8976 Wellington Road
Manassas, VA 20109

May 30, 2018

Director, Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7014

Subject: 2017 Annual Corrective Action Status Report

Reference: IBM East Fishkill Corrective Action Program
IBM East Fishkill Facility
Hopewell Junction, New York
NYSDEC Part 373 Permit 3-1328-0025/00249
EPA ID No. NYD000707901

Dear Director, Remedial Bureau C:

In accordance with the provisions of the Module IX – General Ground Water Monitoring Conditions, Section H of the referenced permit, enclosed please find the following document for your review:

2017 Annual Corrective Action Status Report
Former IBM East Fishkill Facility
NYSDEC Site No. 314054, EPA ID No. NYD000707901

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact Dean Chartrand at (703) 257-2583 if you have any questions or require further information.

Sincerely yours,

M. E. Meyers

Mitchell E. Meyers
Manager, Environmental Engineering
IBM Corporate Environmental Affairs

Enclosure

cc:	J. LaClair	NYSDEC (with enclosure and electronic copy)
	NYSDEC Region 3	Regional Remediation Engineer (electronic copy)
	NYSDEC	Supervisor RCRA Permitting Section (electronic copy)
	USEPA Region 2	Chief RCRA Programs Branch (electronic copy)
	H. Wilkie	NYSDEC (electronic copy)
	G. Marone	GLOBALFOUNDRIES (with enclosure and electronic copy)
	M. Buckley	iPark East Fishkill LLC and iPark East Fishkill I LLC (with enclosure and electronic copy)

2017 Annual Corrective Action Status Report

Former IBM East Fishkill Facility
Town of East Fishkill, Dutchess County, New York
NYSDEC Site No. 314054, EPA ID No. NYD000707901

Prepared for:

IBM Corporate Environmental Affairs
8976 Wellington Road
Manassas, VA 20109

May 30, 2018

Prepared by:

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2017 Annual Corrective Action Status Report

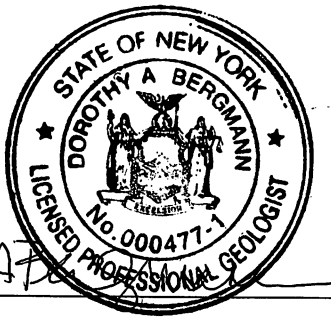
Former IBM East Fishkill Facility
Town of East Fishkill, Dutchess County, New York
NYSDEC Site No. 314054, EPA ID No. NYD000707901

May 30, 2018

As the person with primary responsibility for the performance of the geological services and activities associated with the captioned report, I certify that I have reviewed the document titled *"2017 Annual Corrective Action Status Report, Former IBM East Fishkill Facility, Town of East Fishkill, Dutchess County, New York, NYSDEC Site No. 314054, EPA ID No. NYD000707901"*. This report is dated May 30, 2018 and was prepared by Groundwater Sciences, P.C. (GSPC) and Groundwater Sciences Corporation (GSC) for IBM Corporation.

I certify that the associated geological services and this report have been prepared under my direct supervision. To the best of my knowledge; all such information contained in this report is complete and accurate.

This report bears the seal of a professional geologist; no alterations may be made to the information contained in this report unless made in accordance with Title 8, Article 145, Section 7209 of New York State Education Law.



Signature: _____ Date: 5/30/2018

Name: Dorothy A. Bergmann

License No: 00477

State: New York

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1 INTRODUCTION

This report has been prepared by Groundwater Sciences Corporation (GSC) on behalf of IBM Corporate Environmental Affairs for the former IBM East Fishkill Facility (Site). The Site is located at the Hudson Valley Research Park in the Town of East Fishkill, Dutchess County, New York (Figure 1-1).

On July 1, 2015 the Site was acquired by GLOBALFOUNDRIES U.S. 2LLC (GF). In 2017, the Site was subdivided into eight lots as shown on Plate 1. On September 1, 2017 National Resources, also doing business as i.Park East Fishkill LLC and i.Park East Fishkill I LLC, purchased lots 2, 3, 4, 6, 7, and 8. Lot 1 and Lot 5 remain GF property. GLOBALFOUNDRIES U.S. 2LLC, i.Park East Fishkill LLC, and i.Park East Fishkill I LLC are listed as facility owners under the current New York State Department of Environmental Conservation (NYSDEC) Part 373 Permit[1], with IBM maintaining responsibility for Groundwater Corrective Action[2]. The NYSDEC Part 373 Permit was renewed in 2011, with the Facility covering an area of approximately 450 acres referred to as the Main Site (Site). In addition to the Site, IBM has maintained the right to use the groundwater monitoring wells on the former IBM West Complex property, located west of the Site, and the former IBM Recreation Center property, located east of the Site, and has continued monitoring and maintenance of these off-Site wells as part of the Site's Groundwater Monitoring Plan (GMP) (See Plate 2). The Site includes seven shallow areas of concern (AOCs) designated as Operable Units (OUs) and the Deep Bedrock AOC (OU2) that are contaminated with organic chemicals. The shallow AOCs and corresponding OUs shown on Plate 2 are designated as Area A (OU5), Area B (OU3), Area C (Landfill/OU6), Building (B) 330 (B/330/OU8), Area D (OU4), Southeast Quadrant (SEQ/OU9), and Building 322 (B/322/OU7). There are no AOCs at the former IBM West Complex property or at the former IBM Recreation Center property.

The Site's groundwater monitoring program was implemented in 1979 to provide the data necessary to manage water quality problems and the Site water supply. Groundwater has historically been the primary water supply source for the Site and its neighbors. Of the 17 production wells historically operated by IBM, nine wells (PW-1, -2, -4, -5/5A, -6, -7, -9, -23, and -25) are located on the Site.

---

[1] *NYSDEC, November 2, 2011, 6NYCRR Part 373 Hazardous Waste Management Permit, IBM Corporation East Fishkill Facility.*

[2] NYSDEC, July 1, 2015, *Facility Permit Transfer IBM Corporation to GLOBALFOUNDRIES U.S. 2LLC, East Fishkill Facility*

Wells PW-5/5A, PW-6, and PW-7, and PW-9 are now inactive. The other production wells are located on properties to the north and northwest, and as of July 1, 2015 are GF-owned properties. Beginning in August 2007, water from the production wells has been supplemented with municipal water from Poughkeepsies' Water Treatment Facility via the Central Dutchess Water Transmission Line.

Groundwater monitoring and remediation activities have undergone a succession of incremental modifications since the late 1970s. A Groundwater Monitoring Plan (GMP) was implemented during the first quarter of 1996 and subsequently was approved by NYSDEC in accordance with Modules III and IX of the Site's original 6 NYCRR Part 373 Permit. In October 1999, the GMP sampling list and sampling frequencies were modified with NYSDEC approval. In 2003, minor changes to the GMP were approved by NYSDEC. IBM's Part 373 Permit was renewed by NYSDEC on November 2, 2011, and the GMP remained in effect per Modules II and IX of the Permit.

On April 16, 2014, NYSDEC approved groundwater extraction and treatment as the final corrective measures[3] and added Appendix II-H entitled "Final Corrective Measures and Response to Comments on the Statement of Basis" to the Part 373 Permit. NYSDEC assigned Operable Unit designations to each AOC listed in Appendix II-H at that time.

NYSDEC approved several changes to the groundwater monitoring plan and remediation systems in 2014. On January 15, 2014 NYSDEC approved a termination petition and work plan for shutdown of B/322 AOC (OU7) extraction well GW-618[4], as discussed in Section 4.2.2. On June 4, 2014 NYSDEC approved a proposal to discontinue detection monitoring and to decommission 25 wells at the former IBM West Complex property[5]. On October 29, 2014 NYSDEC granted permission[6] to discontinue routine monthly sampling of PW-5/5A, PW-6 and PW-7. Wells PW-5/5A, PW-6 and PW-7 had been removed from service in 2007 following approval from NYSDEC to conduct a

[3] NYSDEC to IBM Environmental Engineering, April 16, 2014, *DEC ID # 3-1328-00025/00249, 6NYCRR Part 373 Hazardous Waste, Treatment, Storage, and Disposal Facility Permit*.

[4] NYSDEC to IBM Environmental Engineering, January 15, 2014, *Regarding Termination Petition, Extraction Well 618, B/322 Remediation Area*.

[5] NYSDEC to IBM Environmental Engineering, June 4, 2014, *Regarding Sampling Termination Petition and Well Abandonment Plan, Former West Complex, IBM East Fishkill Facility*.

[6] NYSDEC to IBM Environmental Engineering, October 29, 2014, *Regarding GMP Modification for PW-5/5A, PW-6, and PW-7*.

controlled and monitored shutdown test designed to provide more efficient and targeted containment and recovery of contaminants at the Site.

On July 15, 2015 NYSDEC approved shutdown testing of B/322 AOC (OU7) extraction wells GW-612, GW-613, and GW-617[7]. On July 9, 2015 NYSDEC approved shutdown testing of Area B (OU3) extraction well GW-628[8], Area D (OU4) extraction well GW-032B[9], and SEQ (OU9) extraction well PW-23[10]. The results of these shutdown tests through the end of 2017 are discussed in Section 4.2 of this report.

On September 18, 2015 IBM submitted a modified GMP requesting changes in sampling frequency of volatile organic compounds (VOCs) and type and frequency of inorganic sampling parameters[11]. NYSDEC approved the request on September 30, 2015[12] and the new GMP was implemented in the fourth quarter of 2015.

The current GMP designates 381 wells as Hydraulic Effectiveness Monitoring (HEM) wells. These HEM wells are shown on Plate 2 and are listed in Table A-1 of Appendix A. 148 of these wells plus several other miscellaneous sampling points are monitored routinely as part of the Corrective Action Performance (CAP) Monitoring Network. The CAP monitoring wells and their physical specifications are listed in Table A-2 of Appendix A. The current GMP sampling schedule is shown on Table A-3 of Appendix A.

1.1 Purpose

This annual groundwater monitoring status report summarizes data collected during 2017 under the GMP and describes activities performed with regard to the groundwater monitoring program. This

[7] NYSDEC to IBM Corporate Environmental Affairs July 15, 2015, *Shutdown Test Request – Extraction Wells 612, 613, and 617, B/322 Area of Concern (OU-7).*

[8] NYSDEC to IBM Corporate Environmental Affairs, July 9, 2015, *Shutdown Test Request – Extraction Well 628, Area B Remediation Area (OU-3*).

[9] NYSDEC to IBM Corporate Environmental Affairs, July 9, 2015, *Shutdown Test Request – Extraction Well 032B, Area D Remediation Area (OU-4).*

[10] NYSDEC to IBM Corporate Environmental Affairs, July 9, 2015, *Shutdown Test Request – Production Well PW-23, Southeast Quadrant Area of Concern (OU-9).*

[11] IBM to NYSDEC via e-mail, Groundwater Sciences Corporation, September 17, 2015, *Groundwater Monitoring Plan, Former IBM East Fishkill Facility*.

[12] NYSDEC to IBM Corporate Environmental Affairs, September 30, 2015, *Request for Groundwater Monitoring Plan Modifications*.

report is being submitted to the NYSDEC to comply with the requirements of the Part 373 Permit for AOCs and solid waste management units (SWMUs) where groundwater is being monitored.

1.2 Scope

This report addresses items specified in Module IX, Section H of the 2011 Part 373 Permit and in Section 3.2 of the 2015 GMP. Each Permit and GMP requirement is quoted below and is cross-referenced to the report sections, appendices, plates, and/or figures, indicated in parentheses, where the requirement is addressed:

1. Summary of all analytical results. (Section 3.2; Appendices D, E, F, G)
2. Quality Assurance/Quality Control (QA/QC) per the GMP. (Section 3.2.3; Appendix F)
3. Pertinent monitoring data recorded in the well record, including the sampling field data sheets. (Section 3.1; Appendix C)
4. Quarterly groundwater elevation and survey data in tabular form, and potentiometric contour maps delineating the zone of capture and the rate and direction of groundwater flow. (Section 2; Appendix B; Plates 3 and 4)
5. Evaluation of contaminant migration, including maps for "Key Compounds" listed in Table 3-1 of the GMP. Isoconcentration maps shall be prepared annually showing the approximate limit of each plume. This limit is defined as the concentration equal to 5 micrograms per liter (µg/l) of one key compound or the sum of the normalized transformation products of key compounds (tetrachloroethene (PCE) series compounds). Include a statement regarding future contaminant movement. (Section 3.2.1.1; Plates 5 through 14)
6. Trend line plots for the Contaminant Reduction Monitoring (CRM) wells. (Section 3.2.1.2.1; Figures 3-1 through 3-19; Statistical Trends Appendix H)
7. Determination of statistically significant increase in contamination at Point-of-Compliance (POC) wells. (Section 3.2.1.2.2; Figures 3-20 through 3-25; Appendix H)
8. Determination of statistically significant changes in water quality at Corrective Action Monitoring (CAM) wells. (Section 3.2.1.3; Appendix H)
9. Production or monitoring well maintenance activities planned or performed. (Sections 4.1.4 and 4.2)
10. Plans for installation of additional wells. (Section 4.2.12)
11. Summary of well installation activities. (Section 4.2.1)
12. Pumping well rates and volumes. (Section 4.1.1; Table 4-1)
13. Contaminant recovery levels. (Section 4.1.2; Table 4-2 and Table 4-3)
14. Treatment efficiency data. (Section 4.1.3; Appendix G)

15. Any problems or other activities planned. (Section 4.2)
16. An evaluation of the progress of the corrective action monitoring program. (Section 4.3)

The above items are addressed in this report for the period of January 1, 2017 through December 31, 2017. In 2017, the monthly, quarterly, semiannual, and annual CAP wells (Table A-3 of Appendix A) were sampled in April and May. Therefore, chemistry and water level data from the most comprehensive monitoring round completed in April and May 2017 were used to construct the maps in this report.

2 HYDROGEOLOGY

Groundwater at the Site occurs in saturated zones within both the overburden (soil) and bedrock units. In general, recharge to the bedrock passes through or around the overlying soil units, which include fill, alluvial sands and gravels, an extensive but discontinuous layer of glaciolacustrine silt and clay, and an extensive, dense glacial till. The maximum thickness of these soil units is greater than 120 feet. Strong vertical flow of groundwater is induced by three active on-Site corrective action pumping wells completed in the deep bedrock.

This section presents the results of quarterly water level monitoring for 2017 in both the soil and bedrock saturated zones and discusses the effects of corrective action pumping on groundwater flow in these units.

2.1 Quarterly Water Levels

In 2017, the hydrogeologic characteristics of the Site were evaluated by means of quarterly water level measurements recorded principally on January 3-9, April 24-26, July 10-12, and October 9-11, 2017 at the designated Hydraulic Effectiveness Monitoring (HEM) well locations listed in Table A-1 of Appendix A. The water level data have been converted to groundwater elevations and are tabulated in Appendix B. The most extensive groundwater sampling round was completed in the second quarter 2017; therefore second quarter 2017 groundwater elevations are the focus of the following discussions.

2.2 Soil Groundwater Elevations

Plate 3 shows the groundwater elevations for portions of the soil water table during the second quarter of 2017 (April 24-26) under dynamic conditions of long-term corrective action pumping in the bedrock. The gray cross-hatched areas on Plate 3 indicate areas where soils are inferred to be unsaturated, largely as a result of dewatering by corrective action pumping. In some areas, soils that lie on top of buried bedrock ridges or other areas of relatively high bedrock surface elevation are also unsaturated. The unsaturated areas shown on Plate 3 for the second quarter are also shown on the soil isoconcentration contour maps.

2.2.1 Stratigraphic Controls on Groundwater Flow

Groundwater exists in the soils beneath the Site under generally unconfined (water table) conditions. Groundwater flow within these soils is controlled by various factors including: (1) the upper surface topography of the soil units; (2) the hydraulic characteristics of the soils; (3) the location of recharge and discharge zones; (4) horizontal and vertical gradients; and (5) the vertical hydraulic conductivity across stratigraphic units within the soils, and across the interface between the soils and bedrock.

In the northern parts of the Site, the soil water table generally mirrors the surface topography of the extensive but discontinuous glaciolacustrine silt/clay which, together with several areas of extremely dense glacial till, is the primary control on soil groundwater flow. Areas where the glaciolacustrine silt/clay is present are shaded tan on Plate 3. The silt/clay and dense till generally inhibit vertical migration of soil groundwater into the lower soil units and act as barriers to vertical contaminant transport. In areas where the silt/clay is absent and where the till is less dense or absent, soil groundwater passes through deeper soil units and into the bedrock. Areas without saturated soil ("dry" areas) are shown with cross-hatching on Plate 3.

Significant areas with regard to contamination of soil groundwater in the zones of perched water are the fine- to coarse-grained alluvial sand above the silt/clay in Area A (OU5), Area D (OU4), and the B/322 AOC (OU7). Significant areas with regard to contamination of soil groundwater in glacial till are in the B/330 (OU8) and Area C (Landfill/OU6) AOCs.

2.2.1.1 Area A (OU5)

North of B/309 and B/310, the stratigraphic sequence consists of fill and silty sand overlying dense lodgment till with bouldery till. The glaciolacustrine silt/clay is absent north of B/309 and B/310 and east of B/309, as shown on Plate 3. The stratigraphic sequence from north to south gradually changes from till (north of B/309 and B/310) to include fill, sand, and sand-and-gravel lenses deposited on top of the silty sand that overlies the silt/clay confining unit.

Groundwater is typically perched within the alluvial sand above the silt/clay in Area A, and flows from the northeastern edge of B/310 to the north and northeast. The flow in the northern part of Area A is typically from the northeast corner of B/310 and the northern portion of B/309, and from B/303 toward an area where the silt/clay is generally absent north of the linkway between B/309

and B/310 (refer to "240 feet" contour on Plate 3). The soil groundwater table north of B/309 and the northeast corner of B/310 is located primarily in the till, where soil groundwater typically flows downward into the bedrock in the vicinity of wells GW-010, GW-748, and GW-763. The area in the vicinity of these wells is saturated and appears as a sink for soil groundwater and is referred to as the "B/309 sink."

The remainder of the flow from beneath B/310 in the northern part of Area A is typically toward the northwest corner of B/308 where the silt/clay and dense till are absent (Plate 3). In this area, referred to as the "B/308 sink" (refer to closed "245 feet" contour, Plate 3), soil groundwater flow is primarily lateral toward the edge of the silt/clay and generally vertically downward beyond the edge of the silt/clay and into the bedrock, where it is captured by production well PW-2, as described in Section 2.3.

The groundwater flow divide between the B/308 and B/309 groundwater sinks is shown on Plate 3. At the B/384 Sump west of B/308, groundwater was captured and treated by the Area A treatment system at an average rate in 2017 of 0.5 gallons per minute (gpm). Despite this low flow rate, it appears that a significant portion of the easterly flow from the VOC source area beneath B/310 is captured by the Area A treatment system.

Flow from the southeast corner of B/310 is to the south and southeast (Plate 3). A groundwater flow divide in the alluvial unit above the silt/clay is located near wells GW-103 and GW-980 and beneath B/386. This divide separates shallow groundwater flow to the east and to the north toward the B/308 sink, from shallow groundwater flow to the south across the edge of the silt/clay and then downward into deeper soils (primarily till) and bedrock in the vicinity of the southeast corner of B/316.

2.2.1.2 B/322 AOC (OU7)

Groundwater flow in the B/322 AOC controls migration of a plume emanating from the northeastern corner of B/322 near well GW-735, as discussed in Section 3.2.1.1.1. Groundwater in the alluvial unit above the silt/clay (Plate 3) flows from an area of high top-of-silt/clay elevation in the vicinity of wells GW-735 and GW-627 to the south-southwest across the northern half of B/322 and toward B/323. In addition to this southerly component of flow toward B/323, the groundwater flow divide for the B/322 AOC shown on Plate 3 also produces a westerly component of flow

toward the B/322 remediation system consisting of pumping wells GW-612 and GW-617. A NYSDEC-approved shutdown test of the B/322 remediation system began on August 1, 2015, as discussed in Section 4.2.3. Except for brief quarterly sampling events, the B/322 remediation system was inactive throughout 2017.

2.2.1.3 B/330 (OU8), Area C (Landfill/OU6), and SEQ (OU9)

In the SEQ, B/330, and Area C (Landfill) AOCs, the silt/clay is mostly absent except for several small areas shaded tan on Plate 3. Although some groundwater in these areas is perched on the silt/clay, the soil groundwater elevations shown on Plate 3 in the B/330 AOC are primarily for the till overlying the bedrock. This till contains the B/330 and Area C (Landfill) AOC soil groundwater plumes, which are discussed further in Section 3.2.1.1.1.

Soil groundwater in the B/330 AOC is mounded in the area between B/330D and B/335 at wells GW-180, GW-181, and GW-602 (Plate 3); part of this area is not capped by a building slab or parking lot and allows for direct infiltration of precipitation. Elsewhere beneath B/330D and areas to the north and west, the soil unit is believed to be unsaturated due to the presence of: (1) buildings and parking lots that limit infiltration of precipitation; (2) natural soils that are too thin and too permeable to allow perching of groundwater; and (3) groundwater withdrawals for bedrock production well PW-25, which has dewatered much of the soil beneath the B/330 AOC.

A NYSDEC approved shutdown test of the SEQ shallow production well PW-23 began August 10, 2015. Except for brief sampling events, production well PW-23 was inactive throughout 2017. The silt/clay is absent in the SEQ and the soil and shallow bedrock units are hydraulically connected. In the absence of PW-23 extraction operations, groundwater flow in the saturated overburden is generally to the north from the area of well PW-23 towards Lime Kiln Road.

2.2.1.4 Area D (OU4)

Area D extraction well GW-032B operated prior to commencement of the NYSDEC-approved shutdown test of GW-032B on August 1, 2015. GW-032B was pumped only for sampling purposes in 2017. Groundwater flow in Area D is generally to the west from B/325 towards the Gildersleeve Brook.

2.2.1.5 Former IBM West Complex Property

Much of the former IBM West Complex property is topographically higher than the Site. As a result, soil groundwater shown on Plate 3 in the western portion of the former IBM West Complex flows from a high in the vicinity of B/630, B/640, and former B/650, where historical groundwater elevations were typically greater than 265 feet above mean sea level, to the west, northwest, north, and northeast. In the northeastern portion of the former IBM West Complex property, groundwater in the vicinity of wells GW-400 and GW-403 flows to the east beneath the John Jay High School property and toward Gildersleeve Brook.

2.2.2 Gradients and Groundwater Flow Velocities

Based on results of previous RCRA Facility Investigations, the calculated linear velocity of horizontal groundwater flow within the majority of the alluvial sand above the glaciolacustrine silt/clay ranges over two orders of magnitude, from about 0.06 to 6.3 feet per day (ft/day), with a median of about 0.6 ft/day. These flow velocities were calculated based on: (1)hydraulic conductivities determined from evaluation of slug tests; (2) measured hydraulic gradients ranging from 0.0051 to 0.098, with a representative median gradient of 0.022; and (3) an average porosity of 35%, as determined from laboratory tests on soil samples. More locally, in the area west of B/322, estimated hydraulic conductivities for certain monitoring wells screened in the alluvial sand have been somewhat higher, with a median value of about 10 ft/day.

2.3 Bedrock Groundwater Elevations

Prior to Site development in the 1960s, groundwater in the bedrock water-bearing zone generally existed under confined or semi-confined conditions. Groundwater flow in the bedrock unit under these conditions was controlled by vertical recharge from the overlying saturated soil, by direct infiltration in areas where the bedrock flow system was semi-confined, and by the hydraulic conductivity, connectivity, and geometry of fractures and solution features in the dolostone bedrock.

2.3.1 Potentiometric Head Distribution

Under natural (non-pumping) conditions, bedrock groundwater flow would follow topography in a generalized way, flowing from topographically high areas of natural recharge to discharge zones associated with streams such as Gildersleeve Brook and its tributaries. However, the generalized

natural flow configuration has been altered by bedrock production well withdrawals initiated in the 1960s and by barriers to direct infiltration, such as buildings and parking lots, erected as the Site was developed.

Plate 4 shows the potentiometric head distribution in the deep bedrock groundwater system during the period April 24-26, 2017 under dynamic conditions of long-term corrective action pumping at deep bedrock production wells PW-1, -2, and -25. With NYSDEC approval of the Production Well Optimization Test, discussed in Section 4.2.7, pumping was discontinued at PW-4 on April 17, 2017.

The data used in contouring Plate 4 are generally from the deepest of the bedrock wells in a well cluster and corresponds to a screened or open-hole interval elevation between approximately 50 and 120 feet amsl. This elevation interval generally correlates with the principal water-bearing zones in the on-Site deep bedrock production wells. Only groundwater elevation data from wells used in contouring are shown on Plate 4. The bedrock potentiometric elevations posted on Plate 4 were recorded during the second quarter of 2017, corresponding to the most comprehensive round of water quality sampling.

As shown on Plate 4, groundwater flow directions are inward towards the northwestern, north-central, and south-central portions of the Site, with steep horizontal gradients in the vicinity of the three active bedrock production wells. Bedrock groundwater elevations range from more than 270 feet amsl at well GW-542 and GW-529 near the Southeast Quadrant (OU9) and Area C (Landfill/OU6), to less than 160 feet amsl in the vicinity of on-Site deep bedrock production wells PW-2 and PW-25 (Plate 4). Excluding the production wells, the lowest measured bedrock groundwater elevation shown on Plate 4 was 152.99 feet amsl at well GW-606 on the east side of B/334, in the area east of nearby bedrock production well PW-25.

2.3.2 Gradients and Structural Controls on Groundwater Flow

The essentially continuous withdrawal of bedrock groundwater since the early 1960s for Site water supply and corrective action has altered the flow dynamics on-Site and the hydrogeologic conditions within the soil and bedrock water-bearing zones relative to the natural conditions that existed before the start of pumping. In response to corrective action pumping, the lowering of the potentiometric levels within the bedrock water-bearing zone on-Site has resulted in a situation

where formerly saturated soils are now unsaturated and where the bedrock potentiometric surface is now below the top-of-bedrock surface in some areas. Where this situation has occurred, the bedrock water-bearing zone may have been converted locally from a confined or semi-confined condition to a water table or unconfined condition, resulting in some unsaturated zones in the upper bedrock.

The geometry of the bedrock groundwater potentiometric surface under the influence of long-term corrective action pumping suggests that the hydraulic characteristics of the fractured bedrock groundwater system are influenced by the bedrock's structural fabric, which generally trends north-south. This structural fabric has been created by complex folding, fracturing, and faulting. In this regard, the bedrock groundwater potentiometric surface map (Plate 4) shows various anomalies in contour spacing and patterns of directional hydraulic conductivity that are related to the degree of fracture connectivity between wells and to the variations in directional hydraulic conductivity across the Site. The patterns of drawdown and connectivity are controlled by discrete fractures. In general, the north-south features are likely the result of bedding plane fractures and faults, and the east-west features are the result of transverse fractures and faults such as cross joints and tear faults. These structural features are augmented by solution activity that has created significant voids and more permeable weathered zones in the dolostone bedrock. Such voids and weathered zones have been encountered frequently during more than 35 years of drilling monitoring wells at the Site.

The primary controls on the directional variability of hydraulic conductivity in the bedrock are zones of high fracture connectivity such as fracture zones. Groundwater flow paths are not necessarily perpendicular to the potentiometric surface contours shown on Plate 4 because the orientation of the greatest principal hydraulic conductivity (K) of the hydraulic conductivity tensor is not necessarily parallel to the apparent hydraulic gradient. This situation is typical of a fractured bedrock aquifer, where zones of high fracture connectivity facilitate groundwater flow in directions other than those that would be determined by the apparent potentiometric head distribution as shown on the potentiometric surface contour map. Therefore, the groundwater flow arrows shown on Plate 4 represent only generalized flow directions and not particle flow paths.

Groundwater flow velocities in the bedrock aquifer are controlled by fracture geometry, orientation, density, aperture, and smoothness. These controlling parameters are difficult to specifically characterize at this Site because of the complex structural geology. Consequently, meaningful

bedrock groundwater flow velocities are difficult to estimate. However, a range of horizontal gradients in the deep bedrock can be estimated from Plate 4. These horizontal gradients generally range from 0.08 to 0.3 (near PW-25), except in the northeast corner of the Site and the eastern portion of the SEQ. The SEQ exhibits gradients on the order of 0.02 or less. These horizontal gradient estimates are similar to those from previous years.

2.3.3 Hydraulic Containment

Hydraulic containment of groundwater occurs in the bedrock within an area encompassing the Site, former IBM Recreation Center property, and at least the eastern half of the former IBM West Complex property. Based on the April 24-26 (Plate 4) potentiometric contours, the Site can be divided into three areas of hydraulic capture/containment.

The most extensive area of capture is generated by production well PW-1 in the western third of the Site and the eastern half of the former IBM West Complex property. This area of capture also encompasses the bedrock beneath Area D and most of the B/322 AOC. It extends to the southwest beyond Gildersleeve Brook and a portion of the area beneath the former IBM West Complex, to the northwest beyond the intersection of West Drive and Route 52, to the east in the area between B/322 and B/315 and between B/321 and B/320B, and to the south between B/323 and B/323A and between inactive production wells PW-5/5A and PW-6. The northeastern and eastern limits of the groundwater capture area are defined by localized areas of higher potentiometric head greater than 205 feet amsl in the vicinity of well GW-122 and greater than 215 feet amsl in the vicinity of well GW-130. The mound in the potentiometric surface at well GW-130 corresponds to a topographic high in the bedrock surface near the southeast corner of B/322 and, based on previous investigations, is inferred to be an area of low bedrock transmissivity with recharge at the limit of the perched hydrogeologic unit. The bedrock in this area is relatively unweathered with nearly horizontal (flat-lying) bedding.

A second extensive area of hydraulic capture in the bedrock is located in the northeastern quadrant of the Site due to groundwater withdrawals from bedrock production well PW-2. This area of capture is bounded on the west by a groundwater flow divide separating it from the area of capture for well PW-1. As discussed above, this flow divide is defined by localized areas of high potentiometric head in the vicinity of a buried bedrock ridge. On the southern boundary, a groundwater flow divide separates flow toward well PW-2 from flow toward well PW-25. The area

of capture includes the bedrock beneath shallow AOC A and AOC B, and extends to the north at least to Route 52 and to the east as far as Lime Kiln Road and possibly Shenandoah Road. In the eastern portion of the SEQ, the direction of groundwater flow is generally to the northwest in the area between Lime Kiln and Shenandoah Roads. Groundwater in the deep bedrock then flows westward back onto the Site where it is captured by production well PW-2.

