8976 Wellington Road
Manassas, VA 20109

April 23, 2014

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 2014
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 (transmittal only)
B. Callaghan, NYSDOH – Troy
C. Edwards, Broome County Health Department
C. Pelto, EIT

SANBORN HEAD

Building Trust. Engineering Success.

Mr. Kevin Whalen
IBM Corporate Environmental Affairs
8976 Wellington Road
Manassas, VA 20109

April 22, 2013
File No. 2755.07

Re: Semiannual Data Report
Soil Vapor Monitoring Through February 2014
Comprehensive Operations, Maintenance, and Monitoring Program
Endicott, New York

Dear Mr. Whalen:

This letter is intended to transmit data recorded during completion of the routine soil vapor monitoring program through February 2014 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 2013[1], a limited sampling has been conducted in February 2014 in accordance with the monitoring program approved through a February 2012 letter from NYSDEC. 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 monitoring location in the southern area where groundwater concentrations have recently declined substantially;
- EN04-2: a monitoring location centrally located in the largest ventilation area in the vicinity of increased groundwater extraction and injection activities; and
- EN10-41: a monitoring location within OU#4, the Ideal Cleaners Remediation Area.

A location plan and time series plots depicting the history of groundwater and soil vapor observations for TCE are included on the enclosed 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 2014.

[1] Sanborn Head, November 11, 2013, Annual Report – Soil Vapor Monitoring Through August 2013, Comprehensive Operations, Maintenance, and Monitoring Program, Endicott, New York.

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

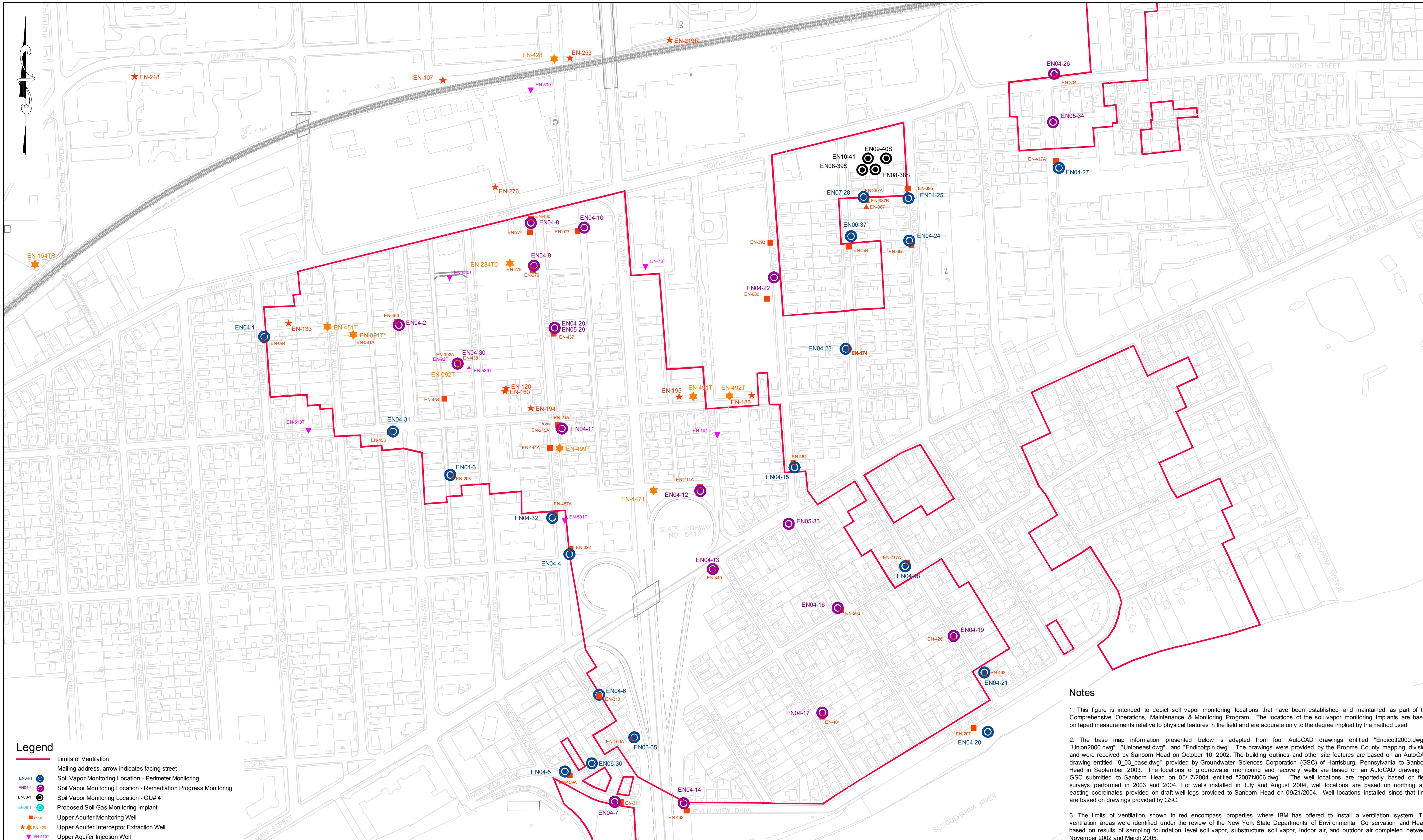
EMB/LJJ/DBC: emb

Encl. Attachment A – Exploration Location Plan
Attachment B – Time Series Plots
Attachment C – Analytical Laboratory Reports

\\porserv1\DataShare\DATA\PORDATA\2700s\2755.07\Source Files\April 2014 Semiannual Report\20140422_Semi Rpt Ltr.docx

ATTACHMENT A

Exploration Location Plan



Legend

- Limits of Ventilation
- Mailing address, arrow indicates facing street
- EN04-1 — Soil Vapor Monitoring Location - Perimeter Monitoring
- EN04-1 — Soil Vapor Monitoring Location - Remediation Progress Monitoring
- EN08-1 — Soil Vapor Monitoring Location - OU# 4
- EN09-1 — Proposed Soil Gas Monitoring Implant
- EN430 — Upper Aquifer Monitoring Well
- EN-428 — Upper Aquifer Interceptor Extraction Well
- EN-510T — Upper Aquifer Injection Well

Notes

1. This figure is intended to depict soil vapor monitoring locations that have been established and maintained as part of the Comprehensive Operations, Maintenance & Monitoring Program. The locations of the soil vapor monitoring implants are based on taped measurements relative to physical features in the field and are accurate only to the degree implied by the method used.

2. The base map information presented below is adapted from four AutoCAD drawings entitled "Endicott2000.dwg", "Union2000.dwg", "Unioneast.dwg", and "Endicottpln.dwg". The drawings were provided by the Broome County mapping division and were received by Sanborn Head on October 10, 2002. The building outlines and other site features are based on an AutoCAD drawing entitled "9_03_base.dwg" provided by Groundwater Sciences Corporation (GSC) of Harrisburg, Pennsylvania to Sanborn Head in September 2003. The locations of groundwater monitoring and recovery wells are based on an AutoCAD drawing by GSC submitted to Sanborn Head on 05/17/2004 entitled "2007N006.dwg". The well locations are reportedly based on field surveys performed in 2003 and 2004. For wells installed in July and August 2004, well locations are based on northing and easting coordinates provided on draft well logs provided to Sanborn Head on 09/21/2004. Well locations installed since that time are based on drawings provided by GSC.

3. The limits of ventilation shown in red encompass properties where IBM has offered to install a ventilation system. The ventilation areas were identified under the review of the New York State Departments of Environmental Conservation and Health based on results of sampling foundation level soil vapor, substructure soil vapor, indoor air, and outdoor air completed between November 2002 and March 2005.

SANBORN HEAD

GRAPHICAL SCALE
200' 100' 0 200' 400'

NO.	DATE	DESCRIPTION	BY

DRAWN BY: E. Wright
DESIGNED BY: E. Bradstreet
REVIEWED BY: D. Carr
PROJECT MGR: E. Bradstreet
PIC: D. Carr
DATE: April 2014

Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance & Monitoring Program
Endicott, New York

