770
Tetrachloroethene	0.78	4.5	5.2	31

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EN0430S021213

Lab ID#: 1302250-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.78	48	4.2	260

Client Sample ID: EN0432D021213

Lab ID#: 1302250-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethane	0.80	1.3	3.2	5.4
1,1,1-Trichloroethane	0.80	25	4.4	140
Trichloroethene	0.80	160	4.3	870

Client Sample ID: EN0432D021213 Lab Duplicate

Lab ID#: 1302250-13AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	1.3	24	7.2	130
Trichloroethene	1.3	160	7.1	880

Client Sample ID: EN0432S021213

Lab ID#: 1302250-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.80	1.5	4.4	8.0
Trichloroethene	0.80	21	4.3	110

Client Sample ID: EN0432S021213 Lab Duplicate

Lab ID#: 1302250-14AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	1.3	1.6	7.3	8.6
Trichloroethene	1.3	22	7.2	120

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EN1017D021213

Lab ID#: 1302250-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.80	3.8	3.2	15
1,1,1-Trichloroethane	0.80	50	4.4	270
Trichloroethene	0.80	62	4.3	330

Client Sample ID: EN1041D021313

Lab ID#: 1302250-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.81	1.8	4.4	9.6
Tetrachloroethene	0.81	4.0	5.5	27

Client Sample ID: EN1041S021313

Lab ID#: 1302250-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.88	6.5	5.9	44

Client Sample ID: EN042D021213

Lab ID#: 1302250-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.81	2.4	4.4	13
Trichloroethene	0.81	18	4.4	96
Tetrachloroethene	0.81	2.6	5.5	18

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Client Sample ID: DU3456021213

Lab ID#: 1302250-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022008**	**Date of Collection: 2/12/13 1:40:00 PM**	
Dil. Factor:	**1.64**	**Date of Analysis: 2/20/13 01:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Chloroethane	3.3	Not Detected	8.6	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Methylene Chloride	8.2	Not Detected	28	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Trichloroethene	0.82	4.6	4.4	24
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: EB3333021213

Lab ID#: 1302250-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022009**	**Date of Collection: 2/12/13 6:08:00 PM**	
Dil. Factor:	**1.68**	**Date of Analysis: 2/20/13 01:56 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Chloroethane	3.4	Not Detected	8.9	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
Methylene Chloride	8.4	Not Detected	29	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: EB3352021313

Lab ID#: 1302250-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022010**	**Date of Collection:**	**2/13/13 10:07:00 AM**
Dil. Factor:	**1.64**	**Date of Analysis:**	**2/20/13 02:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Chloroethane	3.3	Not Detected	8.6	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Methylene Chloride	8.2	Not Detected	28	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: EN0411D021213

Lab ID#: 1302250-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022011**	**Date of Collection: 2/12/13 1:05:00 PM**	
Dil. Factor:	**1.58**	**Date of Analysis: 2/20/13 03:13 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.79	Not Detected	2.0	Not Detected
Chloroethane	3.2	Not Detected	8.3	Not Detected
1,1-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Freon 113	0.79	Not Detected	6.0	Not Detected
Methylene Chloride	7.9	Not Detected	27	Not Detected
1,1-Dichloroethane	0.79	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.79	1.1	3.1	4.5
1,1,1-Trichloroethane	0.79	6.2	4.3	34
Trichloroethene	0.79	170	4.2	910
Tetrachloroethene	0.79	4.7	5.4	32
trans-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: EN0411S021213

Lab ID#: 1302250-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022012**	**Date of Collection: 2/12/13 1:05:00 PM**	
Dil. Factor:	**1.55**	**Date of Analysis: 2/20/13 03:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
Chloroethane	3.1	Not Detected	8.2	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Freon 113	0.78	Not Detected	5.9	Not Detected
Methylene Chloride	7.8	Not Detected	27	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
1,1,1-Trichloroethane	0.78	0.80	4.2	4.4
Trichloroethene	0.78	4.4	4.2	24
Tetrachloroethene	0.78	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	95	70-130

eurofins | Air Toxics

Client Sample ID: EN0412D021213

Lab ID#: 1302250-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022013**	**Date of Collection: 2/12/13 2:52:00 PM**	
Dil. Factor:	**1.68**	**Date of Analysis: 2/20/13 04:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Chloroethane	3.4	Not Detected	8.9	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
Methylene Chloride	8.4	Not Detected	29	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
1,1,1-Trichloroethane	0.84	2.1	4.6	11
Trichloroethene	0.84	52	4.5	280
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: EN0412S021213