The operation of production well PW-25 creates a third area of hydraulic capture. The western boundary of the capture zone extends from the southeastern corner of the former IBM West Complex property to the potentiometric high at well GW-130. Some groundwater to the east of inactive production well PW-5/5A, in the vicinity of B/323 and B/323A, is also captured by PW-25. The northern boundary of this hydraulic capture zone is defined by a groundwater flow divide that has developed due to bedrock groundwater withdrawals from production wells PW-2 and PW-25. To the west, the groundwater flow divide runs from the potentiometric high at well GW-130 to the west of inactive bedrock production well PW-6. The capture area to the east extends to the bedrock ridge in the Southeast Quadrant (OU9), and includes the Area C AOC (Landfill/OU6). The area of capture may extend south as far as Interstate 84 and encompasses the bedrock aquifer beneath B/330D, B/335, B/338, B/330C, and B/334.

3 GROUNDWATER CHEMISTRY

As mentioned in the previous sections, groundwater plumes composed of volatile organic compounds (VOCs) are present in both the soil and bedrock saturated zones at this site. This section presents the results of groundwater monitoring of these plumes in 2017. The results of related QA/QC sampling conducted in 2017 are also discussed.

3.1 Sampling

Sampling was conducted at locations and frequencies specified in Table A-3. The monitoring and production wells specified in the GMP were sampled for the required parameters during each quarter of 2017 with no exceptions. A sampling record for each well location is provided on a compact diskette (CD) in Appendix C. This CD contains purging and sampling data for 2017, as specified in Table 7-1 of the GMP, "IBM East Fishkill Well Record and Data Format." The data are stored in a standard database file format (SAMP17a.DBF) readable by most database and spreadsheet applications. SAMP17a.DBF contains the following information sorted by well/location number and sampling date:

1. Well or sample location number
2. Date of sample
3. Sample identification number
4. Equipment used
5. Depth to water prior to purge
6. Purge rate
7. Purge volume
8. Sampler's initials
9. Number of containers for each type of analysis
10. PID reading (if applicable)
11. Whether the well was evacuated
12. Relevant comments

Also included on the CD in Appendix C is the database file FIELD17a.DBF. This file contains field parameter data for pH, temperature, specific conductance, and turbidity. These parameters were measured in the field at the time of sample collection.

Appendix C also contains a daily summary of meteorological data obtained from the National Climatic Data Center for the Dutchess County Airport, the nearest available station. Meteorological data for a given sample can be obtained by cross-referencing the date of the sample with the corresponding date in this table.

3.2 Chemistry Results

This section provides results of analytical laboratory testing of groundwater and quality assurance/quality control samples collected at the Site in 2017.

3.2.1 Groundwater Chemistry Results - VOCs

VOC groundwater chemistry data for samples collected during the first through fourth quarters of 2017 (excluding the production wells and treatment systems) are presented in Appendix D. The presentation of the data in Appendix D is consistent with the requirements of the GMP.

The concentrations of the required monitoring parameters are presented in a table in numerical ascending order by sample location and then chronologically for each sample location for the period of January 1 through December 31, 2017. The results for duplicate samples (split samples) collected for intralaboratory precision information during 2017 are also presented in Appendix D and are discussed in Section 3.2.3. Production well analytical data (Appendix E), Quality Assurance/Quality Control analytical data (Appendix F), and groundwater treatment analytical data (Appendix G) are presented in a similar format as Appendix D.

Appendix H lists maximum concentrations and location of the samples with the maximum concentration detections during 2017 for GMP monitoring wells (not including production wells and groundwater treatment locations) for each of the chemical constituents/monitoring parameters listed in Table II-3 of the Part 373 Permit. These parameters are included in the sampling program based on their detection histories and historical concentrations relative to the Part 703 New York State Groundwater Quality Standards (NYSGQS).

3.2.1.1 Groundwater Chemistry Maps

There are at least nine separate areas of VOC presence above applicable NYSGQS (plumes) in the soil unit and at least four separate VOC plume areas in the bedrock. The principal constituents of

the plumes are tetrachloroethene (PCE), trichloroethene (TCE), *cis*-1,2-dichloroethene (CIS), vinyl chloride (VC), and 1,1,2-trichloro-1,2,2-trifluoroethane (Freon® TF) (Plates 5 through 14). PCE, TCE, CIS, and VC are discussed as a group and are collectively referred to as the PCE-series compounds. In general, the PCE plumes are the most laterally extensive and PCE concentrations are generally higher at a given well than the other principal VOC constituents. Isoconcentration contour maps were prepared using groundwater chemistry data collected from April through May 2017. As required by the GMP and Part 373 Permit, these maps show the approximate limit of each plume as defined by a concentration equal to the applicable NYSGQS of 5 µg/l for PCE, TCE, CIS, and Freon TF and 2 µg/l for VC.

In general, these isoconcentration contour maps show that contaminant transport is controlled primarily by the direction of groundwater flow in the soil and bedrock. As discussed in Sections 2.3.3 and 2.3.4, Site groundwater at concentrations exceeding the NYSGQS is hydraulically contained to the Site by corrective action groundwater withdrawals from three on-Site deep bedrock production wells.

3.2.1.1.1 VOC Plumes in Soil and Shallow Bedrock Groundwater

The soil and shallow bedrock groundwater plumes are identified by AOC, beginning with Area A (OU5). Area A contains two soil plume areas composed primarily of PCE (Plate 5). One of the PCE plumes is in the glacial till and appears to be sourced near the northwest corner of B/309 with the highest concentrations in samples collected from well GW-714. Smaller plumes of TCE (Plate 6), CIS (Plate 7), and Freon® TF (Plate 9) are also present in this area. The lateral extent of the PCE plume is not well-defined south of well GW-714 (Plate 5), where the glaciolacustrine silt/clay inhibits vertical contaminant transport between the shallow soils and the till underlying the silt/clay. A second PCE plume lies in the alluvial sand and gravel above the glaciolacustrine silt/clay and is sourced near the eastern side of B/310 where PCE concentrations are greater than 5,000 µg/l. Two GMP monitoring wells (GW-015 and GW-706) and the B/384 Sump (shown on Plate 5) monitor the central portion of this plume. Based on historical data from monitoring wells that are not routinely sampled, this plume appears to extend to the east and northeast, in the direction of groundwater flow toward the north beneath B/308 near wells GW-816 and GW-760 where the silt/clay and dense till are absent (the "B/308 sink" described in Section 2.2.1.1). The PCE plume also appears to extend to the southeast beneath B/386. PCE concentrations less than 50 µg/l are found south of

B/386 and Shenandoah Drive. Isolated plumes of TCE (Plate 6), CIS (Plate 7), and VC (Plate 8) that are less prominent in lateral extent and have lower in concentrations than the PCE plume are located in the same general area near the linkway between B/310 and B/308.

Area B (OU3) contains low level concentrations (less than 5 µg/l) of PCE in soil and shallow bedrock near GW-046 (soil, Plate 5) and GW-628 (shallow bedrock, Plate 10). Prior to the start of NYSDEC-approved shutdown testing in 2015, active remediation of the PCE presence in this area of the Site was accomplished by extraction and treatment of shallow bedrock groundwater Area B extraction well GW-628. Historically, PCE (Plate 5) and TCE (Plate 6) concentrations less than approximately 3 µg/l have been detected at soil monitoring well GW-064 along Lime Kiln Road northeast of well GW-628. Low concentrations (generally less than 1.5 µg/l) of PCE and TCE have also been detected at quarterly bedrock monitoring well GW-065 (Plates 10 and 11). PCE and TCE did not exceed 1 µg/l during second quarter sampling in Area B. Section 4.2.4 contains additional discussion of Area B shutdown test sampling. No PCE-series parameter or Freon® TF plumes are present in the Area B AOC.

The B/330 AOC (OU8) soil VOC plumes (Plates 5 through 9) have multiple apparent source areas and consist primarily of PCE, with lower concentration and less laterally extensive TCE, CIS, and VC plumes. The soil groundwater plumes overlie more laterally extensive plumes in the underlying deep bedrock (Plates 10 through 14). One of the source areas for the B/330 AOC soil groundwater plumes is located beneath the south-central portion of B/330D, near well GW-572 (220,000 µg/l of PCE, Plate 5). Separate-phase PCE was recovered during sampling of well GW-572 between 1994 and 2001. A second apparent soil source area is located on the northeast side of B/330C, near well GW-956. The PCE-series parameter plumes in this area of the Site appear to be associated with a localized source in the vicinity of soil monitoring well GW-576. A third lower concentration soil VOC plume is associated with an apparent source near well GW-181 between B/330D and B/335 where PCE, TCE, CIS, and VC concentrations are 24 µg/l or less.

The isolated soil VOC plume associated with Area C (Landfill/OU6) is also composed primarily of PCE compounds and has an apparent source near soil/bedrock monitoring well GW-561 (Plates 5 through 9) and shallow bedrock well GW-559 (Plates 10 through 14). The Area C (Landfill/OU6) soil plume is bounded on the east by unsaturated soils associated with a topographic high in the bedrock, and extends downward into the bedrock, where it is captured by PW-25. The soil

groundwater plume has PCE concentrations less than 10 µg/l. The Area C (Landfill/OU6) shallow bedrock VOC plumes (Plates 10 through 14) associated with well GW-559 are also ultimately captured by PW-25.

Area D (OU4) contains low levels of PCE (Plate 5), TCE (Plate 6), and CIS (Plate 7) near shallow pumping well GW-032B, which lies approximately 50 feet west of the Area D source area. The predominant component is TCE with second quarter concentrations of 2.6 µg/l in well GW-032B and 2.0 µg/l in GW-757. The VOC presence does not migrate to the bedrock in Area D. Well GW-032B did not operate in 2017 per the NYSDEC-approved shutdown test, as discussed in Section 4.2.5. No PCE-series parameter or Freon® TF plumes are present in the Area D.

The B/322 AOC (OU7) contains soil groundwater plumes in the alluvial sand and gravel unit consisting primarily of PCE-series compounds PCE (Plate 5), TCE (Plate 6), and CIS (Plate 7) together with a smaller Freon® TF plume (Plate 9) with an apparent source area in the vicinity of the linkway between B/322 and B/320B. The PCE, TCE, and CIS soil groundwater plumes have a southerly component extending from the area northeast of B/322 (wells GW-627 and GW-735) toward wells GW-767 and GW-793, and a westerly component extending from the northeast corner of B/322 toward wells GW-768, GW-769, and GW-771. Concentrations of PCE, TCE and CIS are less than 10 µg/l west of B/322. Concentrations of these PCE-series parameters are less than 1 µg/l at former extraction wells GW-612 and GW-617 and at nearby monitoring well GW-773, located west of West Drive. The Freon® TF plume shown on Plate 9 is located in the area of well GW-735 (140 µg/l), but is not detected above 1 µg/l west of B/322. Except for quarterly sampling events, wells GW-612 and GW-617 did not operate in 2017 per the NYSDEC-approved shutdown test, as discussed in Section 4.2.3.

Concentrations in samples collected from SEQ AOC wells were less than the NYSGQS for the PCE-series compounds and Freon® TF as shown on Plates 5 through 14. No PCE-series parameter or Freon® TF plumes are present in the SEQ AOC.

3.2.1.1.2 VOC Plumes in Deep Bedrock Groundwater

In addition to the shallow bedrock plumes at the B/330 (OU8) and Area C (Landfill/OU6) AOCs, the deep bedrock contains several plumes of PCE-series compounds and Freon® TF. Four general

areas of VOC presence in bedrock groundwater that currently comprise the Deep Bedrock AOC (OU2) have been identified at the Site as described below:

Northern Portion of the Site Beneath Area A - Bedrock groundwater plumes located beneath Area A and are captured by bedrock production well PW-2, as shown on Plates 10 through 14. The Area A bedrock plumes consist primarily of PCE (Plate 10) with lower concentration and laterally less extensive plumes of TCE (Plate 11), CIS (Plate 12), and Freon® TF (Plate 14). VC (Plate 13) is detected in PW-2, but not in Area A bedrock monitoring wells. The Area A plumes originate from at least three apparent source areas, described as follows:

1. *In the shallow soil near the northwest corner of B/309 (the "B/309 sink").* This apparent source is highlighted by a PCE concentration of 600 µg/l at bedrock well GW-716 (Plate 10) on the north side of B/310.
2. *In the soils at the northern edge of B/308 (the "B/308 sink").* As discussed in Section 2.2.1.1, groundwater impacted by VOCs in the overlying sand and gravel unit flows beyond the edge of the silt/clay at the northeast and northwest corners of B/308 and migrates downward through permeable soils and into the bedrock (Plate 3).
3. *In the deep bedrock as indicated by relatively elevated PCE concentrations at well GW-118 (210,000 µg/l in the second quarter of 2017, Plate 10).* These concentrations are indicative of dense non-aqueous phase liquid (DNAPL) in the bedrock beneath the Area A.

A Freon® TF plume with a maximum concentration of 79 µg/l (well GW-716) exists in the bedrock beneath Area A (Plate 14), and is captured by PW-2. The apparent source of the Freon® TF presence is inferred to be the "B/309 sink". Freon® TF was also detected in well GW-118 (1,500 µg/l).

Southern Portion of the Site Beneath the B/330 AOC - The large bedrock PCE (Plate 10), TCE (Plate 11), CIS (Plate 12), and more localized Freon® TF (Plate 14) plumes associated with the B/330 AOC have principal sources in the soil and shallow bedrock beneath and proximate to B/330C and B/330D. The bedrock plumes beneath B/330C and B/330D are captured by bedrock production well PW-25. PW-4, which extracted groundwater until April 17, 2017, captured a small segment of these groundwater plumes.

Northwestern Portion of the Site Beneath the B/322–B/320B Linkway - PCE (Plate 10), TCE (Plate 11), and Freon® TF (Plate 14) are present at low levels, less than 30 µg/l, in wells GW-737, GW-739, GW-742, and PW-1 near B/322. The source of these low concentrations of PCE-series

compounds and Freon® TF appears to be the shallow B/322 source area. The VOC in bedrock groundwater in this portion of the Site is captured by bedrock production well PW-1.

B/300 Area - A fourth bedrock VOC plume area originates on the northern side of B/300 in the area of bedrock wells GW-959 and GW-960. As depicted on Plates 10 through 13, this small VOC plume attenuates beneath B/300 a short distance from its apparent source area. Groundwater in this area of the Site is within the apparent limits of hydraulic capture by production well PW-25.

3.2.1.2 Chemistry Graphs

In addition to reviewing the 2017 VOC chemistry data with regard to the three-dimensional distribution of VOCs, the data were reviewed by graphing concentration versus time for PCE-series, PCE, TCE, CIS, VC, and Freon® TF for Contaminant Reduction Monitoring (CRM) and Point of Compliance (POC) wells listed on Table A-3 in Appendix A. The collective concentration for the PCE-series compounds is determined by normalizing the groundwater concentrations of the transformation products of PCE so as to account for the degradation of PCE by dehalogenation, which occurs at different rates and by different processes across the Site. The PCE-series concentration is calculated by multiplying the concentrations of TCE, CIS, and VC by the ratio of the molecular weight of PCE to the molecular weight of each degradation product, and then summing the products. In this way, a more useful picture of total contaminant levels can be developed than might otherwise be the case if each of these four compounds were to be examined separately. The semilogarithmic graphs are shown on Figures 3-1 through 3-25 and were prepared using the data available from 1990 through the fourth quarter of 2017. Where multiple or duplicate samples were collected during a single day, the concentration was calculated by averaging the data from samples collected on that day.

Some of these graphs exhibit downward concentration trends that are apparent by inspection. Other graphs suggest seasonal variations in the chemical concentrations. The data have been statistically evaluated for trend using *WQStat Plus*[13], a widely-used water quality statistics program. Several non-parametric tests are available in *WQStat Plus* and two of the non-parametric tests for trend were used to analyze the time versus concentration data for the CRM wells. These tests are the Mann-Kendall Test (using deseasonalized data, where possible) and the Seasonal Kendall Test (a

[13] Intelligent Decision Technologies, Ltd., 1998, *WQStat Plus,* version 1.56.

generalization of the Mann-Kendall Test that handles seasonal data internally). These non-parametric tests do not require that the data be normally distributed, and are valid even when data are missing, tied, or censored (e.g., ND@0.5 µg/l). Statistically significant trends, where they occur, are defined at a significance level of $\alpha = 0.10$ or less, which corresponds to a confidence limit of 90% or higher.

3.2.1.2.1 Contaminant Reduction Monitoring Wells

The results of the Seasonal Kendall Test for trend are shown Appendix H for each CRM well. The statistical outcomes shown in the appendix are summarized below. Several statistically significant trends in concentration are noted for the 10-year period of 2008 to 2017:

1. There were no statistically significant increasing trends.
2. PCE-series concentrations detected in samples collected from Area A well GW-016 (soil), Area A well GW-714 (soil) and Area A downgradient wells GW-104 (soil) and GW-105 (bedrock) are decreasing.
3. PCE-series concentrations detected in samples collected from B/322 extraction well GW-612, Area D extraction well GW-032B, and Area B extraction well GW-628 exhibit statistically significant decreasing trends.
4. PCE-series and Freon® TF concentrations detected in samples collected from production well PW-1 exhibit a statistically significant decreasing trend.
5. PCE-series concentrations detected in samples collected from production well PW-25 exhibit a statistically significant decreasing trend.

3.2.1.2.2 Point-of-Compliance Wells

The results of the Seasonal Kendall Test for trend are shown in Appendix H for each POC well as required by the Part 373 Permit. VOC concentration data for samples collected from Area B well GW-064 and SEQ well GW-990 exhibit a weak statistically significant decreasing PCE-series trend. The VOC concentration data for the remaining POC wells do not exhibit statistically significant trends. The lack of a trend for many of the POC wells reflects non-detect or stable low-level VOC concentrations consistently below NYSGQS that have become asymptotic.

3.2.1.3 Changes in Water Quality at Corrective Action Monitoring Wells

As required by the Part 373 Permit, statistically significant changes in water quality at the designated Corrective Action Monitoring (CAM) wells (Appendix A, Table A-2) were determined

using the Mann-Whitney Test (adjusted for seasonality) for changes in median concentrations of key compounds (PCE-series and Freon® TF) over time. A statistically significant change was defined at a significance level of $\alpha = 0.10$ or less, which corresponds to a confidence limit of 90 percent or higher. This statistical evaluation was performed by grouping the PCE-series and Freon® TF data (where sufficient detections exist) such that the median concentration of the most recent samples from each well was compared to the median of the older samples collected since 2008. For wells sampled semiannually, this means that the data for 2016-2017 were compared to the data for 2008-2015. For wells sampled quarterly or monthly, this means that the data for 2017 were compared to the data for 2008-2016. In this way, the median concentrations of at least four recent samples was compared to the median concentration of the older samples collected over the previous eight to nine years. A summary of CAM wells with statistically significant changes in water quality as determined by the Mann-Whitney test is presented in Appendix H.

The majority of wells with a statistically significant trend in PCE-series or Freon® TF concentrations show decreasing trends. B/322 shallow overburden wells have decreasing trends where statistically significant trends are present. Increasing trends are present in wells with stable, low-level VOC concentrations consistently below NYSGQS, including wells GW-032B, GW-048, GW-109, GW-702, GW-720, GW-744, GW-757, GW-998, and PW-23. A decrease in reporting limit for PCE-series compounds reported over the last three years may influence trending of these wells, as would minor fluctuations in chemistry related to precipitation. Increasing trends in bedrock wells near extraction wells in central portions of the Site, including GW-607, GW-737, GW-929, GW-931, and GW-943, may be related to shifts in production well withdrawals over the past 10 years.

3.2.2 Groundwater Chemistry – Inorganics

Inorganic groundwater chemistry data (fluoride, arsenic, nickel, and chromium) for 2017 are presented in Appendix D. The presentation of the data in Appendix D is consistent with the requirements of the GMP. The results for duplicate samples (split samples) collected for intralaboratory precision information during 2017 are also presented in Appendix D and are discussed in Section 3.2.3. Production well analytical data (Appendix E), Quality Assurance/Quality Control analytical data (Appendix F), and groundwater treatment analytical data (Appendix G) are presented in a similar format as Appendix D.

Inorganic groundwater quality data for 2017 are consistent with previous sampling. Chromium and arsenic were below the NYSGQS in all filtered groundwater samples collected in 2017. Filtered and unfiltered nickel concentrations were generally less than 0.5 milligrams per liter (mg/l). Total fluoride exceeded the NYSGQS in five groundwater monitoring wells in the B/322 AOC and one of the twelve monthly samples of the B/384 Sump. Total fluoride concentrations have generally declined or become asymptotic.

3.2.3 Quality Assurance/Quality Control Results

The GMP samples were collected in 2017 according to the procedures described in Section 2 of the GMP, as noted in Section 3.1.1. The samples were analyzed by NYSDOH-certified laboratories using SW-846 and EPA methods for VOCs and inorganics. The 2017 field QA/QC chemistry data consist of duplicate samples, trip blanks and equipment rinse blanks. The duplicate samples are presented with the groundwater and production well analytical data in Appendices D and E. The trip and equipment rinse blank results for 2017 are presented in Appendix F.

Laboratory precision was tested by filling multiple sampling containers from the same sampling device during each sampling round; these samples were then analyzed for the parameters of interest. Duplicate samples were generally collected once per 20 environmental samples from the groundwater monitoring wells. These duplicate sample results are indicated by the sample description "REPLICATE" in the analytical data printouts in Appendix D. The duplicate sample results are listed next to the corresponding primary sample results. In general, duplicate sample results were in good agreement and gross variations that would indicate serious analytical problems were not observed.

In addition to duplicate samples, trip blanks were prepared by the laboratory using analyte-free deionized (DI) water for each cooler containing VOC samples for each sampling round. The purpose of the trip blanks is to detect VOC contamination during sample transportation and storage. These trip blanks were the first items placed into each cooler by the laboratory and accompanied the empty sample containers from the laboratory to the field, and the filled sample containers from the field back to the laboratory. Environmental samples associated with each trip blank generally can be determined by the date of the trip blank (refer to "Sample Date" heading in Appendix F). Fifty (50) trip blanks were collected in 2017 as part of the Part 373 sampling program. No VOCs were detected in trip blanks collected in 2017.

Equipment rinse blanks were collected to confirm the efficiency of decontamination procedures for each sampling round by rinsing non-dedicated equipment such as water level indicators with laboratory-supplied analyte-free DI water. Forty-three (43) rinse blanks were collected in 2017 from water level indicators or non-dedicated submersible pumps. These results are also presented in Appendix F. Low level (less than 1 µg/l), nearly identical detections of TCE and CIS were observed in seven equipment blanks collected between October 16 and October 24, 2017. One of these equipment blanks also had a low level (less than 1 µg/l) detection of 1,1,1-trichloroethane. The equipment blanks were collected by two samplers on two different water level indicators. The associated sampling results do not appear to be compromised by the seven low-level rinse blank detections. VOCs were not detected in the other 36 equipment rinse blanks collected in 2017.

No environmental data were qualified based on trip and equipment blank results. Overall, the equipment rinse blank results do not suggest serious problems with field decontamination procedures.

4 CORRECTIVE MEASURES

Activities associated with the corrective action program at the Site are summarized in the following subsections.

4.1 Program Activities

This section discusses ongoing corrective measures activities performed throughout 2017, including groundwater collection and treatment, and production well and treatment system maintenance.

4.1.1 Groundwater Collection Operations

The Corrective Measures Program involves the operation of five groundwater collection and treatment systems and the monitoring of a landfill that was remediated in the 1980s. In 2017, collection and treatment of groundwater from the Deep Bedrock AOC (OU2) and shallow groundwater from the Area A AOC were the only two collection and treatment systems in operation. As previously mentioned, shallow perimeter groundwater collection and treatment systems for the Area B (OU3) AOC, the Area D (OU4) AOC, and the B/322 (OU7) AOC were inactive as part of NYSDEC-approved shutdown tests.

The deep bedrock groundwater withdrawals are conveyed to the Central Carbon System (CCS) in B/316. The CCS treats groundwater from active bedrock production wells PW-1, -2, and -25. The CCS also treats water from production wells PW-4, PW-5/5A, PW-6, PW-7, PW-9, and PW-23 when they are operating. Groundwater corrective measures in Area A (OU5) include collection of shallow groundwater from a collection sump located in B/384. The extracted groundwater is treated in B/384 by an air stripper tower. The air stripper effluent is transferred via conveyance piping to GF's B/312 industrial waste treatment facility. Chemistry data for the B/384 collection sump and the bedrock production wells are presented in Appendix E, and chemistry data for the groundwater collection and treatment systems are presented in Appendix G.

During 2017, production wells PW-1, -2, -4, and -25 were operated as groundwater withdrawal wells for the Site's corrective measures program. Wells PW-1, -2, and -25 operated throughout 2017 while PW-4 operated between January 1 and April 17, 2017 and in late September 2017. The remaining production wells were inactive in 2017. In addition to supplementing the Site's water supply, the purpose of the production well system is to control and contain the bedrock groundwater

VOC plumes. Contaminated groundwater from deep bedrock production wells PW-1, and -25 (and from PW4, -5/5A, -6, -7, -9, and -23 when operating) is pumped through trains #1, #2 and #3 of the CCS in B/316 and is treated for process water use. Trains #1, #2 and #3 operate in parallel and are separate from the other CCS trains. Contaminated groundwater from deep bedrock production well PW-2, which generally exhibits higher concentrations than the other production wells, is pumped through a separate granular activated carbon (GAC) train located in B/316. In 2017, the water treated by the B/316 GAC systems was used as process water. CCS-treated water can be discharged to the Industrial Waste Treatment Facility or to surface water under a SPDES permit. Pumping data for the shallow remediation areas and deep bedrock production wells are presented in Table 4-1.

Table 4-1. 2017 Pumping Volumes

Remediation Area or Well	Gallons Pumped	Average 2017 Flow Rate (GPM)
PW-1	36,231,953	69
PW-2	58,361,165	111
PW-4	18,793,743	36
PW-25	115,362,271	219
Area A	246,691	0.5
*Area B	None	N/A
*Area D	None	N/A
B/322 (612, 613, 617, 618)	None	N/A
Southeast Quadrant (PW-23)	None	N/A
Total	***228,995,823***	***436***

Pumping volumes are not shown for PW-5/5A, -6, -7, and -9, which were not pumped.
*Systems in Area B, Area D, and B/322 were operated only for sampling purposes; these purge volumes are not included in Table 4-1.

4.1.2 Contaminant Removal

Contaminant mass removal was calculated for 2017 using monthly concentration data, together with monthly pumping volumes for the Area A shallow groundwater collection sump in B/384 and the active deep bedrock production wells. Table 4-2 shows that approximately 18 pounds of VOCs were recovered during 2017 from approximately 247,000 gallons of extracted groundwater in shallow remediation Area A. Shutdown test systems in Area B, Area D, B/322, and the SEQ treatment systems were pumped only for sampling purposes. Contaminant removal was therefore not calculated for these systems.

Table 4-2. 2017 Contaminant Recovery Levels Shallow Remediation Areas (lbs)						
Area (Well)	**PCE**	**TCE**	**CIS**	**VC**	**Freon® TF**	**Total by Area**
Area A	17	0.67	0.089	0.0	0.021	*18*
Area B	N/A	N/A	N/A	N/A	N/A	*N/A*
Area D	N/A	N/A	N/A	N/A	N/A	*N/A*
B/322 (612, 613, 617, 618)	N/A	N/A	N/A	N/A	N/A	*N/A*
SEQ (PW-23)	N/A	N/A	N/A	N/A	N/A	*N/A*
Total by Compound	*17*	*0.67*	*0.089*	*0.0*	*0.021*	*18**

*All calculations are reported to two significant figures.

Table 4-3 shows the contaminant recovery levels (mass removals) for the deep bedrock production wells. Approximately 4.0 tons of VOCs were recovered during 2017 from approximately 229 million gallons of groundwater extracted from the deep bedrock. As was the case in previous years, most (greater than 90 percent) of the VOC mass removed from the deep bedrock groundwater wells was extracted from production well PW-2. A significant fraction of the VOC mass (about 9 percent) was removed by production well PW-25.

Table 4-3. 2017 Contaminant Recovery Levels Deep Bedrock Production Wells (lbs)						
Well	**PCE**	**TCE**	**CIS**	**VC**	**Freon® TF**	**Total by Well**
PW-1	5.0	1.9	0.43	0.0	0.71	*8.0*
PW-2	6,000	460	700	75	94	*7,300*
PW-4	12	3.9	0.80	0.0	0.34	*17*
PW-25	570	120	41	0.0	16	*750*
Total by Compound	*6,600*	*590*	*740*	*75*	*110*	*8,100**

*Total pounds removed is the sum of the mass removed by well. This number may not match the sum of the mass removed by compound because of rounding. All calculations are reported to two significant figures.

4.1.3 Groundwater Treatment System Operations

Appendix G presents analytical data for 2017 relating to the efficiency of the groundwater treatment systems for Area A (OU5) and the Deep Bedrock production wells. Treatment efficiency and maintenance issues are discussed below. Quarterly sampling results from shutdown test extraction wells in Area B (OU3), Area D (OU4), the SEQ (OU9), and the B/322 AOC (OU7) areas are also presented in Appendix G.

4.1.3.1 Area A (OU5)

Treatment efficiency at Area A is calculated based on VOC analyses of monthly samples collected from the B/384 Sump (sample point 395), from the influent storage tank (sample point 395A), and from the effluent from the stripping tower (sample point 395B). Total VOCs concentrations in the B/384 Sump and the influent storage tank ranged from 1,400 to 29,000 µg/l. Results for these sampling points are presented in Appendix G and indicate removal efficiency, based on the ratio of influent (395A) to effluent (395B) concentrations, was greater than 99 percent in 2017. The average flow rate through the Area A treatment system was 0.5 gpm.

4.1.3.2 Central Carbon System, PW-2, and PW-25

In 2017, the Central Carbon System (CCS) treated the discharge from production wells PW-1, -4, and -25. Treatment efficiency is determined from monthly samples collected from the blended influent to the CCS (location 500, from PW-1 and PW-4), from PW-25, which enters the CCS via a separate line, from between the lead and lag carbon beds for GAC Train #1, Train #2 (locations 511-513), and from the blended effluent from the CCS (location 555). In 2017, the average flow rate for the CCS influent was approximately 324 gpm. Total VOC concentrations at location 500 ranged from 8.4 to 40 µg/l, and PW-25 total VOCs ranged from 710 to 900 µg/l. Data for the CCS sampling points are presented in Appendix G, and data for PW-25 are presented in Appendix E.

Treatment efficiency for the production well PW-2 treatment system is determined from sampling of PW-2 (as influent), from sampling between the lead and lag carbon beds of the PW-2 GAC train (sample point 221), and from the sampling the effluent of the PW-2 GAC train (sample point 080). The 2017 average flow rate for PW-2 was approximately 111 gpm, and total VOC concentrations ranged from 12,000 µg/l to 17,000 µg/l. Data for production well PW-2 are presented in Appendix E. Data for sampling points 221 and 080 are presented in Appendix G.