Exploration Location Plan

PROJECT NUMBER: 2755.07

FIGUE NUMBER: 1

ATTACHMENT B

Time Series Plots

Figure A.1
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

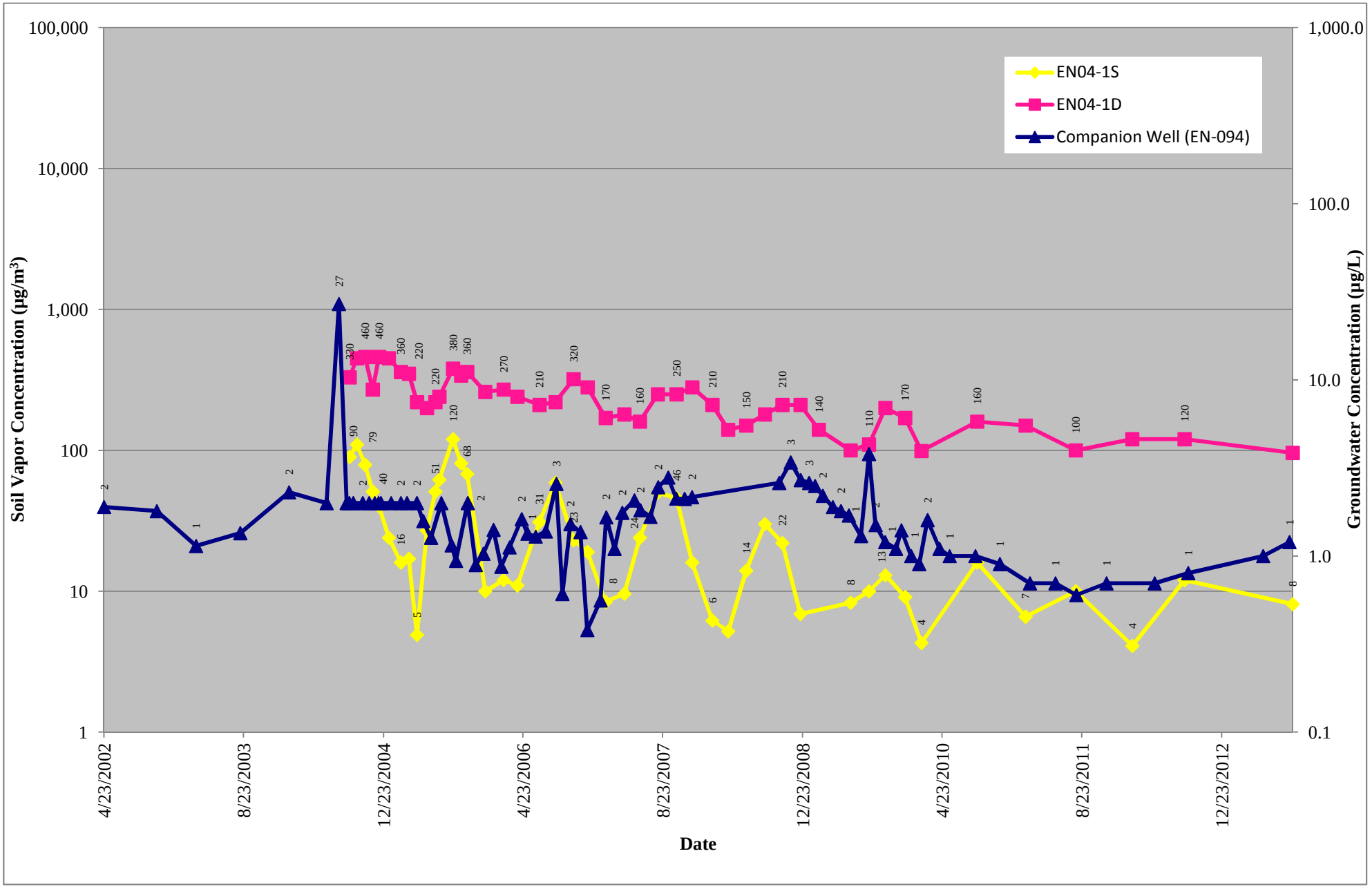


Figure A.2
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

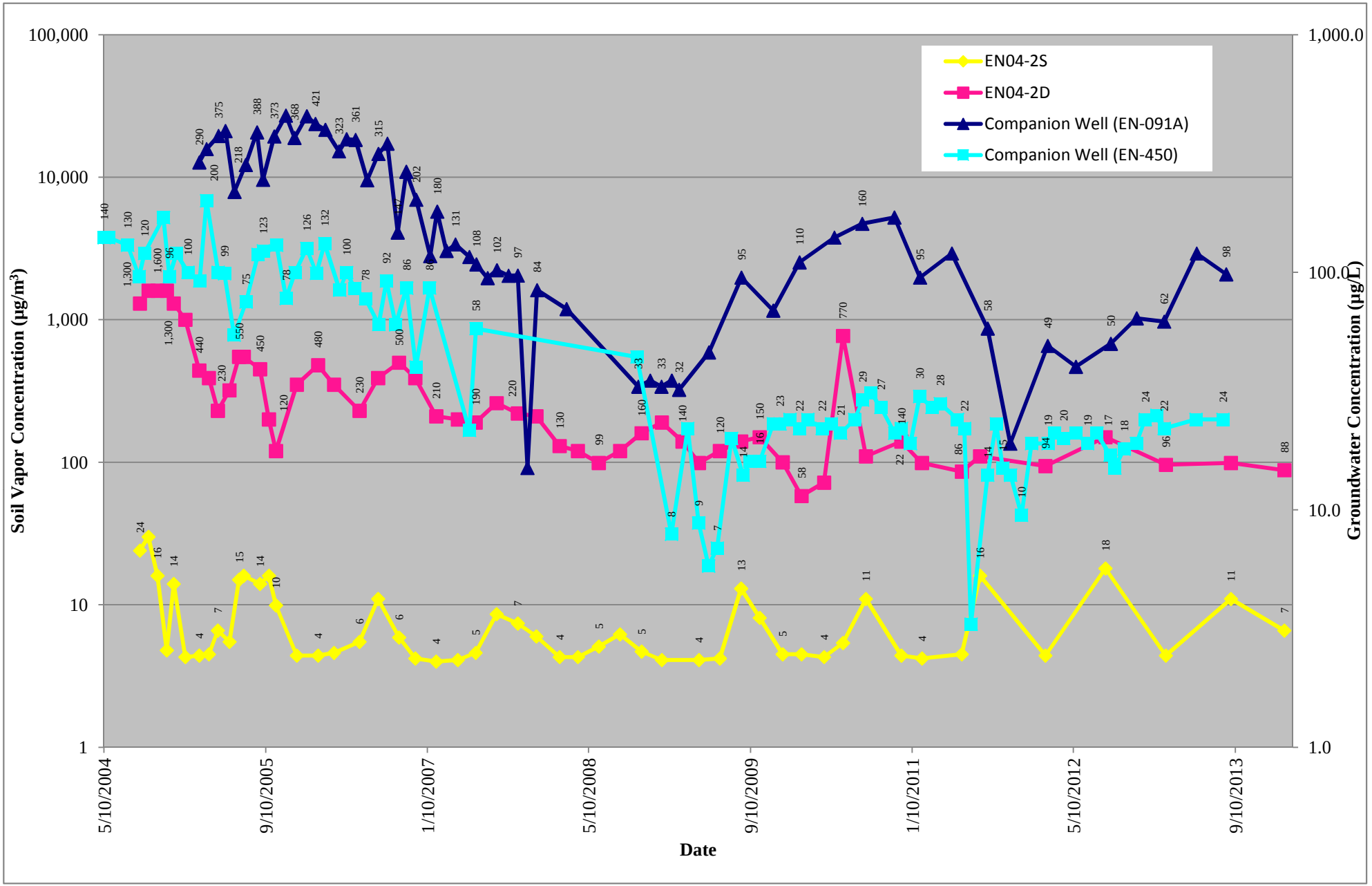


Figure A.3
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

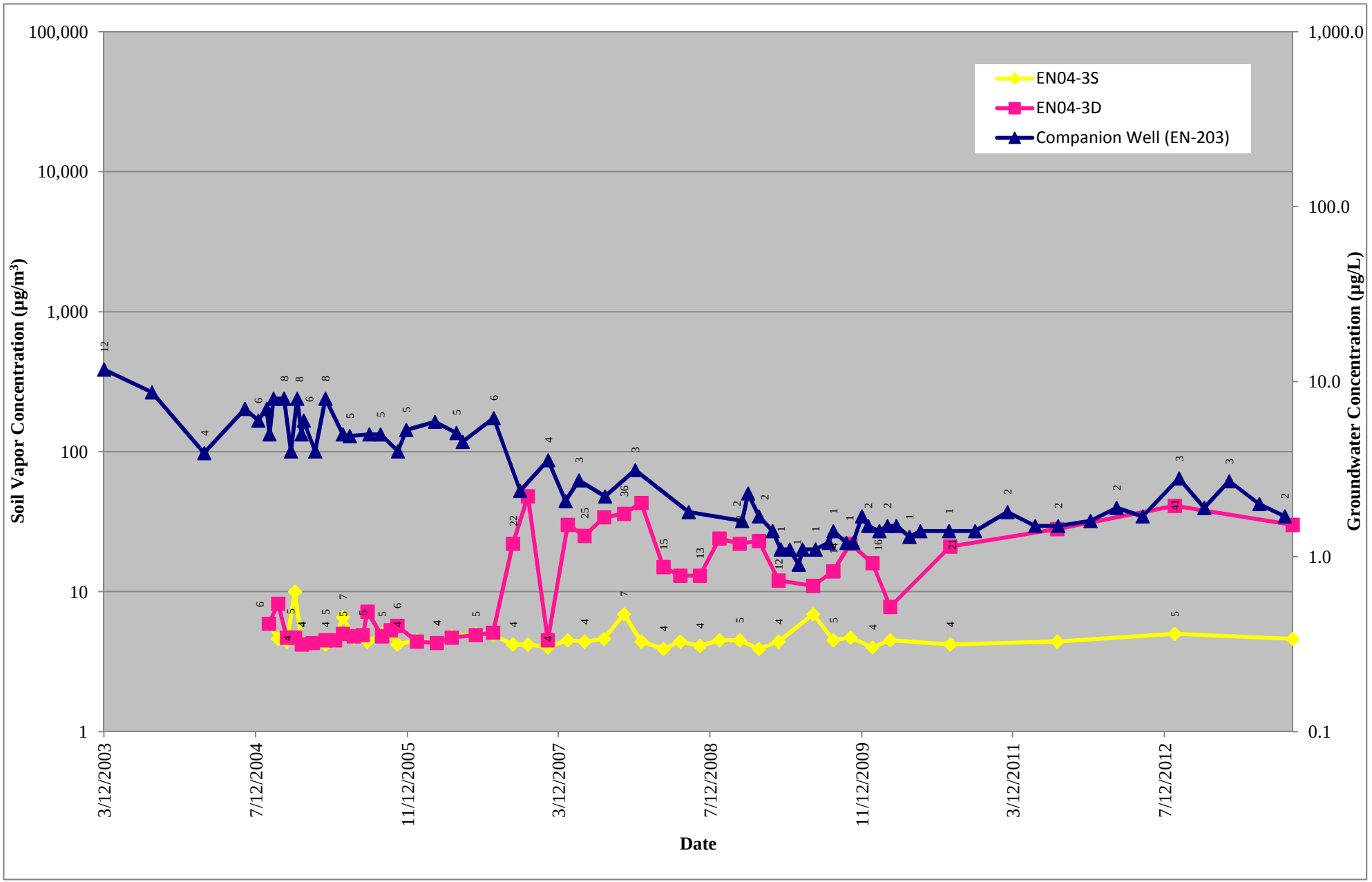


Figure A.4
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

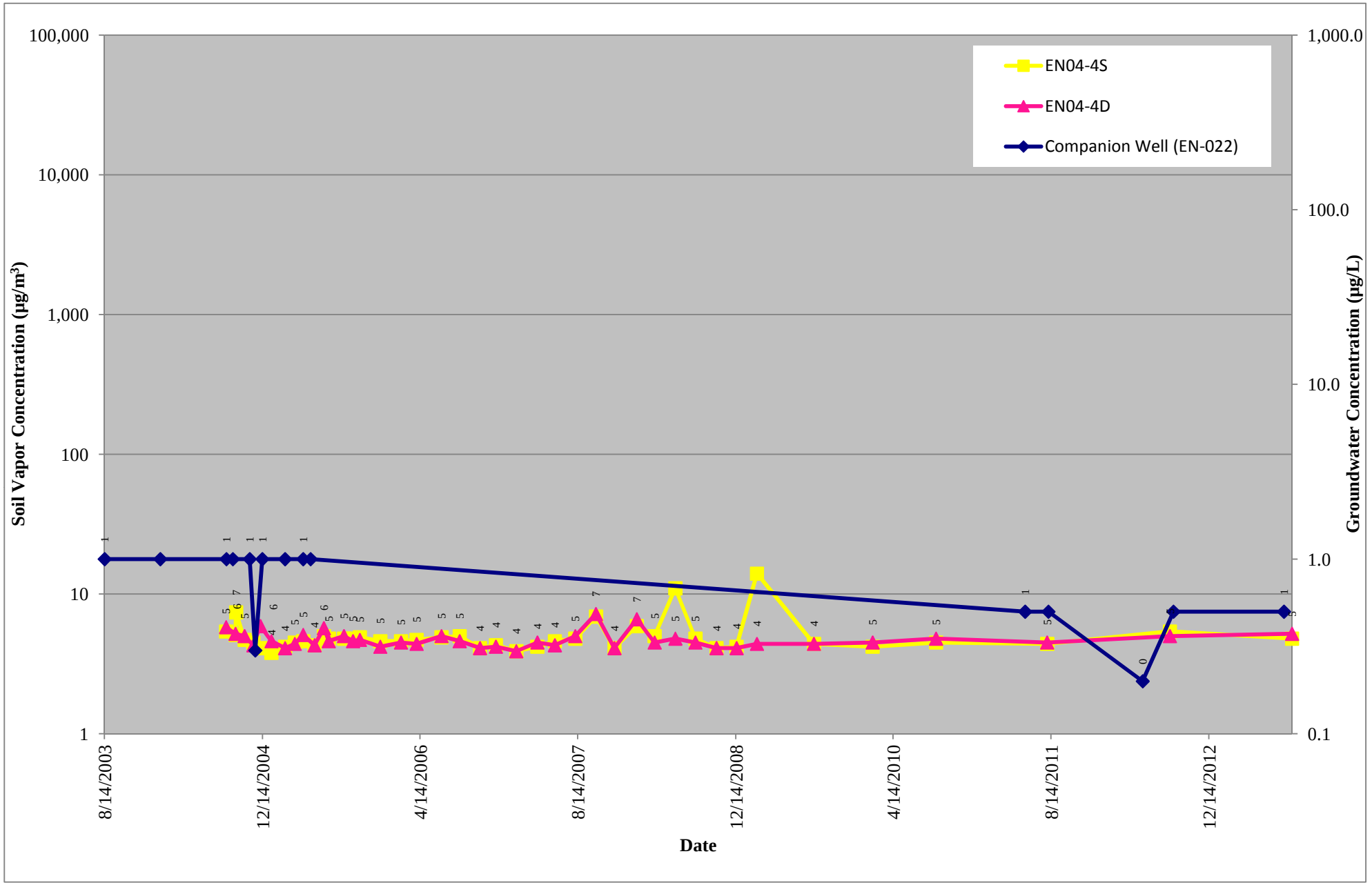


Figure A.5
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

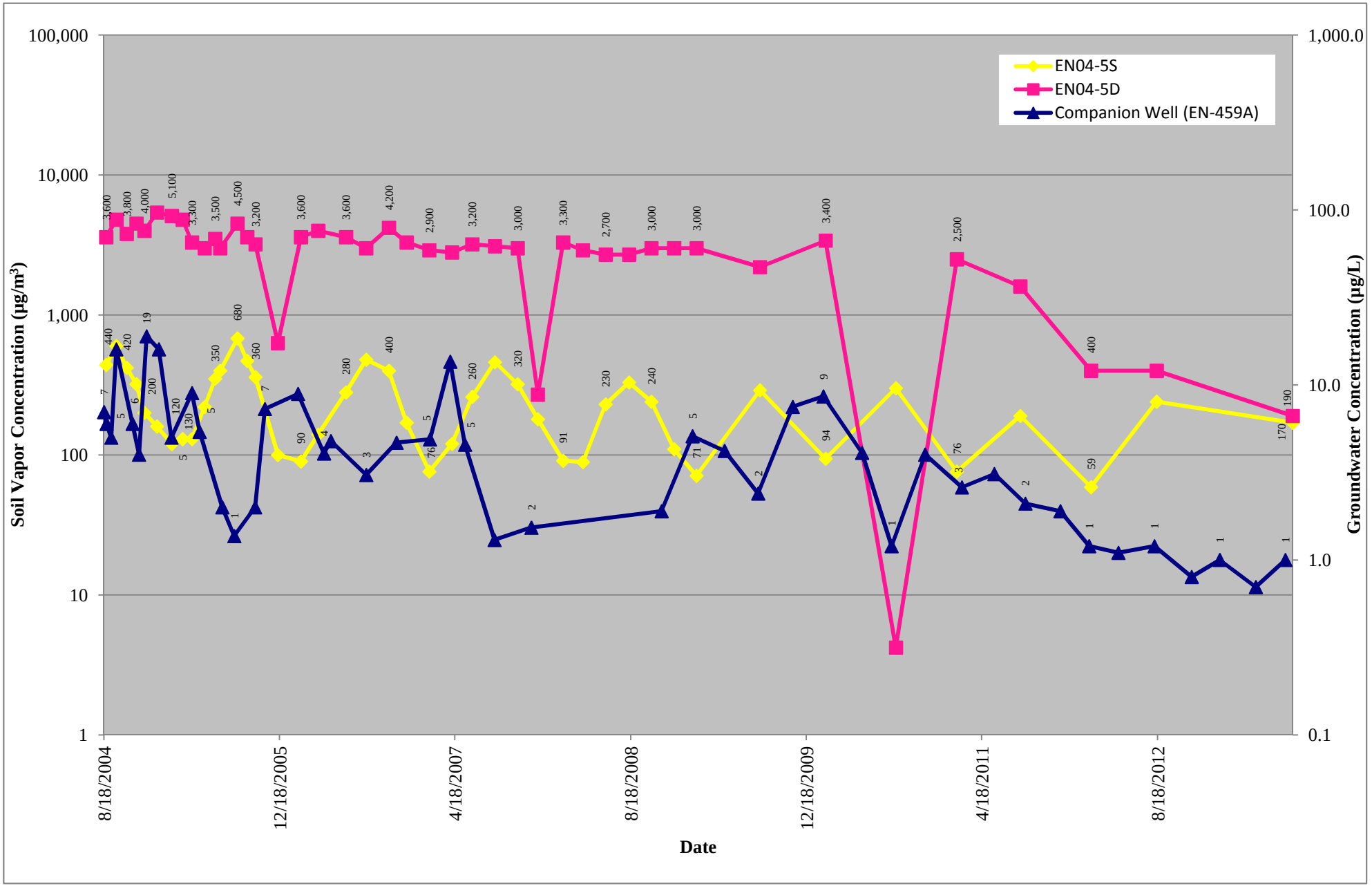


Figure A.6
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

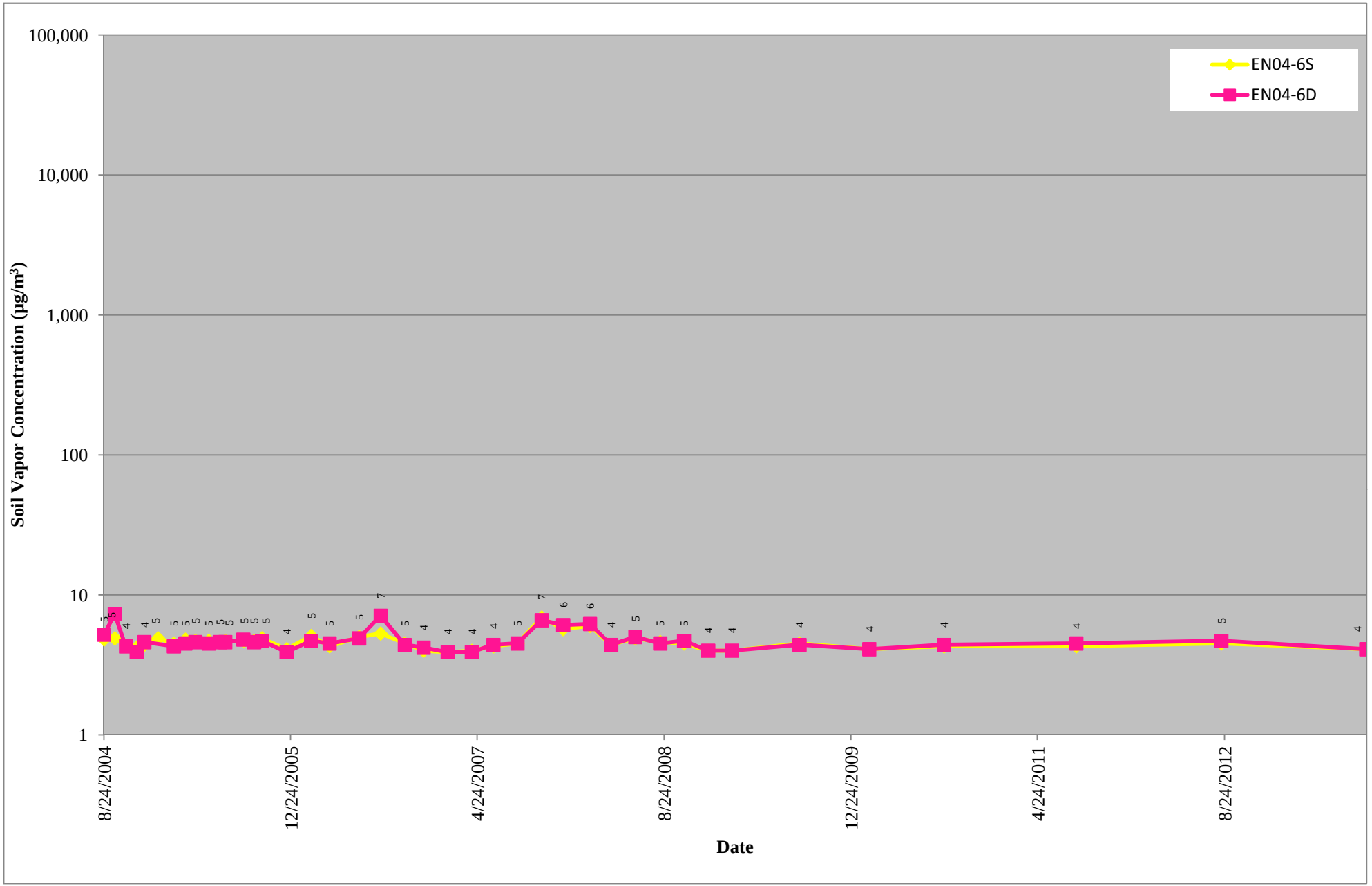


Figure A.7
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