Lab ID#: 1302250-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022014**	**Date of Collection: 2/12/13 2:56:00 PM**	
Dil. Factor:	**1.71**	**Date of Analysis: 2/20/13 05:08 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
Chloroethane	3.4	Not Detected	9.0	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Freon 113	0.86	Not Detected	6.6	Not Detected
Methylene Chloride	8.6	Not Detected	30	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
1,1,1-Trichloroethane	0.86	1.5	4.7	8.1
Trichloroethene	0.86	38	4.6	200
Tetrachloroethene	0.86	Not Detected	5.8	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: EN0429D021213

Lab ID#: 1302250-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022015**	**Date of Collection:**	**2/12/13 11:21:00 AM**
Dil. Factor:	**1.62**	**Date of Analysis:**	**2/20/13 05:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.81	Not Detected	2.1	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
1,1-Dichloroethene	0.81	Not Detected	3.2	Not Detected
Freon 113	0.81	Not Detected	6.2	Not Detected
Methylene Chloride	8.1	Not Detected	28	Not Detected
1,1-Dichloroethane	0.81	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.81	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.81	Not Detected	4.4	Not Detected
Trichloroethene	0.81	14	4.4	73
Tetrachloroethene	0.81	Not Detected	5.5	Not Detected
trans-1,2-Dichloroethene	0.81	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: EN0429S021213

Lab ID#: 1302250-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022016**	**Date of Collection: 2/12/13 1:40:00 PM**	
Dil. Factor:	**1.58**	**Date of Analysis: 2/20/13 06:22 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.79	Not Detected	2.0	Not Detected
Chloroethane	3.2	Not Detected	8.3	Not Detected
1,1-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Freon 113	0.79	Not Detected	6.0	Not Detected
Methylene Chloride	7.9	Not Detected	27	Not Detected
1,1-Dichloroethane	0.79	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
1,1,1-Trichloroethane	0.79	Not Detected	4.3	Not Detected
Trichloroethene	0.79	4.8	4.2	26
Tetrachloroethene	0.79	Not Detected	5.4	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: EN042S021213

Lab ID#: 1302250-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022017**	**Date of Collection:**	**2/12/13 8:47:00 AM**
Dil. Factor:	**1.63**	**Date of Analysis:**	**2/20/13 06:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Chloroethane	3.3	Not Detected	8.6	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Freon 113	0.82	Not Detected	6.2	Not Detected
Methylene Chloride	8.2	Not Detected	28	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.4	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
Tetrachloroethene	0.82	Not Detected	5.5	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: EN0430D021213

Lab ID#: 1302250-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022018**	**Date of Collection:**	**2/12/13 10:18:00 AM**
Dil. Factor:	**1.55**	**Date of Analysis:**	**2/20/13 07:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
Chloroethane	3.1	Not Detected	8.2	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Freon 113	0.78	Not Detected	5.9	Not Detected
Methylene Chloride	7.8	Not Detected	27	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.78	0.84	3.1	3.3
1,1,1-Trichloroethane	0.78	18	4.2	96
Trichloroethene	0.78	140	4.2	770
Tetrachloroethene	0.78	4.5	5.2	31
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: EN0430S021213

Lab ID#: 1302250-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022019**	**Date of Collection: 2/12/13 10:18:00 AM**	
Dil. Factor:	**1.56**	**Date of Analysis: 2/20/13 08:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
Chloroethane	3.1	Not Detected	8.2	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Freon 113	0.78	Not Detected	6.0	Not Detected
Methylene Chloride	7.8	Not Detected	27	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Trichloroethene	0.78	48	4.2	260
Tetrachloroethene	0.78	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: EN0432D021213