Results for the sampling points in the CCS indicate removal efficiency, based on the ratio of influents (location 500 and PW-25) to effluent (location 555) concentrations, is greater than 99 percent for the CCS. Treatment efficiency of the PW-2 train prior to discharging to the process water system was greater than 99 percent. All treated water from the CCS and from the PW-2 train was used for process purposes in 2017.

4.1.4 Groundwater Treatment System and Production Well Maintenance

There were no significant groundwater treatment system or production well maintenance activities performed in 2017.

4.2 Other Activities and Issues

This section addresses activities undertaken in 2017 that relate to the groundwater monitoring program at the Site. Activities planned for 2018 are also discussed.

4.2.1 Groundwater Well Installation and Maintenance Activities Performed in 2017

A well inventory was performed in the first and second quarters of 2017. During this inventory, the depth to bottom was measured to check for siltation in the Hydraulic Effectiveness Monitoring wells (Appendix A, Table A-1), including wells in the Corrective Action Performance Monitoring Network (Appendix A, Table A-2). Wells were inspected for damage and for the condition of the protective casings. Wells were also checked for the presence and condition of locks, identification tags, survey marks, sanitary seals, and caps. Follow-up work such as well development, repair of protective casings, well seals, and locks was performed as required.

4.2.2 GW-618 Termination Petition

Shallow groundwater extraction at well GW-618 in the B/322 AOC began in January 2000 with the goal of remediating a localized presence of dichlorodifluoromethane (Freon® 12). Samples collected at the extraction well and nearby wells showed that the NYSGQS had not been exceeded in more than eight years. The GW-618 well pump fouls frequently, and was replaced almost monthly in 2013. Because the wells in the area met the NYSGQS and continued operation of well GW-618 included significant maintenance efforts, IBM submitted a work plan to NYSDEC[14] to shut down well 618. The shutdown proposal was approved by NYSDEC on January 15, 2014[15]. On January 20, 2014 implementation of the work plan commenced with the termination of well GW-618 groundwater withdrawals. In accordance with the approved shutdown proposal, wells

[14] IBM Environmental Engineering to NYSDEC, December 16, 2013, *Termination Petition, Extraction Well 618, B/322 Remediation Area*.

[15] NYSDEC to IBM Environmental Engineering, January 15, 2014, *Response to Termination Petition, Extraction Well 618, B/322 Remediation Area.*

GW-068 and GW-618 were sampled quarterly in 2017. Well GW-068 results are presented in Appendix D, and well GW-618 sampling results are presented in Appendix G. Freon® 12 was the only parameter detected at either location in 2017. The highest concentration (2.2 µg/l) was detected in a January sample from well GW-068. On September 21, 2017 IBM submitted a report[16] to NYSDEC summarizing the GW-618 shutdown test. Freon® 12 has not exceeded the NYSGQS of 5 µg/l in over eleven years, and the report recommends the permanent shutdown of extraction well GW-618.

4.2.3 Wells GW-612, GW-613, and GW-617 Shutdown Test Request, B/322 AOC

On June 18, 2015, IBM submitted a request to perform shutdown testing at B/322 AOC groundwater extraction wells GW-612, GW-613 (inactive/backup), and GW-617[17]. Groundwater extraction operations began at GW-612 and GW-617 in 2000 for the purpose of containing the leading edge of the northern portion of the shallow groundwater plume in the B/322 AOC. Groundwater quality in the extraction wells and nearby well GW-773 met applicable 6NYCRR Part 703 Groundwater Quality Standards (NYSGQS). Consequently, IBM proposed termination of the B/322 extraction system with two years of quarterly groundwater elevation monitoring and VOC sampling at the following locations:

- Groundwater extraction wells GW-612 and GW-617;
- Plume area groundwater monitoring wells GW-740, GW-766, GW-767, GW-768, GW-769, GW-771, GW-772, GW-773, and GW-793; and
- Former waste solvent tank farm area wells GW-627 and GW-735.

On July 15, 2015, NYSDEC approved the request[18], and pumping was terminated at extraction wells GW-612 and GW-617 on August 1, 2015. Quarterly elevation and sampling round was performed in 2017. Groundwater elevation data are presented in Appendix B. Groundwater elevations for the soil water table in the B/322 AOC during the second quarter of 2017 are posted on Plate 3. Under non-pumping conditions, groundwater flows generally westward toward

[16] Groundwater Sciences Corporation, September 14, 2017, *Extraction Well 618 Shutdown Test Findings*.

[17] Groundwater Sciences Corporation, June 18, 2015, *Shutdown Test Request, Extraction Wells 612, 613, and 617, B/322 Area of Concern (Operable Unit 7).*

[18] NYSDEC to IBM Corporate Environmental Affairs July 15, 2015, *Shutdown Test Request – Extraction Wells 612, 613, and 617, B/322 Area of Concern (OU-7).*

Gildersleeve Brook. Sampling results for groundwater monitoring wells are presented in Appendix D and extraction well data are presented in Appendix G. Well GW-740 could not be sampled in the first quarter and well GW-627 could not be sampled in the fourth quarter because they were dry. Acetone was detected in samples collected from well GW-612 in April (41 µg/l), May (70 µg/l), July (48 µg/l), and October (15 µg/l). The source of this chemistry is unknown, but appears to be of limited areal extent as acetone was not detected in other wells west of B/322 during 2017. GW-612, GW-617, and GW-773 each had at least one detection of either PCE, TCE, or CIS; all of these detections were estimated values between the Reporting Limit (RL) of 0.5 µg/l and the Method Detection Limit (MDL) of 0.1 µg/l. VOC results from post-shutdown sampling of GW-612, GW-617, and GW-773 were similar to sampling results from pre-shutdown testing. Sampling results from the remaining wells were consistent with recent historical results, with wells west of B/322 showing decreasing trends. On September 21, 2017 IBM submitted a report[19] to NYSDEC summarizing the GW-612, GW-613, and GW-617 shutdown test. The report notes that groundwater in the vicinity of GW-612, GW-613, GW-617, and GW-773 has not exceeded the applicable NYSGQS' since system startup in 2000, and the magnitude and lateral extent of the B/322 plume has significantly decreased in the last 20 years. The report recommends the permanent shutdown of extraction wells GW-612, GW-613, and GW-617.

In the July 15, 2015 shut down test approval letter, NYSDEC requested an evaluation of remedial alternatives in the B/322 AOC source area (wells GW-627 and GW-635). On September 18, 2015 IBM informed NYSDEC that IBM would conduct an evaluation and review of potential remedial technologies to address the remaining VOC presence northeast of B/322[20]. On November 11, 2016 IBM informed NYSDEC that the future use of B/322 is uncertain, and that the majority of the building may be demolished[21]. The B/322 AOC source area evaluation has been put on hold pending resolution of the status and possible demolition schedule for B/322.

[19] Groundwater Sciences Corporation, September 14, 2017, *Extraction Wells 612, 613, and 617 – Shutdown Test Findings*.

[20] IBM Corporate Environmental Affairs, September 18, 2015, *Status of Remedial Alternatives Evaluation, Apparent Groundwater Plume Origin Area Northeast of B/322*.

[21] IBM Corporate Environmental Affairs, November 11, 2016, *Updated Status of Remedial Alternatives Evaluation, B/322 Area of Concern (Operable Unit 7).*

4.2.4 Well GW-628 Shutdown Test Request, Area B

On June 18, 2015, IBM submitted a request to perform shutdown testing at Area B groundwater extraction well GW-628[22]. Remediation of a VOC plume in the shallow bedrock and soil units in Area B associated with a former fire training area began in 1982. Groundwater quality in shallow bedrock extraction well GW-628, nearby soil monitoring well GW-046 and downgradient wells GW-064 (soil) and GW-065 (shallow bedrock) met applicable NYSGQS. IBM proposed termination of GW-628 groundwater withdrawals with two years of quarterly groundwater elevation monitoring and VOC sampling at GW-046, GW-064, GW-065, and GW-628.

On July 9, 2015, NYSDEC approved the shutdown request[23], and pumping was terminated at GW-628 on August 1, 2015. Quarterly groundwater elevation data are presented in Appendix B, and Plate 3 shows groundwater elevations for the soil water table during the second quarter of 2017. Under non-pumping conditions, groundwater flow in the soil unit and shallow bedrock is generally from GW-628 to the north and northeast toward wells GW-064 and GW-065. Sampling results for groundwater monitoring wells are presented in Appendix D, and extraction well GW-628 data are presented in Appendix G. PCE and TCE were the only VOCs detected in Area B in 2017. PCE did not exceed 2 µg/l and TCE did not exceed 1 µg/l in any Area B groundwater sample collected in 2017. These results are consistent with data collected prior to the start of the shutdown test. On September 21, 2018, IBM submitted a report[24] to NYSDEC summarizing the GW-628 shutdown test. The report notes that chemistry remained stable during the shutdown test, and the NYSGQS of 5 µg/l for PCE and TCE was not exceeded in POC wells GW-064 and GW-065. The report recommends the permanent shutdown of extraction GW-628.

4.2.5 Well GW-032B Shutdown Test Request, Area D

On June 18, 2015, IBM submitted a request to perform shutdown testing at Area D groundwater extraction well GW-032B[25]. Remediation of the plume in the soil unit in Area D associated with a

[22] Groundwater Sciences Corporation, June 18, 2015, *Shutdown Test Request, Extraction Well 628, Area B Remediation Area (Operable Unit 3).*

[23] NYSDEC to IBM Corporate Environmental Affairs, July 9, 2015, *Shutdown Test Request – Extraction Well 628, Area B Remediation Area (OU-3*).

[24] Groundwater Sciences Corporation, September 14, 2017, *Extraction Well 628 Shutdown Test Findings*.

[25] Groundwater Sciences Corporation, June 18, 2015, *Shutdown Test Request, Extraction Well032B, Area D Remediation Area (Operable Unit 4).*

former fire training area began in 1982. Groundwater quality in GW-032B and nearby soil monitoring well GW-757 met applicable NYSGQS. Consequently, IBM proposed termination of GW-032B groundwater withdrawals with two years of quarterly groundwater elevation monitoring and VOC sampling at GW-032B, downgradient POC well GW-066, and well GW-757.

On July 9, 2015, NYSDEC approved the shutdown request[26], and pumping was terminated at GW-032B on August 1, 2015. Quarterly groundwater elevation data are presented in Appendix B, and Plates 3 shows groundwater elevations for the soil water table during the second quarter of 2017. Under non-pumping conditions, groundwater flow in the soil unit near GW-032B is generally to the west toward Gildersleeve Brook. The Area D shutdown test maximum concentrations for 2017 were 3.9 µg/l of TCE, 1.0 µg/l of PCE, and 0.7 µg/l of CIS, all detected in groundwater samples collected from well GW-032B. VOCs were not detected in the GW-066 samples collected in 2017. On September 21, 2017, IBM submitted a report[27] to NYSDEC summarizing the GW-032B shutdown test results. The report concludes that contaminant concentrations had stabilized below the NYSGQS of 5 µg/l for PCE, TCE, and CIS and recommends permanent shutdown of extraction well GW-032B.

4.2.6 Well PW-23 Shutdown Test Request, SEQ

On June 18, 2015, IBM submitted a request to perform shutdown testing at SEQ groundwater extraction well PW-23[28]. Well PW-23 began operation in 2002 to actively remediate a small plume in the shallow bedrock and soil units in a former contractor staging area. Groundwater quality in the SEQ met applicable NYSGQS. Consequently, IBM proposed termination of PW-23 extraction with two years of quarterly groundwater elevation monitoring and VOC sampling for the following locations:

- Bedrock production well PW-23;
- Soil monitoring wells GW-048, GW-520, GW-543, GW545, and GW-990; and
- Bedrock monitoring wells GW-521, GW-857, GW-858, and GW-987.

[26] NYSDEC to IBM Corporate Environmental Affairs, July 9, 2015, *Shutdown Test Request – Extraction Well 032B, Area D Remediation Area (OU-4).*

[27] Groundwater Sciences Corporation, September 14, 2017, *Extraction Well 032B Shutdown Test Findings*

[28] Groundwater Sciences Corporation, June 18, 2015, *Shutdown Test Request, Production Well PW-23, Southeast Quadrant Area of Concern (Operable Unit 9).*

On July 9, 2015, NYSDEC approved the shutdown request, and pumping was terminated at PW-23 on August 10, 2015. Quarterly groundwater elevation data are presented in Appendix B, and Plate 3 shows groundwater elevations for the soil water table during the second quarter of 2017. Under non-pumping conditions, groundwater flow in the soil and shallow bedrock is generally to the north and northeast from PW-23 toward Lime Kiln road near wells GW-987 and GW-990. Historically, the highest PCE-series concentrations in the SEQ have been at wells GW-048 and PW-23 (formerly GW-552). PCE concentrations ranged from 0.2 to 2.6 µg/l during 2017 quarterly sampling of GW-048 and PW-23. Low level detections of PCE, TCE, and CIS, at estimated values between the MDL of 0.1 µg/l and the RL of 0.5 µg/l, were observed in other SEQ wells. PCE was detected in all four samples collected from soil monitoring well GW-990 at concentrations between 1 and 2 µg/l. Results of shutdown test sampling in the SEQ are similar to data collected prior to shutdown of PW-23. On September 21, 2017, IBM submitted a report[29] to NYSDEC summarizing the PW-23 shutdown test. The report concluded that chemical concentrations in the SEQ had stabilized during the shutdown test and noted that the NYSGQS of 5 µg/l for PCE, TCE, and CIS has not been exceeded in the SEQ for more than ten years. The report recommends the permanent shutdown of bedrock production well PW-23.

4.2.7 Production Well Optimization Testing

On January 30, 2017, IBM submitted the Production Well Optimization Test Report to NYSDEC[30]. The report recommended reduced groundwater withdrawals at production well PW-1 and termination of production well PW-4 groundwater withdrawals, along with recommended average groundwater withdrawal rate targets for wells PW-1, -2, and -25, totaling approximately 0.6 million gallons per day (MGD). To account for the anticipated variability in groundwater recharge conditions that could affect groundwater withdrawals, a maximum withdrawal rate of 1.0 MGD was also recommended. On March 7, 2017 NYSDEC concurred with the conclusions and recommendations of the report[31]. On April 17, 2017 IBM implemented the shutdown test recommendations by targeting extraction rates at PW-1, PW-2, and PW-25 and terminating

[29] Groundwater Sciences Corporation, September 14, 2017, *Production Well PW-23 Shutdown Test Findings*.

[30] Groundwater Sciences Corporation, January 30, 2017, Results of Bedrock Optimization Test, Bedrock Remediation Area (Operable Unit 2).

[31] NYSDEC to IBM Corporate Environmental Affairs, March 7, 2017, Bedrock Production Well Optimization Test Report.

continuous extraction at PW-4. In September 2017, PW-2 was temporarily shut down to accommodate completion of a nearby core boring performed to support design of a bedrock replacement well for PW-2. During the PW-2 temporary shutdown, PW-4 was pumped as a backup. From April 18 through December 31, 2017, PW-1 groundwater withdrawals averaged 70 gallons per minute (GPM), combined PW-2/PW-4 groundwater withdrawals averaged 119 GPM, and PW-25 groundwater withdrawals averaged 219 GPM, for a combined total of approximately 0.59 MGD.

4.2.8 VOC Source Assessment RCRA Facility Investigation (RFI)

A Site-wide RFI for VOC sources beneath buildings is being conducted at the request of NYSDEC and NYSDOH, with the final work plan approved in July 2009[32] by the Agencies. The work plan focuses on thirteen buildings, six of which do not require further assessment[33]. Subslab depressurization (SSD) systems installed in B/330C, B/330D, B/310, and the linkway connecting B/308 and B/310 continued to operate as designed in 2017. Two interim B/330D SSD systems were installed in 2017 and operated from February through the end of 2017. The Vapor Intrusion Assessment Annual Report is presented in Appendix I.

4.2.9 Area A AOC (OU5)

In October 2014, IBM informed NYSDEC of a plan to conduct soil vapor extraction (SVE) testing near the B/308 and B/310 link way in the Area A AOC[34]. As discussed in the letter, the intent of the extraction system is to increase contaminant mass removal from a portion of the historical source area. NYSDEC acknowledged the notification without comment, with the understanding that IBM will provide updates on progress and discuss the results of testing[35]. Two vapor extraction wells and eight multi-level vapor monitoring points were installed in the fourth quarter of 2014. System installation, including an SVE blower and activated carbon units housed inside a shipping

[32] NYSDEC to IBM Environmental Engineering, July 10, 2009, *Approval of RFI Work Plan, VOC Source Assessment.*

[33] NYSDEC to IBM Environmental Engineering, March 13, 2013, *Status Report on RFI Work Plan Implementation.*

[34] IBM Environmental Engineering to NYSDEC, October 15, 2014, *Planned Supplemental Testing – Area of Concern A.*

[35] NYSDEC to IBM Environmental Engineering, October 29, 2014, RE: *Planned Supplemental Testing – Area of Concern A.*

container, was completed in 2015. The system ran seasonally in 2015 and 2016, and from late May through early November 2017. IBM plans to reactivate the SVE system in the spring of 2018.

IBM conducted pilot testing of enhanced shallow groundwater extraction from well GW-634 in 2016. In 2017, IBM conducted an extensive review of the B/384 extraction and treatment system operations in advance of several significant 2018 activities. IBM will conduct additional extraction testing of GW-634 and the B/384 sump in 2018. IBM also plans a temporary system shutdown in 2018 to renovate the entire B/384 treatment system.

4.2.10 B/330D IW and Sanitary Line Investigation

In 2009, sampling of the B/330D industrial waste (IW) and sanitary lift stations revealed low levels of PCE. IBM informed NYSDEC of the B/330D lift station results via teleconference and a letter in 2009.

One potential source was a condensate lift station located on the east side of B/330D where elevated levels of PCE were detected. An abandoned, below-ground B/335 drain line connected to a B/330D condensate lift station contained groundwater contaminated with PCE. This ductile iron pipe was disconnected from the condensate lift station and capped in February 2010.

Another potential source of PCE was the B/330D original under-slab gravity IW system which is no longer in use but is connected to the currently used overhead drain system on the west side of B/330D. It was suspected that contaminated groundwater or vapors were entering the IW system through this connection. The overhead drain system was disconnected from the underslab system in December 2009. Elevated levels of PCE (less than 200 µg/l) continued to be detected in the B/330D IW lift station after this work was completed.

IBM submitted a letter to NYSDEC[36] summarizing B/330D IW line and sanitary line sampling completed through the end of 2013. PCE concentrations in both locations have declined to nearly non-detectable levels since the startup of the B/330D Soil Vapor Extraction System. The sanitary line and the IW line will be sampled quarterly, and NYSDEC will be notified if thresholds are exceeded as defined in the letter report. On June 7, 2017, GF representatives informed NYSDEC

[36] IBM Environmental Engineering to NYSDEC, February 12, 2014, *Status Update - Notification of Groundwater Contamination from SWMU/AOC - B330D IW and Sanitary Line Tetrachloroethylene.*

that the threshold as described in the February 12, 2014 status update was exceeded in first quarter 2017 sampling of the sanitary wastewater[37]. Second, third, and fourth quarter samples did not exceed the threshold criteria.

4.2.11 Chloroform Detections in Groundwater

Municipal water from the Poughkeepsies' Water Treatment Facility via the Central Dutchess Water Transmission Line has been the site's potable water source since August 2007. Periodically, the Site conducts flushing of the water supply lines, discharging water with NYSDEC approval to the site storm drains after the water has been dechlorinated. Chloroform, a trihalomethane common in water treated for potable use, has been detected in several groundwater monitoring wells near the discharge sites, most notably near Area B extraction well GW-628, near the site of the potable water influent storage tanks. On November 20, 2013, IBM informed NYSDEC that they would be discharging approximately 0.2 gpm of municipal water from a continuous sampling system to the ground adjacent to B/350[38]. These discharges are allowed under 6 NYCRR Part 750-1.2(a)(27)(vi) and the site's SPDES permit. Chloroform detections in 2017 do not appear to be related to this discharge. Only three wells, GW-103 (17 µg/l), GW-701 (12 µg/l), and GW-754 (10 µg/l) exceeded the NYSGQS for chloroform (7 µg/l) in 2017.

4.2.12 PFAS Sampling

On June 14, 2016,[39] GF received a request from the NYSDEC to complete a survey regarding current and historical Site usage of Class B fire suppression foams and to identify possible locations where these foams may have been released to the environment. Class B fire suppression foams are known to contain Poly- and Perfluoroalkyl substances (PFAS) - also referenced as perfluorinated compounds or PFCs. PFAS are a group of compounds that the NYSDEC has recently identified as emerging contaminants due to their potential health effects and persistence in the environment.

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[37] GLOBALFOUNDRIES to NYSDEC, June 7, 2017, *Status Update – Notification of Groundwater Contamination from SWMU/AOC – B330D IW and Sanitary Line Tetrachloroethylene*.

[38] IBM Environmental Engineering to NYSDEC, November 20, 2013, *Discharge of Municipal Water to Ground Surface*.

[39] NYSDEC to IBM, June 14, 2016, *Request for Information Pursuant to Article 27, Title 13 of New York State Environmental Conservation Law (ECL)/Class B Fire Suppression Foam Usage Survey*.

GF submitted its response to the NYSDEC's survey on July 11, 2016[40]. The GF response indicated that Class B fire suppression foams were formerly stored at the Site, and are currently stored at the Site. The survey response from GF also indicated that releases of those foams to the environment had occurred in two areas of the Site. Based on the survey response as well as the existence of two former fire training areas (Area B and Area D), the NYSDEC sent a February 2, 2017 letter[41] to IBM requesting collection and analysis of groundwater and surface water samples to determine if PFAS are present at the Site. A PFAS sampling Work Plan (Work Plan) was submitted to the NYSDEC on March 15, 2017[42]. The NYSDEC approved the Work Plan on March 29, 2017[43]. PFAS sampling was completed in the second quarter 2017, and a summary report dated June 29, 2017 was sent to NYSDEC[44]. On October 31, 2017 NYSDEC requested additional Site information and additional PFAS sampling[45]. After discussions with NYSDEC and NYSDOH, IBM provided the additional information and proposed additional sampling locations in a letter dated December 14, 2017[46]. NYSDEC subsequently approved the proposed sampling list on January 25, 2018[47]. IBM plans to conduct the additional PFAS sampling in the first quarter of 2018 and provide the results to NYSDEC and NYSDOH.

4.2.13 Groundwater Remediation System Separation Project

In order to facilitate and ensure the long term operation and maintenance of the Deep Bedrock AOC (OU 2) corrective measures, IBM has designed separate, standalone groundwater treatment facilities (GTFs) for the three active bedrock production wells. The location of the GTFs can be found on Figure 4-1. Planning and design of the GTFs began in late 2015 and was completed in the first half of 2017. GTF construction activities began in the fourth quarter 2017. The PW-1 GTF is located

[40] GLOBALFOUNDRIES US2 LLC to NYSDEC, July 11, 2016, *Class B Fire Suppression Foam Usage Survey Questions*.

[41] NYSDEC to IBM Corporate Environmental Affairs, February 2, 2017, *Perfluorinated Compound Sampling Request*.

[42] IBM Corporate Environmental Affairs to NYSDEC, March 15, 2017, *Poly-and Perfluoroalkyl Substances Sampling Work Plan.*

[43] NYSDEC to IBM Corporate Environmental Affairs, March 29, 2017, *PFAS Sampling Work Plan*.

[44] Groundwater Sciences Corporation, June 29, 2017, *Poly- and Perfluoroalkyl Substances Sampling Report*.

[45] NYSDEC to IBM Corporate Environmental Affairs, October 31, 2017, Poly- and Perfluorinated Alkyl Substances (PFAS) Sampling.

[46] IBM Corporate Environmental Affairs to NYSDEC, December 14, 2017, *Poly- and Perfluoroalkyl Substances (PFAS) Sampling*.

[47] NYSDEC to IBM Corporate Environmental Affairs, January 25, 2018, *Poly- and Perfluorinated Alkyl Substances (PFAS) Sampling*.

approximately 300 feet east of B/325 in a former open grassy area. The PW-2 GTF is located in a former parking lot on the west side of B/316, approximately 200 feet west of PW-2. The PW-25 GTF is located on the west side of B/334, approximately 300 feet north on PW-25. IBM plans to complete GTF construction and perform system startup and shakedown testing in 2018.

4.2.14 Maintenance Activities and Production Well Installation Planned for 2018

IBM plans to continue its annual inventory of monitoring wells, repairing wells as necessary. Area B, Area D, the B/322 AOC, and SEQ systems will remain off-line pending NYSDEC approval of the findings and recommendations of shutdown tests. Quarterly groundwater elevations and sampling will continue at monitoring wells in accordance with the approved plans.

IBM plans to install and test a new bedrock extraction well in the vicinity of PW-2 as a replacement or backup bedrock production well. A pilot test boring to support design of the proposed bedrock production well was completed in 2017. The replacement bedrock production well is planned to be installed in the first half of 2018. Details regarding drilling, well installation, well development, and hydraulic testing of this bedrock production will be described under a separate cover.

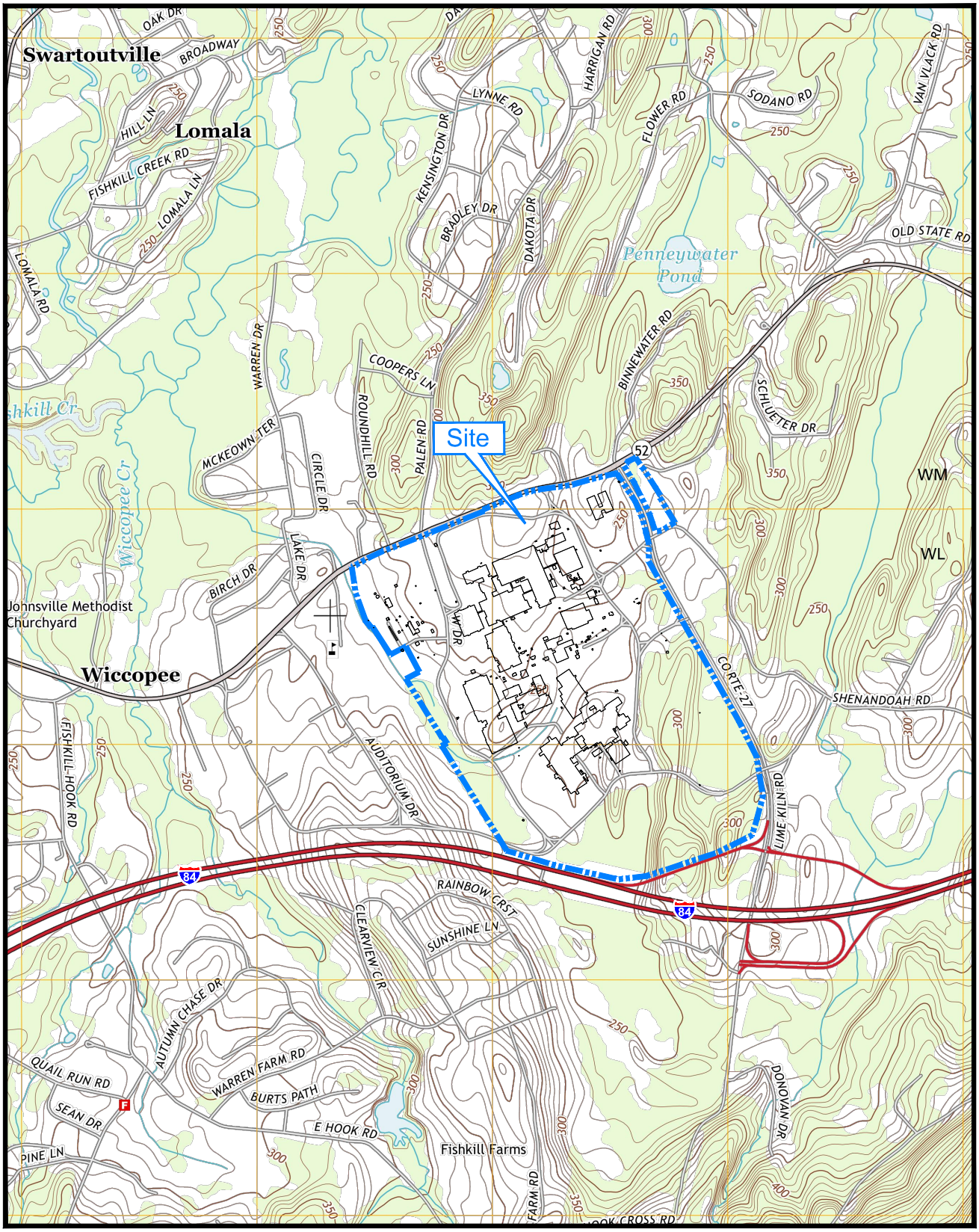
4.3 Evaluation of Progress

This section summarizes the progress to date regarding corrective measures at the Site, including groundwater withdrawal and treatment, hydraulic control of groundwater flow, and detection trends in Site groundwater.

PW-1, -2, and -25 pumped nearly continuously throughout 2017. PW-4 was pumped through April 17, 2017 and for a brief period in September 2017. Hydraulic control and capture of the dissolved VOC plumes in the bedrock groundwater system is being maintained by the operation of the groundwater production wells, as illustrated on Plate 4. The potentiometric surface shown on this plate illustrates how hydraulic control and capture of the dissolved VOC plume in the bedrock groundwater system has been maintained. The nearly continuous operation of production wells in the deep bedrock impedes the migration of groundwater exceeding the NYSGQS beyond the boundaries of the Site.

Treatment of groundwater by the Area A and Central Carbon/PW-2 treatment systems continued throughout the year. GAC-treated groundwater from the B/316 carbon systems was used as process water. In 2017, NYSDEC-approved shutdown tests concluded in Area B, Area D, B/322, and the SEQ, and IBM recommends the permanent shutdown of these systems. In 2017, approximately 8,100 pounds of VOCs were removed from approximately 229 million gallons of groundwater pumped from the shallow soil and deep bedrock remediation areas. Since 1979, approximately 178 tons of VOCs have been removed from approximately 13.8 billion gallons of extracted groundwater.

Groundwater sampling activities will continue in 2018 at 148 monitoring wells and sampling points listed in the Groundwater Monitoring Plan and groundwater elevations will be measured quarterly at 381 HEM wells.