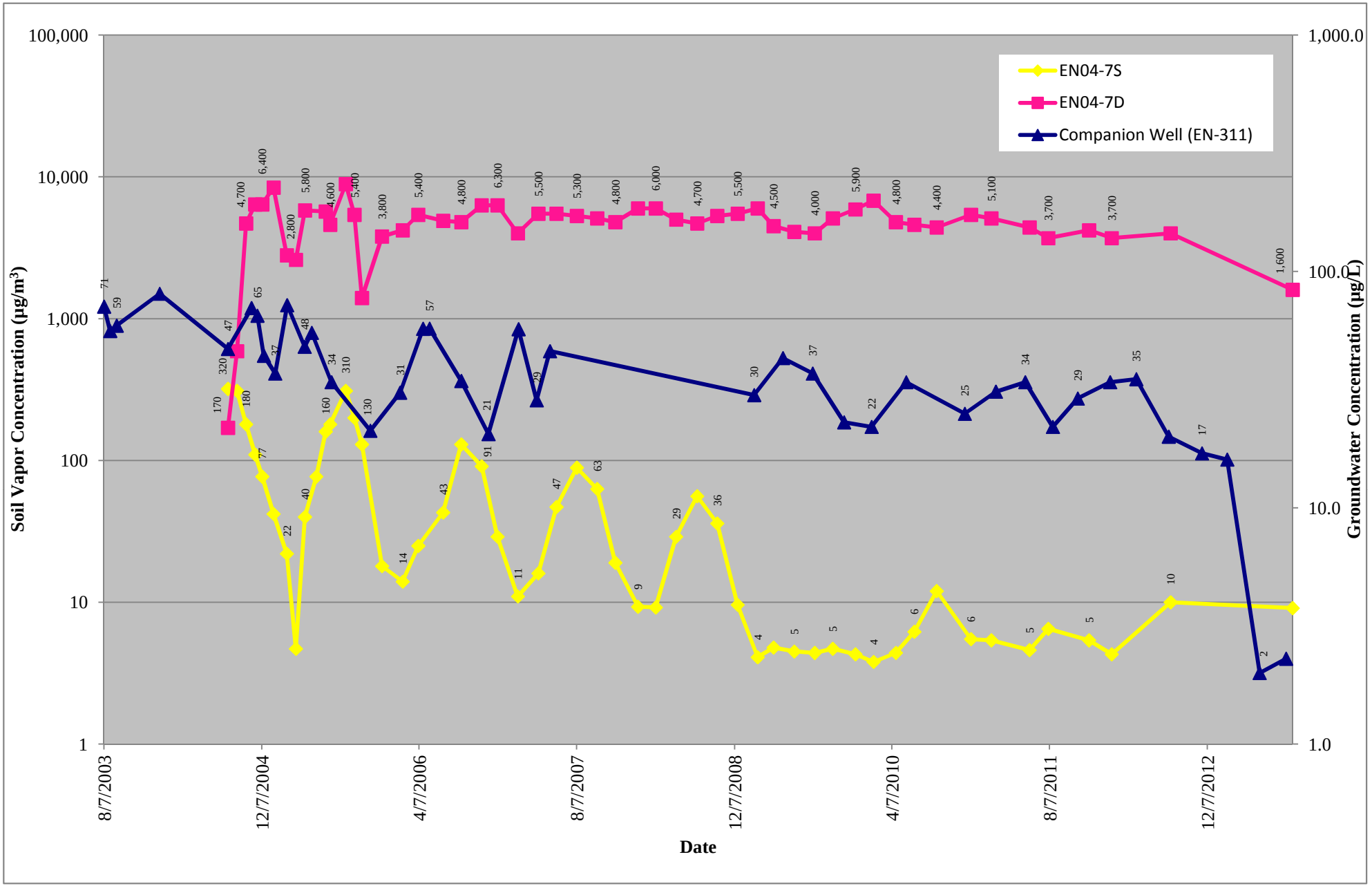


Figure A.8
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

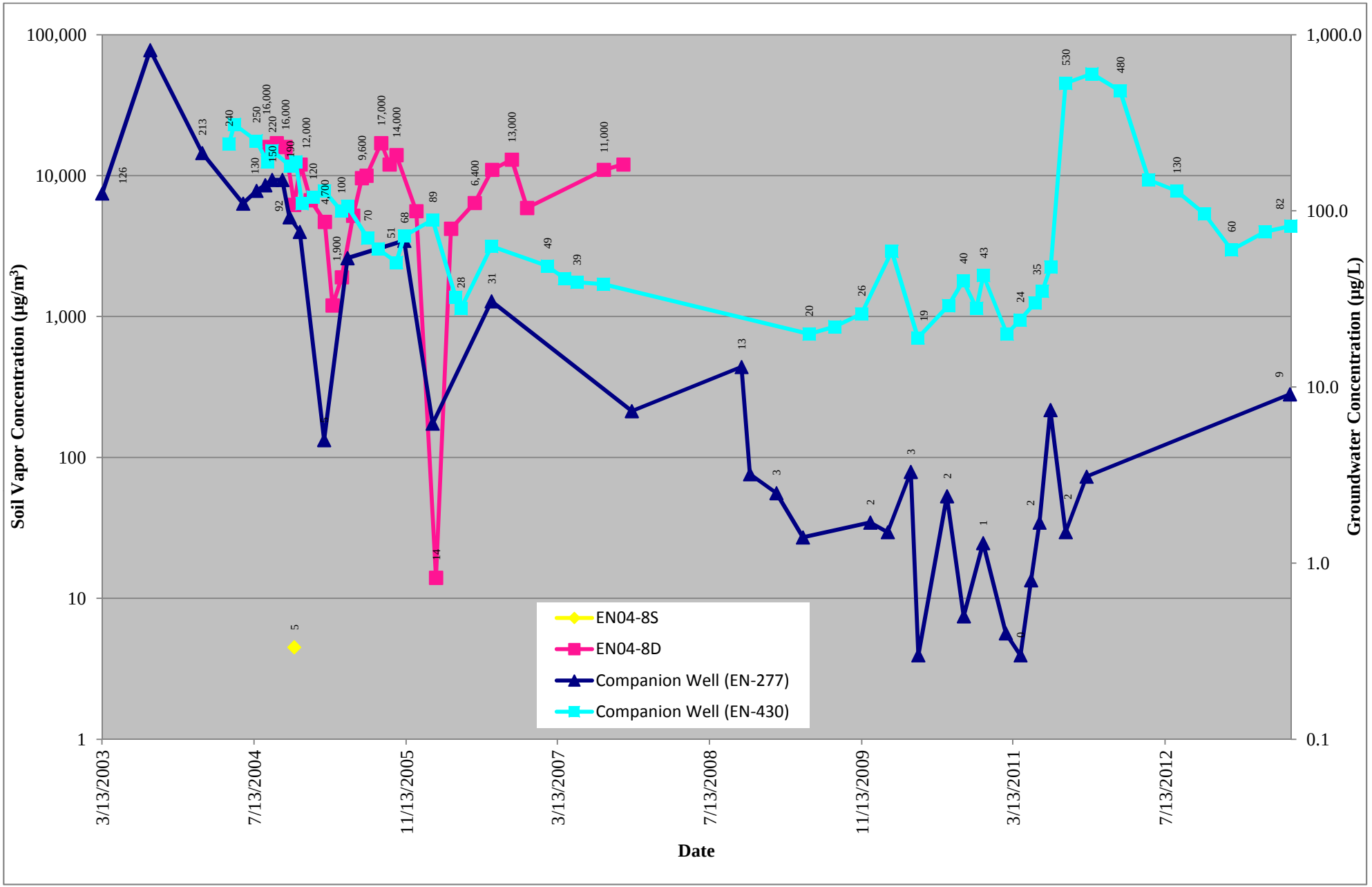


Figure A.9
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

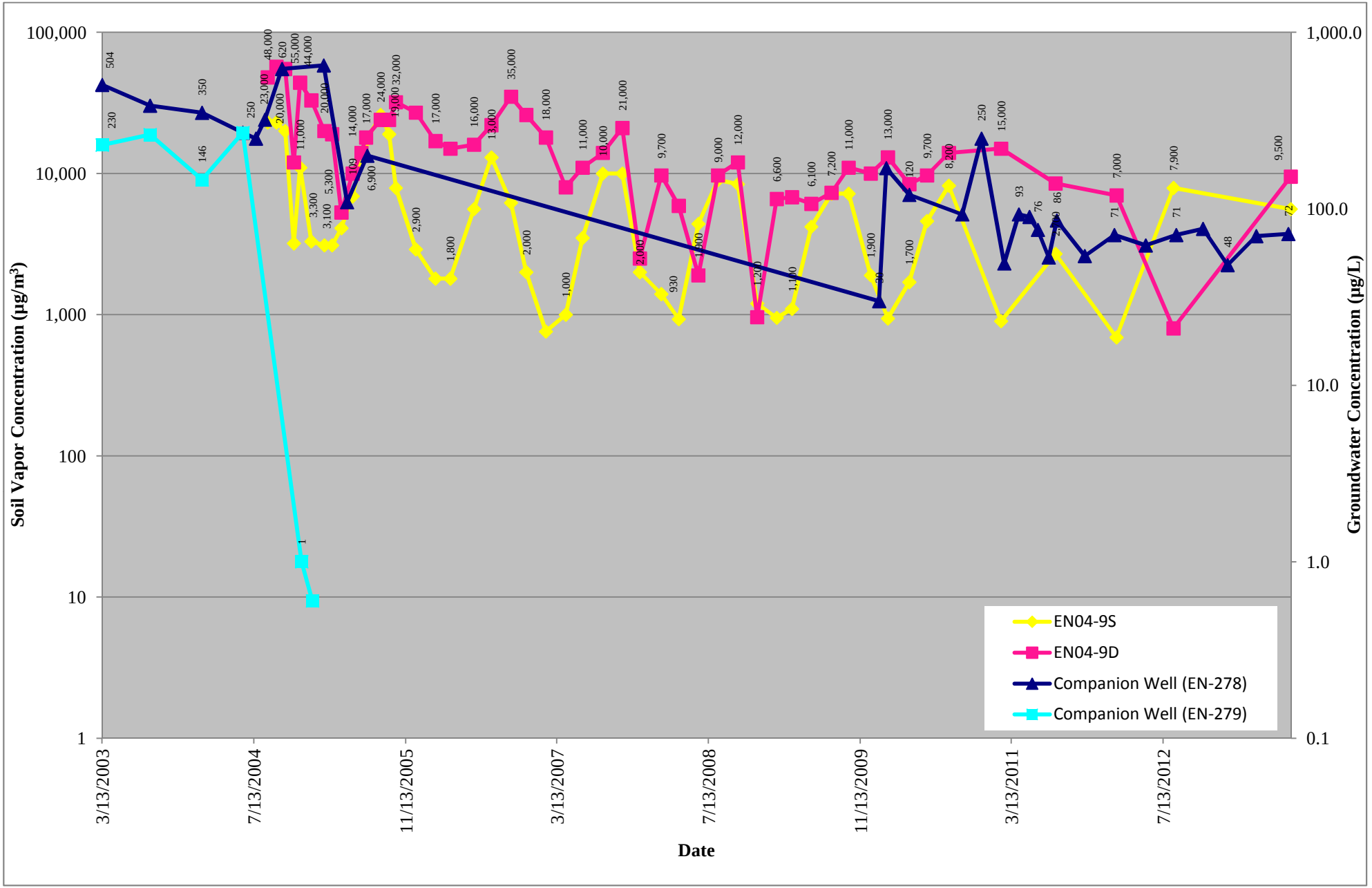


Figure A.10
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

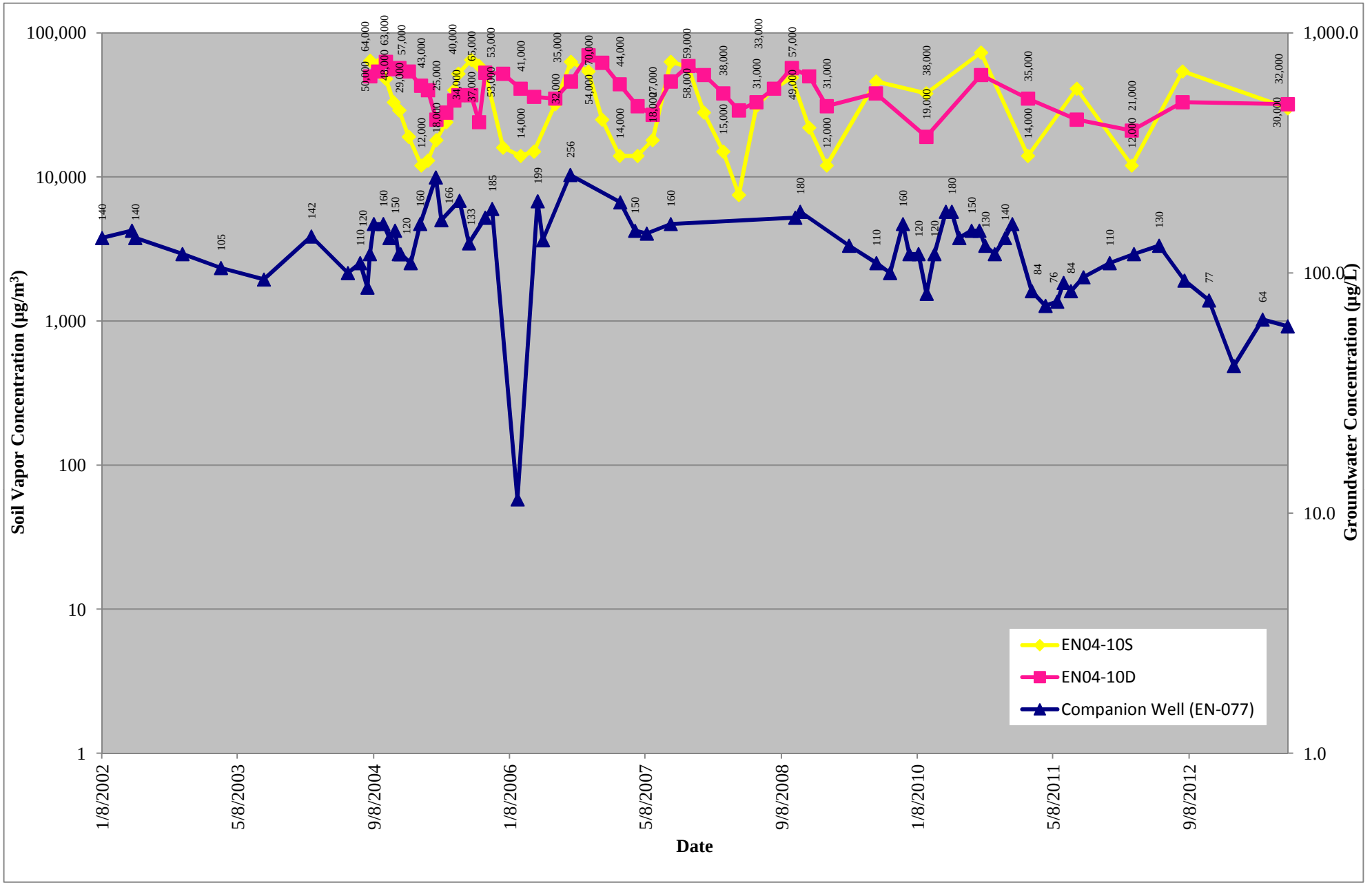


Figure A.11
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

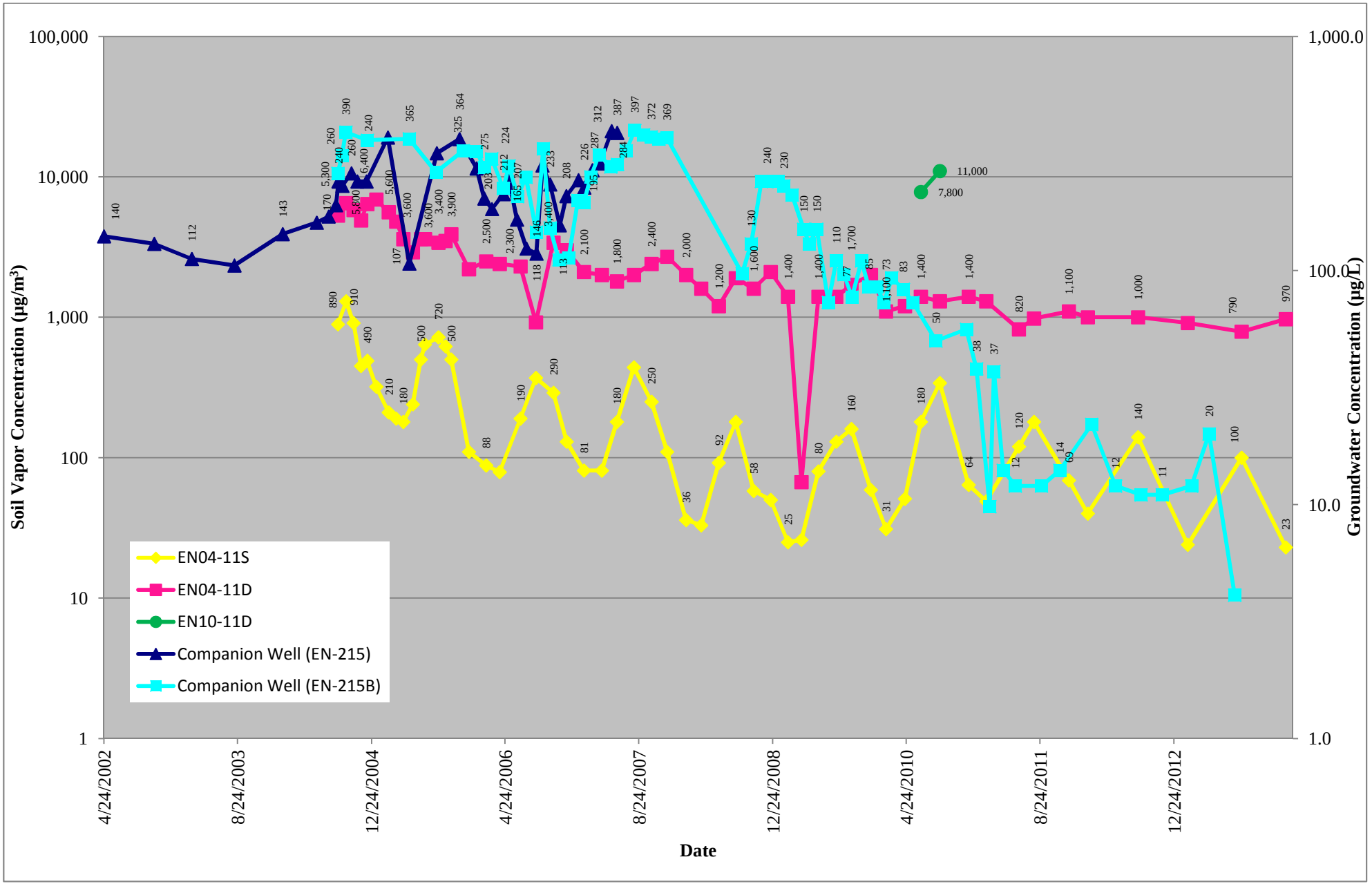


Figure A.12
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

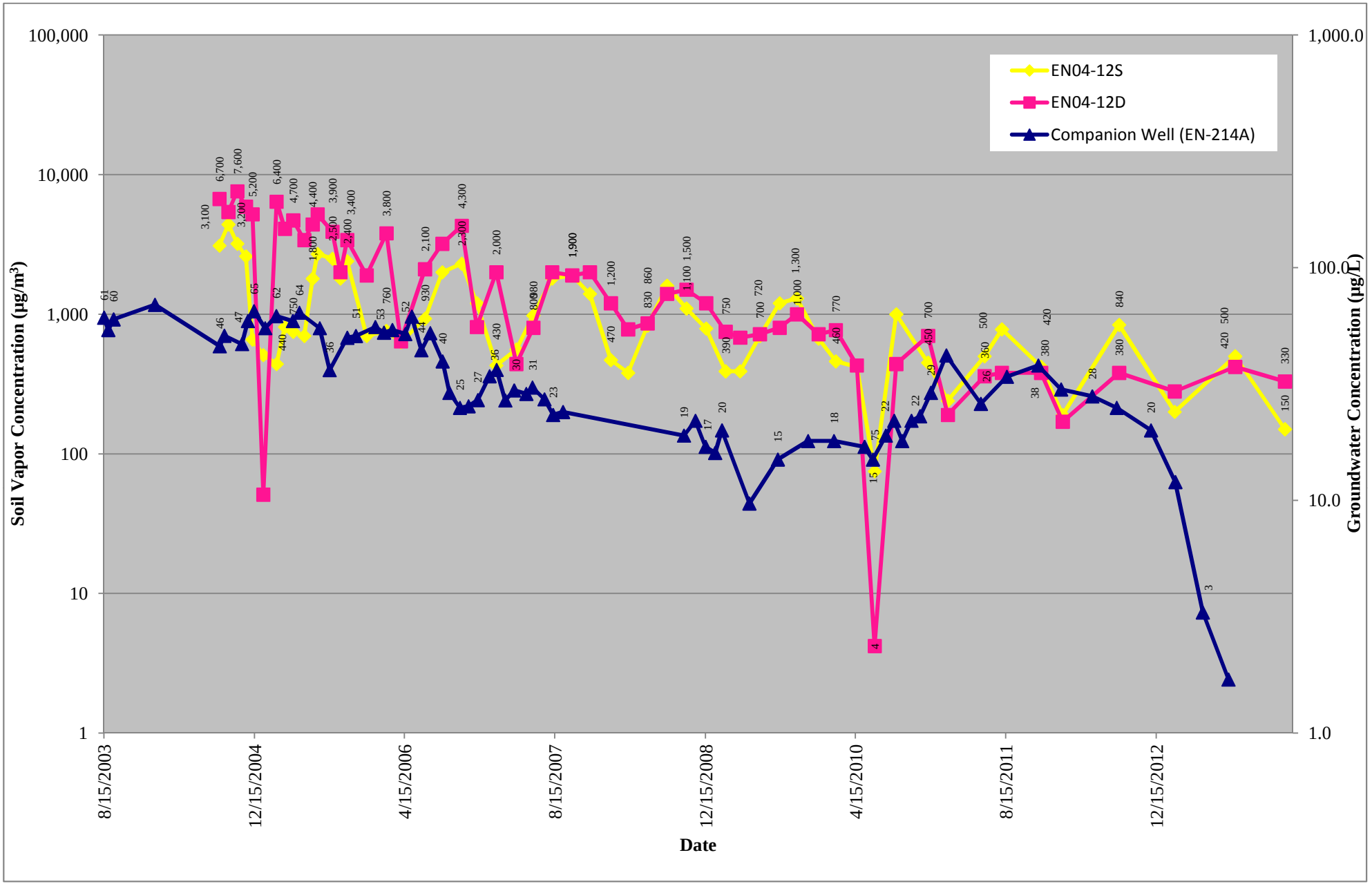


Figure A.13
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

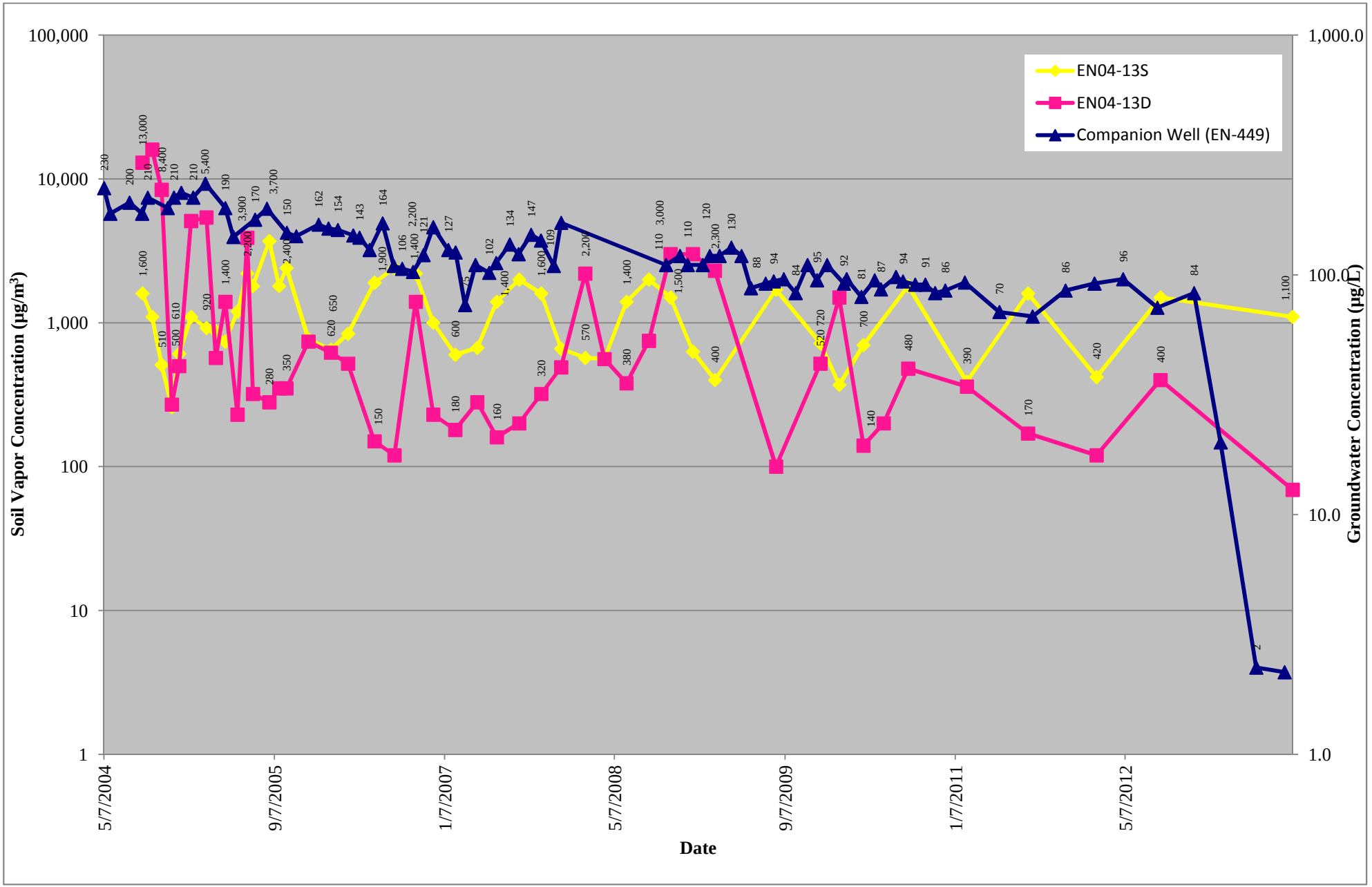


Figure A.14
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