Lab ID#: 1302250-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022108**	**Date of Collection: 2/12/13 1:24:00 PM**	
Dil. Factor:	**1.61**	**Date of Analysis: 2/21/13 01:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.80	Not Detected	2.0	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Freon 113	0.80	Not Detected	6.2	Not Detected
Methylene Chloride	8.0	Not Detected	28	Not Detected
1,1-Dichloroethane	0.80	1.3	3.2	5.4
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.80	25	4.4	140
Trichloroethene	0.80	160	4.3	870
Tetrachloroethene	0.80	Not Detected	5.5	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: EN0432D021213 Lab Duplicate

Lab ID#: 1302250-13AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022114**	**Date of Collection: 2/12/13 1:24:00 PM**	
Dil. Factor:	**2.64**	**Date of Analysis: 2/21/13 04:55 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
Chloroethane	5.3	Not Detected	14	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Freon 113	1.3	Not Detected	10	Not Detected
Methylene Chloride	13	Not Detected	46	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
1,1,1-Trichloroethane	1.3	24	7.2	130
Trichloroethene	1.3	160	7.1	880
Tetrachloroethene	1.3	Not Detected	9.0	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: EN0432S021213

Lab ID#: 1302250-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022109**	**Date of Collection: 2/12/13 1:24:00 PM**	
Dil. Factor:	**1.60**	**Date of Analysis: 2/21/13 01:52 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.80	Not Detected	2.0	Not Detected
Chloroethane	3.2	Not Detected	8.4	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Freon 113	0.80	Not Detected	6.1	Not Detected
Methylene Chloride	8.0	Not Detected	28	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.80	1.5	4.4	8.0
Trichloroethene	0.80	21	4.3	110
Tetrachloroethene	0.80	Not Detected	5.4	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: EN0432S021213 Lab Duplicate

Lab ID#: 1302250-14AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022115**	**Date of Collection: 2/12/13 1:24:00 PM**	
Dil. Factor:	**2.69**	**Date of Analysis: 2/21/13 05:32 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Freon 113	1.3	Not Detected	10	Not Detected
Methylene Chloride	13	Not Detected	47	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.4	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
1,1,1-Trichloroethane	1.3	1.6	7.3	8.6
Trichloroethene	1.3	22	7.2	120
Tetrachloroethene	1.3	Not Detected	9.1	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: EN1017D021213

Lab ID#: 1302250-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022110**	**Date of Collection: 2/12/13 4:55:00 PM**	
Dil. Factor:	**1.61**	**Date of Analysis: 2/21/13 02:29 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.80	Not Detected	2.0	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Freon 113	0.80	Not Detected	6.2	Not Detected
Methylene Chloride	8.0	Not Detected	28	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.80	3.8	3.2	15
1,1,1-Trichloroethane	0.80	50	4.4	270
Trichloroethene	0.80	62	4.3	330
Tetrachloroethene	0.80	Not Detected	5.5	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: EN1041D021313

Lab ID#: 1302250-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022111**	**Date of Collection: 2/13/13 8:46:00 AM**	
Dil. Factor:	**1.62**	**Date of Analysis: 2/21/13 03:05 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.81	Not Detected	2.1	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
1,1-Dichloroethene	0.81	Not Detected	3.2	Not Detected
Freon 113	0.81	Not Detected	6.2	Not Detected
Methylene Chloride	8.1	Not Detected	28	Not Detected
1,1-Dichloroethane	0.81	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.81	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.81	Not Detected	4.4	Not Detected
Trichloroethene	0.81	1.8	4.4	9.6
Tetrachloroethene	0.81	4.0	5.5	27
trans-1,2-Dichloroethene	0.81	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: EN1041S021313