Portion of the Hopewell Junction, NY
7.5-minute USGS Quadrangle
(The National Map US Topo, 2013)
Latitude/Longitude: 41°32'27"N, 73°49'28"W (41.540714, -73.824185)

Scale
0 1000' 2000'

Figure 1-1

Former IBM East Fishkill Facility

Site Location Map

GROUNDWATER SCIENCES CORPORATION

95007-044-E6 / 01-21-16

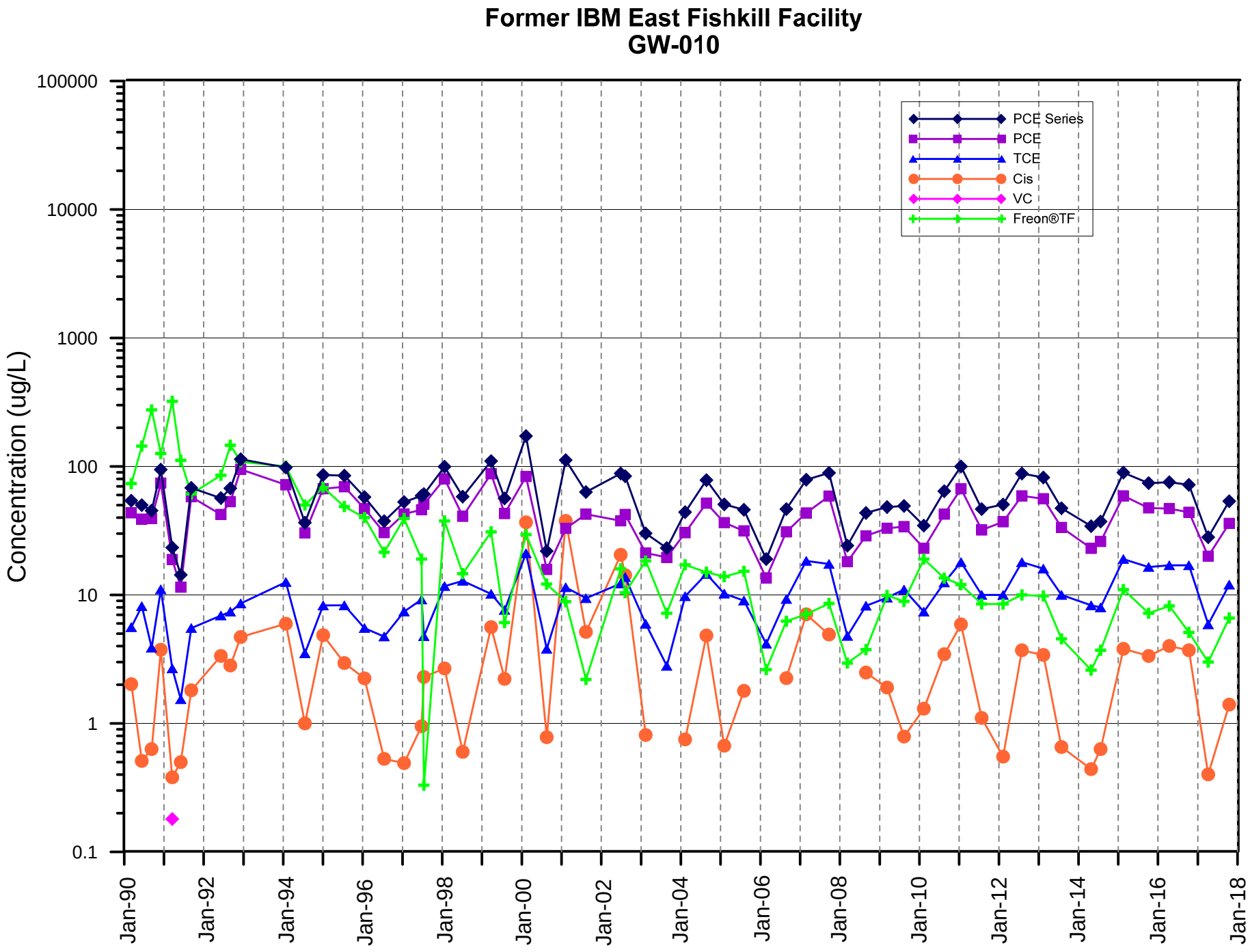

Former IBM East Fishkill Facility
GW-010
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-1

Former IBM East Fishkill Facility
GW-016

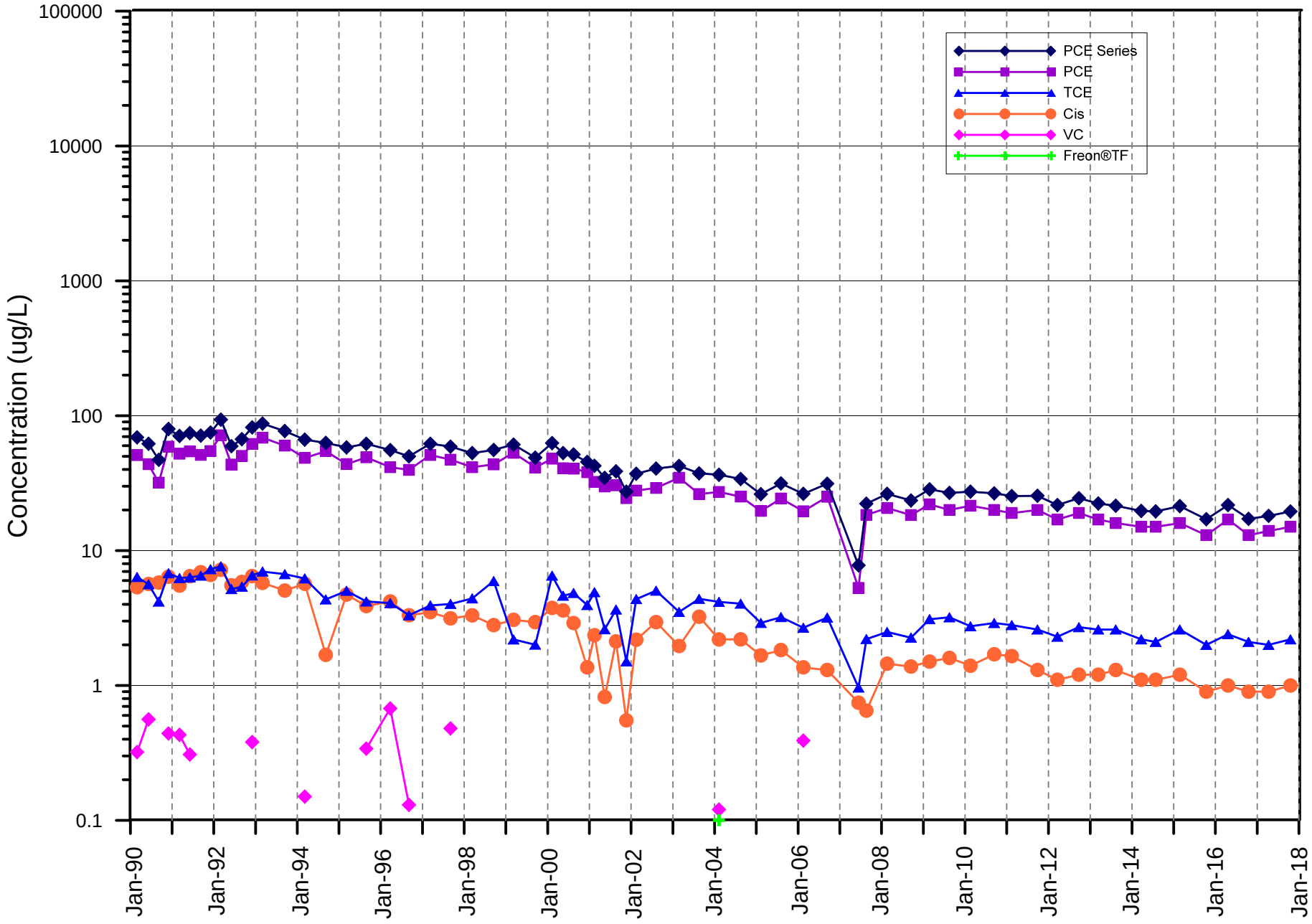


Figure 3-2

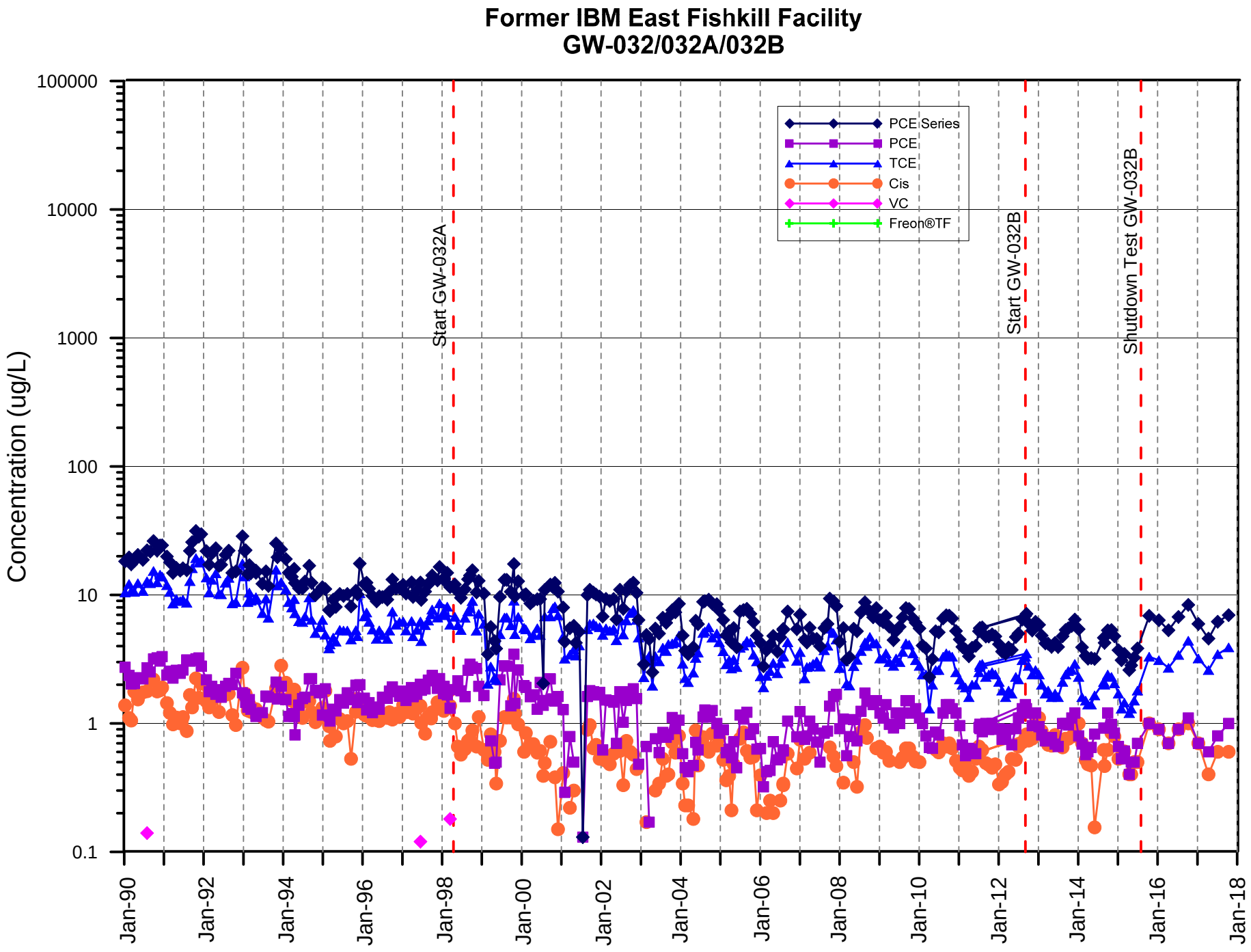

Former IBM East Fishkill Facility
GW-032/032A/032B
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
Start GW-032A
Start GW-032B
Shutdown Test GW-032B
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-3

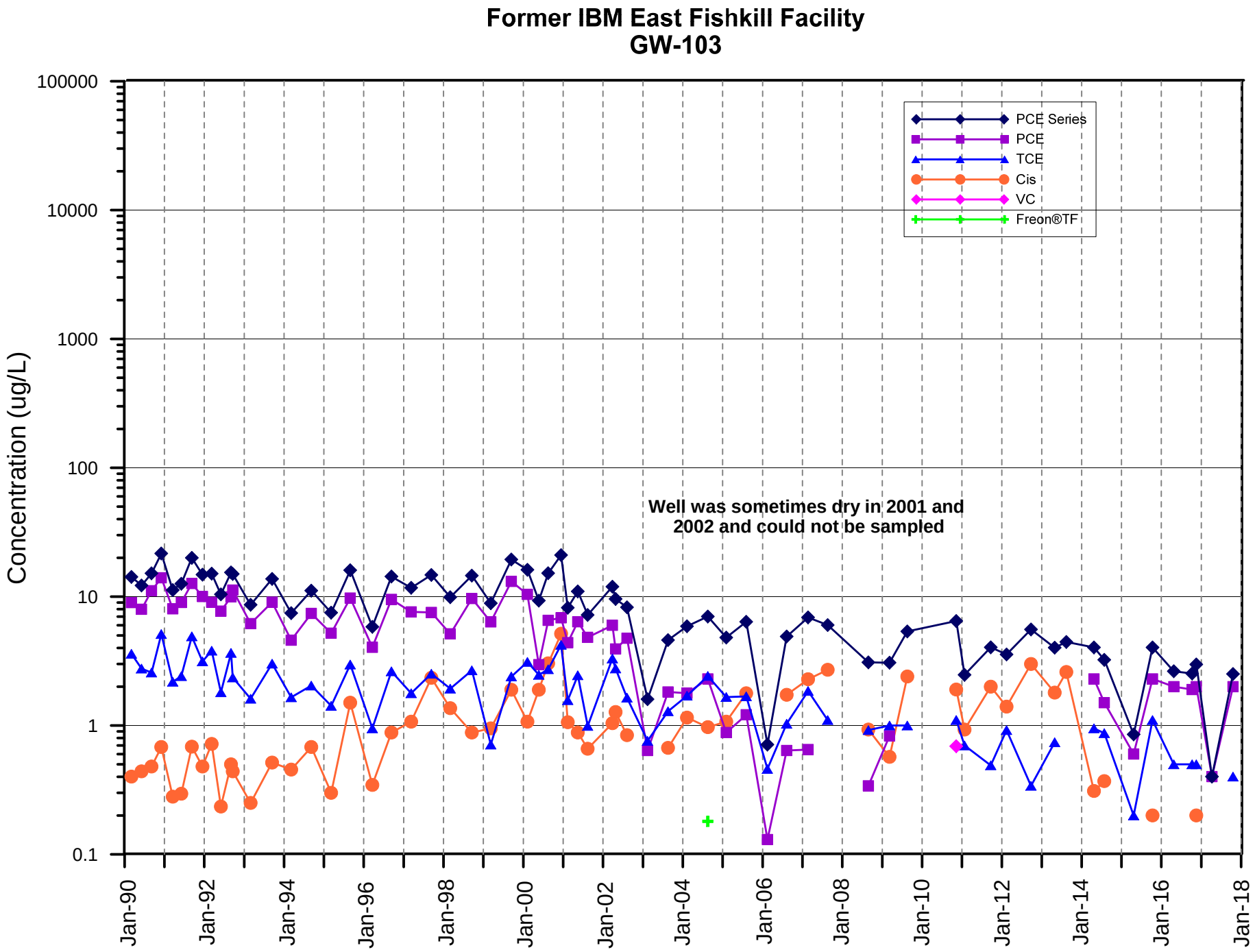

Former IBM East Fishkill Facility
GW-103
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
PCE Series
PCE
TCE
Cis
VC
Freon®TF
Well was sometimes dry in 2001 and
2002 and could not be sampled

Figure 3-4

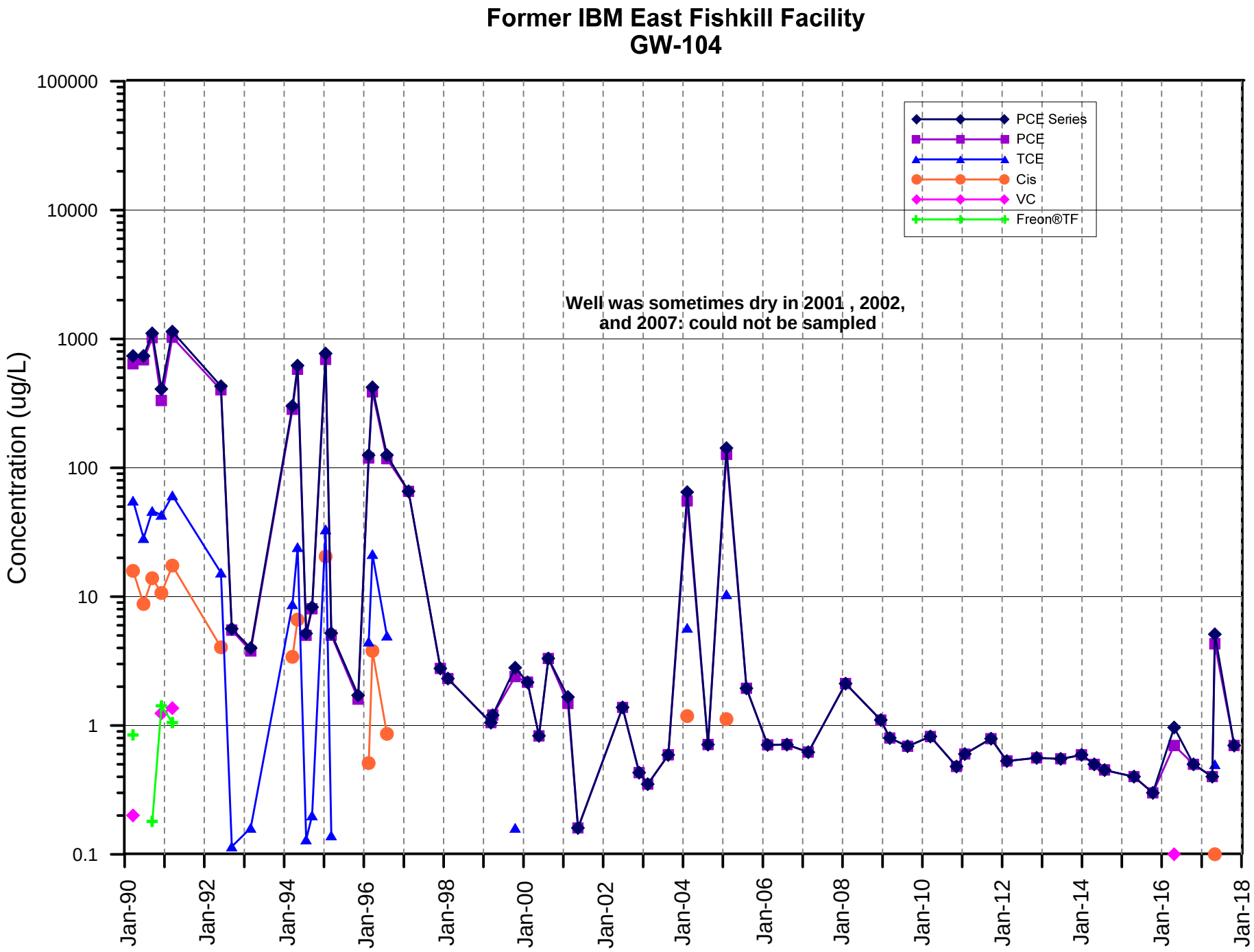

Former IBM East Fishkill Facility
GW-104
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
PCE Series
PCE
TCE
Cis
VC
Freon®TF
Well was sometimes dry in 2001 , 2002,
and 2007: could not be sampled

Figure 3-5

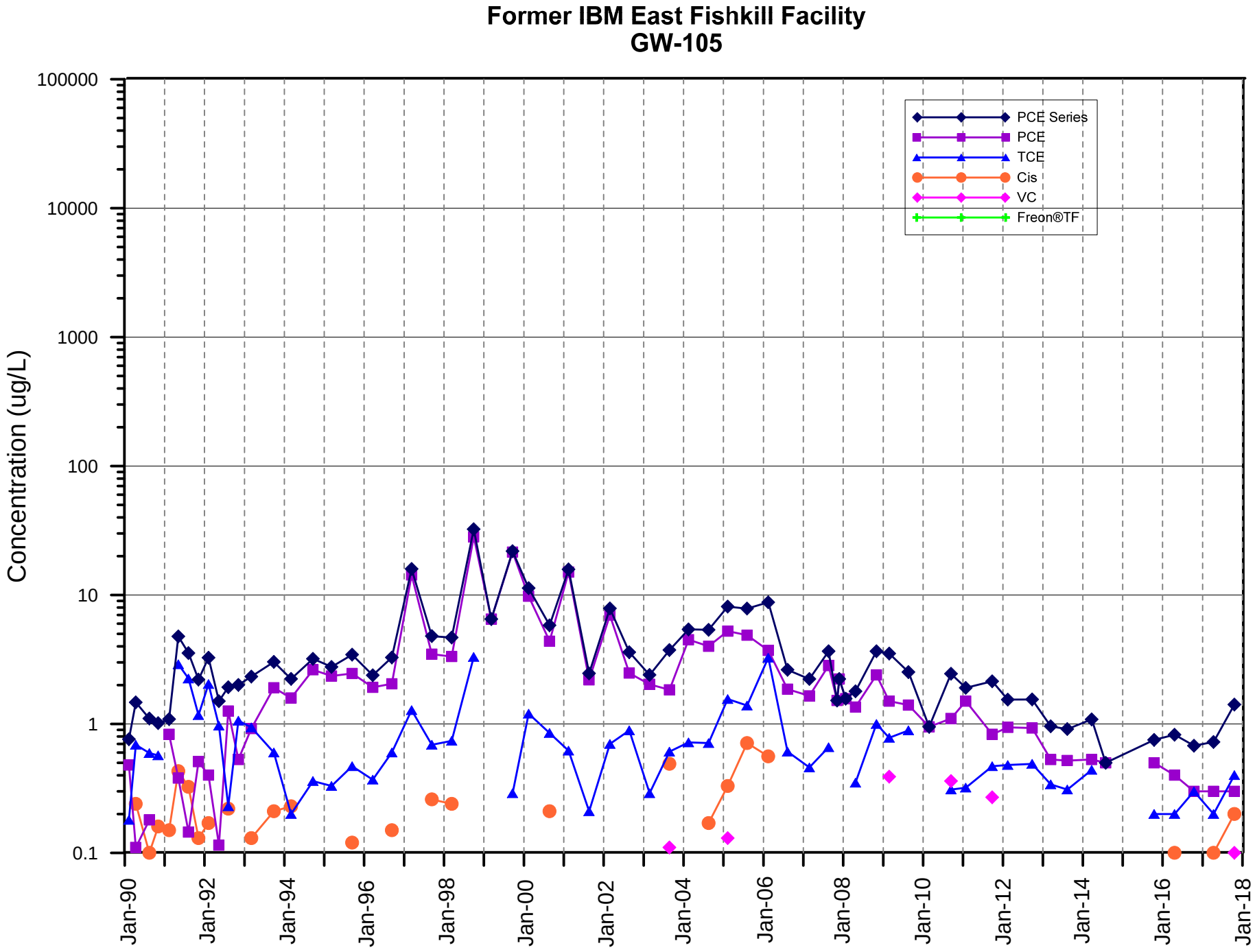

Former IBM East Fishkill Facility
GW-105
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-6

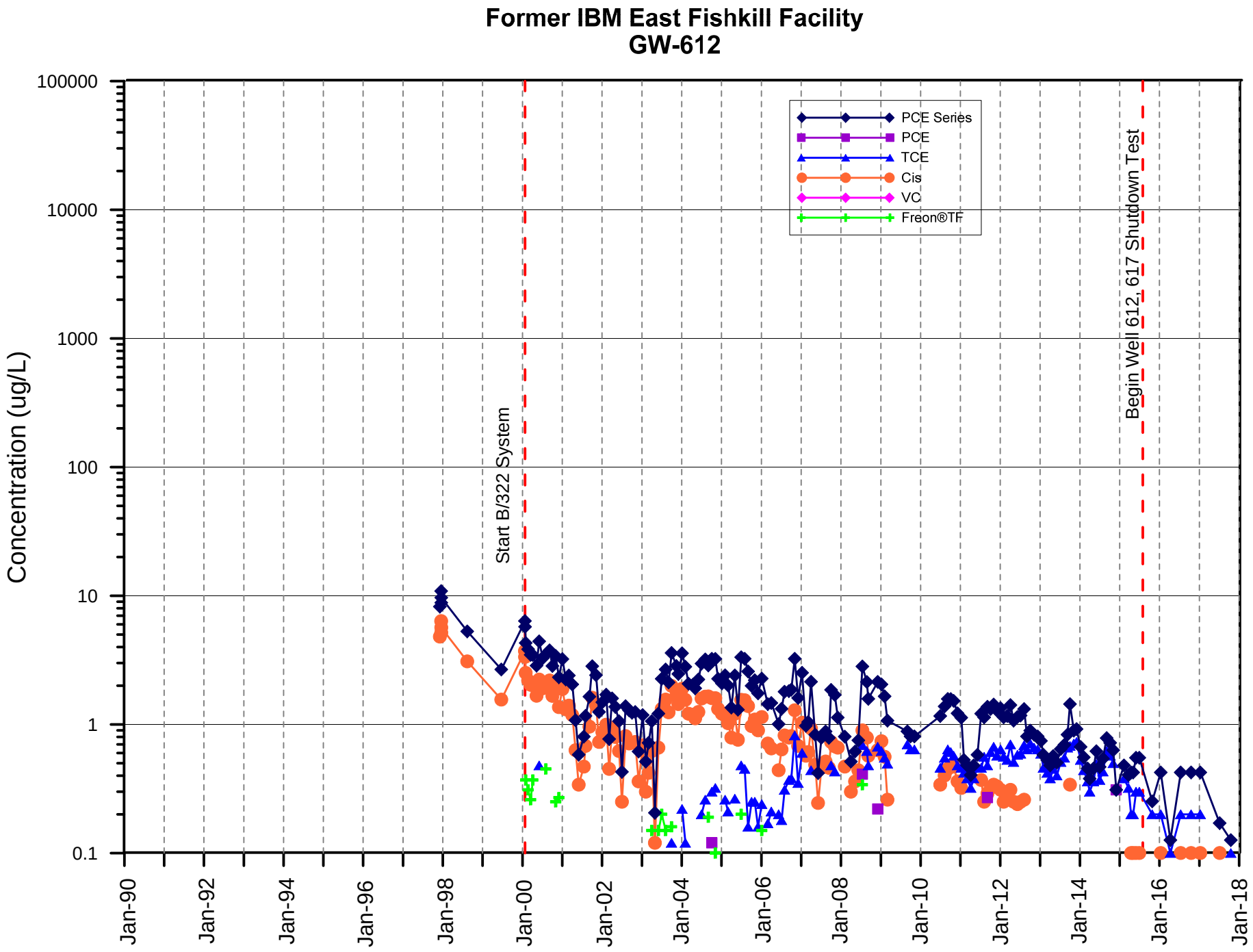

Former IBM East Fishkill Facility
GW-612
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
Start B/322 System
Begin Well 612, 617 Shutdown Test
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-7

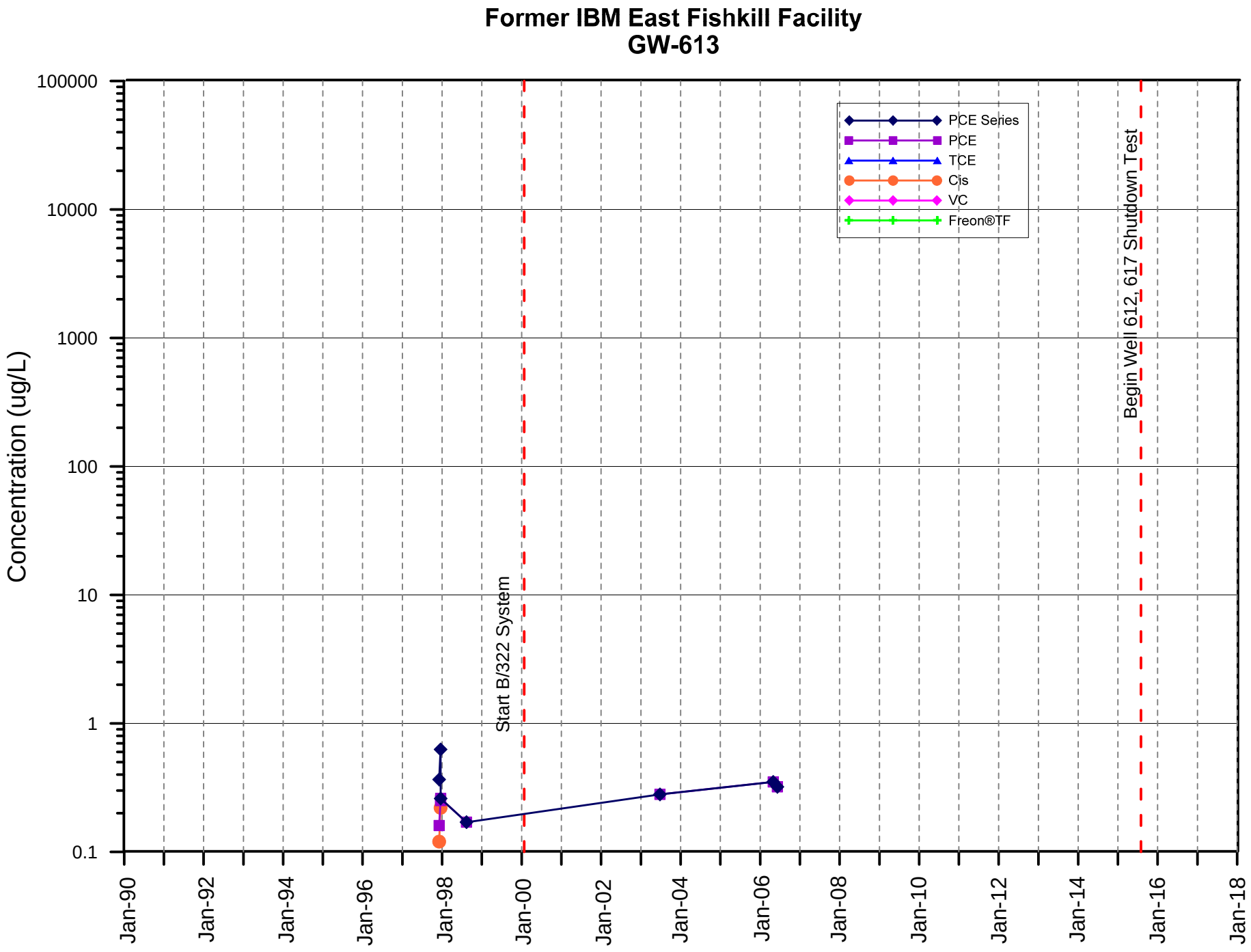

Former IBM East Fishkill Facility
GW-613
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
PCE Series
PCE
TCE
Cis
VC
Freon®TF
Start B/322 System
Begin Well 612, 617 Shutdown Test