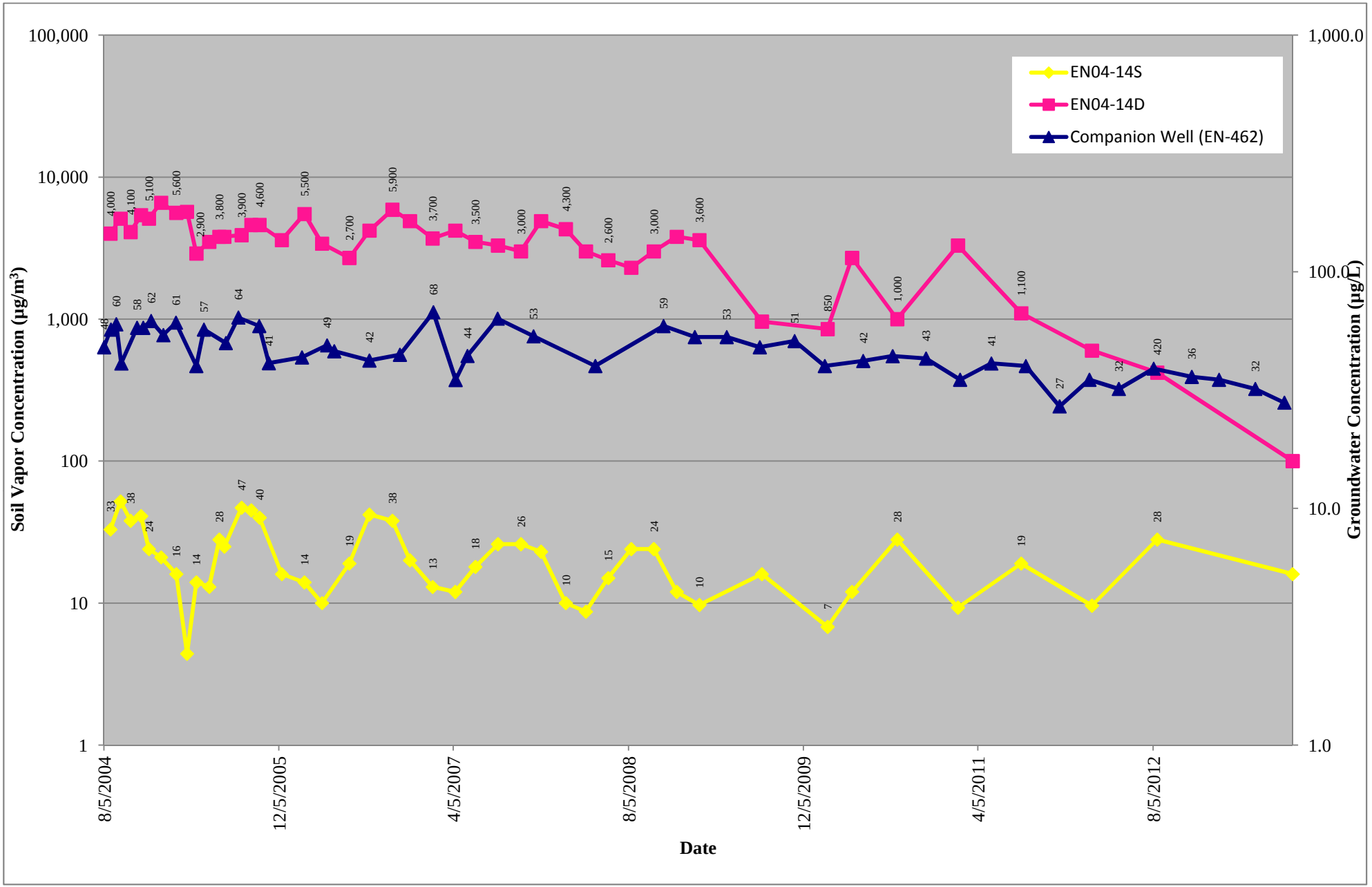


Figure A.15
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

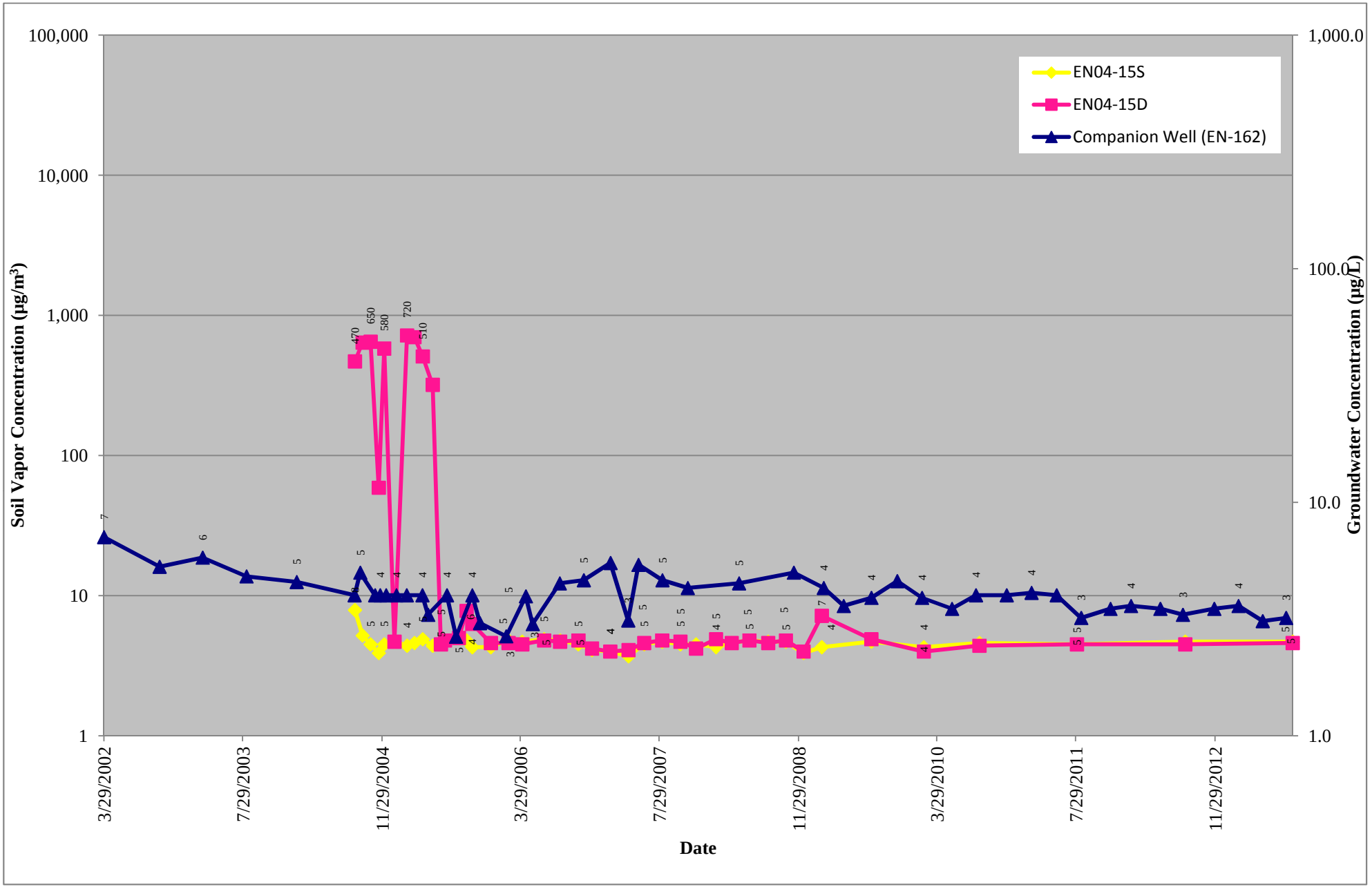


Figure A.16
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

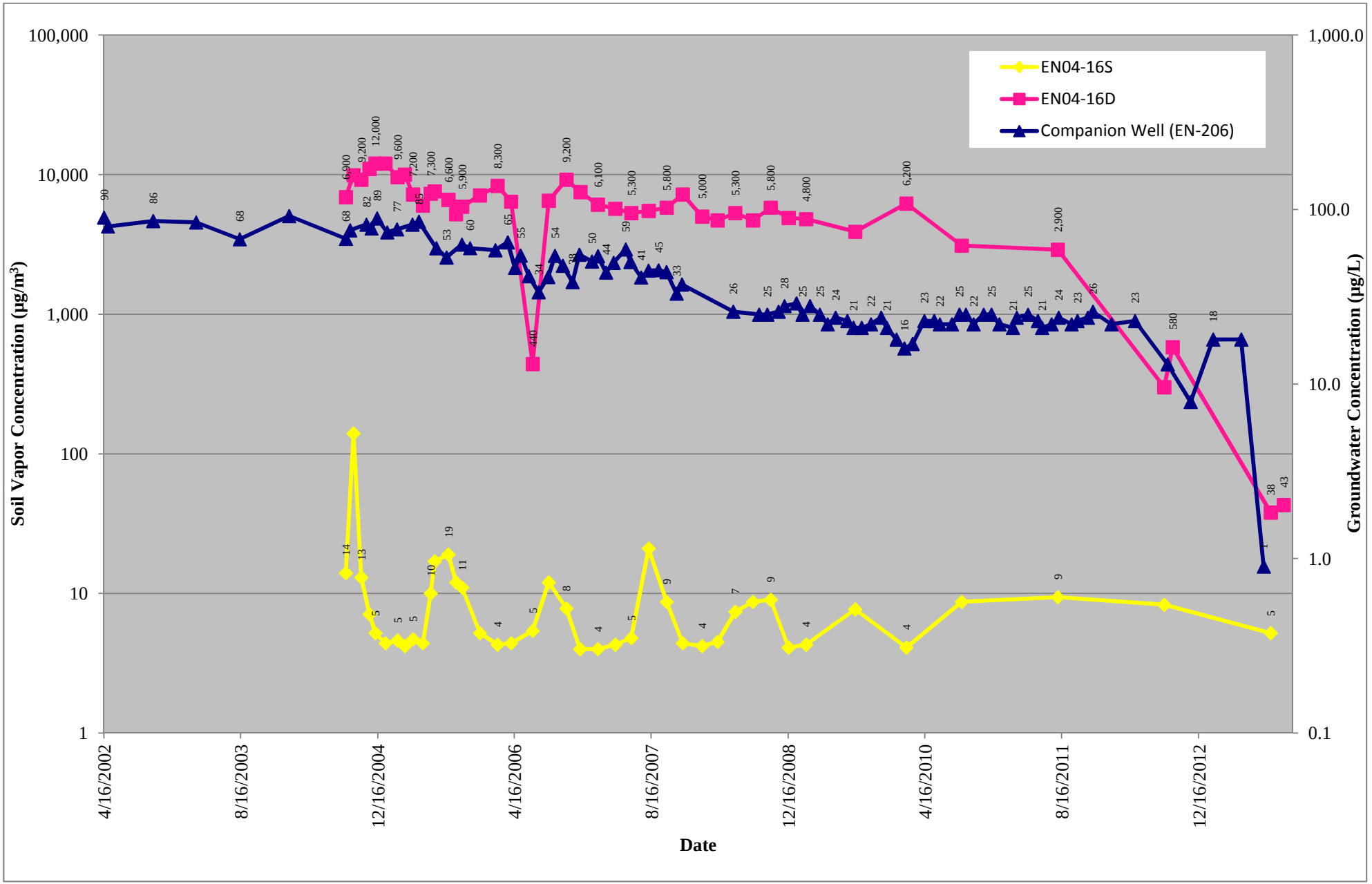


Figure A.17
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

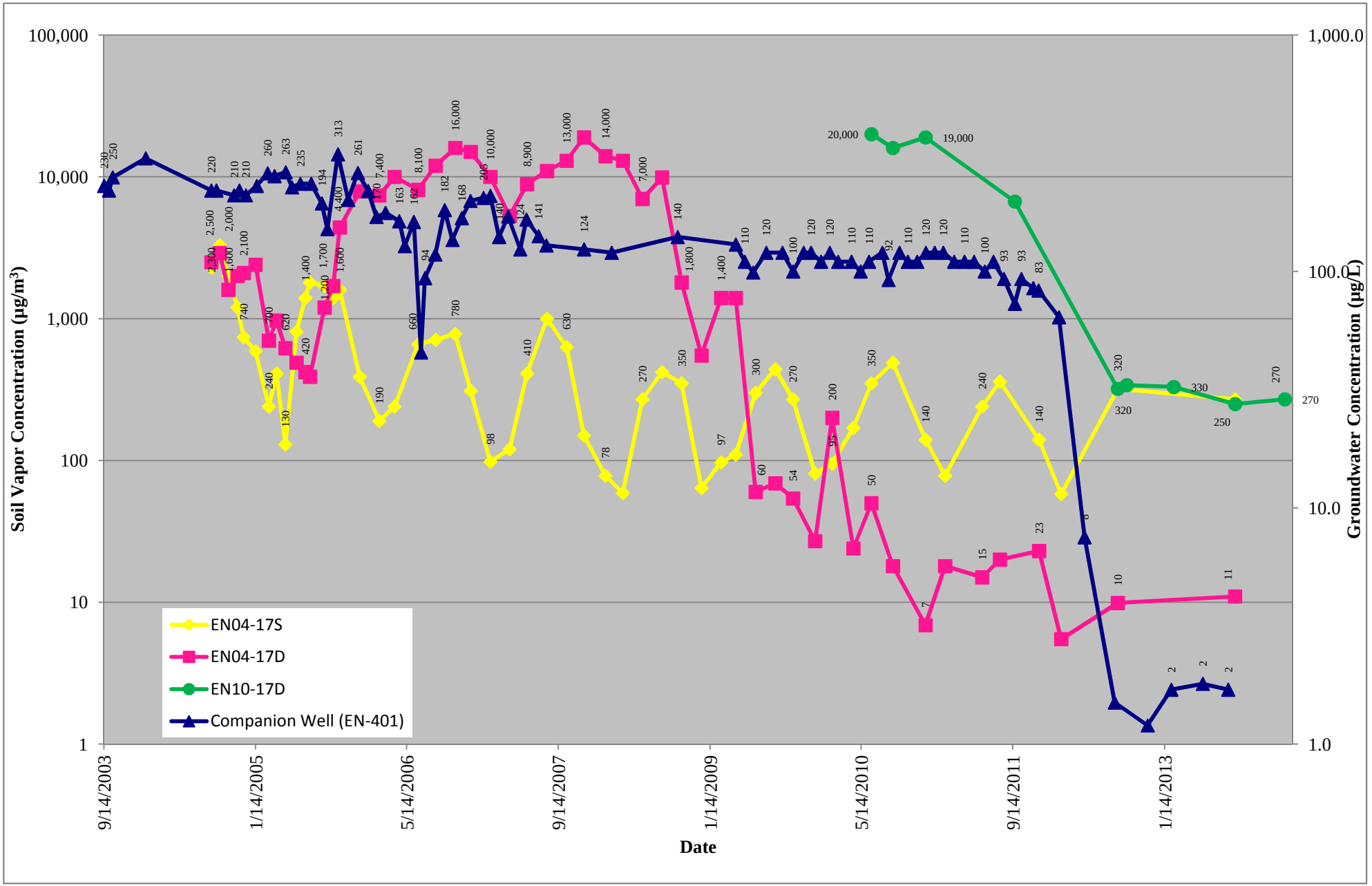


Figure A.18
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

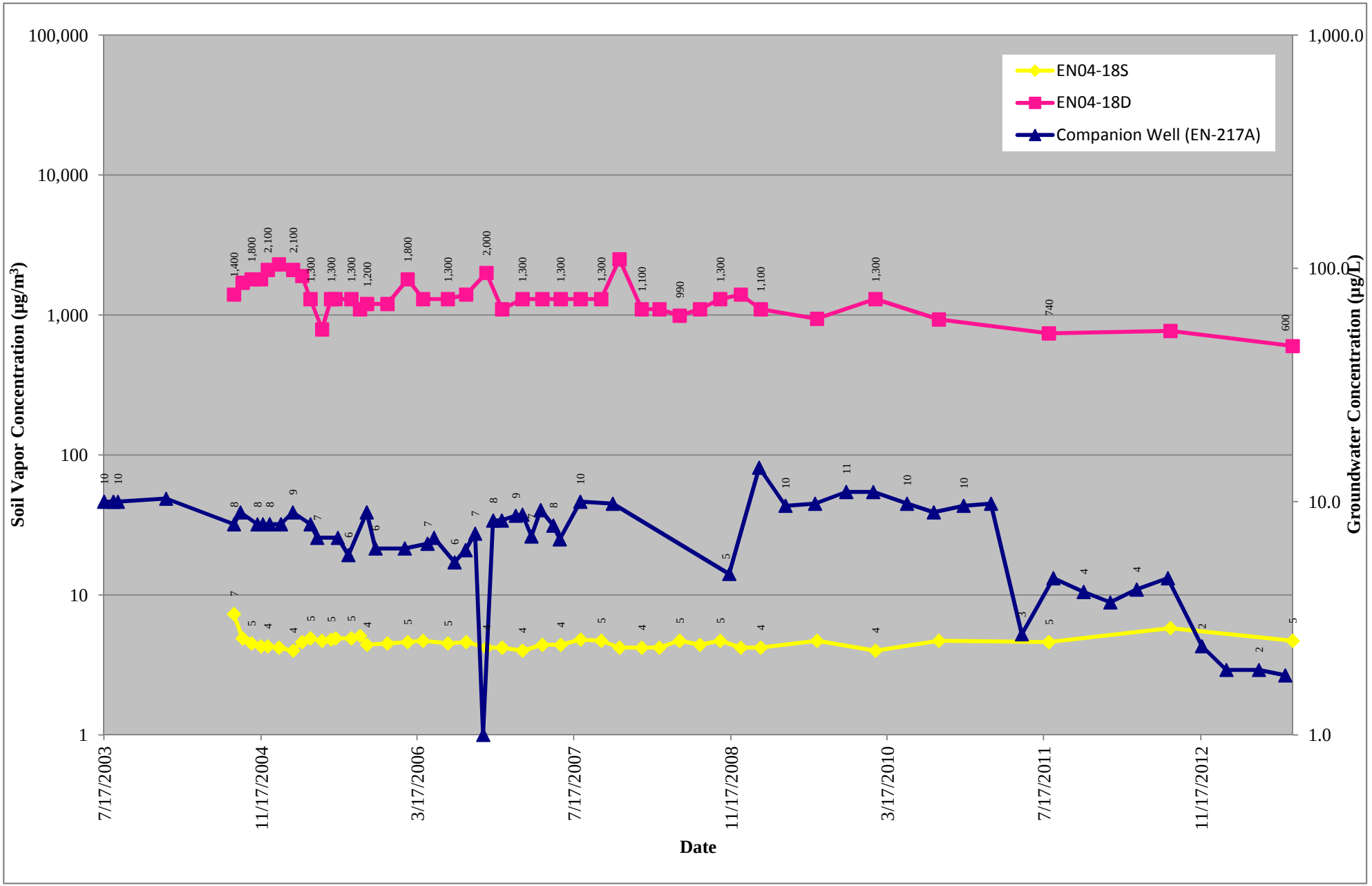


Figure A.19
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

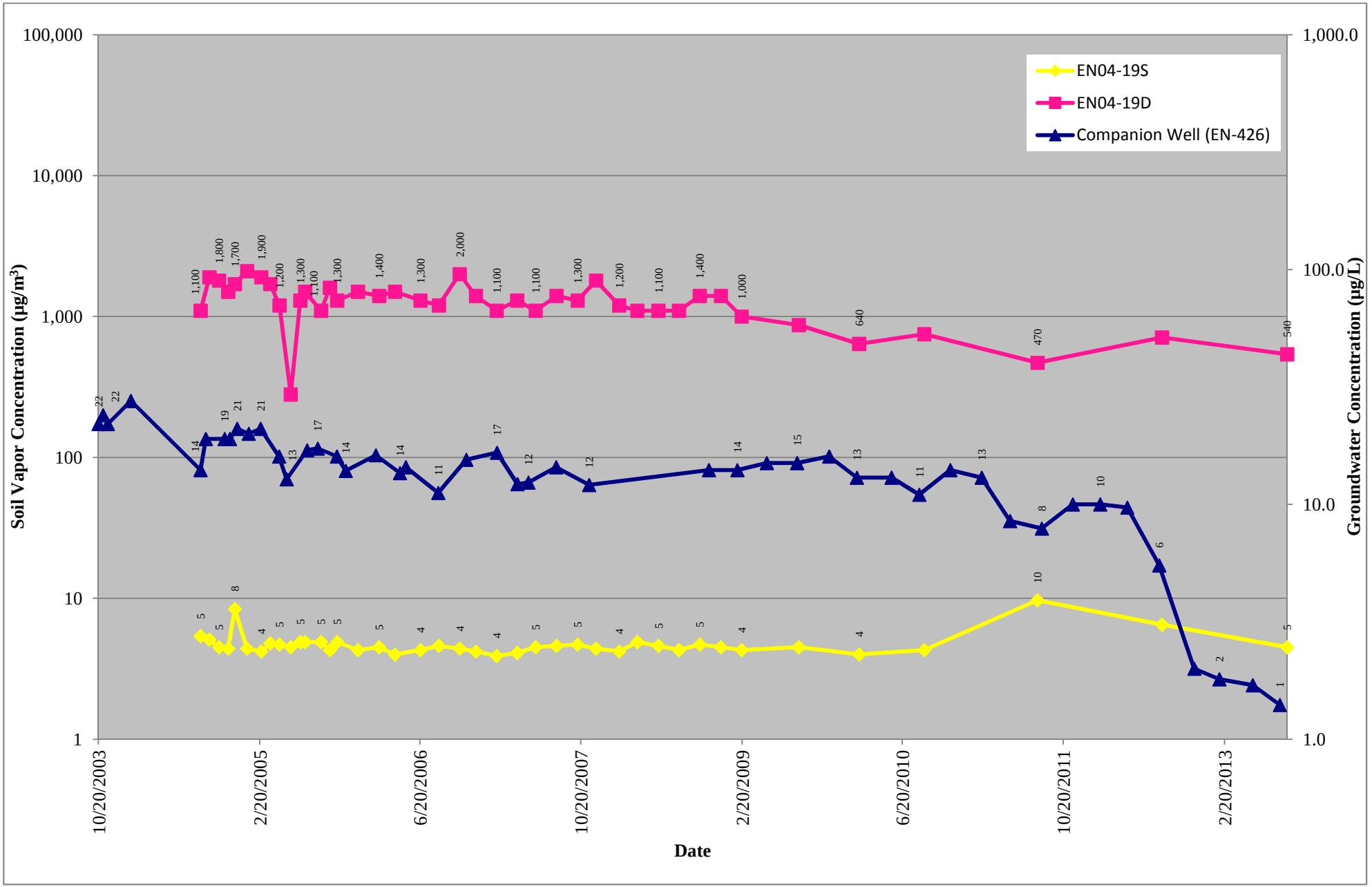


Figure A.20
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

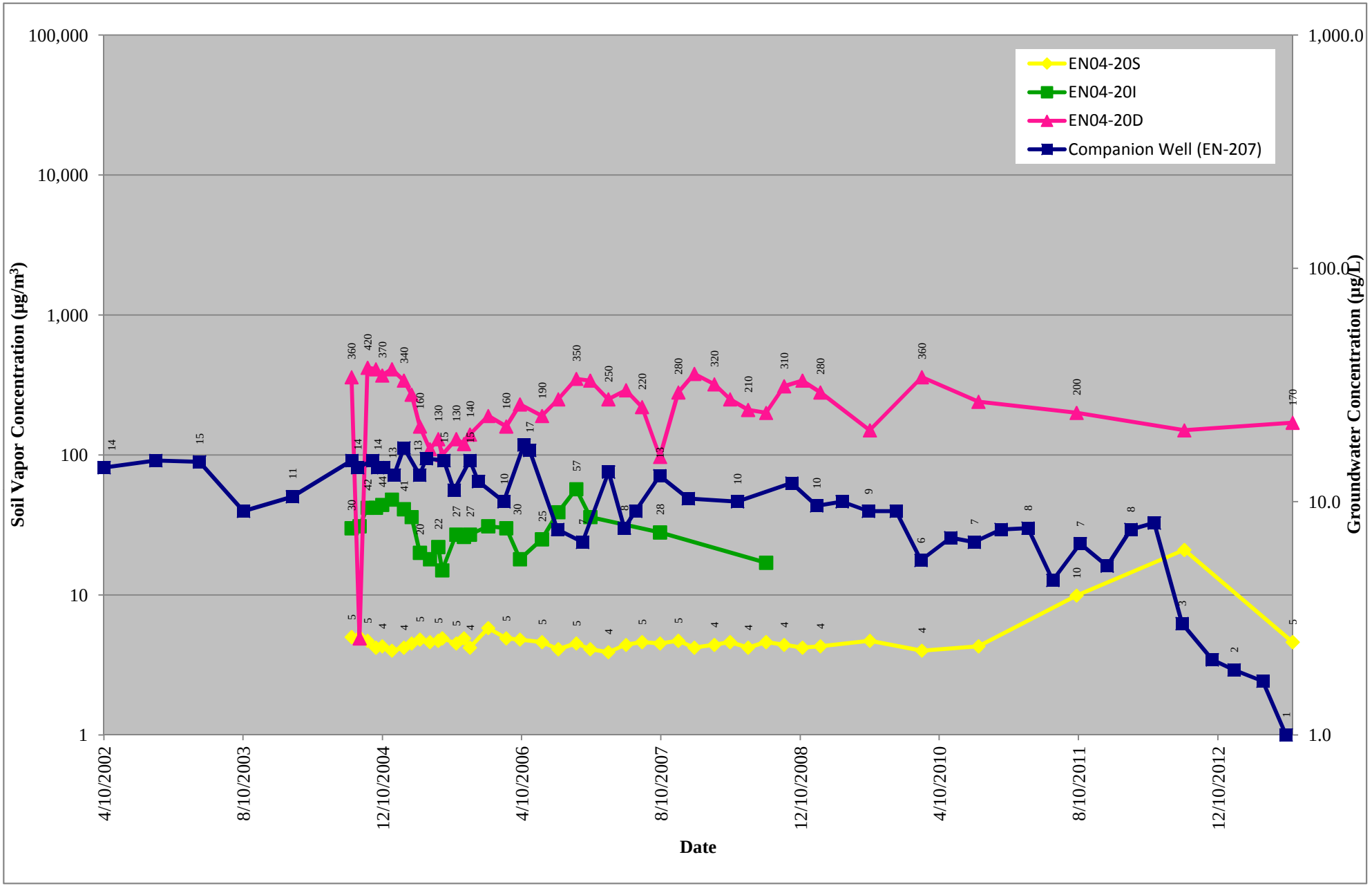


Figure A.21
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

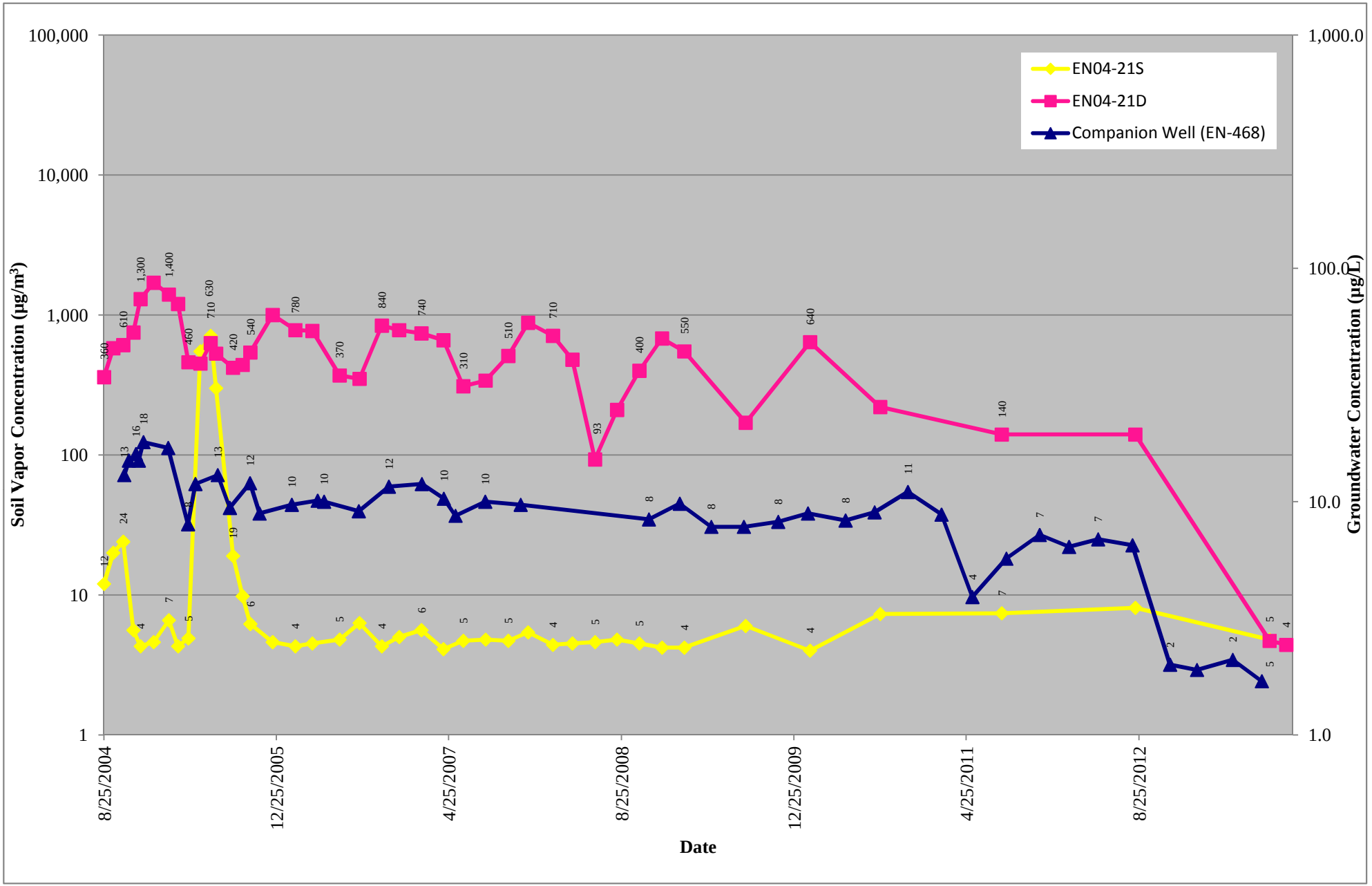


Figure A.22