Lab ID#: 1302250-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022112**	**Date of Collection: 2/13/13 8:39:00 AM**	
Dil. Factor:	**1.75**	**Date of Analysis: 2/21/13 03:42 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.88	Not Detected	2.2	Not Detected
Chloroethane	3.5	Not Detected	9.2	Not Detected
1,1-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Freon 113	0.88	Not Detected	6.7	Not Detected
Methylene Chloride	8.8	Not Detected	30	Not Detected
1,1-Dichloroethane	0.88	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
1,1,1-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Trichloroethene	0.88	Not Detected	4.7	Not Detected
Tetrachloroethene	0.88	6.5	5.9	44
trans-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: EN042D021213

Lab ID#: 1302250-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022113**	**Date of Collection: 2/12/13 8:48:00 AM**	
Dil. Factor:	**1.62**	**Date of Analysis: 2/21/13 04:18 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.81	Not Detected	2.1	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
1,1-Dichloroethene	0.81	Not Detected	3.2	Not Detected
Freon 113	0.81	Not Detected	6.2	Not Detected
Methylene Chloride	8.1	Not Detected	28	Not Detected
1,1-Dichloroethane	0.81	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.81	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.81	2.4	4.4	13
Trichloroethene	0.81	18	4.4	96
Tetrachloroethene	0.81	2.6	5.5	18
trans-1,2-Dichloroethene	0.81	Not Detected	3.2	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1302250-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022007**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/20/13 12:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1302250-19B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/21/13 12:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: CCV

Lab ID#: 1302250-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/20/13 09:56 AM**	

Compound	%Recovery
Vinyl Chloride	94
Chloroethane	88
1,1-Dichloroethene	99
Freon 113	96
Methylene Chloride	83
1,1-Dichloroethane	93
cis-1,2-Dichloroethene	94
1,1,1-Trichloroethane	93
Trichloroethene	95
Tetrachloroethene	91
trans-1,2-Dichloroethene	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: CCV

Lab ID#: 1302250-20B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/21/13 09:09 AM**	

Compound	**%Recovery**
Vinyl Chloride	91
Chloroethane	97
1,1-Dichloroethene	96
Freon 113	95
Methylene Chloride	82
1,1-Dichloroethane	92
cis-1,2-Dichloroethene	94
1,1,1-Trichloroethane	92
Trichloroethene	93
Tetrachloroethene	86
trans-1,2-Dichloroethene	94

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 1302250-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/20/13 10:32 AM**	

Compound	%Recovery
Vinyl Chloride	98
Chloroethane	90
1,1-Dichloroethene	106
Freon 113	101
Methylene Chloride	86
1,1-Dichloroethane	96
cis-1,2-Dichloroethene	99
1,1,1-Trichloroethane	98
Trichloroethene	95
Tetrachloroethene	93
trans-1,2-Dichloroethene	110

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 1302250-21AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022005**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/20/13 11:12 AM**	

Compound	%Recovery
Vinyl Chloride	96
Chloroethane	87
1,1-Dichloroethene	105
Freon 113	100
Methylene Chloride	84
1,1-Dichloroethane	96
cis-1,2-Dichloroethene	97
1,1,1-Trichloroethane	96
Trichloroethene	97
Tetrachloroethene	97
trans-1,2-Dichloroethene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCS

Lab ID#: 1302250-21B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/21/13 09:47 AM**	

Compound	**%Recovery**
Vinyl Chloride	99
Chloroethane	90
1,1-Dichloroethene	106
Freon 113	101
Methylene Chloride	85
1,1-Dichloroethane	96
cis-1,2-Dichloroethene	98
1,1,1-Trichloroethane	99
Trichloroethene	95
Tetrachloroethene	93
trans-1,2-Dichloroethene	109

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCSD

Lab ID#: 1302250-21BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**o022104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/21/13 10:24 AM**	

Compound	**%Recovery**
Vinyl Chloride	97
Chloroethane	90
1,1-Dichloroethene	105
Freon 113	99
Methylene Chloride	88
1,1-Dichloroethane	95
cis-1,2-Dichloroethene	98
1,1,1-Trichloroethane	98
Trichloroethene	96
Tetrachloroethene	95
trans-1,2-Dichloroethene	110

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	100	70-130