Figure 3-8

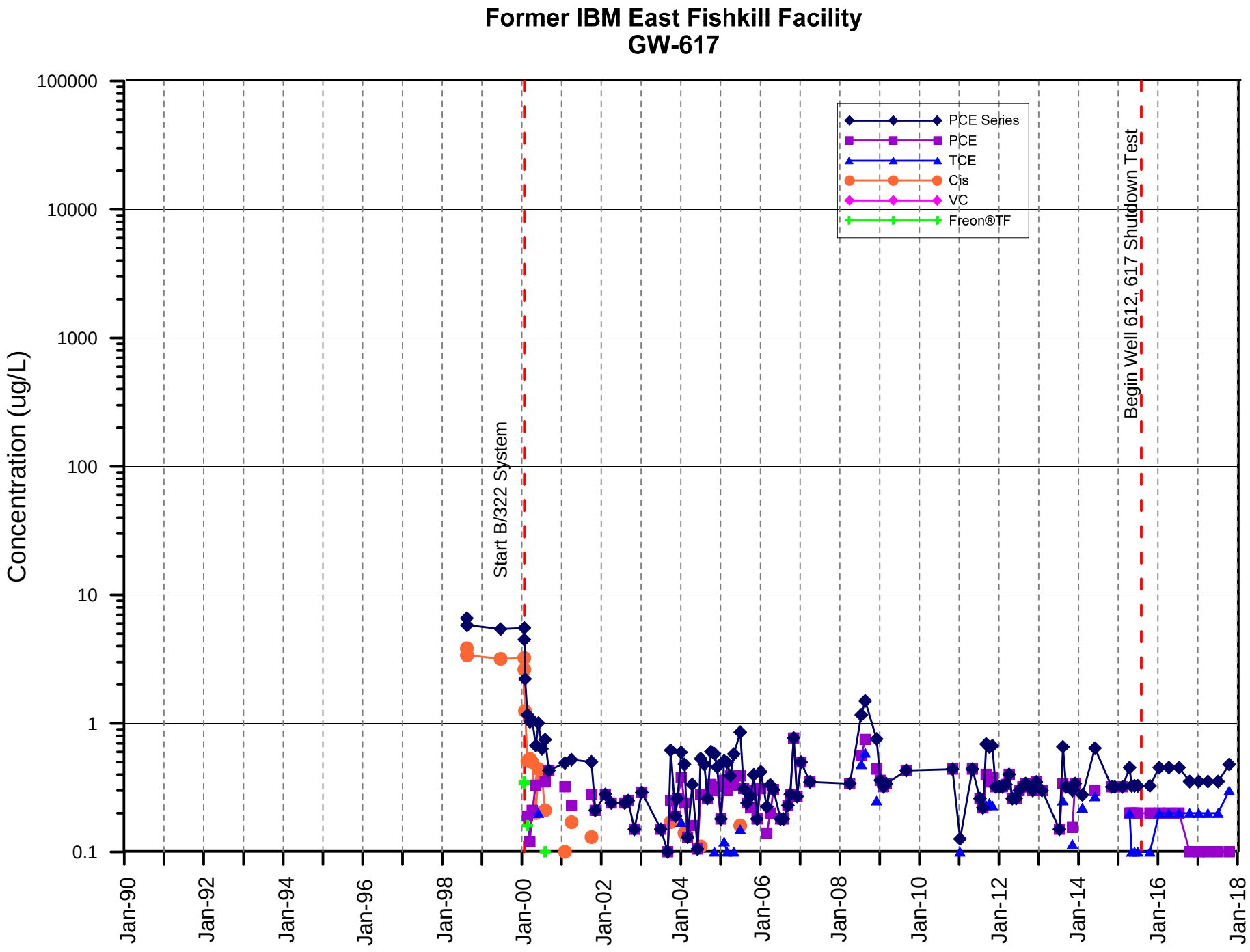

Former IBM East Fishkill Facility
GW-617
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
Start B/322 System
Begin Well 612, 617 Shutdown Test
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-9

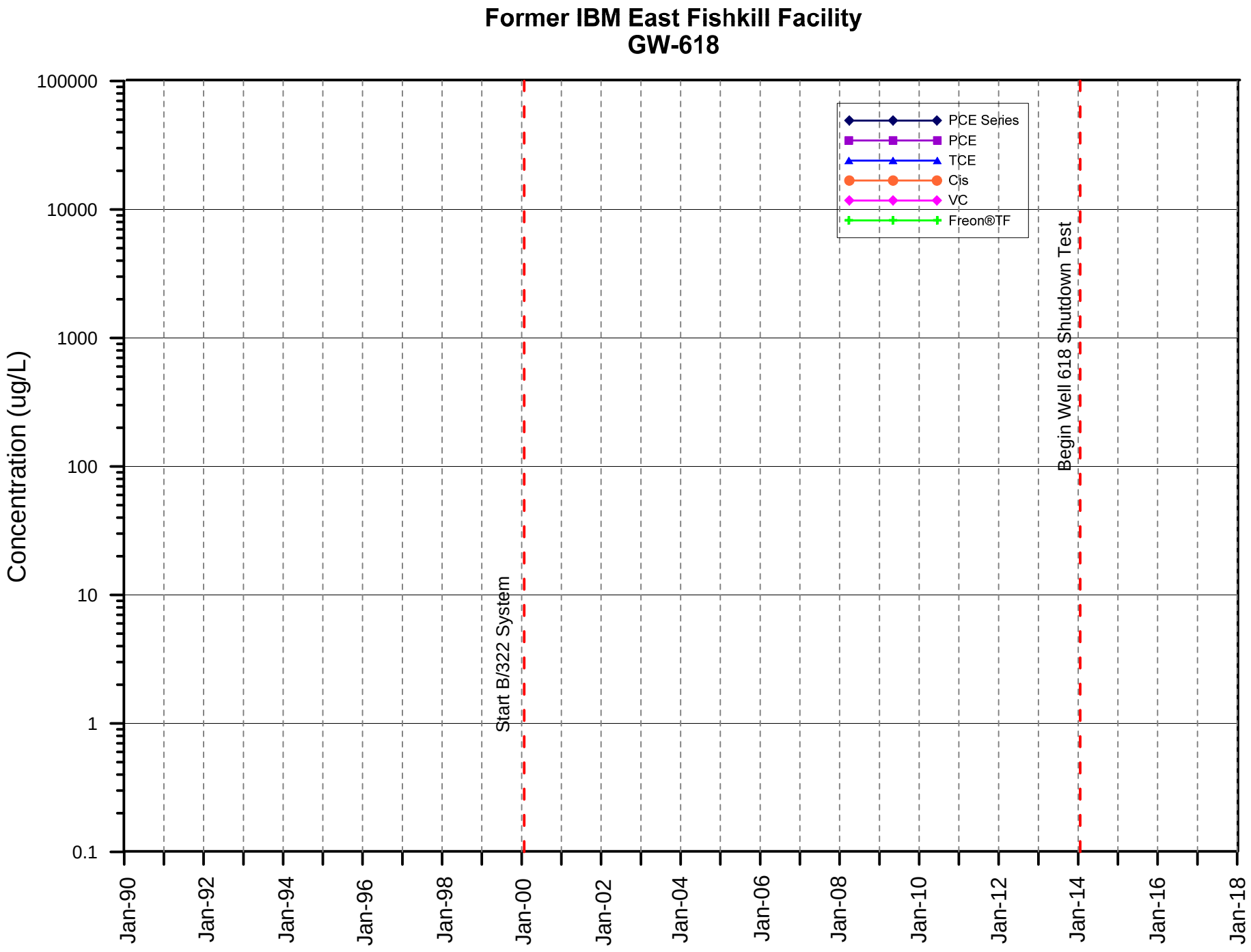

Former IBM East Fishkill Facility
GW-618
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
Start B/322 System
Begin Well 618 Shutdown Test
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-10

Former IBM East Fishkill Facility
GW-714

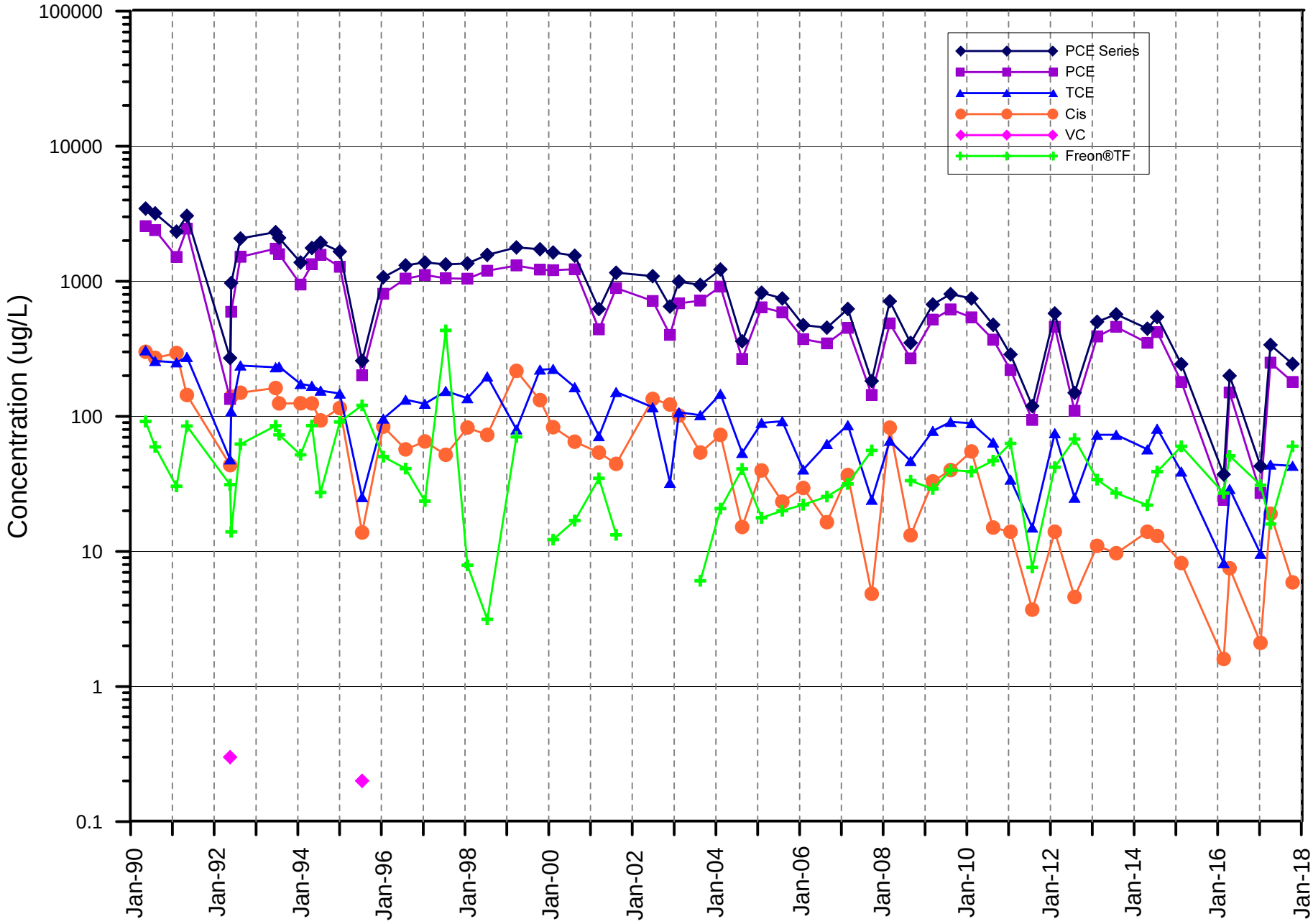


Figure 3-11

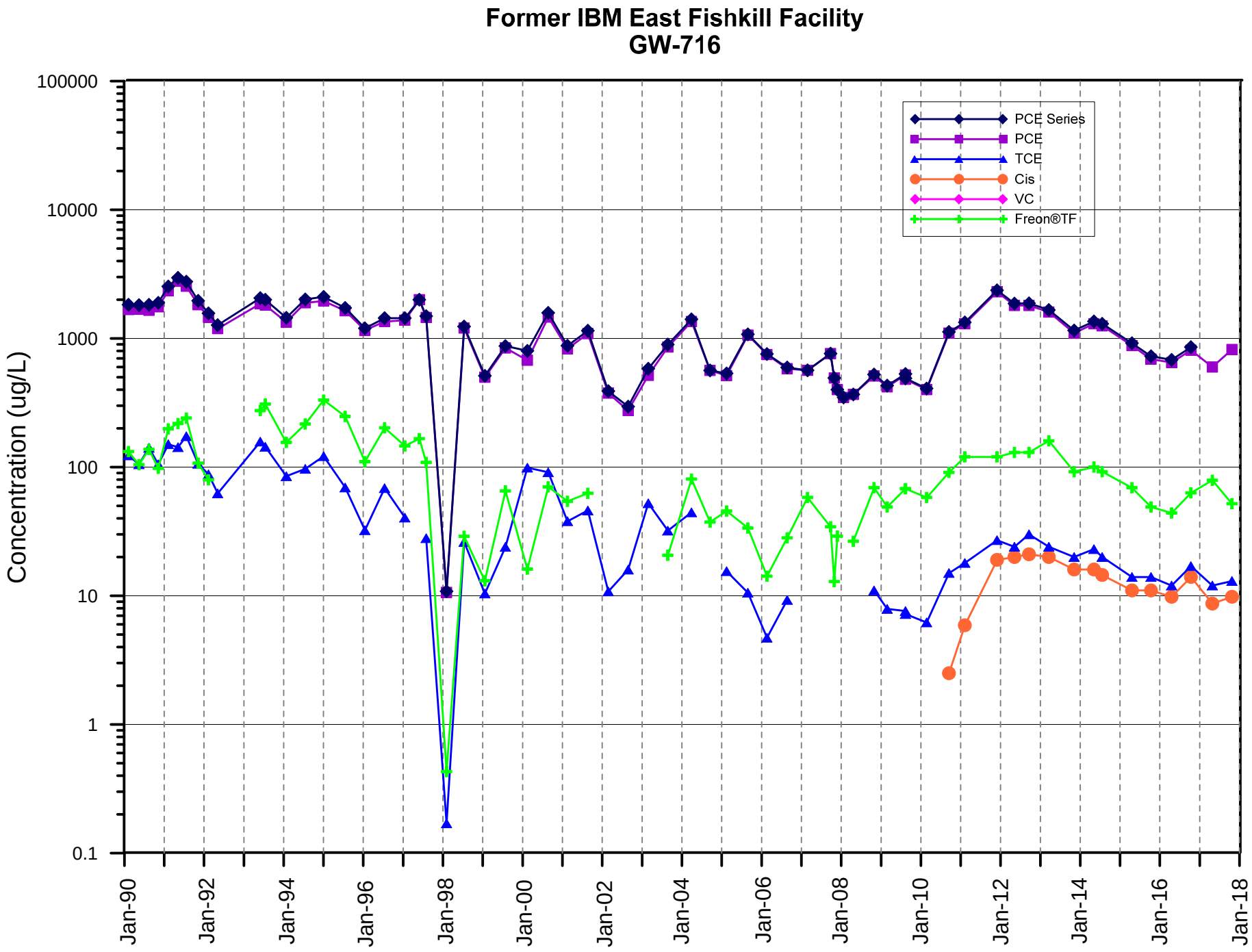

Former IBM East Fishkill Facility
GW-716
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-12

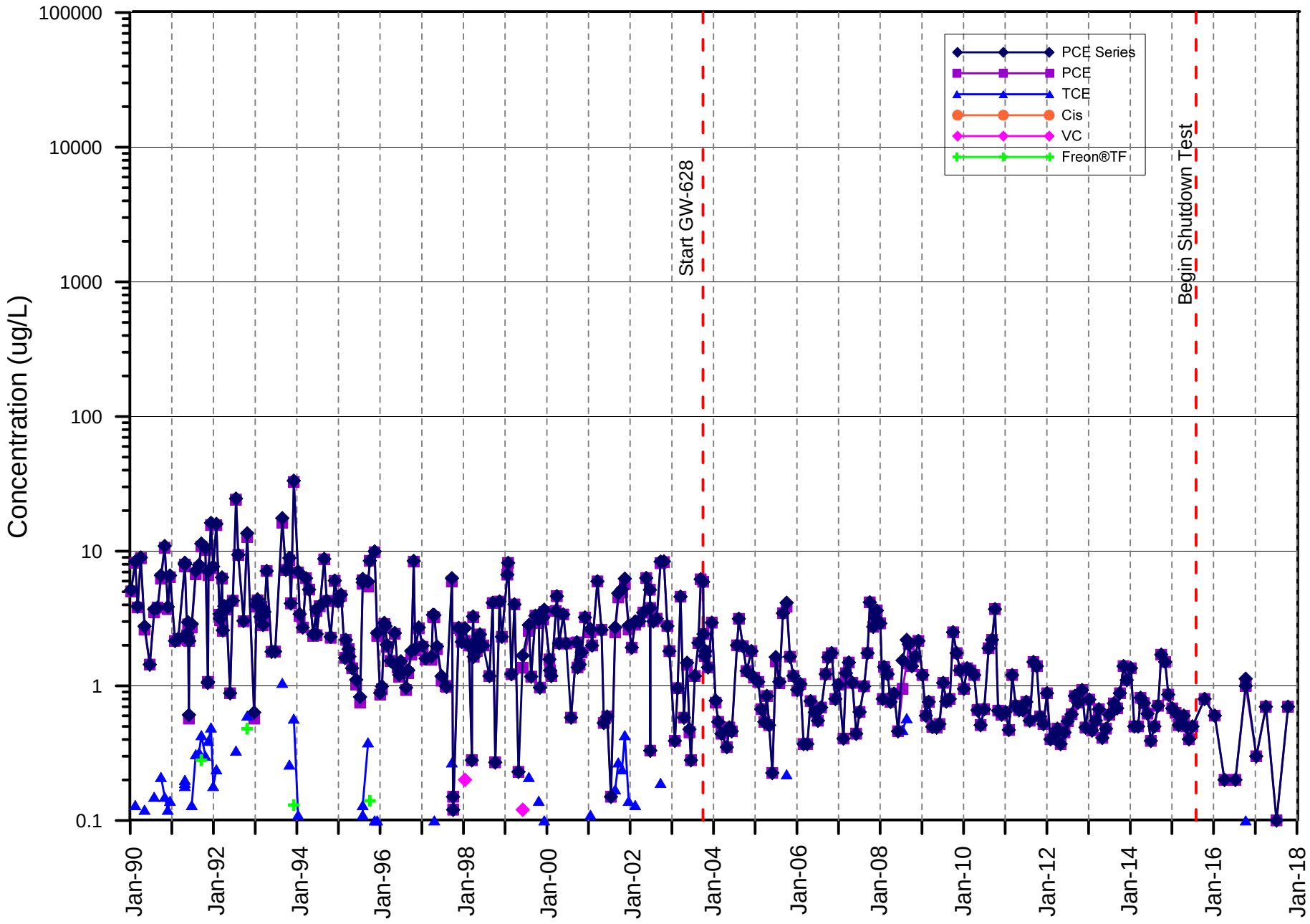

Former IBM East Fishkill Facility
GW-863/628
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
Start GW-628
Begin Shutdown Test
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-13

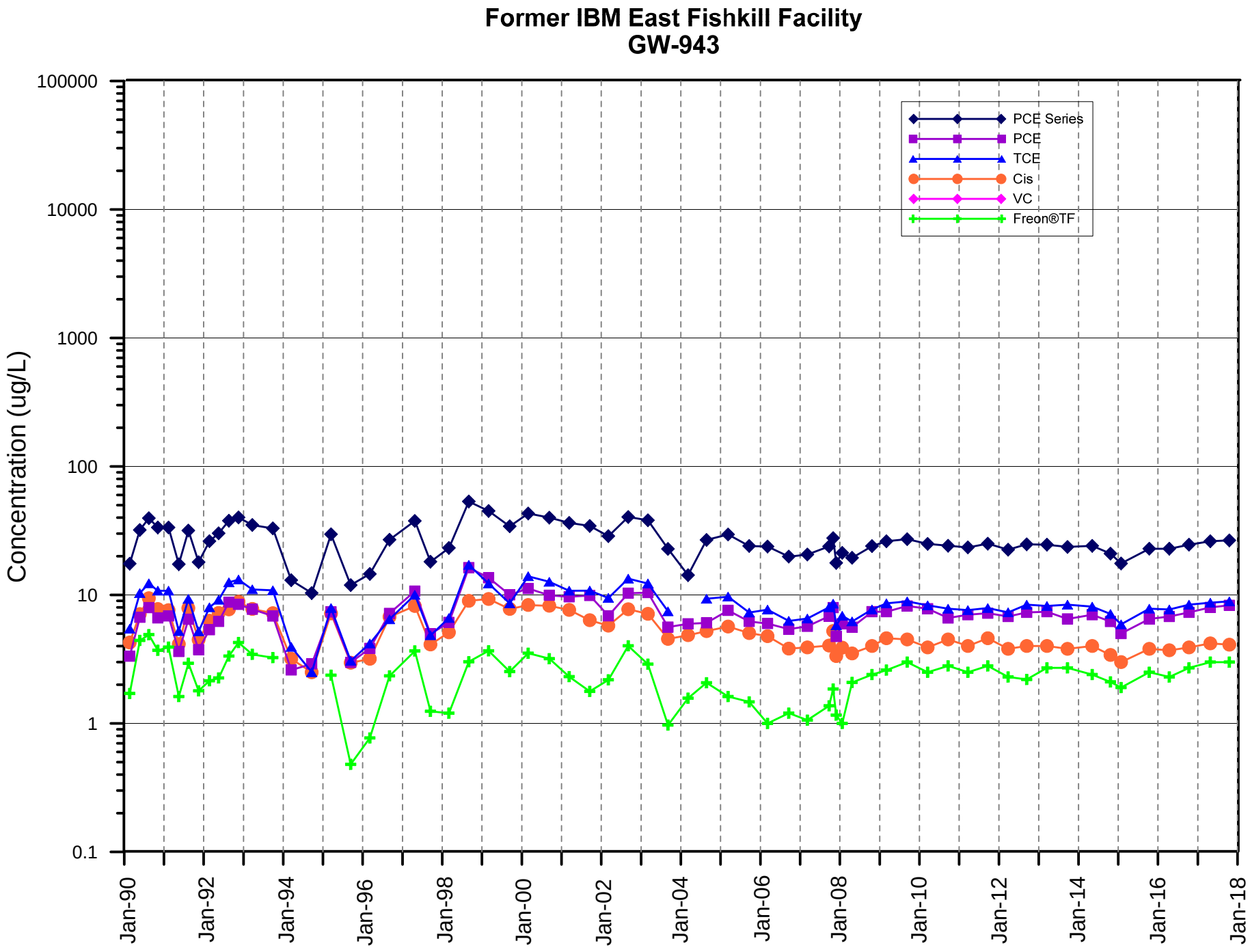

Former IBM East Fishkill Facility
GW-943
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-14

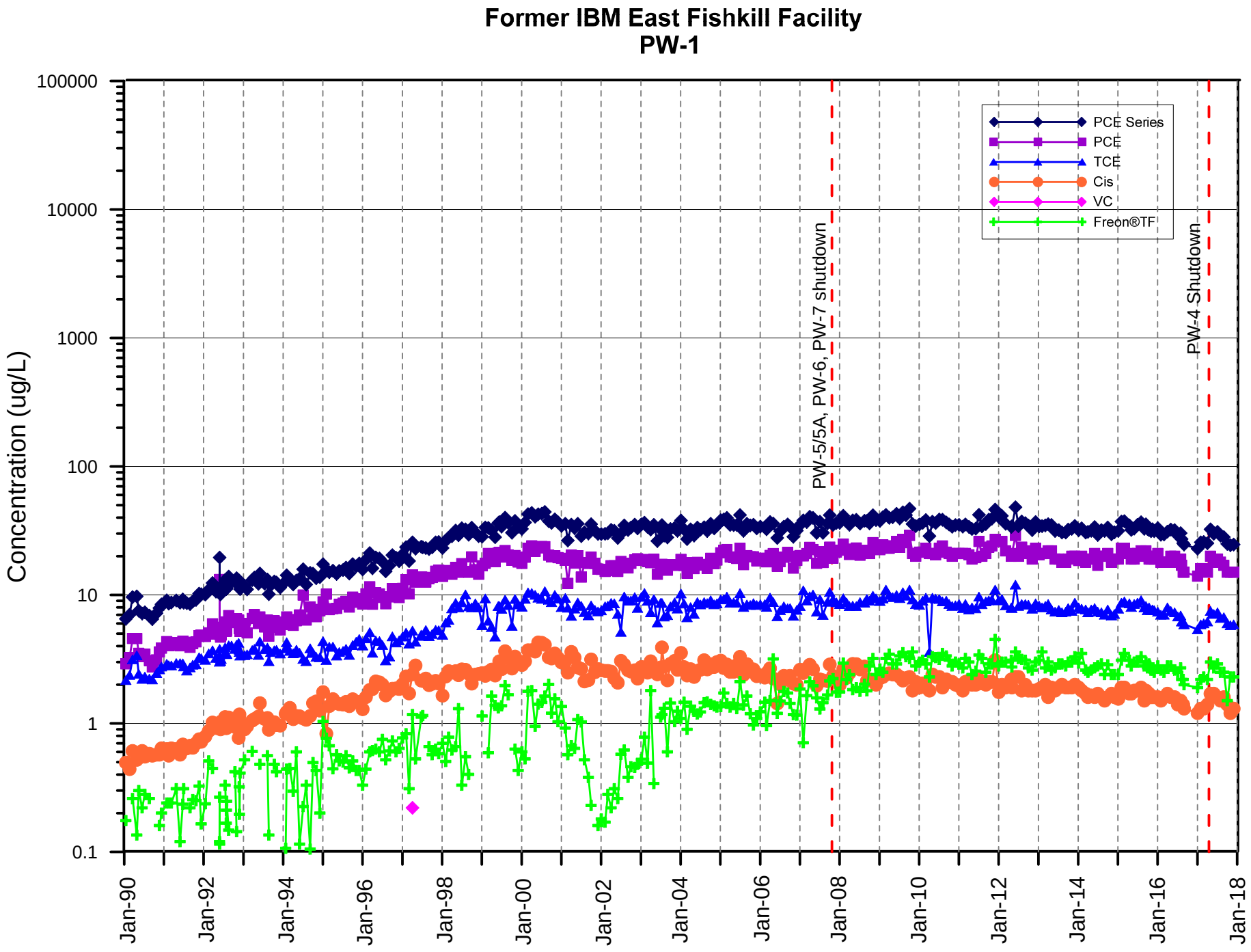

Former IBM East Fishkill Facility
PW-1
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
PW-5/5A, PW-6, PW-7 shutdown
PW-4 Shutdown
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-15

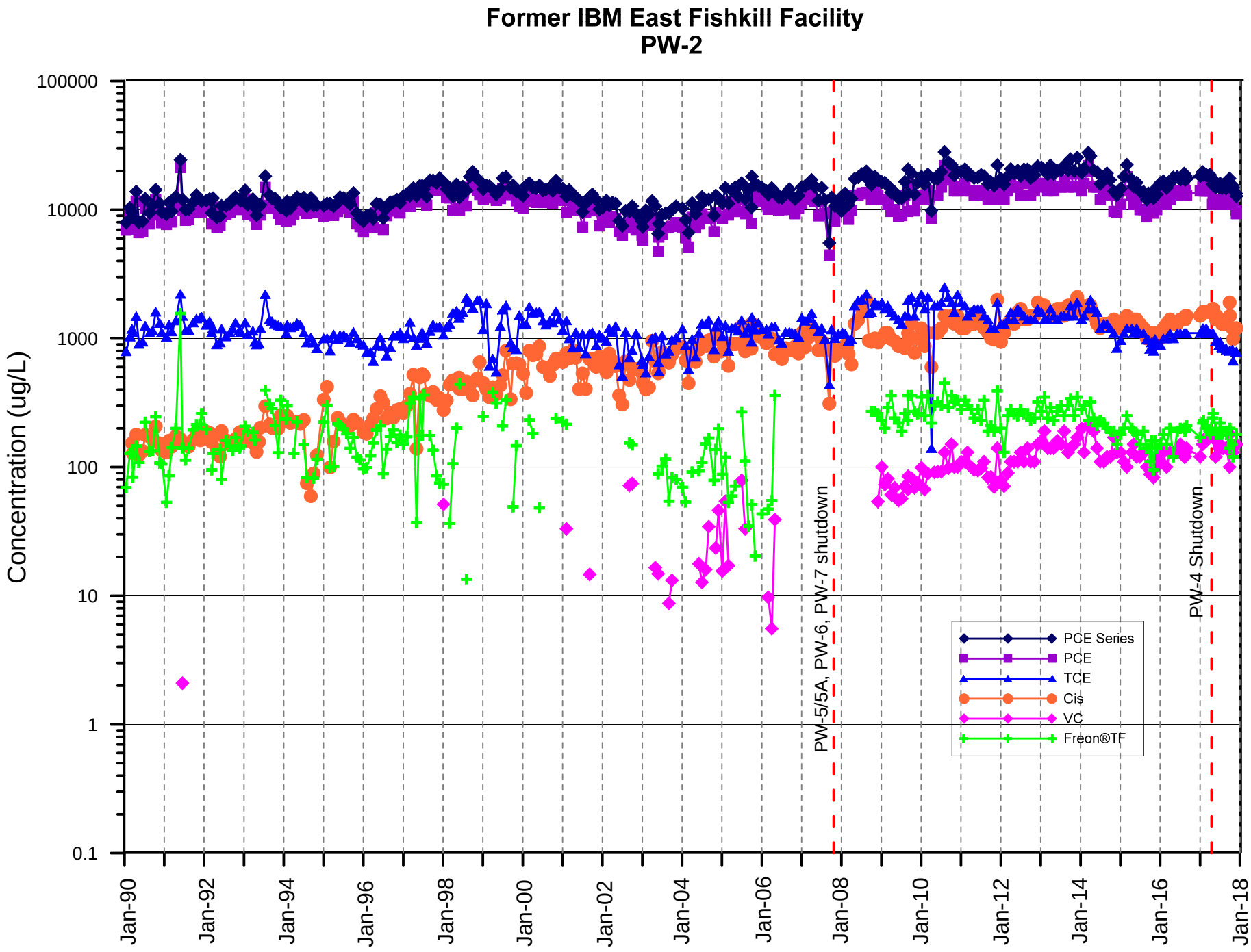

Former IBM East Fishkill Facility
PW-2
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
PW-5/5A, PW-6, PW-7 shutdown
PW-4 Shutdown
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-16