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

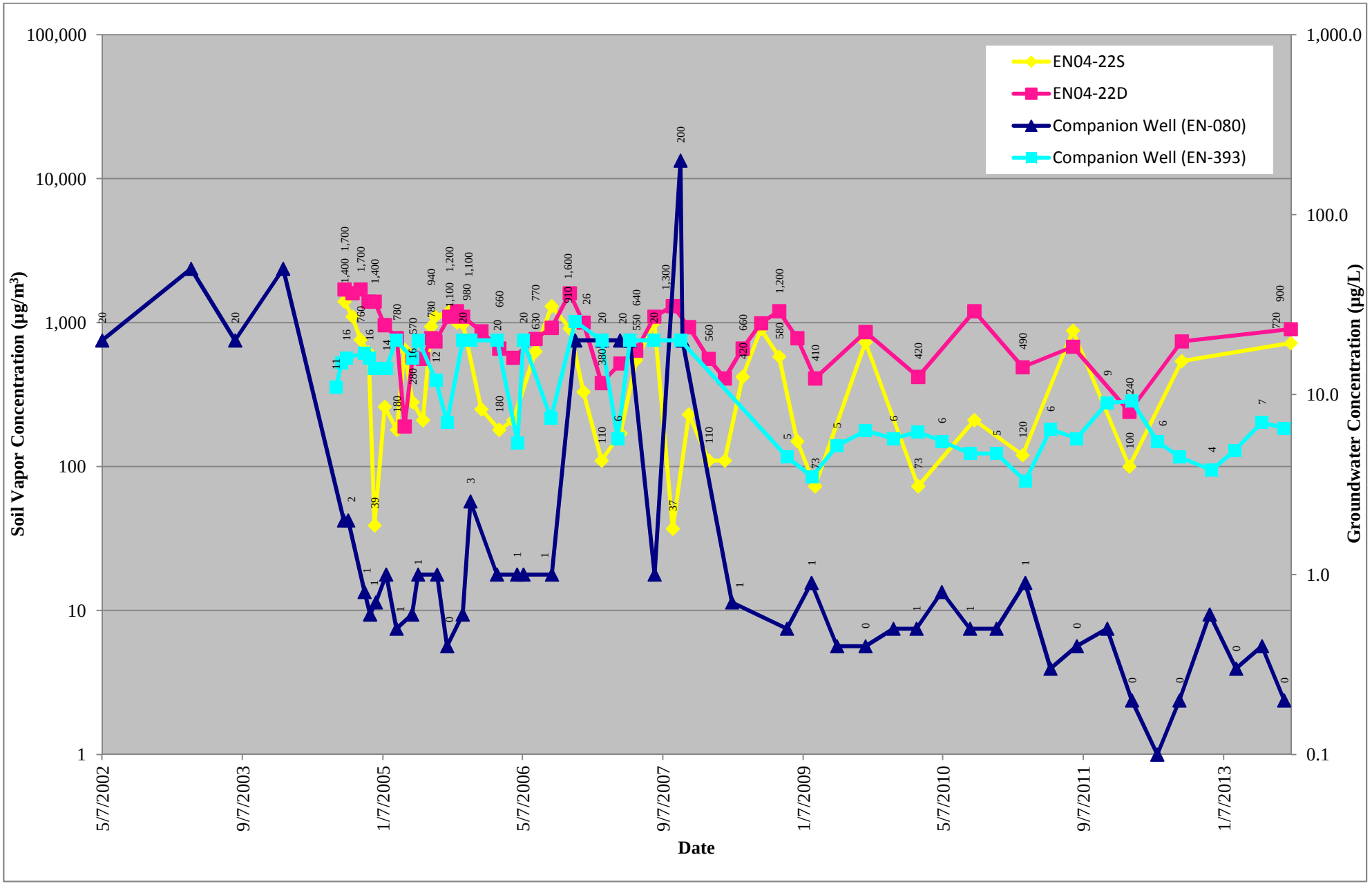


Figure A.23
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

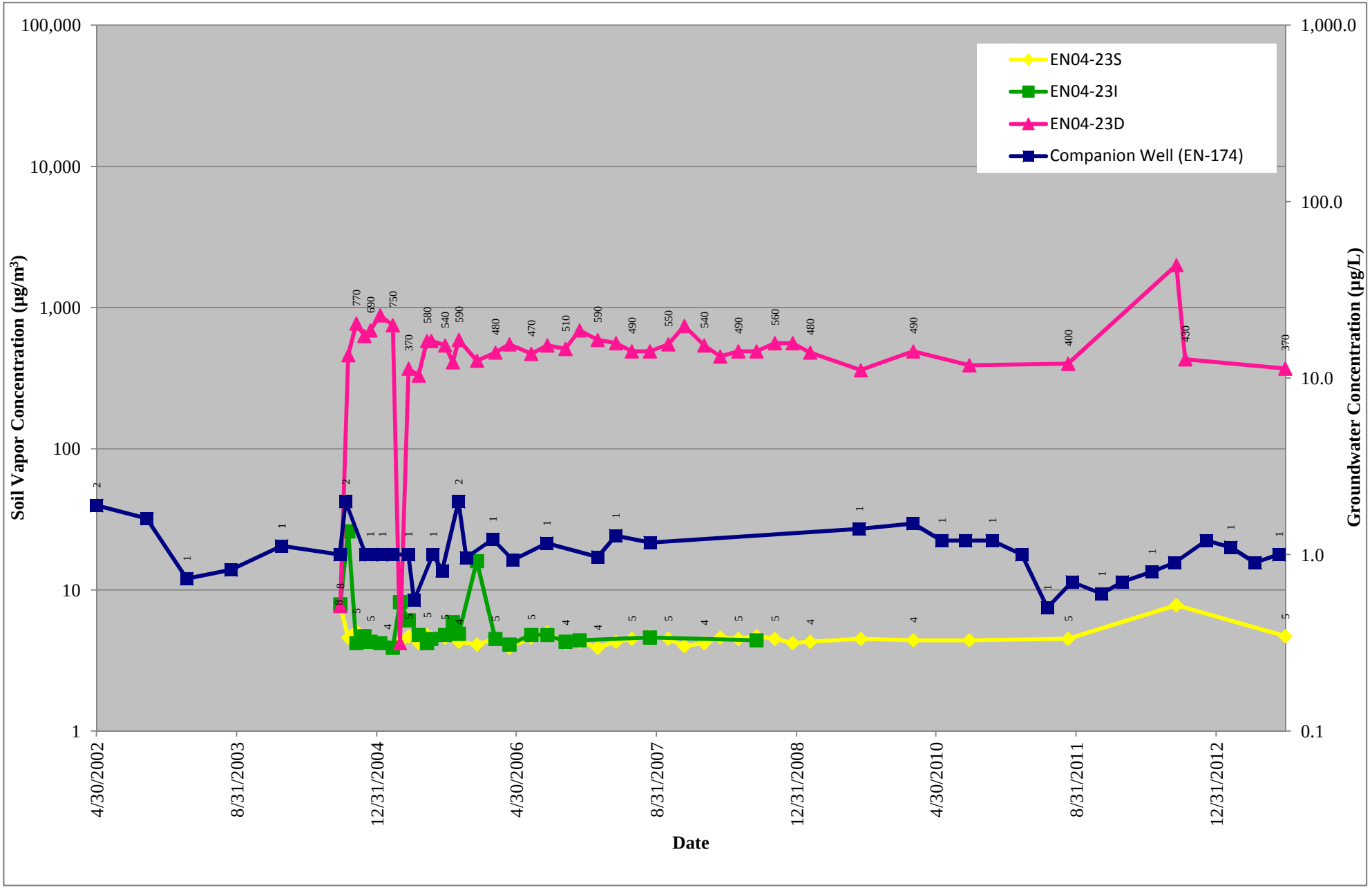


Figure A.24
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

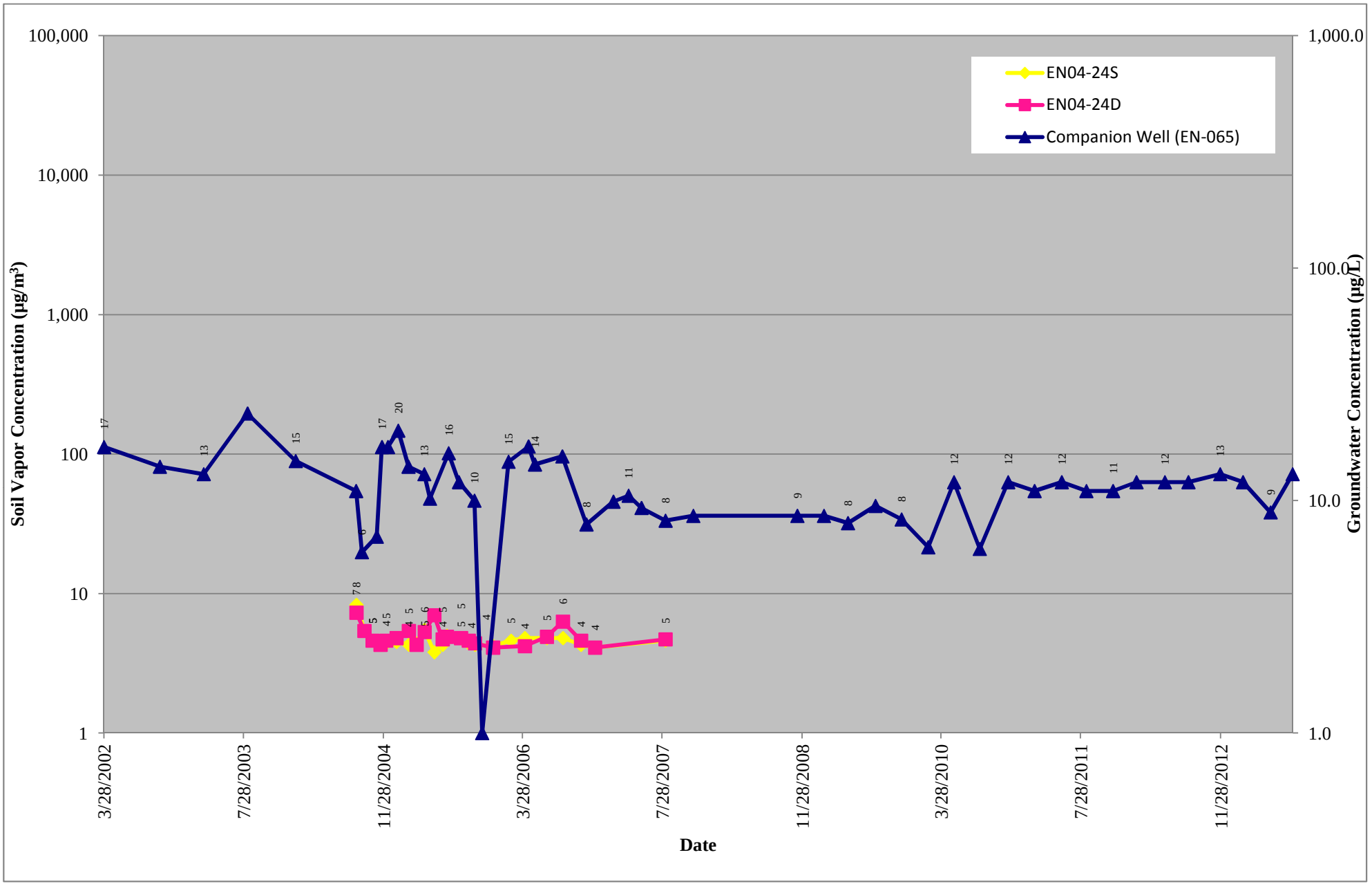


Figure A.25
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

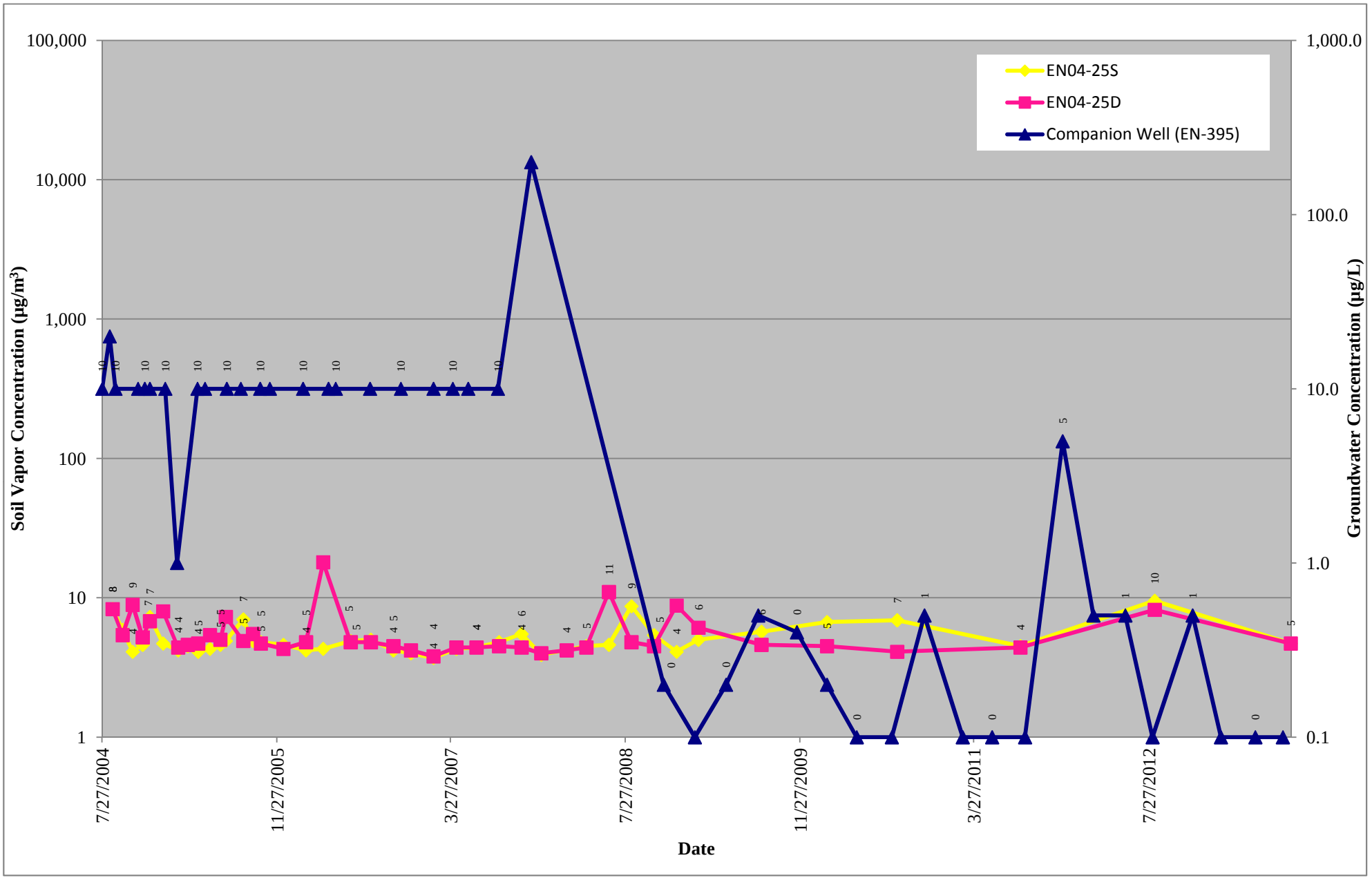


Figure A.26
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

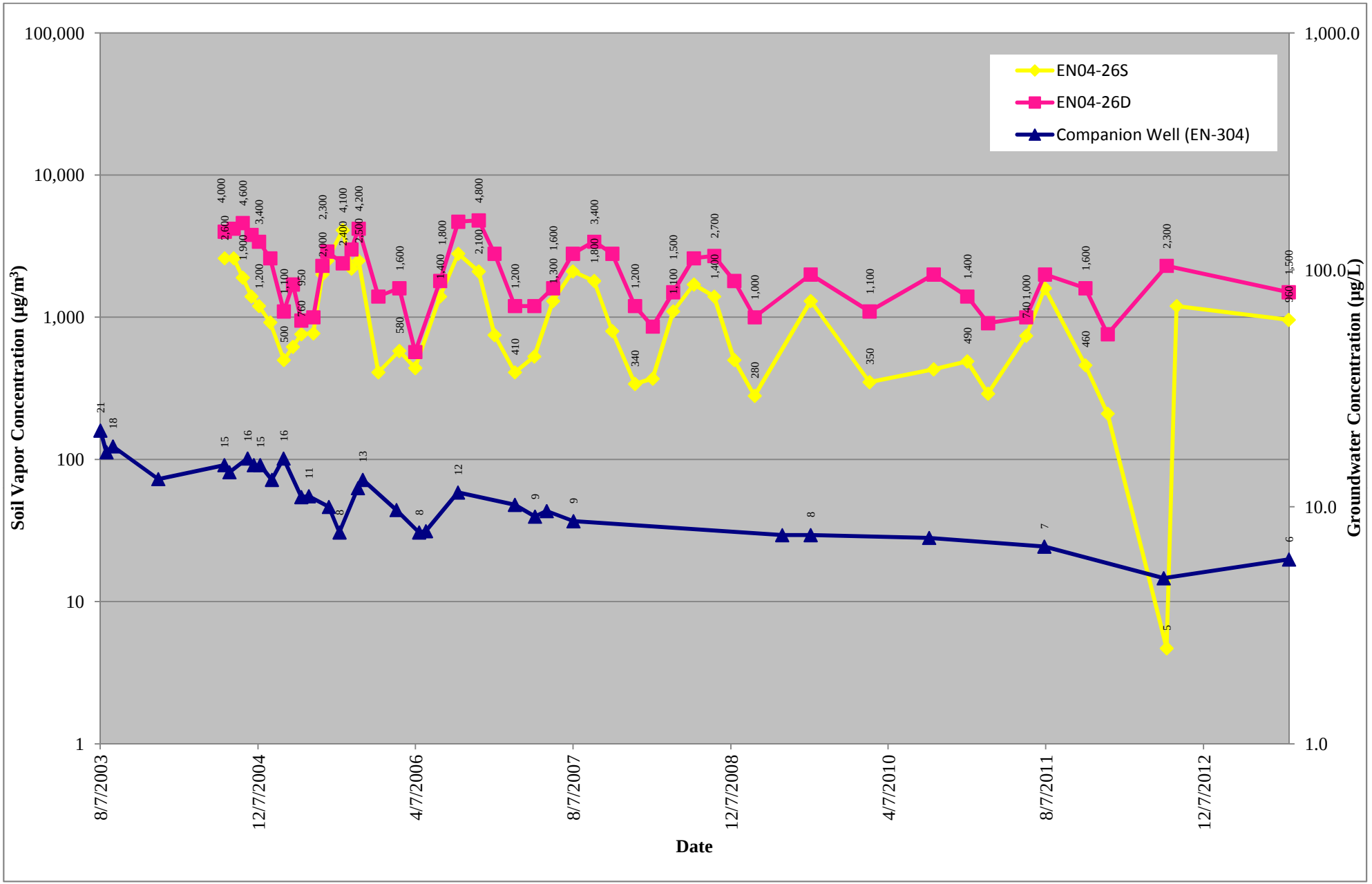


Figure A.27
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

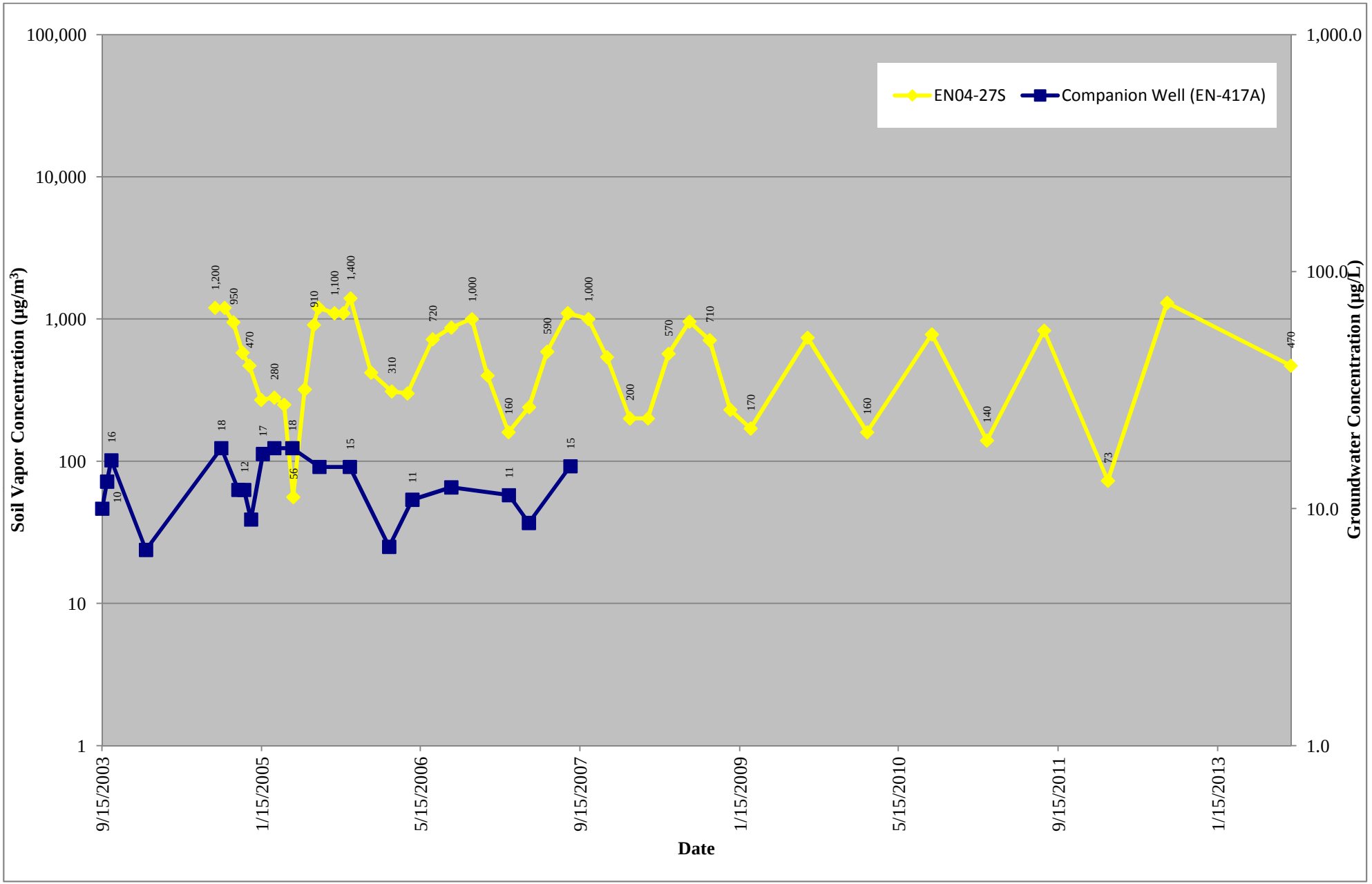


Figure A.28
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

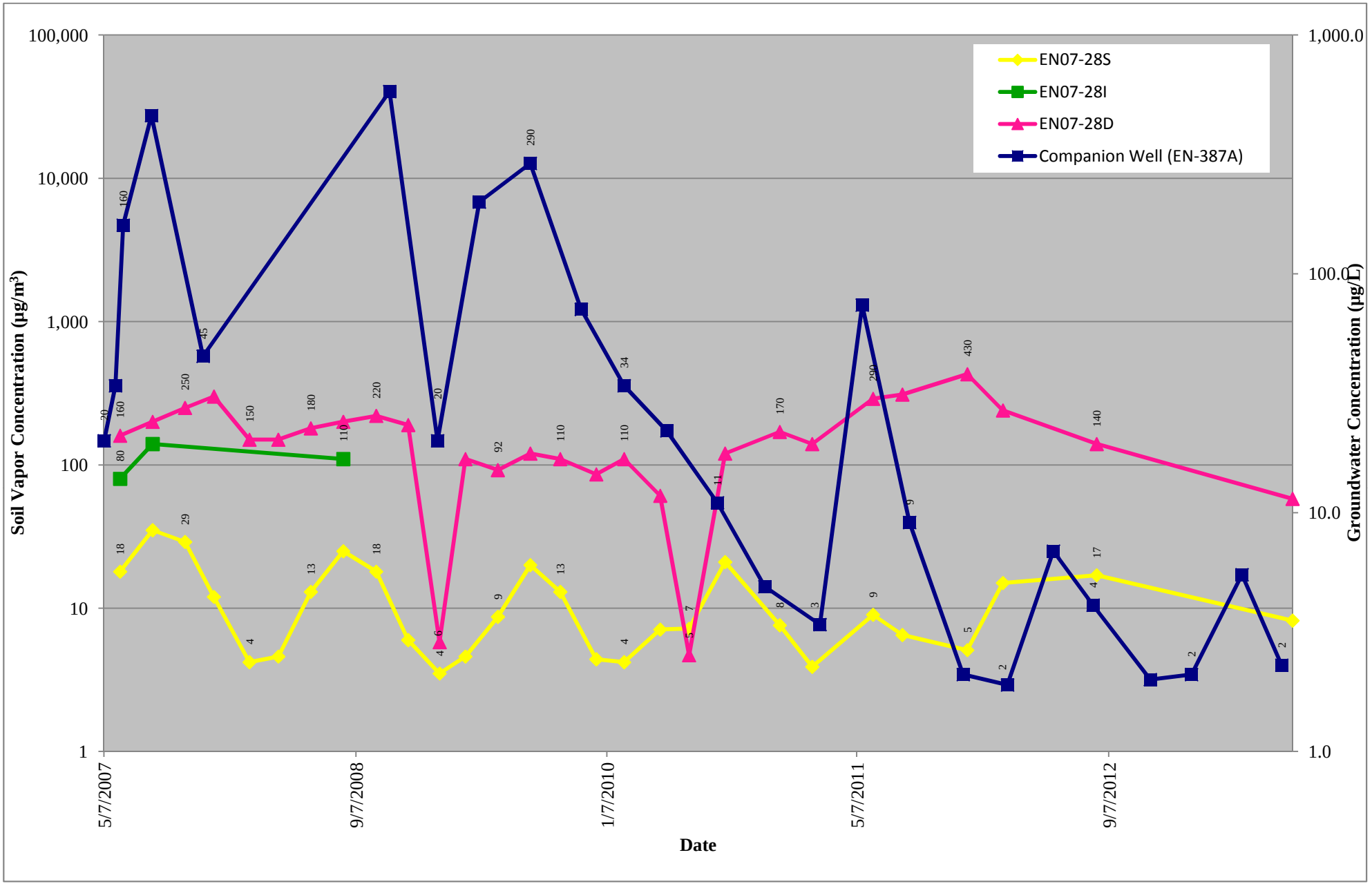


Figure A.29
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

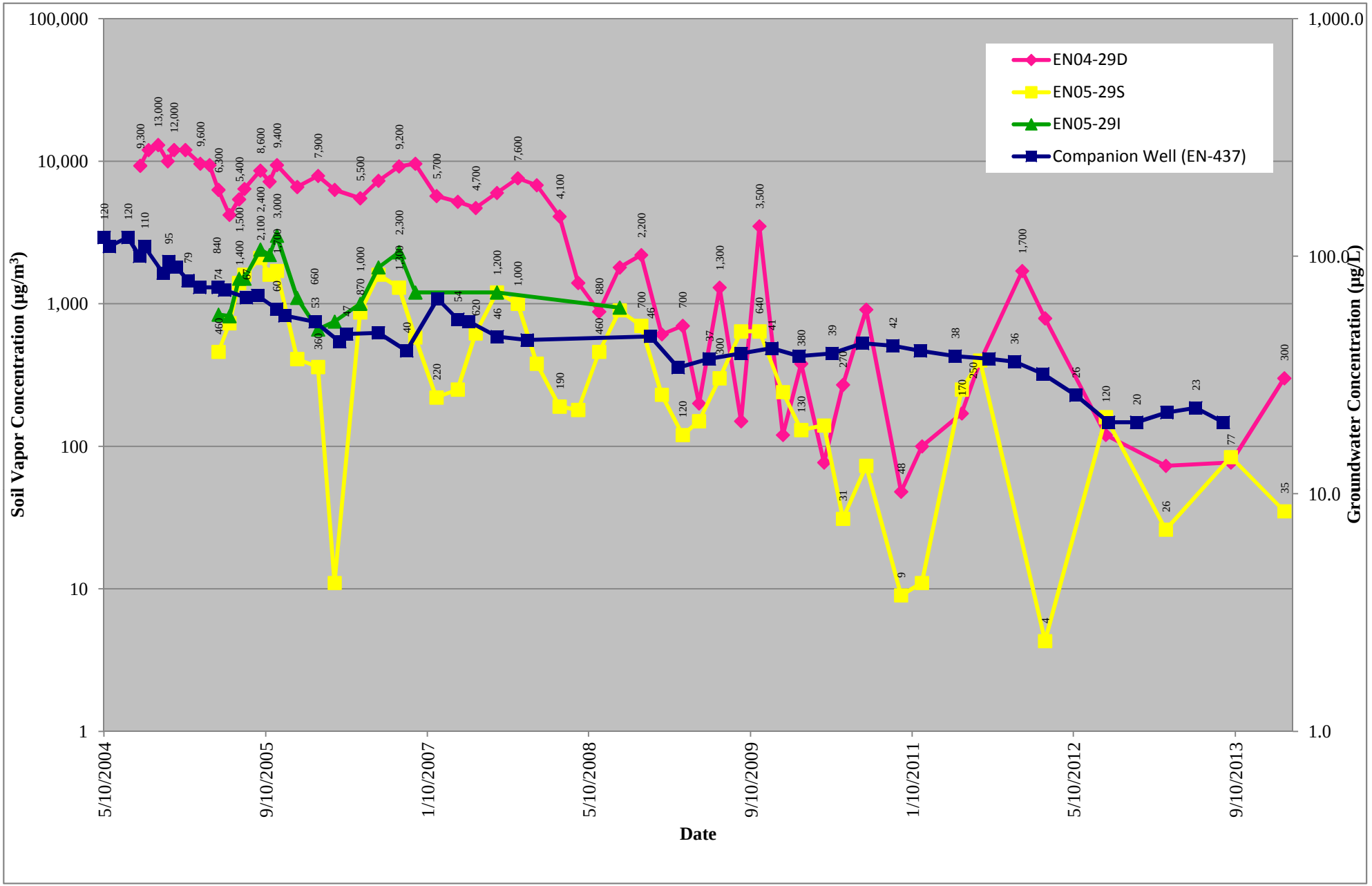


Figure A.30
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

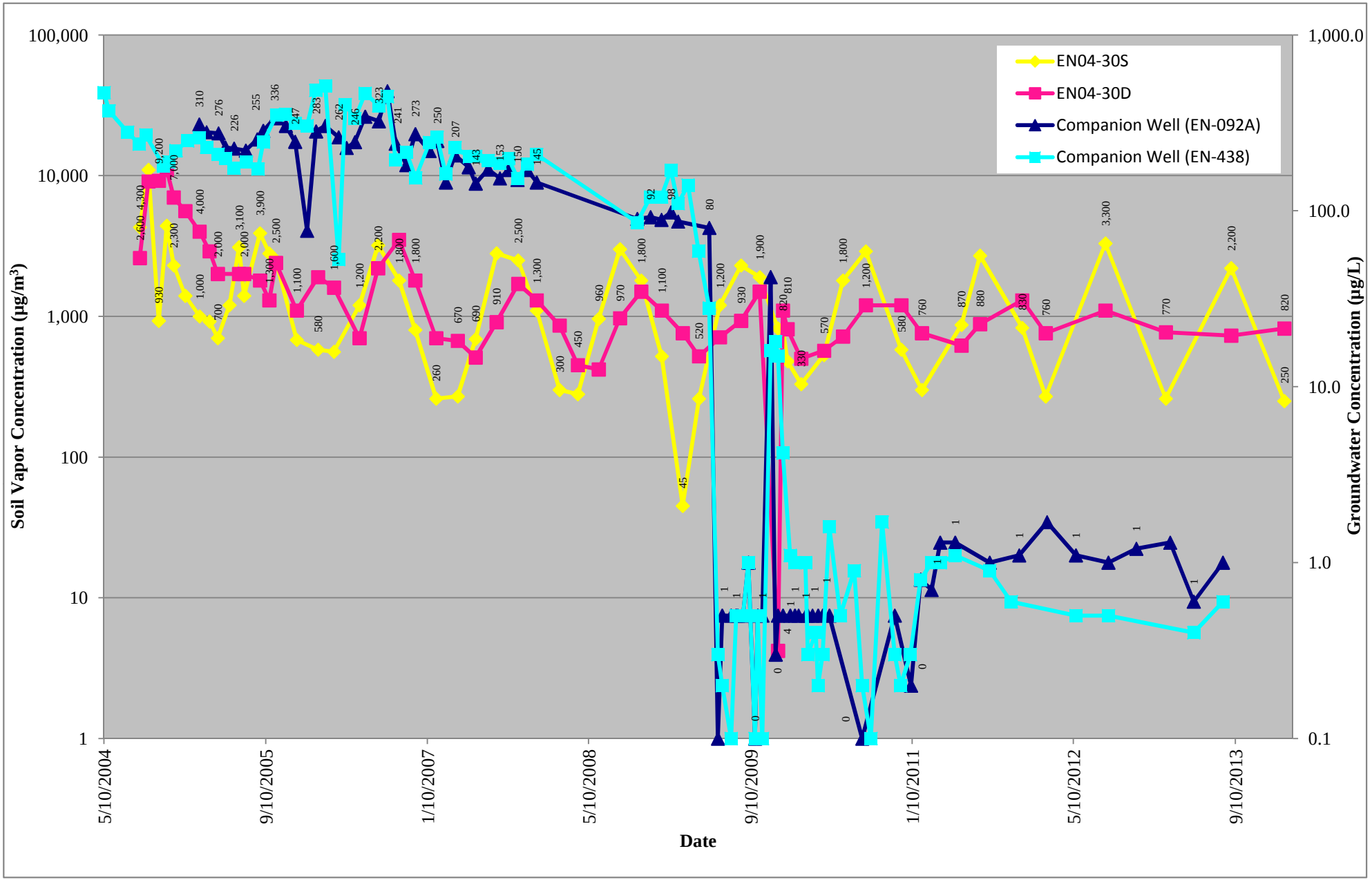


Figure A.31
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

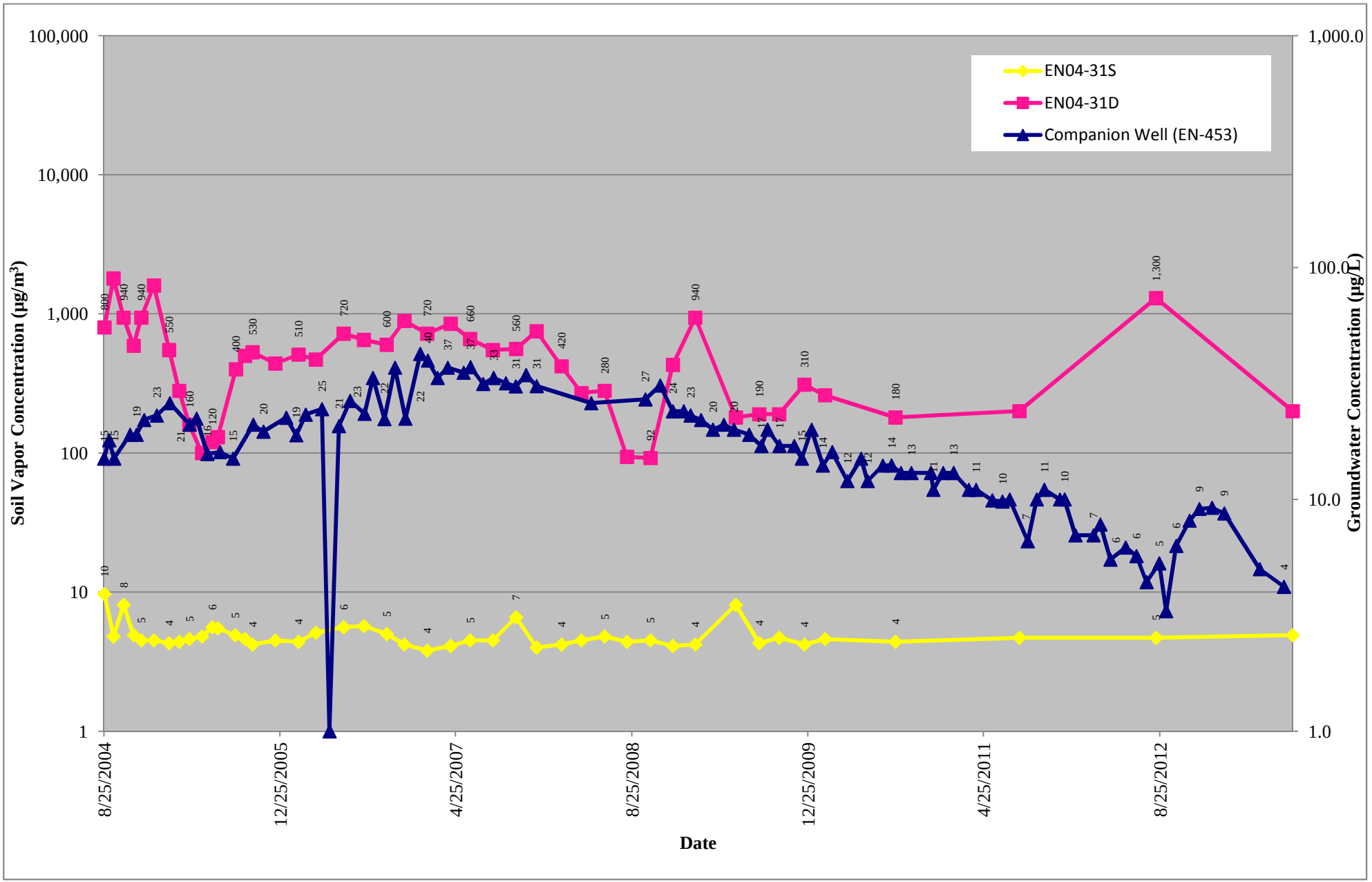


Figure A.32
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

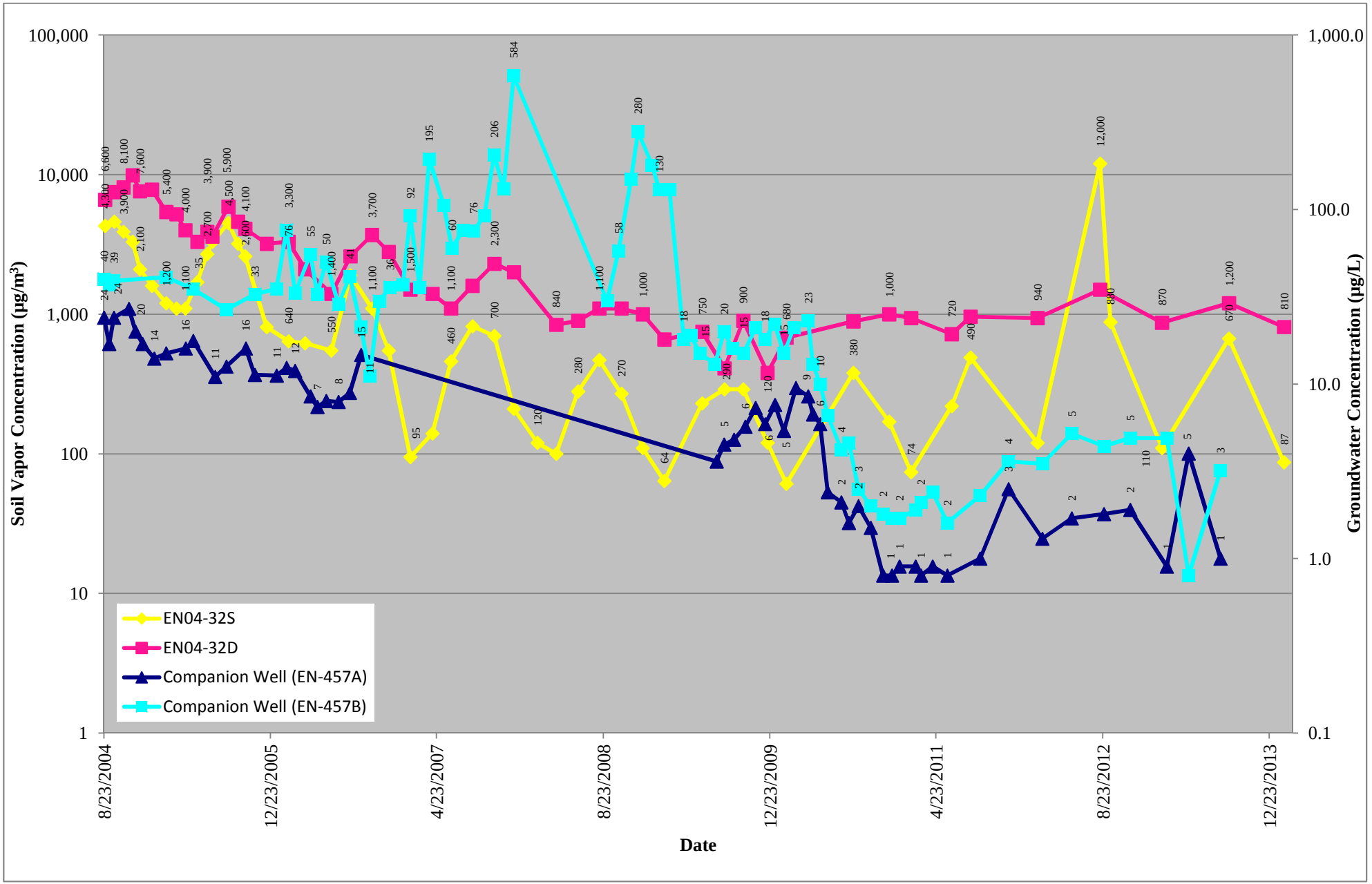


Figure A.33
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

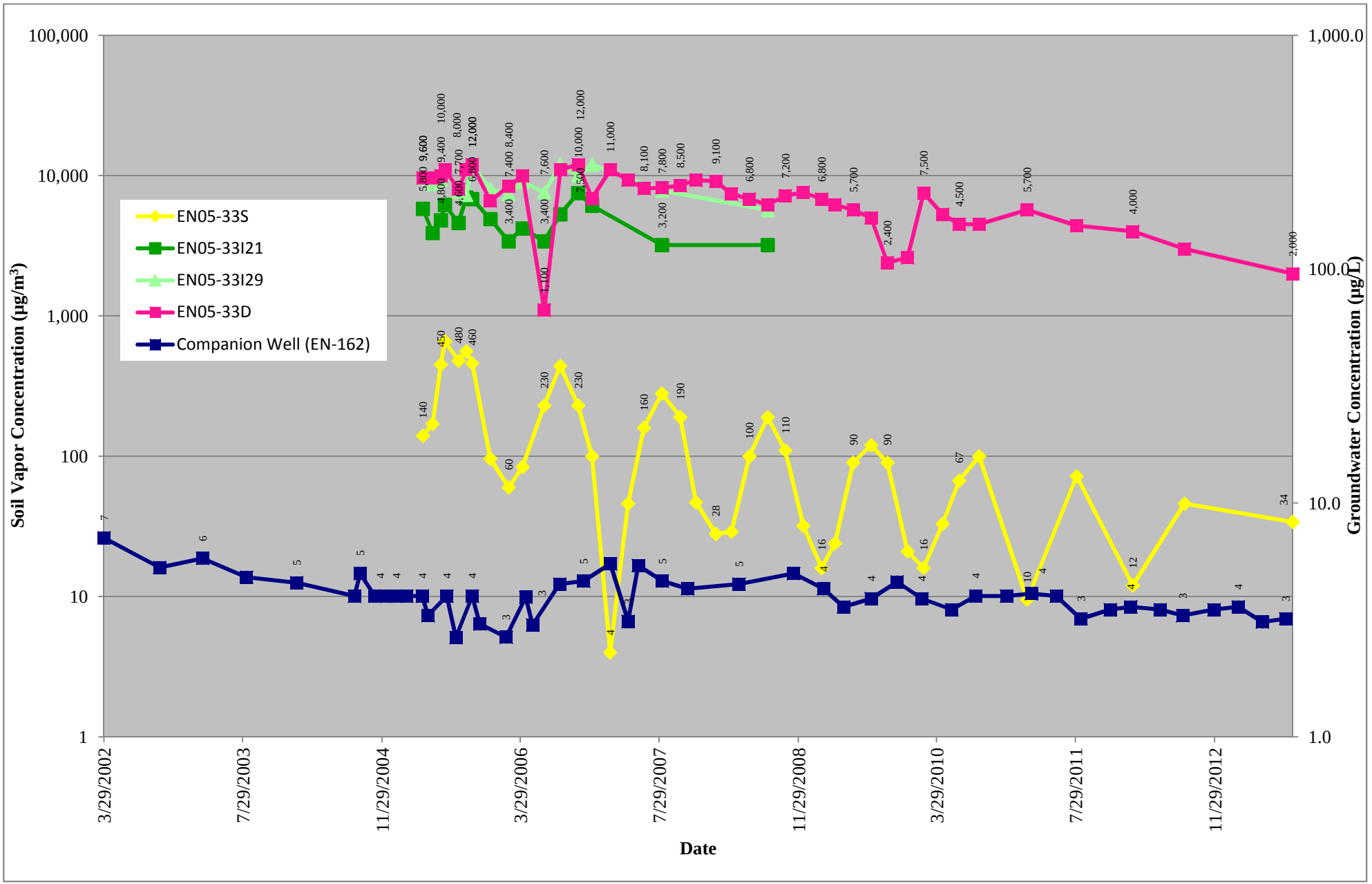


Figure A.34
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

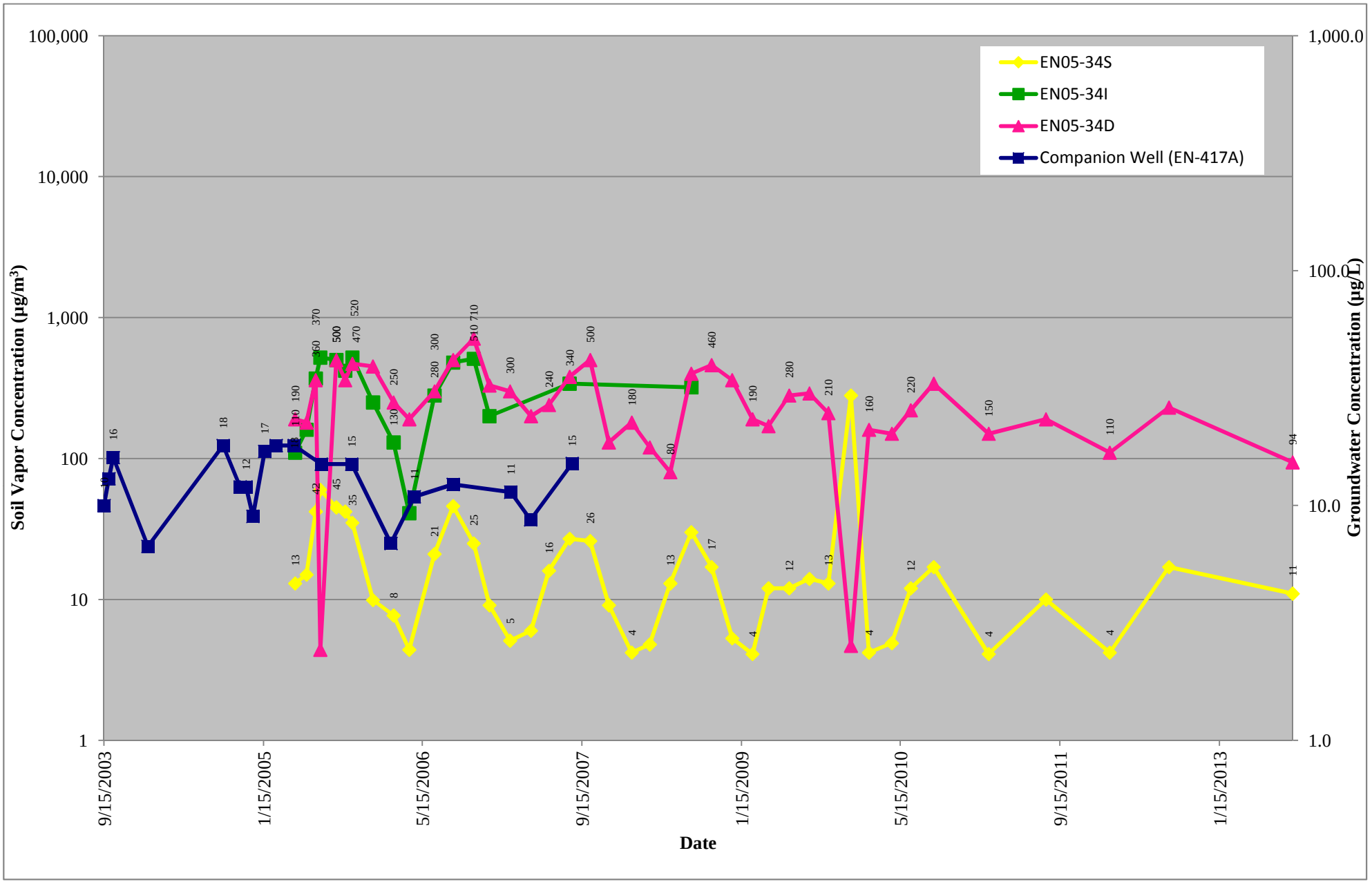


Figure A.35
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

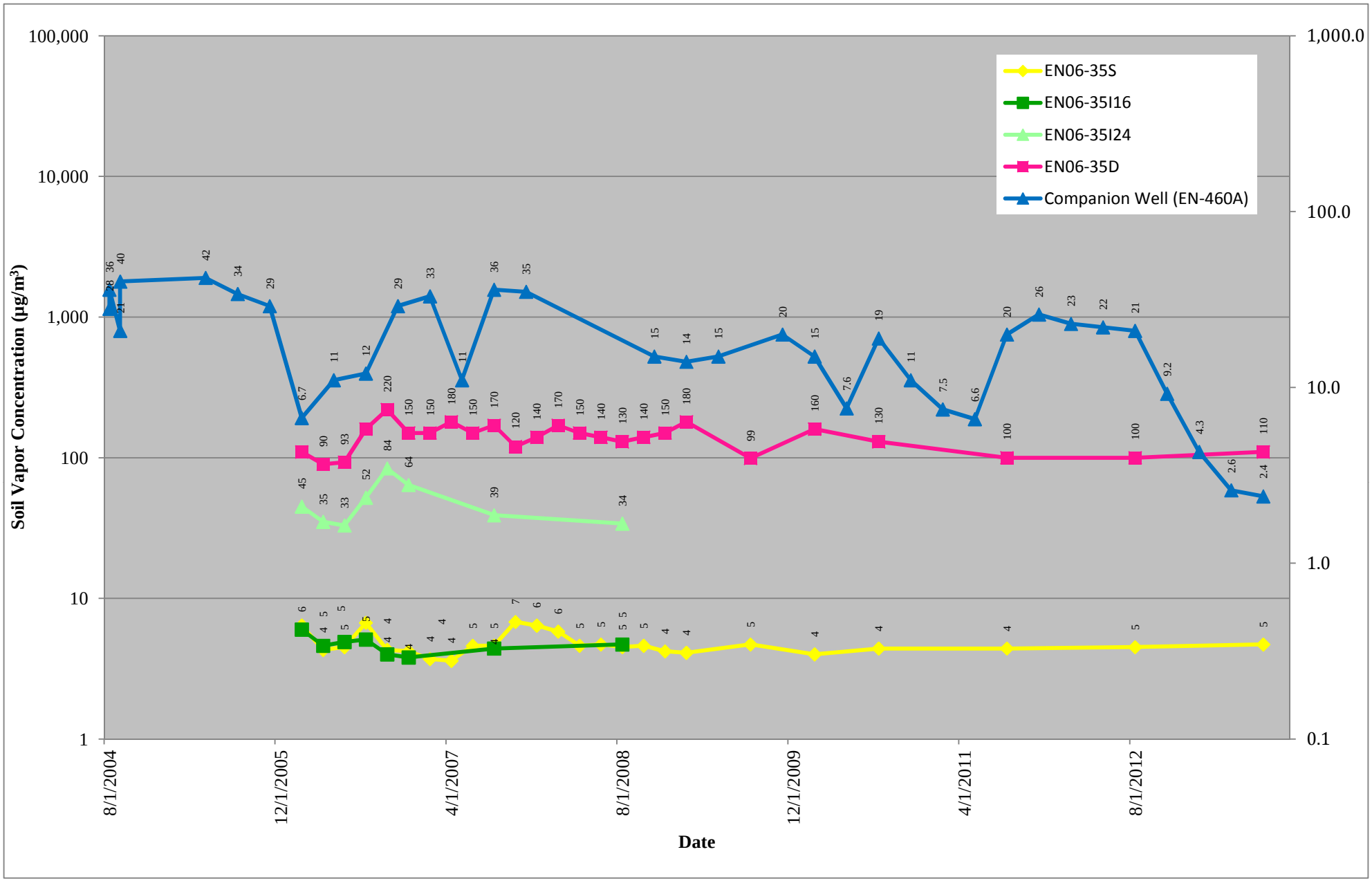


Figure A.36
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