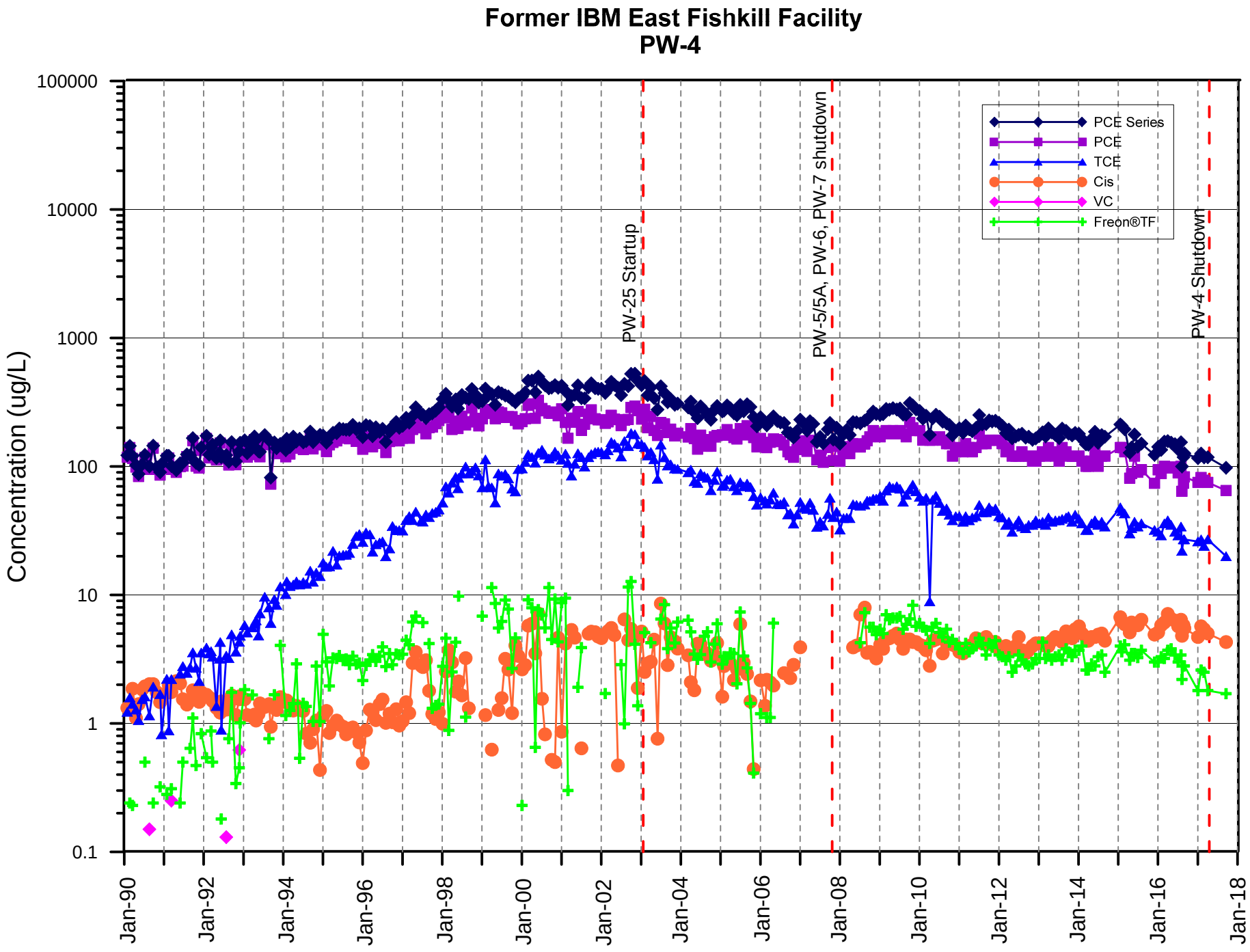

Former IBM East Fishkill Facility
PW-4
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
PW-25 Startup
PW-5/5A, PW-6, PW-7 shutdown
PW-4 Shutdown
PCE Series
PCE
TCE
Cis
VC
Freon®TF
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18

Figure 3-17

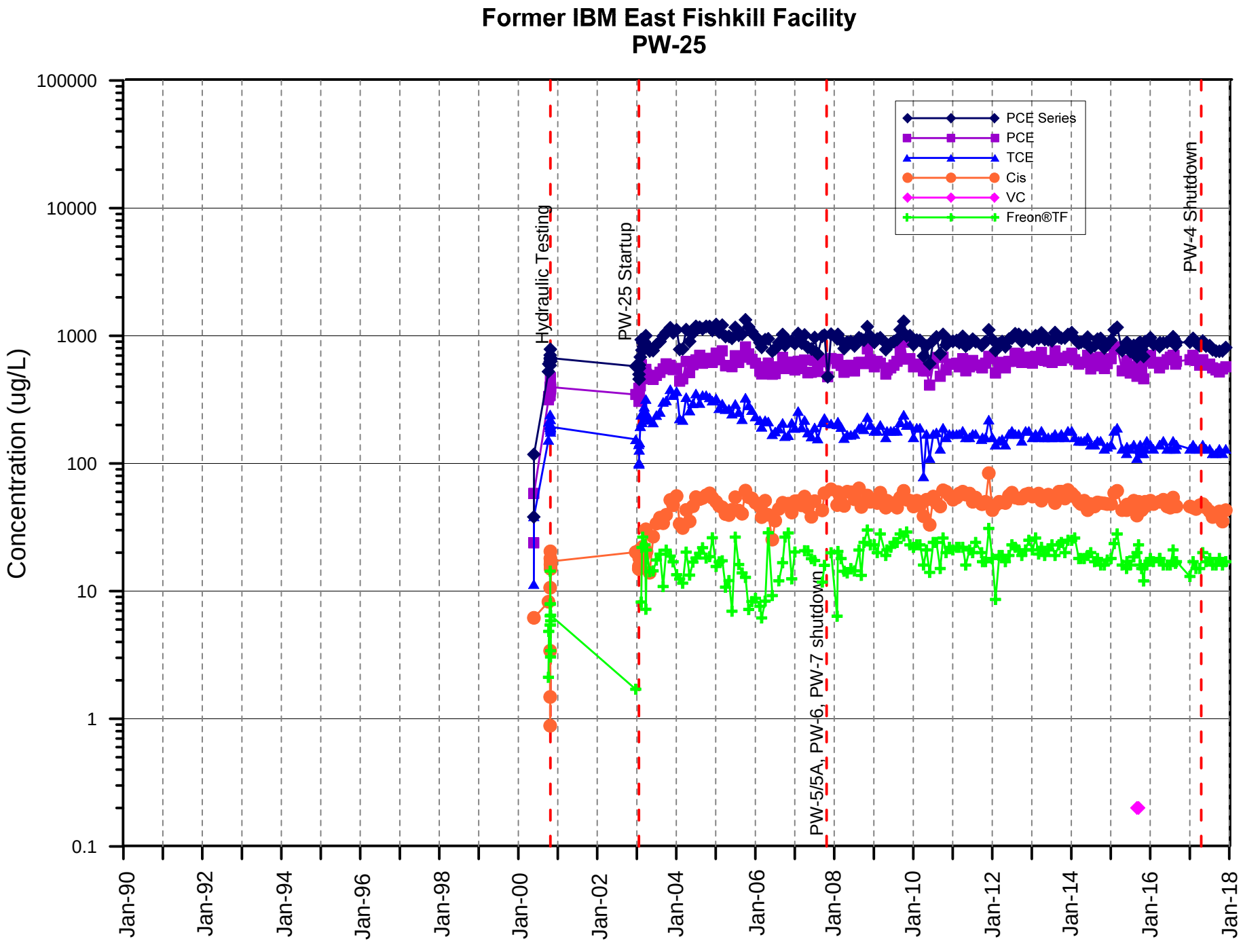

Former IBM East Fishkill Facility
PW-25
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
PCE Series
PCE
TCE
Cis
VC
Freon®TF
Hydraulic Testing
PW-25 Startup
PW-5/5A, PW-6, PW-7 shutdown
PW-4 Shutdown

Figure 3-18

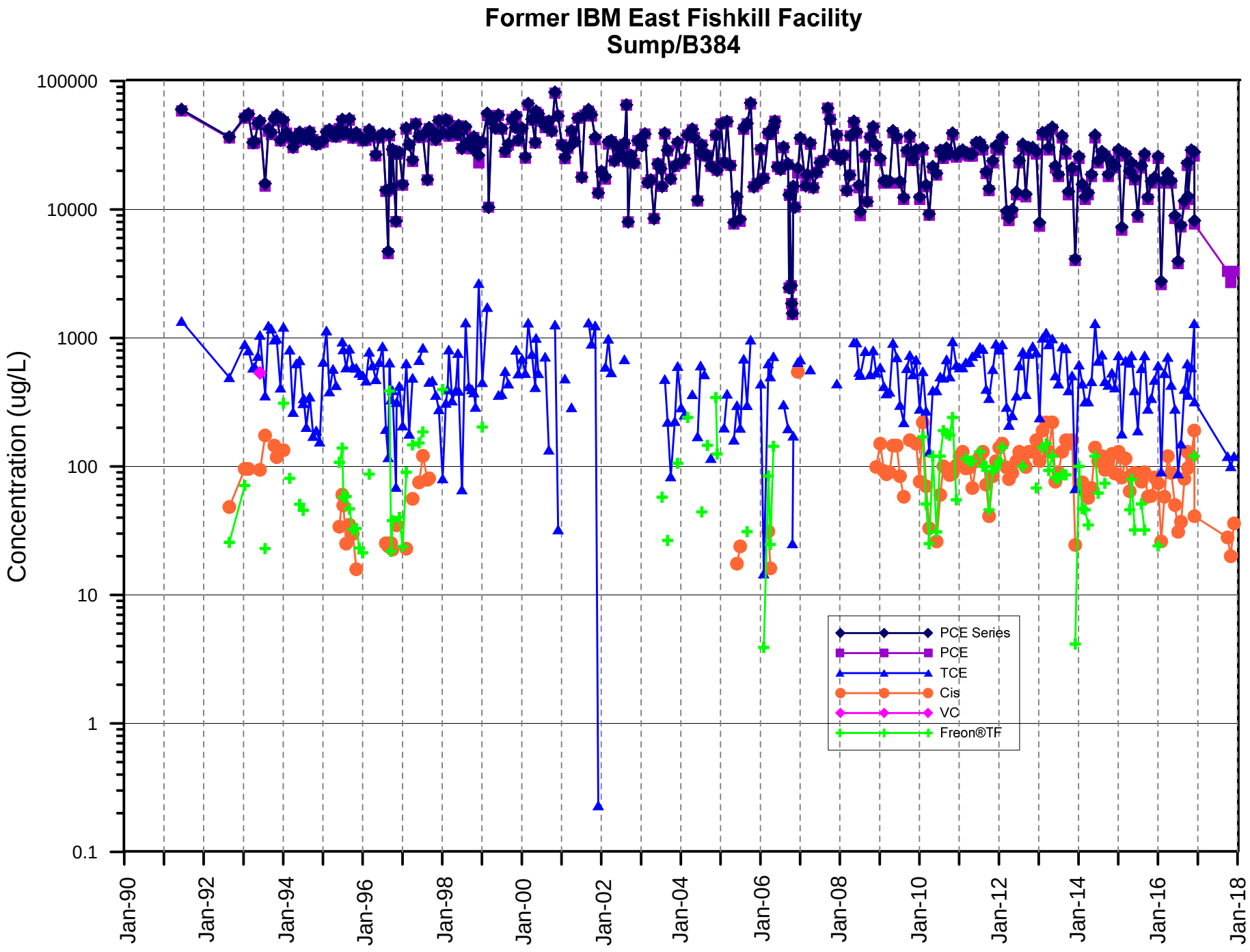

Former IBM East Fishkill Facility
Sump/B384
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-19

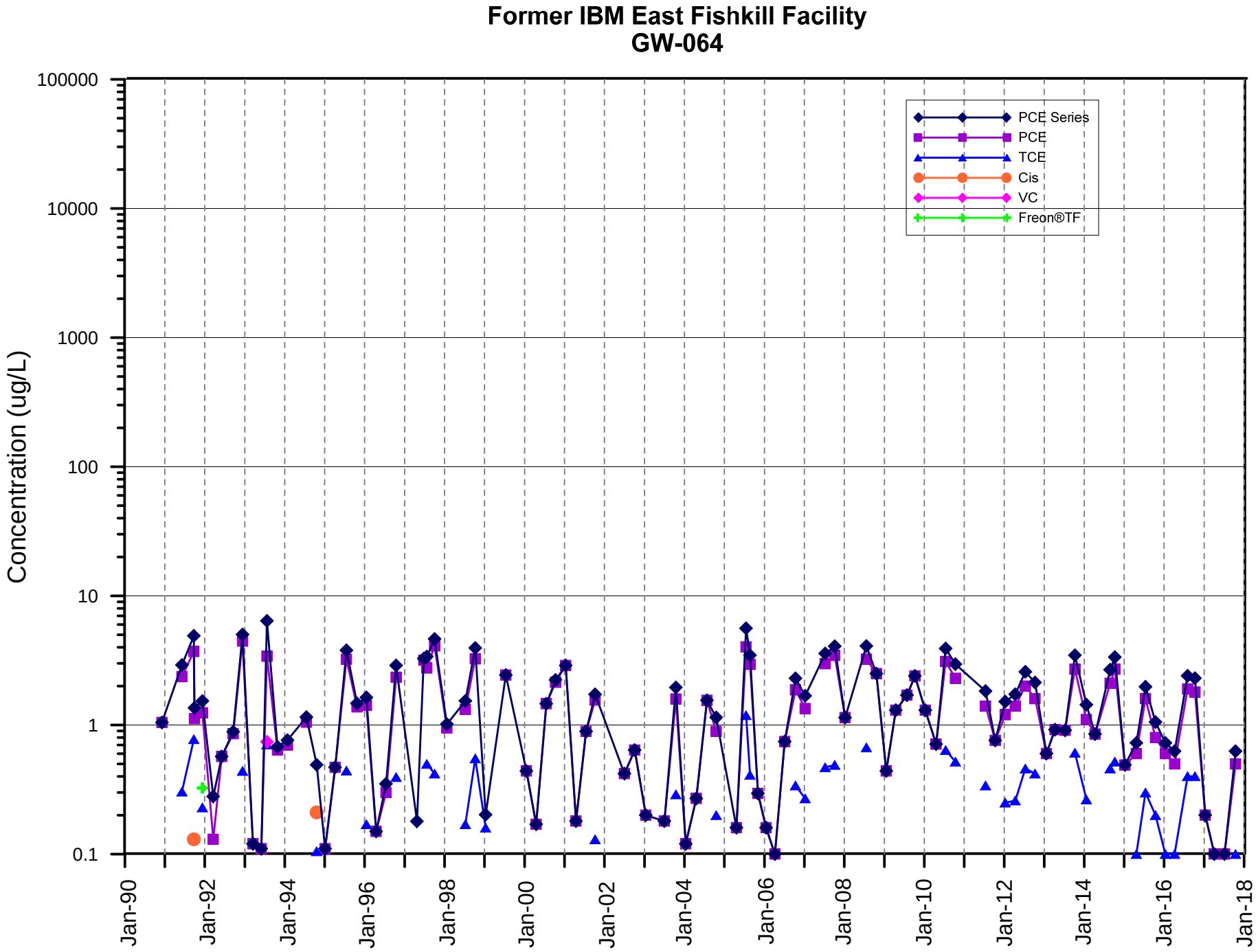

Former IBM East Fishkill Facility
GW-064
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-20

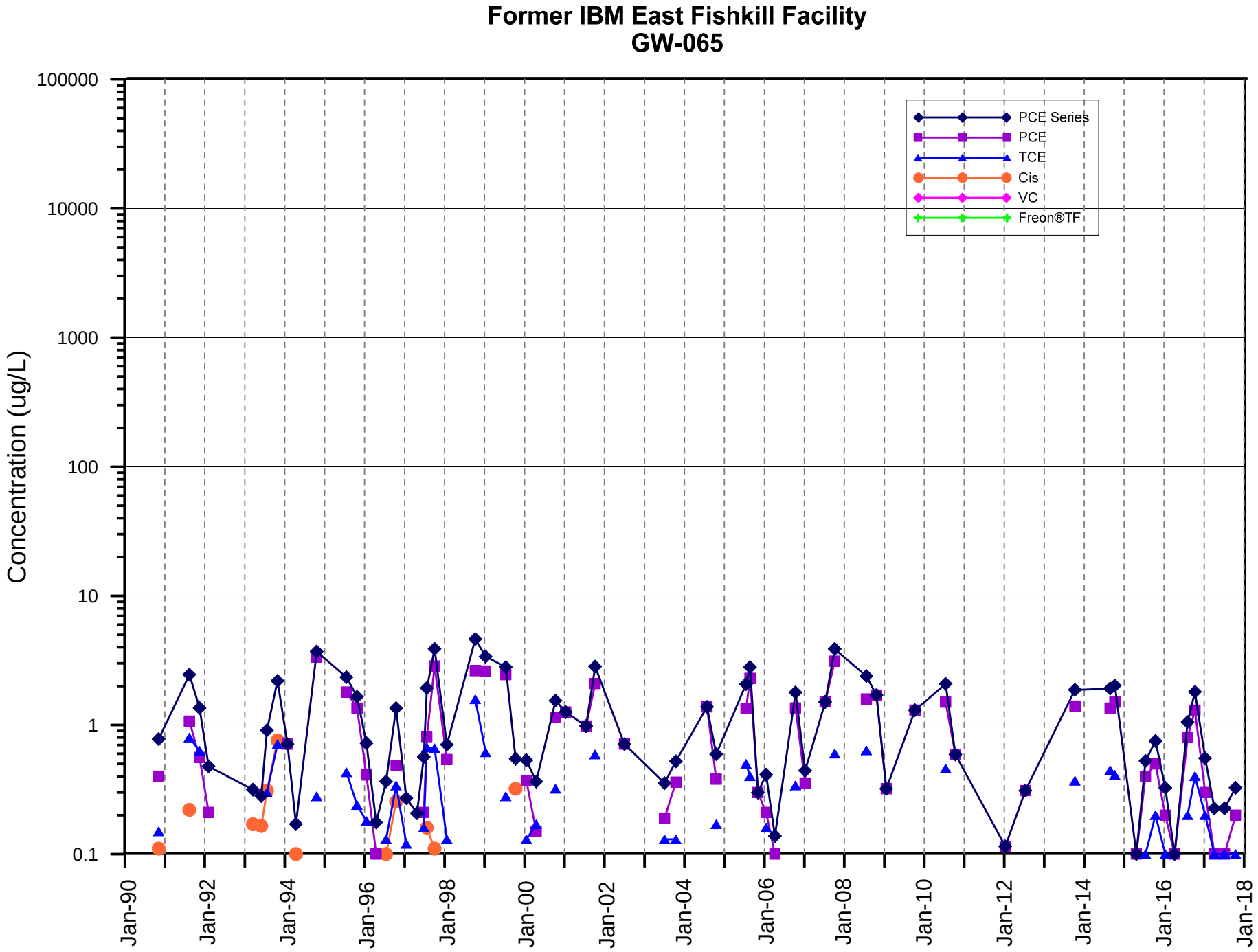

Former IBM East Fishkill Facility
GW-065
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-21

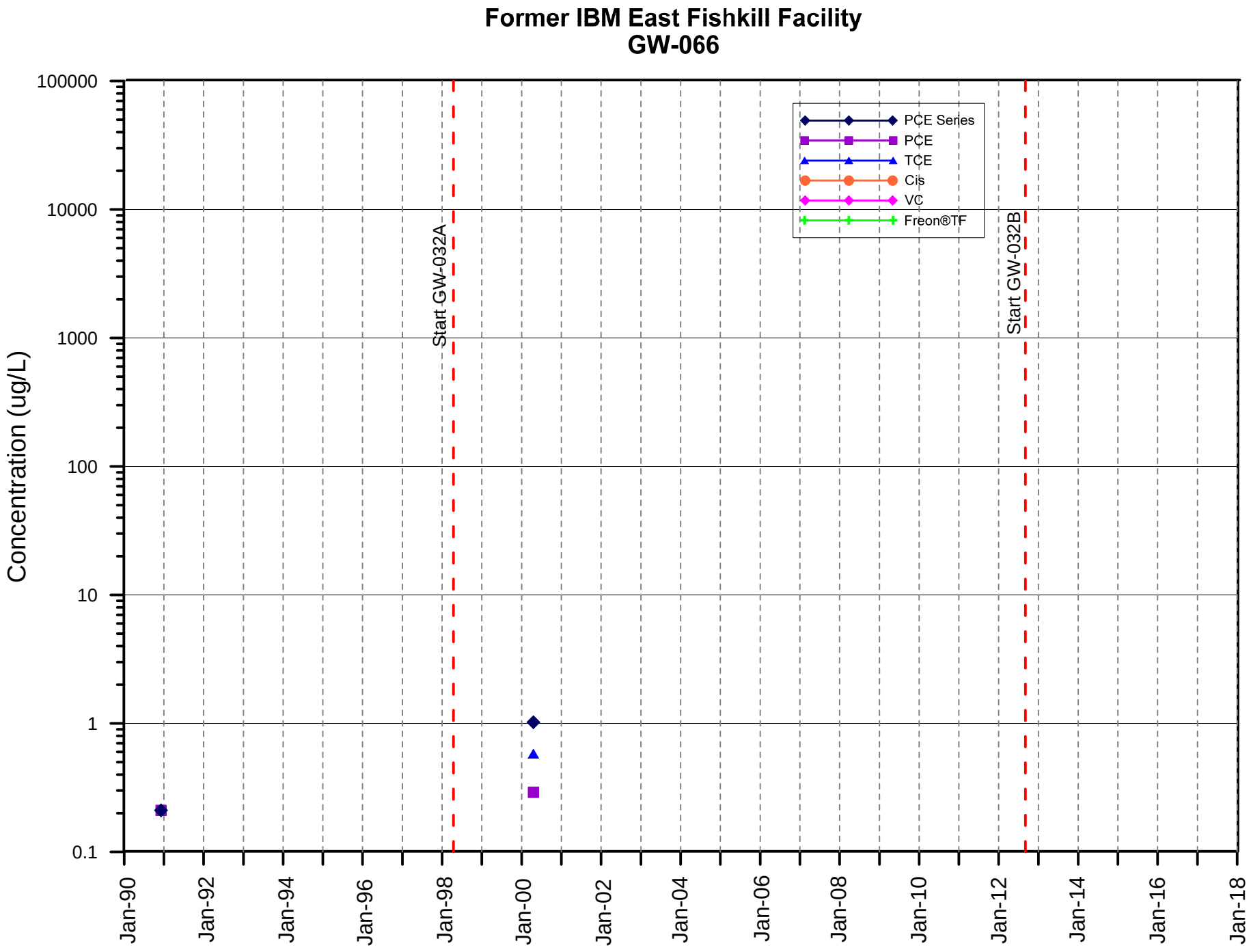

Former IBM East Fishkill Facility
GW-066
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Start GW-032A
Start GW-032B
PCE Series
PCE
TCE
Cis
VC
Freon®TF
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18

Figure 3-22

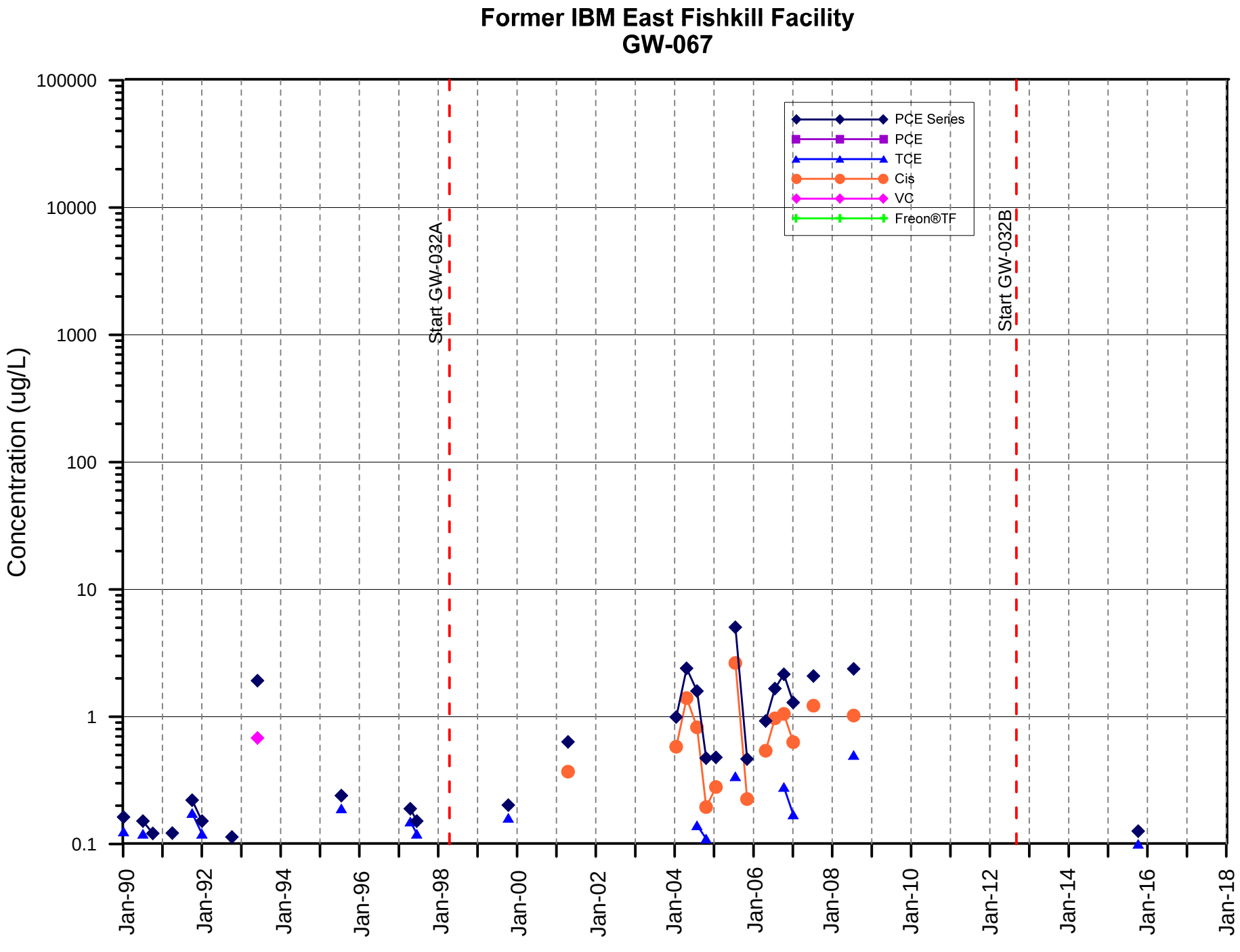

Former IBM East Fishkill Facility
GW-067
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Start GW-032A
Start GW-032B
PCE Series
PCE
TCE
Cis
VC
Freon®TF
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18

Figure 3-23

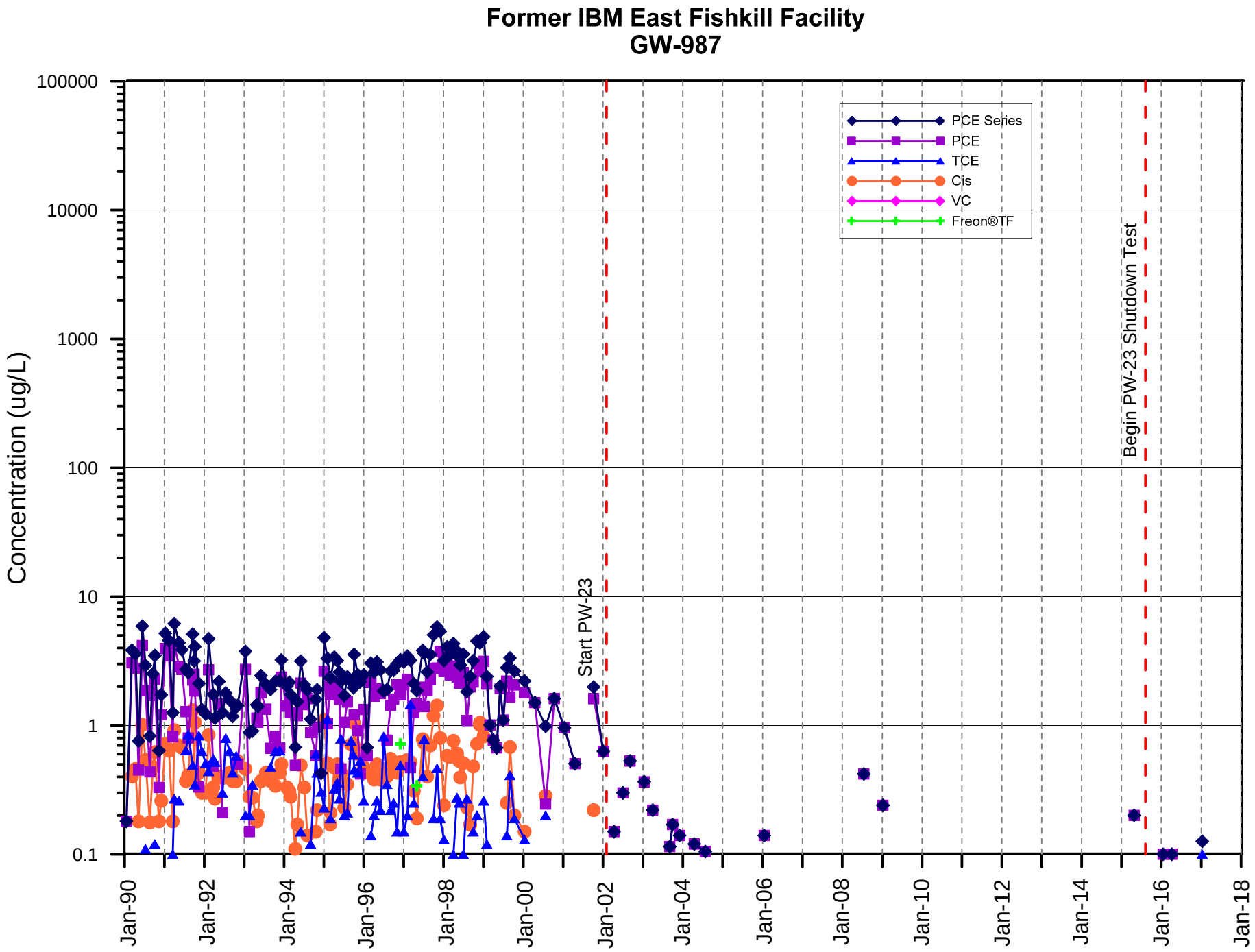

Former IBM East Fishkill Facility
GW-987
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
PCE Series
PCE
TCE
Cis
VC
Freon®TF
Start PW-23
Begin PW-23 Shutdown Test
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18

Figure 3-24

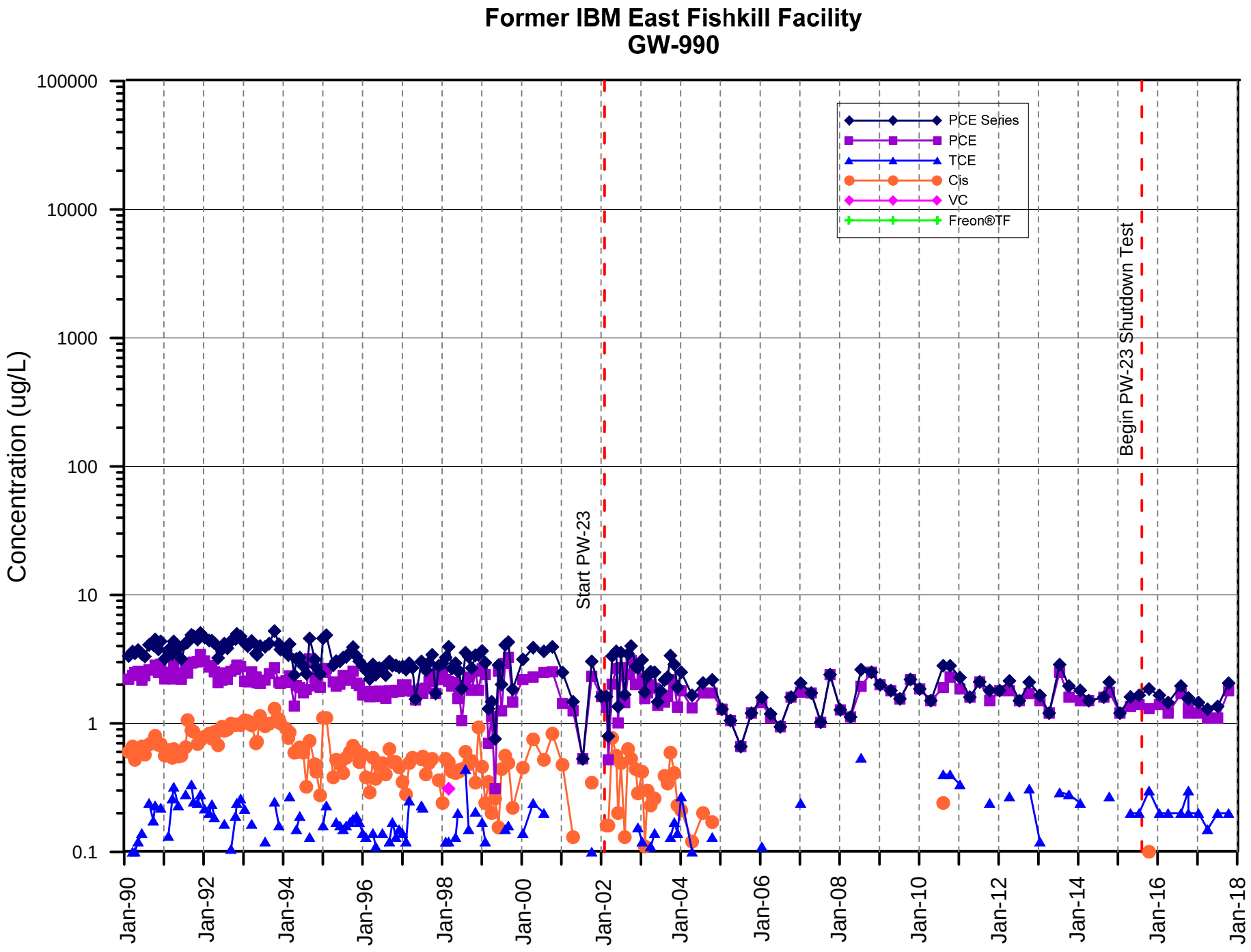
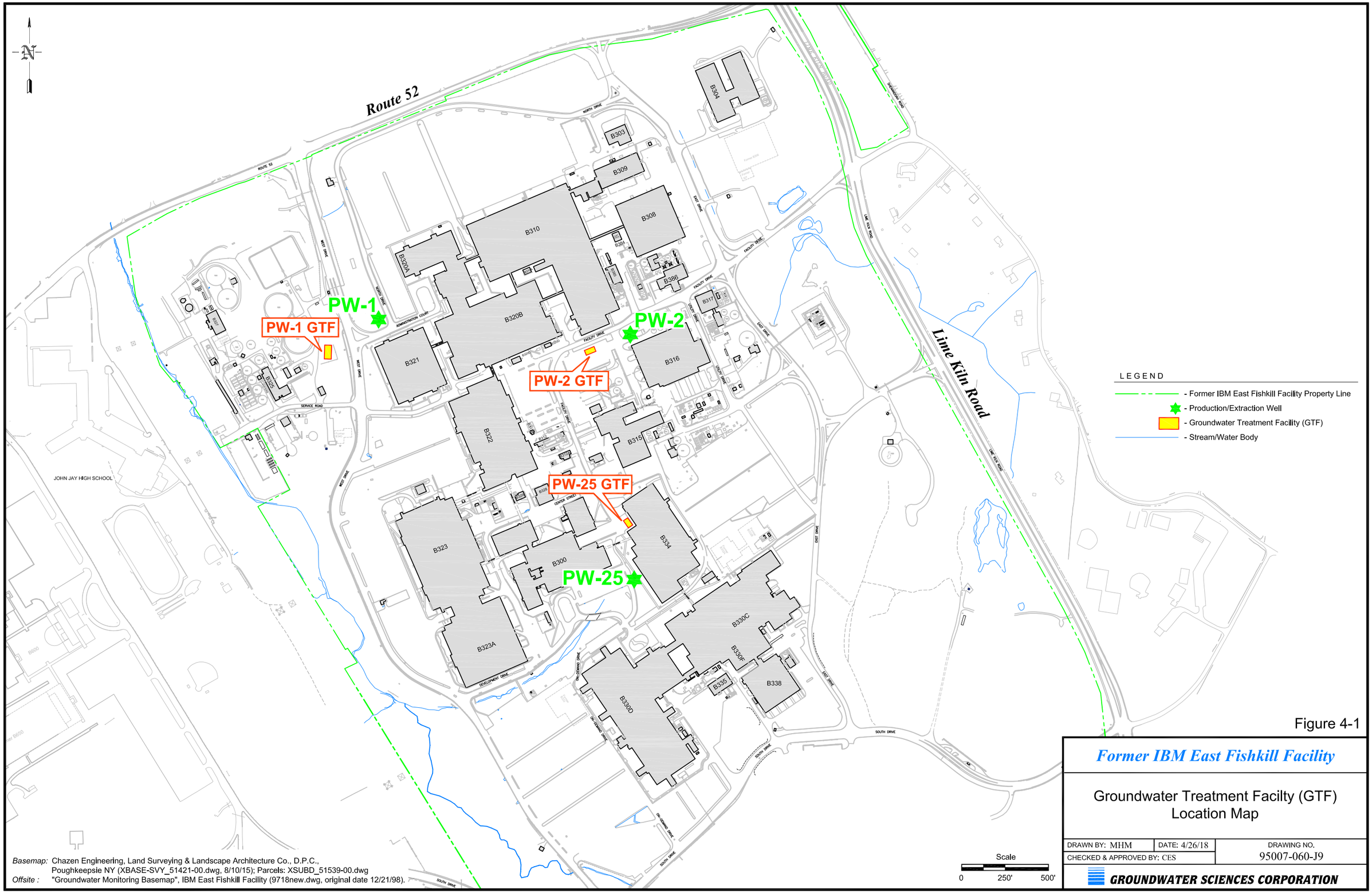

Former IBM East Fishkill Facility
GW-990
Concentration (ug/L)
100000
10000
1000
100
10
1
0.1
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98
Jan-00
Jan-02
Jan-04
Jan-06
Jan-08
Jan-10
Jan-12
Jan-14
Jan-16
Jan-18
Start PW-23
Begin PW-23 Shutdown Test
PCE Series
PCE
TCE
Cis
VC
Freon®TF

Figure 3-25



Basemap: Chazen Engineering, Land Surveying & Landscape Architecture Co., D.P.C., Poughkeepsie NY (XBASE-SVY_51421-00.dwg, 8/10/15); Parcels: XSUBD_51539-00.dwg

Offsite : "Groundwater Monitoring Basemap", IBM East Fishkill Facility (9718new.dwg, original date 12/21/98).

Figure 4-1

Former IBM East Fishkill Facility

Groundwater Treatment Facilty (GTF) Location Map

DRAWN BY: MHM	DATE: 4/26/18	DRAWING NO. 95007-060-J9
CHECKED & APPROVED BY: CES		

GROUNDWATER SCIENCES CORPORATION


1
2
3
4
5
6
7
8
LOT 2 REVERSIONARY PARCEL – 6.64 AC.
PROPERTY LINE POST REVERSION
LOT 4 REVERSIONARY PARCEL – 2.85 AC.
B303
B309
B308
B310
B320A
B320B
B321
B316
B322
B315
B323
B323A
B300
B334
B330C
B330D
B330F
B335
B338
B304
B317
B386
B384
B385
B387
B388
B389
B390
B391
B392
B393
B394
B395
B396
B397
B398
B399
B400
B401
B402
B403
B404
B405
B406
B407
B408
B409
B410
B411
B412
B413
B414
B415
B416
B417
B418
B419
B420
B421
B422
B423
B424
B425
B426

LEGEND

- Former IBM East Fishkill Facility Property Line
- Former Structure
- ▲ Soil Monitoring Well (for groundwater sampling and elevations)
- △ Soil Monitoring Well (for groundwater elevations only)
- ▼ Bedrock Monitoring Well (for groundwater sampling and elevations)
- ▽ Bedrock Monitoring Well (for groundwater elevations only)
- ● Soil/Bedrock Monitoring Well (for groundwater sampling and elevations)
- ○ Soil/Bedrock Monitoring Well (for groundwater elevations only)
- ★ Bedrock Extraction Well
- ☆ Inactive Bedrock Extraction Well
- ✸ Shallow Extraction Well (all in soil except well 628 in bedrock)
- ✲ Inactive Shallow Extraction Well
- OU – Operable Unit

E0000 E1000 E2000 E3000 E4000 E5000 E6000 E7000 E8000

N9000 N8000 N7000 N6000 N5000 N4000

AREA A (OU5)

AREA B (OU3)

AREA C (LANDFILL) (OU6)

AREA D (OU4)

B/322 (OU7)

B/330 (OU8)

SOUTHEAST QUADRANT (OU9)

B303 B304 B308 B309 B310 B320A B320B B321 B322 B323 B323A B300 B304 B315 B316 B317 B330C B330D B330F B335 B338 B386

FORMER WEST COMPLEX

FORMER IBM RECREATION CENTER

JOHN JAY HIGH SCHOOL

ROUTE 52 NORTH DRIVE WEST DRIVE NORTH DRIVE ADMINISTRATION COURT FACILITY DRIVE EAST DRIVE STATE STREET DEVELOPMENT DRIVE OLD ROUTE 9 SOUTH DRIVE SOUTH DRIVE LAKE KEL ROAD INTERSTATE 84

PW-1 PW-2 PW-3 PW-4 PW-5 PW-5A PW-6 PW-7 PW-23 PW-25

B-384 Sump

Scale 0 200' 400'

Plate 2

Former IBM East Fishkill Facility

Groundwater Monitoring Plan
Well Location Map

DRAWN BY: MHM	DATE: 9/16/15	DRAWING NO. 95007-086-D1
CHECKED & APPROVED BY: CES		

GROUNDWATER SCIENCES CORPORATION

LEGEND

- Former IBM East Fishkill Facility Property Line
- Former Structure
- GMP Soil Monitoring Well
- GMP Soil Monitoring Well (for groundwater elevations only)
- GMP Soil/Bedrock Monitoring Well
- GMP Soil/Bedrock Monitoring Well (for groundwater elevations only)
- Bedrock Extraction Well
- Inactive Bedrock Extraction Well
- Shallow Extraction Well
- Inactive Shallow Extraction Well
- OU – Operable Unit
- 220 – Contour of Constant Potentiometric Head (feet amsl)
- 228.08 – Groundwater Elevation (feet amsl)
- Generalized Direction of Groundwater Flow
- Groundwater Divide
- Extent of Clay Mapping
- Extent of Glaciolacustrine Clay
- Inferred Areas of No Saturated Soil (Approximate)

Area of Concern	Extraction Well(s)	Avg. April 2017 Flow Rate (GPM)
Area A	B384 Sump & GW-634	0.8
Area B	628	OFF LINE
Area D	032B	OFF LINE
B/322	612, 617	OFF LINE

AREA A (OU5)
AREA B (OU3)
AREA D (OU4)
B/322 (OU7)
B/330 (OU8)
SOUTHEAST QUADRANT (OU9)
LANDFILL (OU6)
PW-1
PW-2
PW-3
PW-4
PW-5
PW-6
PW-7
B384 Sump
FORMER WEST COMPLEX
FORMER IBM RECREATION CENTER
JOHN JAY HIGH SCHOOL
INTERSTATE 84
ROUTE 52
LAKE WALTON ROAD
SOUTH DRIVE
WEST DRIVE
EAST DRIVE
FACILITY DRIVE
NORTH DRIVE
CENTER STREET
DELAWARE DRIVE
DELAWARE COURT
CONSTITUTION COURT
SERVICE ROAD
B300, B303, B304, B306, B308, B309, B310, B316, B317, B320A, B320B, B321, B322, B323, B323A, B324, B330C, B330D, B330F, B334, B335, B338, B386, B387, B388, B630, B640, B650, Former B650

Scale
0 200' 400'

Plate 3

Former IBM East Fishkill Facility

Elevation Contour Map
Soil Groundwater Table
April 24-26, 2017

DRAWN BY: MHM	DATE: 5/23/18	DRAWING NO.
CHECKED & APPROVED BY: CES		95007-102-G2

GROUNDWATER SCIENCES CORPORATION

LEGEND

- Former IBM East Fishkill Facility Property Line
- Former Structure
- ▼ – GMP Bedrock Monitoring Well
- ▽ – GMP Bedrock Monitoring Well (for groundwater elevations only)
- ★ – Bedrock Extraction Well
- ☆ – Inactive Bedrock Extraction Well
- ✱ – Soil Extraction Well
- OU – Operable Unit
- 200 – Contour of Constant Potentiometric Head (feet amsl)
- Generalized Direction of Groundwater Flow
- Groundwater Divide
- 164.54 – Groundwater Elevation (feet amsl) "<" symbol denotes a dry well. Elevation listed is the bottom elevation of the well

Note: Generally, the data used in contouring this plate is from the deepest of the bedrock wells in a well cluster and corresponds to a screened or open hole interval elevation between approximately 50 and 120 feet amsl (with the exception of PW-23). This elevation interval generally correlates with the principal water-bearing zones in the on-site deep bedrock production wells. (The principal water-bearing zone in PW-23 is at approximately 221 feet amsl, which is significantly higher than the elevation of the principal water-bearing zones in the other production wells.) Only groundwater elevation data from wells used in contouring is shown on this plate.

Extraction Well	Avg. April 2017 Flow Rate (GPM)
PW-1	70
PW-2	116
PW-4*	59
PW-25	226

*Based on the approved Production Well Optimization Report, flow rebalancing at the production wells commenced on April 17, 2017. PW-4 off-line beginning April 17, 2017. Average April 2017 flow rate prior to shutdown was 109 GPM.



Scale 0 200' 400'

Plate 4

Former IBM East Fishkill Facility

Elevation Contour Map
Deep Bedrock Potentiometric Surface
April 24-26, 2017

DRAWN BY: MHM	DATE: 5/24/18	DRAWING NO. 95007-064-S2
CHECKED & APPROVED BY: CES		

GROUNDWATER SCIENCES CORPORATION

LEGEND

- Former IBM East Fishkill Facility Property Line
- Former Structure
- ▲ - GMP Soil Monitoring Well
- ● - GMP Soil/Bedrock Monitoring Well
- ★ - Bedrock Extraction Well
- ☆ - Inactive Bedrock Extraction Well
- ✱ - Shallow Extraction Well
- ☼ - Inactive Shallow Extraction Well
- OU - Operable Unit
- PCE - Tetrachloroethene
- 5 - PCE Concentration Contour (ug/l)
- *18* - PCE Concentration (ug/l; April 4-May 12, 2017)
- *ND@'X'* - Not Detected at Laboratory Detection Limit "X"
- **Extent of Clay Mapping**
- **Extent of Glaciolacustrine Clay** (East Complex only) (Approximate)
- Inferred Areas of No Saturated Soil

AREA A (OU 5)
AREA B (OU 3)
AREA D (OU 4)
B/322 (OU 7)
B/330 (OU 8)
SOUTHEAST QUADRANT (OU 9)
AREA C (OU 6)
FORMER WEST COMPLEX
FORMER IBM RECREATION CENTER
JOHN JAY HIGH SCHOOL
INTERSTATE 84
ROUTE 52
LAKE MILL ROAD
NORTH DRIVE
WEST DRIVE
SOUTH DRIVE
EAST DRIVE
FACILITY DRIVE
UTILITY DRIVE
SERVICE ROAD
ADMINISTRATION COURT
CHURCH STREET
CHELSEA DRIVE
CHESTNUT DRIVE
B303, B304, B308, B310, B320A, B320B, B321, B322, B323, B323A, B300, B316, B336, B337, B375, B330C, B330F, B335, B338, B339, B340, B350, B360, B540, B550, Former B540, Former B560, Former B580, Former B590, Former B600, Former B610, Former B620, Former B630, Former B640, Former B650, Former B660, Former B670, Former B680, Former B690, Former B700, Former B710, Former B720, Former B730, Former B740, Former B750, Former B760, Former B770, Former B780, Former B790, Former B800, Former B810, Former B820, Former B830, Former B840, Former B850, Former B860, Former B870, Former B880, Former B890, Former B900, Former B910, Former B920, Former B930, Former B940, Former B950, Former B960, Former B970, Former B980, Former B990
PW-1, PW-2, PW-4, PW-5, PW-5A, PW-6, PW-7, PW-9, PW-23, PW-25
Sump

Plate 5

Former IBM East Fishkill Facility

Isoconcentration Contour Map
Soil PCE
April-May 2017

DRAWN BY: MHM	DATE: 5/23/18	DRAWING NO.
CHECKED & APPROVED BY: CES		95007_PCE_2Q2017_soil_1

GROUNDWATER SCIENCES CORPORATION

Scale
0 200' 400'

LEGEND

- Former IBM East Fishkill Facility Property Line
- Former Structure
- ▲ - GMP Soil Monitoring Well
- ● - GMP Soil/Bedrock Monitoring Well
- ★ - Bedrock Extraction Well
- ☆ - Inactive Bedrock Extraction Well
- ✱ - Shallow Extraction Well
- ☼ - Inactive Shallow Extraction Well
- OU - Operable Unit
- TCE - Trichloroethene
- 5 - TCE Concentration Contour (ug/l)
- 9.3 - TCE Concentration (ug/l; April 4-May 12, 2017)
- ND@'X' - Not Detected at Laboratory Detection Limit "X"
- - Extent of Clay Mapping
- - Extent of Glaciolacustrine Clay (East Complex only) (Approximate)
- - Inferred Areas of No Saturated Soil

AREA A (OU 5)
AREA B (OU 3)
AREA D (OU 4)
B/322 (OU 7)
B/330 (OU 8)
SOUTHEAST QUADRANT (OU 9)
AREA C (OU 6)
FORMER WEST COMPLEX
FORMER IBM RECREATION CENTER
JOHN JAY HIGH SCHOOL
INTERSTATE 84
ROUTE 52
NORTH DRIVE
WEST DRIVE
EAST DRIVE
SOUTH DRIVE
SERVICE ROAD
ADMINISTRATION COURT
FACILITY DRIVE
UTILITY DRIVE
DEVELOPMENT DRIVE
OLD FISHKILL DRIVE
LAKE KELLY ROAD
B303
B304
B308
B309
B310
B320A
B320B
B321
B322
B323
B323A
B324
B325
B330
B330C
B330D
B330F
B335
B338
B386
B316
B317
B315
B300
B350
B360
B540
B550
Former B560
PW-1
PW-2
PW-4
PW-5
PW-5A
PW-6
PW-7
PW-9
PW-23
PW-25
B384 Sump

Plate 6

Former IBM East Fishkill Facility

Isoconcentration Contour Map
Soil TCE
April-May 2017

DRAWN BY: MHM	DATE: 5/23/18	DRAWING NO.
CHECKED & APPROVED BY: CES		95007_TCE_2Q2017_soil_1

GROUNDWATER SCIENCES CORPORATION

Scale
0 200' 400'

LEGEND

- Former IBM East Fishkill Facility Property Line
- Former Structure
- ▲ - GMP Soil Monitoring Well
- ● - GMP Soil/Bedrock Monitoring Well
- ★ - Bedrock Extraction Well
- ☆ - Inactive Bedrock Extraction Well
- ✱ - Shallow Extraction Well
- ☼ - Inactive Shallow Extraction Well
- OU - Operable Unit
- CIS - cis-1,2-Dichloroethene
- 5 - CIS Concentration Contour (ug/l)
- 12 - CIS Concentration (ug/l; April 4-May 12, 2017)
- ND@X - Not Detected at Detection Limit "X"
- - Extent of Clay Mapping
- - Extent of Glaciolacustrine Clay (East Complex only) (Approximate)
- - Inferred Areas of No Saturated Soil

AREA A (OU 5)
AREA B (OU 3)
AREA C (OU 6)
AREA D (OU 4)
B1322 (OU 7)
B1330 (OU 8)
SOUTHEAST QUADRANT (OU 9)
FORMER WEST COMPLEX
FORMER IBM RECREATION CENTER
JOHN JAY HIGH SCHOOL
B303
B304
B308
B309
B310
B320A
B320B
B321
B322
B323
B323A
B324
B300
B300D
B316
B317
B330C
B330F
B335
B338
B384 Sump
PW-1
PW-2
PW-4
PW-5
PW-5A
PW-6
PW-7
PW-23
PW-25
ROUTE 52
NORTH DRIVE
WEST DRIVE
ADMINISTRATION COURT
SERVICE ROAD
FACILITY DRIVE
CENTER STREET
DUTCH DRIVE
EAST DRIVE
SOUTH DRIVE
DUCK POND DRIVE
DOUGLAS DRIVE
OLD ROUTE 52
I-84
INTERSTATE 84

Scale
0 200' 400'

Plate 7

Former IBM East Fishkill Facility

Isoconcentration Contour Map
Soil CIS
April-May 2017

DRAWN BY: MHM	DATE: 5/23/18	DRAWING NO.
CHECKED & APPROVED BY: CES		95007_cis12-DCE_2Q2017_soil_1

GROUNDWATER SCIENCES CORPORATION

LEGEND

- Former IBM East Fishkill Facility Property Line
- Former Structure
- GMP Soil Monitoring Well
- GMP Soil/Bedrock Monitoring Well
- Bedrock Extraction Well
- Inactive Bedrock Extraction Well
- Shallow Extraction Well
- Inactive Shallow Extraction Well

OU - Operable Unit

VC - Vinyl Chloride

2 - VC Concentration Contour (ug/l)

31 - VC Concentration (ug/l; April 4-May 12, 2017)

ND@"X" - Not Detected at Laboratory Detection Limit "X"

- Extent of Clay Mapping
- Extent of Glaciolacustrine Clay (East Complex only) (Approximate)
- Inferred Areas of No Saturated Soil

AREA A (OU 5)

AREA B (OU 3)

AREA C (OU 6)

AREA D (OU 4)

B/322 (OU 7)

B/330 (OU 8)

SOUTHEAST QUADRANT (OU 9)

FORMER WEST COMPLEX

FORMER IBM RECREATION CENTER

JOHN JAY HIGH SCHOOL

Plate 8

Former IBM East Fishkill Facility

Isoconcentration Contour Map
Soil VC
April-May 2017

DRAWN BY: MHM	DATE: 5/23/18	DRAWING NO.
CHECKED & APPROVED BY: CES		95007_VC_2Q2017_soil_1

GROUNDWATER SCIENCES CORPORATION

Scale
0 200' 400'

LEGEND

- Former IBM East Fishkill Facility Property Line
- Former Structure
- ▲ - GMP Soil Monitoring Well
- ● - GMP Soil/Bedrock Monitoring Well
- ★ - Bedrock Extraction Well
- ☆ - Inactive Bedrock Extraction Well
- ✸ - Shallow Bedrock Extraction Well
- ☼ - Inactive Shallow Extraction Well
- OU - Operable Unit
- 5 - Freon® TF Concentration Contour (ug/l)
- 140 - Freon® TF Concentration (ug/l; April 4-May 12, 2017)
- ND@"X" - Not Detected at Laboratory Detection Limit "X"
- **Extent of Glaciolacustrine Clay** (East Complex only)
- Inferred Areas of No Saturated Soil (Approximate)

AREA A (OU5)
AREA B (OU2)
AREA C (OU1)
AREA D (OU4)
B122 (OU7)
B330 (OU6)
SOUTHEAST QUADRANT (OU3)
FORMER WEST COMPLEX
FORMER IBM RECREATION CENTER
JOHN JAY HIGH SCHOOL
INTERSTATE 84
ROUTE 52
NORTH DRIVE
WEST DRIVE
SOUTH DRIVE
EAST DRIVE
FACILITY DRIVE
UTILITY DRIVE
SERVICE ROAD
CENTER STREET
OCCUPANCE DRIVE
OLD HOPEWELL DRIVE
LAKE MILL ROAD
B303, B304, B308, B309, B310, B320A, B320B, B321, B322, B323, B323A, B300, B330C, B330D, B330F, B335, B338, B316, B317, B386, B375, B384 Sump, PW-1, PW-2, PW-4, PW-5, PW-5A, PW-6, PW-7, PW-9, PW-23, PW-25

Plate 9

Former IBM East Fishkill Facility

Isoconcentration Contour Map
Soil Freon® TF
April-May 2017

DRAWN BY: MHM	DATE: 5/24/18	DRAWING NO.
CHECKED & APPROVED BY: CES		95007_FTF_2Q2017_soil_2

GROUNDWATER SCIENCES CORPORATION

Scale
0 200' 400'

LEGEND

- Former IBM East Fishkill Facility Property Line
- Former Structure
- GMP Bedrock Monitoring Well
- GMP Soil/Bedrock Monitoring Well
- Bedrock Extraction Well
- Inactive Bedrock Extraction Well
- Inactive Shallow Bedrock Extraction Well

OU - Operable Unit

PCE - Tetrachloroethene

5 - PCE Concentration Contour (ug/l)

67 - PCE Concentration (ug/l; April 4-May 12, 2017)

ND@"X" - Not Detected at Laboratory Detection Limit "X"

AREA A (OU5)

AREA B (OU3)

AREA C (LANDFILL) (OU5)

AREA D (OU4)

B/322 (OU7)

B/330 (OU8)

SOUTHEAST QUADRANT (OU9)

FORMER WEST COMPLEX

FORMER IBM RECREATION CENTER

JOHN JAY HIGH SCHOOL

INTERSTATE 84

Scale 0 200' 400'

Plate 10

Former IBM East Fishkill Facility

Isoconcentration Contour Map
Bedrock PCE
April-May 2017

DRAWN BY: MHM	DATE: 5/23/18	DRAWING NO.
CHECKED & APPROVED BY: CES		95007_PCE_2Q2017_BR_1

GROUNDWATER SCIENCES CORPORATION

LEGEND

- Former IBM East Fishkill Facility Property Line
- Former Structure
- GMP Bedrock Monitoring Well
- GMP Soil/Bedrock Monitoring Well
- Bedrock Extraction Well
- Inactive Bedrock Extraction Well
- Inactive Shallow Bedrock Extraction Well

OU - Operable Unit

TCE - Trichloroethene

5 - TCE Concentration Contour (ug/l)

14 - TCE Concentration (ug/l; April 4-May 12, 2017)

ND@"X" - Not Detected at Laboratory Detection Limit "X"

AREA A (OU5)

AREA B (OU3)

AREA C (LANDFILL) (OU6)

AREA D (OU4)

B/322 (OU7)

B/330 (OU8)

SOUTHEAST QUADRANT (OU9)

FORMER WEST COMPLEX

FORMER IBM RECREATION CENTER

JOHN JAY HIGH SCHOOL

Former B650

ROUTE 52

NORTH DRIVE

WEST DRIVE

EAST DRIVE

SOUTH DRIVE

SERVICE ROAD

DUTCHESS DRIVE

DUTCHESS COURT

CANNON DRIVE

CROSS STREET

DECKER DRIVE

VAN WAGNER ROAD

LAKE KELLY ROAD

INTERSTATE 84

I-84

B303, B304, B308, B309, B310, B320A, B320B, B321, B322, B323, B323A, B300, B330C, B330D, B330F, B334, B338, B386, B316, B317, B315, B329, B331, B332, B333, B335, B340, B650

PW-1, PW-2, PW-3, PW-4, PW-5, PW-5A, PW-6, PW-7, PW-23, PW-25, PW-32

Scale: 0 200' 400'

Plate 11

Former IBM East Fishkill Facility

Isoconcentration Contour Map
Bedrock TCE
April-May 2017

DRAWN BY: MHM	DATE: 5/23/18	DRAWING NO.
CHECKED & APPROVED BY: CES		95007_TCE_2Q2017_BR_1

GROUNDWATER SCIENCES CORPORATION

LEGEND

- Former IBM East Fishkill Facility Property Line
- Former Structure
- ▼ - GMP Bedrock Monitoring Well
- ● - GMP Soil/Bedrock Monitoring Well
- ★ - Bedrock Extraction Well
- ☆ - Inactive Bedrock Extraction Well
- ☼ - Inactive Shallow Bedrock Extraction Well
- OU - Operable Unit
- CIS - cis-1,2-Dichloroethene
- 5 - CIS Concentration Contour (ug/l)
- 17 - CIS Concentration (ug/l; April 4-May 12, 2017)
- ND@"X" - Not Detected at Laboratory Detection Limit "X"

AREA A (OU5)
AREA B (OU3)
AREA C (LANDFILL) (OU5)
AREA D (OU4)
B/322 (OU7)
B/330 (OU8)
SOUTHEAST QUADRANT (OU9)
FORMER WEST COMPLEX
FORMER IBM RECREATION CENTER
JOHN JAY HIGH SCHOOL
INTERSTATE 84
ROUTE 52
NORTH DRIVE
WEST DRIVE
EAST DRIVE
SOUTH DRIVE
SERVICE ROAD
ADMINISTRATION COURT
FACILITY DRIVE
CENTER STREET
DEVELOPMENT DRIVE
OLD ROUTE 52
LAKE KELLY ROAD
B303
B304
B308
B309
B310
B320A
B320B
B321
B322
B323
B323A
B324
B325
B330C
B330D
B330F
B334
B335
B336
B338
B386
B316
B317
B315
B300
PW-1
PW-2
PW-3
PW-4
PW-5A
PW-5
PW-6
PW-7
PW-23
PW-25