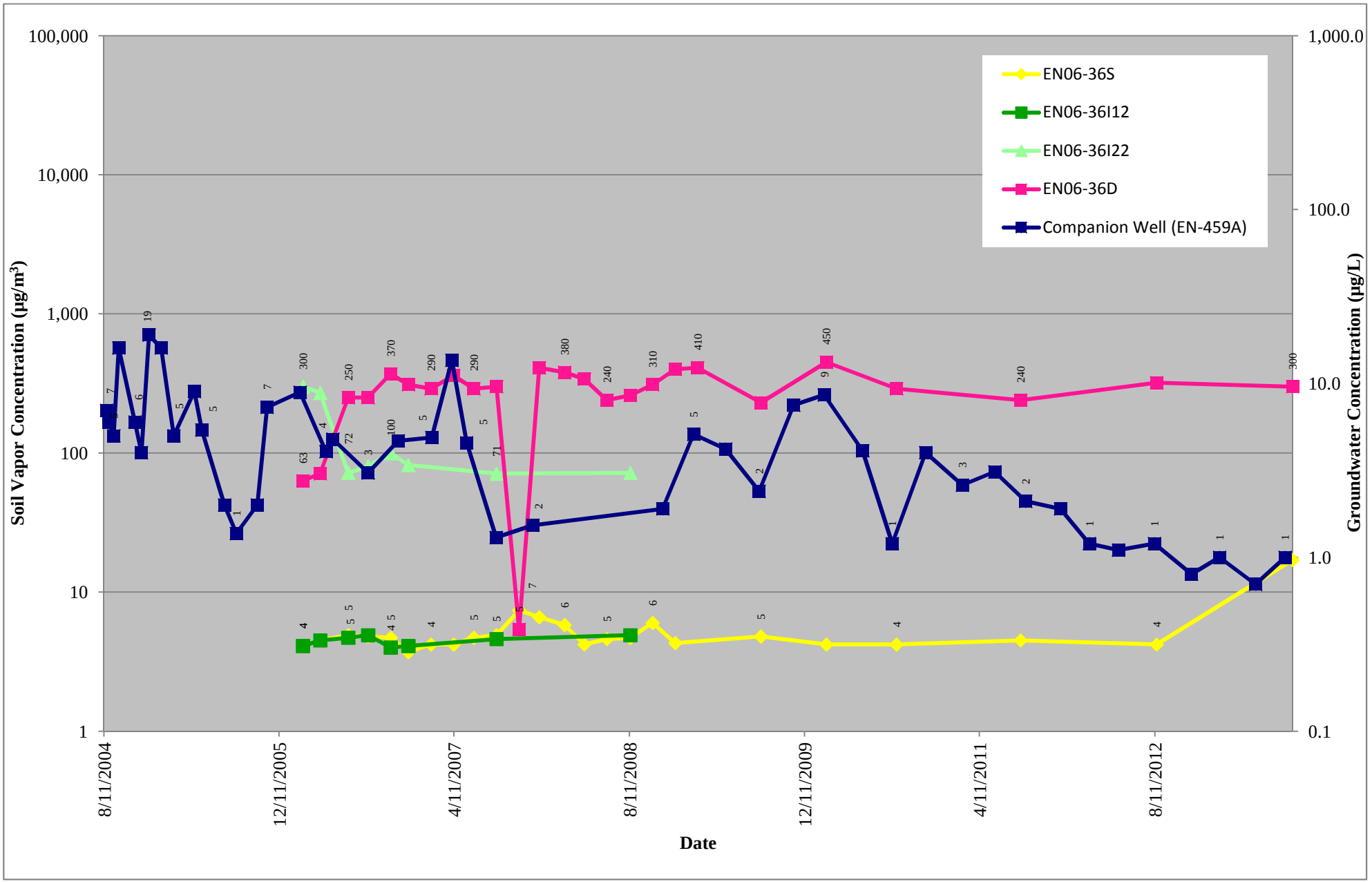


Figure A.37
TCE in Soil Vapor and Groundwater
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York

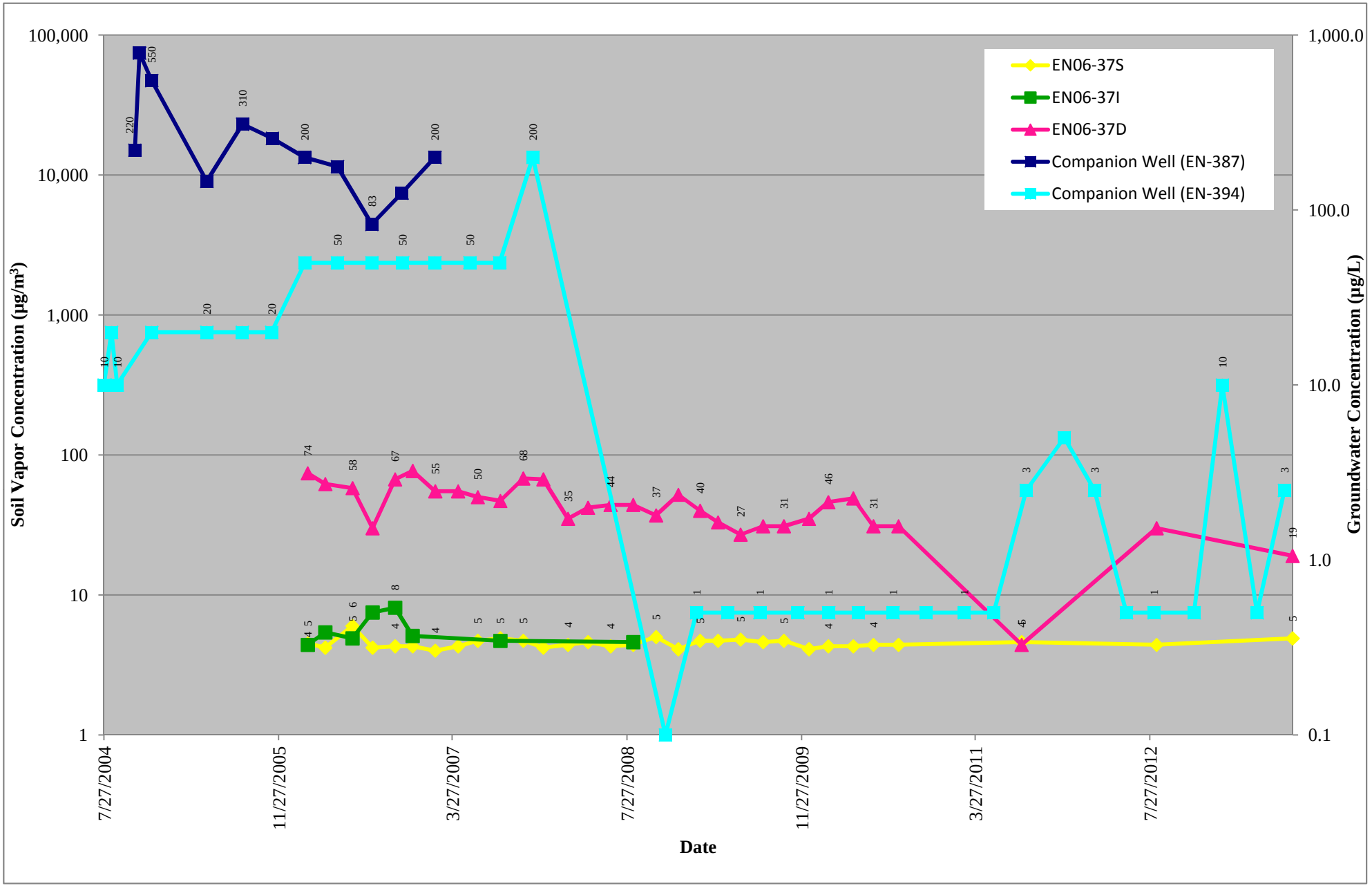
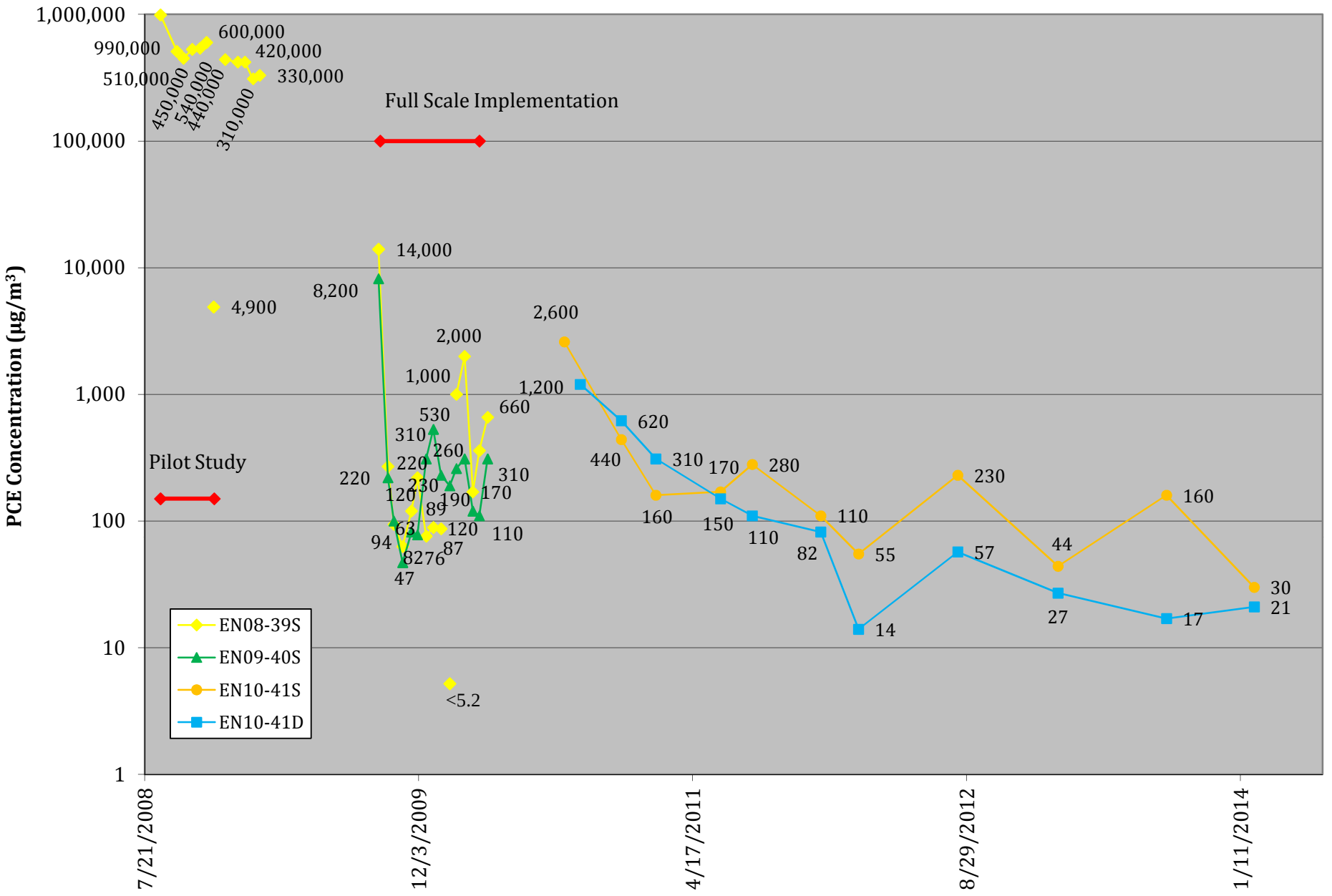


Figure A.38
PCE in Soil Vapor
Semiannual Report - Soil Vapor Monitoring through February 2014
Comprehensive Operations, Maintenance, Monitoring Program
Endicott, New York



ATTACHMENT C

Analytical Laboratory Reports

eurofins | Air Toxics

2/13/2014
Ms. Erica Bradstreet
Sanborn, Head & Associates
1715 W 13th Street

Houston TX 77008

Project Name: IBM Groundwater Vapor Project - 1
Project #: 2755.07
Workorder #: 1402082

Dear Ms. Erica Bradstreet

The following report includes the data for the above referenced project for sample(s) received on 2/6/2014 at Air Toxics Ltd.

The data and associated QC analyzed by 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

eurofins | Air Toxics

WORK ORDER #: 1402082

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 - 1
DATE RECEIVED:	02/06/2014	**CONTACT:**	Ausha Scott
DATE COMPLETED:	02/13/2014		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	DU336102042014	TO-15	6.5 "Hg	5.4 psi
02A	EB335502042014	TO-15	3.7 "Hg	5 psi
03A	EN0411D02042014	TO-15	4.1 "Hg	4.8 psi
04A	EN0411S02042014	TO-15	2.6 "Hg	5.1 psi
05A	EN0412D02042014	TO-15	4.9 "Hg	5.1 psi
06A	EN0412S02042014	TO-15	1 "Hg	5.1 psi
07A	EN0429D02042014	TO-15	5.3 "Hg	5 psi
07AA	EN0429D02042014 Lab Duplicate	TO-15	5.3 "Hg	5 psi
08A	EN042D02042014	TO-15	2.4 "Hg	5 psi
09A	EN042S02042014	TO-15	5.1 "Hg	5.1 psi
10A	EN0430S02042014	TO-15	4.3 "Hg	5 psi
11A	EN0432D02042014	TO-15	5.7 "Hg	4.9 psi
12A	EN0432S02042014	TO-15	4.9 "Hg	5.2 psi
12AA	EN0432S02042014 Lab Duplicate	TO-15	4.9 "Hg	5.2 psi
13A	EN0529S02042014	TO-15	2.4 "Hg	5.2 psi
13AA	EN0529S02042014 Lab Duplicate	TO-15	2.4 "Hg	5.2 psi
14A	EN1017D02042014	TO-15	3.3 "Hg	4.9 psi
15A	EN1041D02052014	TO-15	5.7 "Hg	5.3 psi
16A	EN1041S02052014	TO-15	4.7 "Hg	4.8 psi
17A	EN0430D02042014	TO-15	4.5 "Hg	4.9 psi
18A	Lab Blank	TO-15	NA	NA
18B	Lab Blank	TO-15	NA	NA
19A	CCV	TO-15	NA	NA

Continued on next page

eurofins | Air Toxics

WORK ORDER #: 1402082

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 - 1
DATE RECEIVED:	02/06/2014	**CONTACT:**	Ausha Scott
DATE COMPLETED:	02/13/2014		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
19B	CCV	TO-15	NA	NA
20A	LCS	TO-15	NA	NA
20AA	LCSD	TO-15	NA	NA
20B	LCS	TO-15	NA	NA
20BB	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 02/13/14

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-13-6, UT NELAP CA009332013-4, VA NELAP - 460197, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2013, Expiration date: 10/17/2014.
Eurofins Air Toxics Inc.. 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# 1402082

Seventeen 1 Liter Summa Canister (100% Certified) samples were received on February 06, 2014. 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 samples EN0412S02042014, EN0429D02042014, EN0432S02042014, and EN0529S02042014 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the samples.

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, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

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

eurofins | Air Toxics

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

Client Sample ID: DU336102042014

Lab ID#: 1402082-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.88	1.1	4.8	5.8
Trichloroethene	0.88	19	4.7	100

Client Sample ID: EB335502042014

Lab ID#: 1402082-02A

No Detections Were Found.

Client Sample ID: EN0411D02042014

Lab ID#: 1402082-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.77	1.2	3.0	4.8
1,1,1-Trichloroethane	0.77	10	4.2	55
Trichloroethene	0.77	180	4.1	970
Tetrachloroethene	0.77	4.4	5.2	30

Client Sample ID: EN0411S02042014

Lab ID#: 1402082-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.74	4.2	4.0	23

Client Sample ID: EN0412D02042014

Lab ID#: 1402082-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.80	2.7	4.4	15
Trichloroethene	0.80	62	4.3	330

Client Sample ID: EN0412S02042014

Lab ID#: 1402082-06A

eurofins | Air Toxics

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

Client Sample ID: EN0412S02042014

Lab ID#: 1402082-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.70	1.2	3.8	6.7
Trichloroethene	0.70	28	3.7	150

Client Sample ID: EN0429D02042014

Lab ID#: 1402082-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	1.2	3.6	6.8	20
Trichloroethene	1.2	56	6.7	300

Client Sample ID: EN0429D02042014 Lab Duplicate

Lab ID#: 1402082-07AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	1.2	3.4	6.8	19
Trichloroethene	1.2	55	6.7	300

Client Sample ID: EN042D02042014

Lab ID#: 1402082-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	1.1	2.4	6.0	13
Trichloroethene	1.1	16	6.0	88
Tetrachloroethene	1.1	2.2	7.5	15

Client Sample ID: EN042S02042014

Lab ID#: 1402082-09A

No Detections Were Found.

Client Sample ID: EN0430S02042014

Lab ID#: 1402082-10A

eurofins | Air Toxics

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

Client Sample ID: EN0430S02042014

Lab ID#: 1402082-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.2	47	6.2	250

Client Sample ID: EN0432D02042014

Lab ID#: 1402082-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.82	9.2	4.5	50
Trichloroethene	0.82	150	4.4	810

Client Sample ID: EN0432S02042014

Lab ID#: 1402082-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.81	1.0	4.4	5.5
Trichloroethene	0.81	16	4.4	87

Client Sample ID: EN0432S02042014 Lab Duplicate

Lab ID#: 1402082-12AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.81	0.89	4.4	4.8
Trichloroethene	0.81	16	4.4	86

Client Sample ID: EN0529S02042014

Lab ID#: 1402082-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.74	0.74	4.0	4.0
Trichloroethene	0.74	6.6	4.0	35

Client Sample ID: EN0529S02042014 Lab Duplicate

Lab ID#: 1402082-13AA

eurofins | Air Toxics

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

Client Sample ID: EN0529S02042014 Lab Duplicate

Lab ID#: 1402082-13AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.74	0.82	4.0	4.5
Trichloroethene	0.74	6.6	4.0	36

Client Sample ID: EN1017D02042014

Lab ID#: 1402082-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethane	0.75	0.86	3.0	3.5
cis-1,2-Dichloroethene	0.75	3.7	3.0	15
1,1,1-Trichloroethane	0.75	48	4.1	260
Trichloroethene	0.75	51	4.0	270

Client Sample ID: EN1041D02052014

Lab ID#: 1402082-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.84	1.6	4.5	8.6
Tetrachloroethene	0.84	3.1	5.7	21

Client Sample ID: EN1041S02052014

Lab ID#: 1402082-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.78	4.5	5.3	30

Client Sample ID: EN0430D02042014

Lab ID#: 1402082-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.78	1.2	3.1	4.7
1,1,1-Trichloroethane	0.78	9.0	4.3	49
Trichloroethene	0.78	150	4.2	820

eurofins | Air Toxics

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

Client Sample ID: EN0430D02042014

Lab ID#: 1402082-17A

Tetrachloroethene	0.78	3.7	5.3	25

eurofins | Air Toxics

Client Sample ID: DU336102042014

Lab ID#: 1402082-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021110**	**Date of Collection: 2/4/14 2:36:00 PM**	
Dil. Factor:	**1.75**	**Date of Analysis: 2/11/14 01:29 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	1.1	4.8	5.8
Trichloroethene	0.88	19	4.7	100
Tetrachloroethene	0.88	Not Detected	5.9	Not Detected
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	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130

eurofins | Air Toxics

Client Sample ID: EB335502042014

Lab ID#: 1402082-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021109**	**Date of Collection: 2/4/14 7:35:00 PM**	
Dil. Factor:	**1.53**	**Date of Analysis: 2/11/14 01:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.76	Not Detected	2.0	Not Detected
Chloroethane	3.1	Not Detected	8.1	Not Detected
1,1-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Freon 113	0.76	Not Detected	5.9	Not Detected
Methylene Chloride	7.6	Not Detected	26	Not Detected
1,1-Dichloroethane	0.76	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
1,1,1-Trichloroethane	0.76	Not Detected	4.2	Not Detected
Trichloroethene	0.76	Not Detected	4.1	Not Detected
Tetrachloroethene	0.76	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	91	70-130

eurofins | Air Toxics

Client Sample ID: EN0411D02042014

Lab ID#: 1402082-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021113**	**Date of Collection: 2/4/14 1:54:00 PM**	
Dil. Factor:	**1.54**	**Date of Analysis: 2/11/14 02:56 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.77	Not Detected	2.0	Not Detected
Chloroethane	3.1	Not Detected	8.1	Not Detected
1,1-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Freon 113	0.77	Not Detected	5.9	Not Detected
Methylene Chloride	7.7	Not Detected	27	Not Detected
1,1-Dichloroethane	0.77	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.77	1.2	3.0	4.8
1,1,1-Trichloroethane	0.77	10	4.2	55
Trichloroethene	0.77	180	4.1	970
Tetrachloroethene	0.77	4.4	5.2	30
trans-1,2-Dichloroethene	0.77	Not Detected	3.0	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	95	70-130

eurofins | Air Toxics

Client Sample ID: EN0411S02042014

Lab ID#: 1402082-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021111**	**Date of Collection: 2/4/14 1:53:00 PM**	
Dil. Factor:	**1.48**	**Date of Analysis: 2/11/14 01:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.74	Not Detected	1.9	Not Detected
Chloroethane	3.0	Not Detected	7.8	Not Detected
1,1-Dichloroethene	0.74	Not Detected	2.9	Not Detected
Freon 113	0.74	Not Detected	5.7	Not Detected
Methylene Chloride	7.4	Not Detected	26	Not Detected
1,1-Dichloroethane	0.74	Not Detected	3.0	Not Detected
cis-1,2-Dichloroethene	0.74	Not Detected	2.9	Not Detected
1,1,1-Trichloroethane	0.74	Not Detected	4.0	Not Detected
Trichloroethene	0.74	4.2	4.0	23
Tetrachloroethene	0.74	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	0.74	Not Detected	2.9	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130

eurofins | Air Toxics

Client Sample ID: EN0412D02042014

Lab ID#: 1402082-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021112**	**Date of Collection: 2/4/14 5:06:00 PM**	
Dil. Factor:	**1.61**	**Date of Analysis: 2/11/14 02:18 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	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.80	2.7	4.4	15
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	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	95	70-130

eurofins | Air Toxics

Client Sample ID: EN0412S02042014

Lab ID#: 1402082-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021123**	**Date of Collection: 2/4/14 5:06:00 PM**	
Dil. Factor:	**1.39**	**Date of Analysis: 2/11/14 08:24 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.70	Not Detected	1.8	Not Detected
Chloroethane	2.8	Not Detected	7.3	Not Detected
1,1-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Freon 113	0.70	Not Detected	5.3	Not Detected
Methylene Chloride	7.0	Not Detected	24	Not Detected
1,1-Dichloroethane	0.70	Not Detected	2.8	Not Detected
cis-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
1,1,1-Trichloroethane	0.70	1.2	3.8	6.7
Trichloroethene	0.70	28	3.7	150
Tetrachloroethene	0.70	Not Detected	4.7	Not Detected
trans-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	93	70-130

eurofins | Air Toxics

Client Sample ID: EN0429D02042014

Lab ID#: 1402082-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021209**	**Date of Collection: 2/4/14 11:40:00 AM**	
Dil. Factor:	**2.48**	**Date of Analysis: 2/12/14 12:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
1,1,1-Trichloroethane	1.2	3.6	6.8	20
Trichloroethene	1.2	56	6.7	300
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	91	70-130

eurofins | Air Toxics

Client Sample ID: EN0429D02042014 Lab Duplicate

Lab ID#: 1402082-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021210**	**Date of Collection: 2/4/14 11:40:00 AM**	
Dil. Factor:	**2.48**	**Date of Analysis: 2/12/14 01:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
1,1,1-Trichloroethane	1.2	3.4	6.8	19
Trichloroethene	1.2	55	6.7	300
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	92	70-130

eurofins | Air Toxics

Client Sample ID: EN042D02042014

Lab ID#: 1402082-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021211**	**Date of Collection:**	**2/4/14 8:56:00 AM**
Dil. Factor:	**2.22**	**Date of Analysis:**	**2/12/14 01:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
Chloroethane	4.4	Not Detected	12	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Freon 113	1.1	Not Detected	8.5	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
1,1,1-Trichloroethane	1.1	2.4	6.0	13
Trichloroethene	1.1	16	6.0	88
Tetrachloroethene	1.1	2.2	7.5	15
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	90	70-130

eurofins | Air Toxics

Client Sample ID: EN042S02042014

Lab ID#: 1402082-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021212**	**Date of Collection: 2/4/14 10:13:00 AM**	
Dil. Factor:	**2.46**	**Date of Analysis: 2/12/14 01:58 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Freon 113	1.2	Not Detected	9.4	Not Detected
Methylene Chloride	12	Not Detected	43	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	Not Detected	8.3	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	94	70-130

eurofins | Air Toxics

Client Sample ID: EN0430S02042014

Lab ID#: 1402082-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021213**	**Date of Collection: 2/4/14 11:20:00 AM**	
Dil. Factor:	**2.32**	**Date of Analysis: 2/12/14 02:22 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Freon 113	1.2	Not Detected	8.9	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Trichloroethene	1.2	47	6.2	250
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	95	70-130

eurofins | Air Toxics

Client Sample ID: EN0432D02042014

Lab ID#: 1402082-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021114**	**Date of Collection: 2/4/14 1:22:00 PM**	
Dil. Factor:	**1.65**	**Date of Analysis: 2/11/14 03:21 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	8.7	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.3	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Methylene Chloride	8.2	Not Detected	29	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.3	Not Detected
1,1,1-Trichloroethane	0.82	9.2	4.5	50
Trichloroethene	0.82	150	4.4	810
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.3	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	93	70-130

eurofins | Air Toxics

Client Sample ID: EN0432S02042014

Lab ID#: 1402082-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021115**	**Date of Collection: 2/4/14 2:36:00 PM**	
Dil. Factor:	**1.62**	**Date of Analysis: 2/11/14 05:04 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	1.0	4.4	5.5
Trichloroethene	0.81	16	4.4	87
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	101	70-130
4-Bromofluorobenzene	94	70-130

eurofins | Air Toxics

Client Sample ID: EN0432S02042014 Lab Duplicate

Lab ID#: 1402082-12AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021116**	**Date of Collection: 2/4/14 2:36:00 PM**	
Dil. Factor:	**1.62**	**Date of Analysis: 2/11/14 05:30 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	0.89	4.4	4.8
Trichloroethene	0.81	16	4.4	86
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	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: EN0529S02042014

Lab ID#: 1402082-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021117**	**Date of Collection: 2/4/14 11:56:00 AM**	
Dil. Factor:	**1.47**	**Date of Analysis: 2/11/14 05:55 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.74	Not Detected	1.9	Not Detected
Chloroethane	2.9	Not Detected	7.8	Not Detected
1,1-Dichloroethene	0.74	Not Detected	2.9	Not Detected
Freon 113	0.74	Not Detected	5.6	Not Detected
Methylene Chloride	7.4	Not Detected	26	Not Detected
1,1-Dichloroethane	0.74	Not Detected	3.0	Not Detected
cis-1,2-Dichloroethene	0.74	Not Detected	2.9	Not Detected
1,1,1-Trichloroethane	0.74	0.74	4.0	4.0
Trichloroethene	0.74	6.6	4.0	35
Tetrachloroethene	0.74	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	0.74	Not Detected	2.9	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	89	70-130

eurofins | Air Toxics

Client Sample ID: EN0529S02042014 Lab Duplicate

Lab ID#: 1402082-13AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021118**	**Date of Collection:**	**2/4/14 11:56:00 AM**
Dil. Factor:	**1.47**	**Date of Analysis:**	**2/11/14 06:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.74	Not Detected	1.9	Not Detected
Chloroethane	2.9	Not Detected	7.8	Not Detected
1,1-Dichloroethene	0.74	Not Detected	2.9	Not Detected
Freon 113	0.74	Not Detected	5.6	Not Detected
Methylene Chloride	7.4	Not Detected	26	Not Detected
1,1-Dichloroethane	0.74	Not Detected	3.0	Not Detected
cis-1,2-Dichloroethene	0.74	Not Detected	2.9	Not Detected
1,1,1-Trichloroethane	0.74	0.82	4.0	4.5
Trichloroethene	0.74	6.6	4.0	36
Tetrachloroethene	0.74	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	0.74	Not Detected	2.9	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	92	70-130

eurofins | Air Toxics

Client Sample ID: EN1017D02042014

Lab ID#: 1402082-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021119**	**Date of Collection: 2/4/14 3:50:00 PM**	
Dil. Factor:	**1.50**	**Date of Analysis: 2/11/14 06:46 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.75	Not Detected	1.9	Not Detected
Chloroethane	3.0	Not Detected	7.9	Not Detected
1,1-Dichloroethene	0.75	Not Detected	3.0	Not Detected
Freon 113	0.75	Not Detected	5.7	Not Detected
Methylene Chloride	7.5	Not Detected	26	Not Detected
1,1-Dichloroethane	0.75	0.86	3.0	3.5
cis-1,2-Dichloroethene	0.75	3.7	3.0	15
1,1,1-Trichloroethane	0.75	48	4.1	260
Trichloroethene	0.75	51	4.0	270
Tetrachloroethene	0.75	Not Detected	5.1	Not Detected
trans-1,2-Dichloroethene	0.75	Not Detected	3.0	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	94	70-130

eurofins | Air Toxics

Client Sample ID: EN1041D02052014

Lab ID#: 1402082-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021120**	**Date of Collection: 2/5/14 10:19:00 AM**	
Dil. Factor:	**1.68**	**Date of Analysis: 2/11/14 07:10 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	1.6	4.5	8.6
Tetrachloroethene	0.84	3.1	5.7	21
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	102	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	94	70-130

eurofins | Air Toxics

Client Sample ID: EN1041S02052014

Lab ID#: 1402082-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021121**	**Date of Collection: 2/5/14 9:50:00 AM**	
Dil. Factor:	**1.57**	**Date of Analysis: 2/11/14 07:35 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	8.3	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	4.3	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
Tetrachloroethene	0.78	4.5	5.3	30
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	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

eurofins | Air Toxics

Client Sample ID: EN0430D02042014

Lab ID#: 1402082-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021122**	**Date of Collection: 2/4/14 11:20:00 AM**	
Dil. Factor:	**1.57**	**Date of Analysis: 2/11/14 07:59 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	8.3	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	1.2	3.1	4.7
1,1,1-Trichloroethane	0.78	9.0	4.3	49
Trichloroethene	0.78	150	4.2	820
Tetrachloroethene	0.78	3.7	5.3	25
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	99	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	92	70-130

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1402082-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/11/14 11:42 AM**	

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	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	94	70-130

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1402082-18B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021208**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/12/14 12:01 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	97	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1402082-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/11/14 10:55 AM**	

Compound	%Recovery
Vinyl Chloride	95
Chloroethane	95
1,1-Dichloroethene	90
Freon 113	97
Methylene Chloride	97
1,1-Dichloroethane	99
cis-1,2-Dichloroethene	99
1,1,1-Trichloroethane	103
Trichloroethene	106
Tetrachloroethene	97
trans-1,2-Dichloroethene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	97	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1402082-19B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/12/14 09:05 AM**	

Compound	%Recovery
Vinyl Chloride	103
Chloroethane	94
1,1-Dichloroethene	93
Freon 113	100
Methylene Chloride	94
1,1-Dichloroethane	96
cis-1,2-Dichloroethene	99
1,1,1-Trichloroethane	102
Trichloroethene	102
Tetrachloroethene	93
trans-1,2-Dichloroethene	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	97	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1402082-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/11/14 10:02 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	104	70-130
Chloroethane	98	70-130
1,1-Dichloroethene	107	70-130
Freon 113	113	70-130
Methylene Chloride	109	70-130
1,1-Dichloroethane	105	70-130
cis-1,2-Dichloroethene	117	70-130
1,1,1-Trichloroethane	107	70-130
Trichloroethene	108	70-130
Tetrachloroethene	98	70-130
trans-1,2-Dichloroethene	87	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1402082-20AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/11/14 10:27 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	102	70-130
Chloroethane	97	70-130
1,1-Dichloroethene	110	70-130
Freon 113	115	70-130
Methylene Chloride	109	70-130
1,1-Dichloroethane	102	70-130
cis-1,2-Dichloroethene	118	70-130
1,1,1-Trichloroethane	106	70-130
Trichloroethene	108	70-130
Tetrachloroethene	100	70-130
trans-1,2-Dichloroethene	88	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1402082-20B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/12/14 09:41 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	117	70-130
Chloroethane	107	70-130
1,1-Dichloroethene	110	70-130
Freon 113	120	70-130
Methylene Chloride	116	70-130
1,1-Dichloroethane	109	70-130
cis-1,2-Dichloroethene	122	70-130
1,1,1-Trichloroethane	111	70-130
Trichloroethene	106	70-130
Tetrachloroethene	93	70-130
trans-1,2-Dichloroethene	86	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1402082-20BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p021205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/12/14 10:06 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	98	70-130
Chloroethane	96	70-130
1,1-Dichloroethene	102	70-130
Freon 113	111	70-130
Methylene Chloride	107	70-130
1,1-Dichloroethane	100	70-130
cis-1,2-Dichloroethene	111	70-130
1,1,1-Trichloroethane	106	70-130
Trichloroethene	106	70-130
Tetrachloroethene	97	70-130
trans-1,2-Dichloroethene	79	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	99	70-130