Plate 12

Former IBM East Fishkill Facility

Isoconcentration Contour Map
Bedrock CIS
April-May 2017

DRAWN BY: MHM	DATE: 5/23/18	DRAWING NO.
CHECKED & APPROVED BY: CES		95007_cis12DCE_2Q2017_BR_1

GROUNDWATER SCIENCES CORPORATION

Scale
0 200' 400'

LEGEND

- Former IBM East Fishkill Facility Property Line
- Former Structure
- GMP Bedrock Monitoring Well
- GMP Soil/Bedrock Monitoring Well
- Bedrock Extraction Well
- Inactive Bedrock Extraction Well
- Inactive Shallow Bedrock Extraction Well
- OU - Operable Unit
- VC - Vinyl Chloride
- 2 - VC Concentration Contour (ug/l)
- 170 - VC Concentration (ug/l; April 4-May 12, 2017)
- ND@"X" - Not Detected at Laboratory Detection Limit "X"

AREA A (OU5)
AREA B (OU3)
AREA C (LANDFILL) (OU6)
AREA D (OU4)
B/322 (OU7)
B/330 (OU8)
SOUTHEAST QUADRANT (OU9)
FORMER WEST COMPLEX
FORMER IBM RECREATION CENTER
JOHN JAY HIGH SCHOOL
INTERSTATE 84
ROUTE 52
NORTH DRIVE
WEST DRIVE
EAST DRIVE
SOUTH DRIVE
SERVICE ROAD
ADMINISTRATION COURT
FACILITY DRIVE
CENTER STREET
DELAWARE DRIVE
SOUTHERN DRIVE
VAN WYCK EXPRESSWAY
LMC ROAD
B303, B304, B308, B309, B310, B320A, B320B, B321, B322, B323, B323A, B324, B300, B316, B315, B317, B386, B330C, B330D, B330F, B335, B338, B339, B340, B650, B630, B690, Former B650, R384, R385, R389, R390, R391, R392, R393, R394, R395, R396, R397, R398, R399, R400, R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428,

LEGEND

- Former IBM East Fishkill Facility Property Line
- Former Structure
- GMP Bedrock Monitoring Well
- GMP Soil/Bedrock Monitoring Well
- Bedrock Extraction Well
- Inactive Bedrock Extraction Well
- Inactive Shallow Bedrock Extraction Well
- OU - Operable Unit
- 5 - Freon® TF Concentration Contour (ug/l)
- 57 - Freon® TF Concentration (ug/l;April 4-May 12, 2017)
- ND@"X" - Not Detected at Laboratory Detection Limit "X"

AREA A (OU5)
AREA B (OU3)
AREA C (LANDFILL) (OU9)
AREA D (OU4)
B/322 (OU7)
B/330 (OU8)
SOUTHEAST QUADRANT (OU9)
FORMER WEST COMPLEX
FORMER IBM RECREATION CENTER
JOHN JAY HIGH SCHOOL
INTERSTATE 84
ROUTE 52
NORTH DRIVE
WEST DRIVE
EAST DRIVE
SOUTH DRIVE
SERVICE ROAD
CENTER STREET
CONCENTRATION COURT
DESIGNATION DRIVE
ORGANIZATION DRIVE
FALCON DRIVE
HAWK DRIVE
DUTCH DRIVE
LAKE KEL ROAD
B303, B304, B308, B309, B310, B320A, B320B, B321, B322, B323, B323A, B300, B316, B317, B334, B335, B338, B330C, B330D, B330F, B386, B315

Plate 14

Former IBM East Fishkill Facility

Isoconcentration Contour Map
Bedrock Freon® TF
April-May 2017

DRAWN BY: MHM	DATE: 5/24/18	DRAWING NO.
CHECKED & APPROVED BY: CES		95007_FTF_2Q2017_BR_2

GROUNDWATER SCIENCES CORPORATION

Scale 0 200' 400'

Appendix A

Well Specifications and Lists

Table A-1: Hydraulic Effectiveness Monitoring Wells
Table A-2: Well Specifications for the Corrective Action Performance Monitoring Network
Table A-3: Sampling Schedule for the Corrective Action Performance Monitoring Network

Table A-1
Hydraulic Effectiveness Monitoring Wells

Well	M.P. Elev. (ft amsl)	Coordinates	
		Northing	Easting
002	275.39	8518.014	4537.868
003	275.32	8515.747	4538.284
005	255.16	7772.055	6134.484
006	254.38	7764.886	6126.095
007	257.35	7592.128	5547.170
008	265.29	8072.229	5042.508
009	265.35	8067.344	5043.589
010	270.76	8076.990	4661.237
011	266.47	7831.768	4697.559
013	263.26	7630.268	4904.651
014	262.60	7626.342	4906.258
015	262.86	7622.508	4907.920
016	254.91	7140.621	5083.247
017	254.31	7133.611	5089.249
018	257.78	7150.694	4924.310
019	257.70	7155.420	4922.857
020	250.88	6920.006	5024.650
022	250.88	6916.125	5015.190
027	260.24	7204.062	3450.750
028	259.22	7244.167	3358.706
030	232.87	7531.247	2282.942
032B	233.09	6701.970	2690.670
035	249.53	6773.709	3152.987
038	250.61	6320.836	4765.408
039	249.87	6322.183	4769.064
044	267.36	6897.844	5984.595
046	267.59	6649.354	6428.358
048	264.31	5756.458	6897.932
049	266.41	5256.598	6835.595
050	264.51	5251.734	6838.602
053	266.58	4965.757	6073.504
054	264.57	4696.491	5978.780
059	235.94	4833.049	3997.592
060	235.68	4828.527	4000.564
061	244.66	4136.068	4504.733
062	250.13	4322.084	5469.567
063	250.25	4320.995	5467.872
064	259.23	7040.533	6596.366
065	258.76	7055.103	6595.751
066	229.84	6987.994	2265.582
067	234.42	6463.455	2607.405
068	233.85	6253.894	2982.574

Table A-1
Hydraulic Effectiveness Monitoring Wells

Well	M.P. Elev. (ft amsl)	Coordinates	
		Northing	Easting
069	253.69	4482.364	6084.653
075	259.51	7366.983	3317.645
085	276.34	9058.705	5844.268
086	276.34	9058.705	5844.268
087	256.00	7832.757	6082.700
088	256.00	7832.757	6082.700
091	264.37	4806.212	7610.031
092	264.37	4806.212	7610.031
096	275.48	8066.420	5550.380
097	277.69	8070.910	5548.480
098	277.69	8070.910	5548.480
100	267.09	8383.665	4803.894
101	267.09	8384.262	4808.809
102	267.09	8384.262	4808.809
103	257.59	7422.942	5337.874
104	257.59	7422.942	5337.874
105	257.74	7426.962	5342.224
106	257.74	7426.962	5342.224
108	255.45	6742.206	5806.444
109	255.45	6742.206	5806.444
112	269.38	4285.998	7014.122
113	269.01	4227.305	7004.293
114	269.01	4227.305	7004.293
118	263.06	7579.473	4816.285
121	263.18	8015.845	3544.898
122	263.18	8015.845	3544.898
129	252.37	6282.508	4651.089
130	252.37	6282.508	4651.089
143	251.08	4709.770	4756.370
145	253.90	4301.093	5498.184
146	253.90	4301.093	5498.184
147	234.55	7663.575	2397.319
150	234.78	7659.624	2386.796
151	241.06	6279.506	3076.270
156	242.58	5003.112	3793.197
157	243.09	5009.063	3786.807
158	245.05	4084.387	4549.216
161	259.63	7206.137	3378.741
164	273.99	6299.089	7593.114
165	273.99	6299.089	7593.114
166	254.58	7422.875	6512.986
167	254.58	7422.875	6512.986

Table A-1
Hydraulic Effectiveness Monitoring Wells

Well	M.P. Elev. (ft amsl)	Coordinates	
		Northing	Easting
168	265.12	6794.614	6318.692
169	265.12	6794.614	6318.692
170	229.55	6965.743	2292.464
178	267.22	5685.196	5758.662
180	248.31	5035.183	5203.440
181	248.88	4988.890	5242.059
182	236.11	5859.220	2687.226
183	236.11	5859.220	2687.226
185	237.04	6481.471	2316.242
186	237.04	6481.471	2316.242
191	229.18	7123.366	1981.277
192	229.18	7123.366	1981.277
200	266.77	7694.652	4014.447
204	252.79	6694.859	4521.394
224	256.86	6741.816	3477.018
226	233.54	6151.658	3101.790
227	233.08	6144.019	3108.542
400	241.81	6939.843	1437.518
401	242.22	6935.937	1437.490
402	248.66	6315.556	1611.175
403	249.39	5909.759	1848.452
404	248.45	5905.340	1856.890
405	258.01	4341.985	3409.956
407	345.71	3941.830	1834.730
415	265.73	5224.890	461.160
416	252.61	5985.020	129.180
418	253.40	5938.351	149.519
500	259.89	7545.320	6326.260
501	257.76	7580.570	6317.010
502	259.26	6219.330	7079.510
503	259.88	6183.280	7102.810
504	259.88	6087.120	7153.830
505	259.90	6087.120	7153.830
506	263.85	6010.120	7146.450
507	262.80	6014.130	7163.870
508	262.80	6014.130	7163.870
509	265.32	5912.440	7234.330
510	263.31	5808.400	7224.900
511	263.70	5812.890	7254.280
512	260.94	5734.740	7337.260
513	261.91	5717.960	7357.420
514	261.45	5488.000	7183.300

Table A-1
Hydraulic Effectiveness Monitoring Wells

Well	M.P. Elev. (ft amsl)	Coordinates	
		Northing	Easting
515	260.81	5486.400	7170.800
516	262.73	5428.830	7424.550
517	262.58	5445.700	7419.710
518	262.58	5445.700	7419.710
519	264.51	5182.090	7626.300
520	262.28	6648.150	6936.870
521	262.24	6688.820	6912.930
522	262.45	6713.370	6899.050
523	273.28	6108.470	8049.880
524	272.91	6095.860	7992.490
525	273.08	6106.720	8040.160
526	271.25	4797.560	7658.790
527	270.38	4770.130	7620.990
528	270.54	4773.360	7625.630
529	270.54	4773.360	7625.630
530	265.25	4538.130	7213.110
531	266.10	4549.280	7245.530
532	266.10	4549.280	7245.530
533	266.56	4566.230	7019.720
534	266.25	4548.820	7051.260
535	266.34	4555.640	7037.660
536	269.12	5346.300	6788.300
537	268.97	5324.500	6780.240
538	268.97	5324.500	6780.240
539	270.44	5478.760	6773.550
541	279.98	5711.500	6793.650
542	279.98	5711.500	6793.650
543	263.07	5956.040	6877.880
544	265.72	5988.650	6843.350
545	264.96	6143.040	6928.740
546	266.92	6098.760	6897.090
547	266.11	6140.200	6908.280
548	261.84	5796.160	6945.380
549	262.09	5833.700	6918.700
550	262.09	5833.700	6918.700
551	267.54	5648.190	6900.200
553	267.42	5510.740	6953.610
554	267.31	5525.200	6942.580
556	266.76	5382.290	6916.300
557	268.22	5304.090	6831.390
558	284.02	5270.310	6223.150
559	282.75	5251.530	6221.420

Table A-1
Hydraulic Effectiveness Monitoring Wells

Well	M.P. Elev. (ft amsl)	Coordinates	
		Northing	Easting
560	282.73	5251.530	6221.420
561	296.33	5445.380	6239.200
562	285.63	5584.350	6294.510
563	285.63	5584.350	6294.510
564	289.59	5835.500	6318.800
565	285.69	6081.080	6428.040
566	285.69	6081.080	6428.040
567	266.64	6656.400	6502.600
568	279.50	6487.650	6526.560
569	279.99	6491.880	6539.820
570	279.99	6491.880	6539.820
571	286.39	6274.080	6265.500
572	251.13	4806.400	5115.400
574	269.09	5547.400	5776.000
576	265.95	5657.000	5807.900
577	230.42	7043.390	2387.000
578	272.35	8432.860	4112.480
579	247.54	6219.930	3828.970
580	258.99	6538.850	4344.560
581	267.23	8381.000	4797.100
600	265.91	5838.318	5989.885
601	266.08	5833.022	5988.055
602	253.38	4841.290	5230.675
603	252.54	4493.647	5141.553
604	252.66	4497.252	5144.622
605	253.01	4931.463	4777.329
606	253.27	6115.035	5326.621
607	253.77	5020.203	5360.277
608	255.51	5688.197	5270.023
609	249.18	6188.755	5261.662
610	250.87	5562.575	4953.575
611	244.23	5432.960	4432.190
612	249.89	6407.200	3337.800
613	249.02	6445.900	3265.700
614	230.29	6719.000	2684.000
615	230.82	6710.600	2688.600
616	231.14	6692.800	2698.500
617	248.91	6410.800	3250.200
618	239.17	6276.600	3011.900
619	267.00	6635.600	6432.000
620	259.27	7232.300	3381.700
621	255.80	6776.700	4356.100

Table A-1
Hydraulic Effectiveness Monitoring Wells

Well	M.P. Elev. (ft amsl)	Coordinates	
		Northing	Easting
622	268.08	5752.000	5510.200
623	246.74	5719.497	4864.655
624	246.31	5592.540	4175.380
626	304.58	5357.900	7953.800
627	262.88	6925.360	4251.830
640	253.22	4792.669	4837.987
700	248.79	7121.200	5605.400
701	248.83	7124.900	5603.600
702	255.09	7252.100	5584.800
703	254.89	7255.900	5582.500
704	255.00	7239.500	5591.700
705	259.94	7651.700	5262.600
706	259.92	7649.400	5260.000
707	260.94	7722.600	5252.000
708	260.83	7727.700	5249.900
709	263.98	8017.500	5015.800
710	263.93	7996.700	5047.200
711	263.69	8023.400	5014.200
712	265.48	8180.400	4989.600
714	266.26	8063.100	4772.200
716	272.14	7964.440	4457.970
717	277.47	8063.080	5531.360
718	278.69	8048.650	5496.710
719	279.03	8076.750	5467.890
720	275.43	8012.780	5463.900
721	259.92	8290.600	5327.000
722	260.15	8294.500	5330.900
723	269.98	8653.200	5304.700
724	269.70	8649.400	5298.500
725	263.25	8775.600	5647.800
726	262.93	8769.300	5650.200
727	263.49	8779.800	5645.200
728	259.64	8454.300	5785.900
729	260.29	8480.800	5776.200
730	259.41	8448.000	5788.100
732	265.17	7294.800	4520.600
734	261.79	7004.400	4656.100
735	261.06	6828.700	4210.900
737	261.20	6824.500	4211.700
739	261.35	7240.400	3863.800
740	260.62	6685.900	3852.800
742	260.46	6687.600	3858.300

Table A-1
Hydraulic Effectiveness Monitoring Wells

Well	M.P. Elev. (ft amsl)	Coordinates	
		Northing	Easting
743	261.06	7234.500	3862.800
744	254.46	7887.200	5717.200
745	254.47	7890.300	5716.300
746	254.05	7731.800	5780.900
747	263.77	8480.700	5057.300
748	267.95	8152.000	4774.100
749	263.16	8484.600	5544.700
750	257.15	8325.200	5779.300
751	254.24	6760.000	4728.100
752	260.87	6913.000	4791.600
753	248.38	6755.800	5125.000
754	249.19	6587.200	3187.000
755	238.91	6392.400	3029.900
756	252.61	5000.100	5501.900
757	234.36	6678.800	2706.900
758	260.71	7896.780	5188.710
759	261.20	7893.170	5179.772
760	261.07	7897.478	4995.327
761	264.13	8271.640	5101.240
763	268.68	8252.690	4640.574
766	258.99	6501.571	3979.481
767	252.26	6363.480	3913.980
768	253.31	6506.100	3763.540
769	256.86	6569.128	3624.668
770	252.45	6469.710	3671.010
771	252.32	6466.790	3664.890
772	241.83	6208.100	3561.150
773	248.26	6417.860	3323.160
774	244.92	6089.045	3305.752
775	244.65	5886.936	3333.238
776	272.19	8431.465	4148.300
777	276.03	8555.239	4540.041
779	263.34	8113.332	3177.082
782	241.89	6868.581	2812.497
783	242.98	4995.956	3803.820
789	242.66	5542.741	3561.687
791	243.35	5736.641	3395.917
792	243.01	5913.540	3607.460
793	248.89	6174.694	3830.274
799	242.83	4995.150	3809.957
816	263.53	7821.917	4858.527
818	263.58	7728.867	4846.227

Table A-1
Hydraulic Effectiveness Monitoring Wells

Well	M.P. Elev. (ft amsl)	Coordinates	
		Northing	Easting
819	266.09	7683.873	4739.418
820	263.17	7587.709	4815.166
821	259.25	7595.669	4883.064
822	259.69	7611.786	4925.902
823	262.89	7546.746	5030.185
824	263.17	7533.202	4998.828
826	266.23	7787.289	4717.390
827	266.28	7838.292	4706.758
830	268.16	6631.393	6507.576
831	268.16	6631.393	6507.576
832	281.62	6446.260	6390.277
833	281.62	6446.260	6390.277
835	287.32	5732.456	6298.291
836	287.32	5732.456	6298.291
837	286.45	5650.743	6266.199
838	268.43	5053.607	6148.528
839	235.12	6671.416	2869.429
855	274.71	5839.970	8554.478
856	274.25	5824.081	8548.398
857	262.41	6655.420	6927.500
858	260.85	6639.380	6938.800
859	262.80	7312.421	7300.249
860	262.83	7298.574	7298.820
861	267.06	7826.369	7016.729
862	266.13	7816.150	7025.670
863	266.77	6658.536	6436.742
864	263.22	7793.411	4822.753
895	262.21	5420.504	7427.220
896	262.04	5414.132	7431.928
897	270.06	4934.338	6682.141
898	270.12	4928.359	6679.239
899	303.02	5649.460	6555.720
900	302.69	5658.950	6554.370
902	259.14	6196.074	7092.091
903	258.99	6231.299	7073.207
910	271.16	8404.686	5263.731
921	262.48	5383.703	5909.176
922	262.71	5370.449	5919.909
923	262.76	5366.539	5900.128
924	262.83	5382.716	5890.598
928	252.16	4924.716	5240.517
929	252.16	4924.716	5240.517

Table A-1
Hydraulic Effectiveness Monitoring Wells

Well	M.P. Elev. (ft amsl)	Coordinates	
		Northing	Easting
930	251.84	4664.774	5357.051
931	252.10	4697.190	5340.540
932	267.11	4950.680	6078.512
934	250.21	6719.264	4854.781
935	254.14	4921.320	5488.640
936	254.14	4921.320	5488.640
941	254.52	5331.321	5137.291
943	254.23	4481.165	6103.694
944	254.11	4488.497	6097.271
946	249.87	6172.939	3845.249
947	249.44	6176.877	3837.508
948	249.98	6170.128	3845.793
949	248.46	6194.257	3939.047
952	245.34	5869.760	3631.250
953	251.77	5090.590	4671.000
954	268.20	5627.761	5859.991
955	268.20	5631.698	5865.731
956	268.23	5636.339	5872.566
957	268.28	5640.382	5878.574
958	266.66	4786.231	7605.657
959	251.45	5923.400	4432.322
960	251.40	5938.559	4428.870
962	271.82	8425.917	4187.017
963	264.55	6001.330	7144.318
964	264.55	6001.330	7144.318
965	255.40	6056.588	5582.108
966	255.28	6064.807	5592.027
968	271.29	5257.910	5484.861
976	234.73	7274.448	2489.640
980	260.46	7292.800	5019.300
983	305.52	5459.845	6315.578
984	305.45	5459.845	6315.578
985	304.86	5466.675	6322.653
986	304.70	5466.675	6322.653
987	260.20	6384.320	6988.373
988	260.56	6379.532	6995.451
989	260.57	6379.532	6995.451
990	260.08	6361.989	6999.717
991	260.10	6355.954	7002.989
992	260.12	6355.954	7002.989
993	264.50	7465.500	4029.200
994	264.32	7274.400	4052.900

Table A-1
Hydraulic Effectiveness Monitoring Wells

Well	M.P. Elev. (ft amsl)	Coordinates	
		Northing	Easting
997	257.11	7710.200	5463.800
998	258.02	7789.600	5428.600
999	257.25	7794.100	5426.400

Key:

M.P. = Measuring Point

ft amsl = feet above mean sea level

All coordinates in feet relative to site grid

Table A-2: Well Specifications
Corrective Action Performance Monitoring Network

Well Number	Current M.P. Elevation (ft amsl)	Baseline Depth to Bottom (ft below M.P.)	Baseline Elevation of Bottom (ft amsl)	Well Diameter (inches)	Screen Length (feet)	Completion Date	Area of Concern/ OU	Upgradient (U), Downgradient (D), Sidegradient (S), or Source
007	257.35	48.1	209.3	2.00	10.0	11/07/1979	Area A (OU5)	NA
010	270.76	53.8	217.0	2.00	15.0	04/16/1979	Area A (OU5)	Source
015	262.86	28.3	234.6	2.00	20.0	04/05/1979	Area A (OU5)	Source
016	254.91	51.1	203.8	4.00	10.0	10/03/1979	Area A (OU5)	D
032B	233.09	22.2	210.9	4.00	5.0	06/14/2011	Area D (OU4)	Source
046	267.59	19.2	248.4	4.00	10.0	11/07/1979	Area B (OU3)	Source
048	264.31	15.7	248.6	4.00	5.0	11/01/1979	SEQ (OU9)	Source
053	266.58	38.7	227.9	2.00	15.0	03/02/1979	Area C (OU6)	D
054	264.57	28.5	236.1	4.00	10.0	11/06/1979	Area C (OU6)	D
059	235.94	17.4	218.5	4.00	10.0	11/01/1979	B/330 (OU8)	U/S
060	235.68	46.4	189.3	4.00	10.0	11/01/1979	B/330 (OU8)	U/S
061	244.66	29.4	215.3	4.00	20.0	03/29/1979	B/330 (OU8)	U/S
064	259.23	18.2	241.0	4.00	10.0	03/10/1980	Area B (OU3)	D
065	258.76	43.5	215.3	4.00	10.0	03/18/1980	Area B (OU3)	D
066	229.84	11.0	218.8	4.00	5.0	03/11/1980	Area D (OU4)	U
067	234.42	14.7	219.7	2.00	10.0	03/11/1980	Area D (OU4)	U
068	233.85	23.1	210.8	4.00	15.0	03/19/1980	B/322 (OU7)	D
069	253.69	15.5	238.2	4.00	5.0	03/24/1980	Area C (OU6)	S
085	276.34	123.0	153.3	2.00	3.0	12/10/1980	BR (OU2)	NA
087	256.00	109.7	146.3	2.00	5.0	12/02/1980	BR (OU2)	NA
103	257.59	14.6	243.0	2.00	1.0	11/21/1980	Area A (OU5)	D
104	257.59	32.2	225.4	2.00	1.0	11/21/1980	Area A (OU5)	D
105	257.74	105.4	152.3	2.00	3.0	12/01/1980	BR (OU2)	NA
106	257.74	150.2	107.5	2.00	5.0	12/01/1980	BR (OU2)	NA
109	255.45	162.6	92.9	2.00	3.0	12/04/1980	BR (OU2)	NA
113	269.01	110.6	158.4	2.00	5.0	01/14/1981	BR (OU2)	NA
118	263.06	153.5	109.6	2.00	5.0	12/20/1980	Area A (OU5)	Source
143	251.08	145.9	105.2	2.00	3.0	12/09/1980	B/330+BR	U
146	253.90	147.7	106.2	2.00	5.0	01/20/1981	B/330+BR	U
151	241.06	18.4	222.7	2.00	1.0	11/17/1980	B/322 (OU7)	D
156	242.58	86.8	155.8	2.00	3.0	12/05/1980	BR (OU2)	NA
167	254.58	148.1	106.5	2.00	3.0	04/21/1981	BR (OU2)	NA
178	267.22	26.2	241.0	2.00	5.0	04/22/1981	B/330 (OU8)	D
181	248.88	18.1	230.8	4.00	5.0	04/26/1981	B/330 (OU8)	Source
204	252.79	12.9	239.9	2.00	10.0	06/14/1991	Area A (OU5)	U(B/322), D(AA)
502	259.26	35.9	223.4	2.00	10.0	12/23/1986	SEQ (OU9)	D
520	262.28	24.8	237.5	2.00	10.0	12/11/1986	SEQ (OU9)	D
521	262.24	34.9	227.3	2.00	5.0	03/17/1987	BR (OU2)	D
545	264.96	29.8	235.2	2.00	20.5	01/17/1987	SEQ (OU9)	D
559	282.75	83.5	199.3	2.00	10.0	05/05/1987	Area C (OU6)	Source
561	296.33	38.3	258.0	2.00	4.0	04/22/1987	Area C (OU6)	Source
563	285.63	130.0	155.6	2.00	15.0	04/28/1987	Area C+BR	U
564	289.59	94.5	195.1	2.00	5.0	04/21/1987	BR (OU2)	NA
571	286.39	15.0	271.4	2.00	4.0	03/17/1987	Area B (OU3)	U
572	251.13	16.6	234.5	2.00	5.0	04/13/1989	B/330 (OU8)	Source
574	269.09	32.6	236.5	2.00	5.0	10/19/1989	B/330 (OU8)	Source
576	265.95	19.9	246.1	2.00	5.0	12/17/1991	B/330 (OU8)	Source
577	230.42	223.3	7.1	2.00	20.0	12/22/1994	BR (OU2)	NA
579	247.54	254.2	-6.7	2.00	20.0	04/06/1995	B/322+BR	NA
580	258.99	19.2	239.8	2.00	10.0	03/31/1995	B/322 (OU7)	U

Table A-2: Well Specifications
Corrective Action Performance Monitoring Network

Well Number	Current M.P. Elevation (ft amsl)	Baseline Depth to Bottom (ft below M.P.)	Baseline Elevation of Bottom (ft amsl)	Well Diameter (inches)	Screen Length (feet)	Completion Date	Area of Concern/ OU	Upgradient (U), Downgradient (D), Sidegradient (S), or Source
581	267.23	28.9	238.3	2.00	5.0	06/20/1996	Area A (OU5)	U
600	265.91	19.9	246.0	2.00	10.0	11/01/1996	B/330 (OU8)	U/S
601	266.08	137.7	128.4	2.00	5.0	10/16/1996	B/330 (OU8)	S
602	253.38	22.5	230.9	2.00	10.0	10/30/1996	B/330 (OU8)	S
603	252.54	26.0	226.5	2.00	10.0	10/31/1996	B/330 (OU8)	U
604	252.66	139.4	113.3	2.00	10.0	10/18/1996	B/330 (OU8)	U
607	253.77	118.9	134.9	2.00	20.0	12/06/1996	B/330+BR	Source
609	249.18	235.3	13.9	2.00	10.0	12/13/1996	B/330+BR	D
610	250.87	180.6	70.3	2.00	20.0	12/20/1996	B/330+BR	D/S
611	244.23	216.6	27.6	2.00	20.0	01/30/1997	B/330+BR	D/S
612	249.89	33.4	216.5	4.00	15.2	12/02/1997	B/322 (OU7)	D
613	249.02	33.6	215.4	4.00	15.2	12/03/1997	B/322 (OU7)	D
617	248.91	40.4	208.5	4.00	15.0	08/12/1998	B/322 (OU7)	D
618	239.17	32.5	206.7	4.00	15.0	08/11/1998	B/322 (OU7)	D
622	268.08	218.3	49.8	2.00	20.1	02/10/1999	B/330+BR	D
623	246.74	338.7	-92.0	2.00	15.0	02/26/1999	B/330+BR	D
624	246.31	364.0	-117.7	2.00	10.0	03/12/1999	B/330+BR	D
627	262.88	18.7	244.2	2.00	10.0	04/17/2000	B/322 (OU7)	U(B/322), D(AA)
628	267.42	64.2	203.2	4.00	40.0	04/12/2001	Area B (OU3)	Source
640	253.22	20.2	233.0	2.00	10.0	12/08/2009	B/330 (OU8)	D
701	248.83	20.0	228.8	2.00	5.0	12/04/1986	Area A (OU5)	D
702	255.09	17.7	237.4	2.00	5.0	12/05/1986	Area A (OU5)	D
706	259.92	45.4	214.5	2.00	10.0	11/22/1986	Area A (OU5)	D
711	263.69	349.3	-85.6	6.00	OPEN HOLE	10/15/1986	BR (OU2)	NA
714	266.26	37.4	228.9	2.00	10.0	11/28/1986	Area A (OU5)	Source
716	272.14	171.2	100.9	4.00	20.0	10/20/1986	BR (OU2)	NA
720	275.43	53.1	222.3	2.00	22.5	01/07/1987	Area A (OU5)	U
722	260.15	350.6	-90.5	6.00	OPEN HOLE	10/03/1986	BR (OU2)	NA
732	265.17	248.0	17.2	4.00	80.0	10/28/1986	Area A (OU5)	D
734	261.79	219.7	42.1	2.00	30.0	11/05/1986	Area A (OU5)	D
735	261.06	25.5	235.6	2.00	10.0	12/11/1986	B/322 (OU7)	Source
737	261.20	192.2	69.0	2.00	30.0	07/07/1987	B/322+BR	Source
739	261.35	214.4	47.0	4.00	40.0	10/26/1986	BR (OU2)	NA
740	260.62	25.3	235.3	2.00	10.0	12/06/1986	B/322 (OU7)	D
742	260.46	221.6	38.9	4.00	80.0	10/30/1986	B/322+BR	NA
743	261.06	19.5	241.6	2.00	10.0	05/09/1987	B/322 (OU7)	U/S
744	254.46	28.7	225.8	2.00	5.0	08/18/1987	Area A (OU5)	U
745	254.47	14.4	240.1	2.00	5.0	08/19/1987	Area A (OU5)	U
751	254.24	13.4	240.8	4.00	6.0	07/23/1987	Area A (OU5)	D
753	248.38	13.1	235.3	4.00	3.6	07/27/1987	Area A (OU5)	D
754	249.19	22.8	226.4	4.00	15.0	07/17/1987	B/322 (OU7)	D/S
755	238.91	23.2	215.7	4.00	16.0	07/17/1987	B/322 (OU7)	D/S
756	252.61	20.0	232.6	4.00	12.0	07/09/1987	B/330 (OU8)	D
757	234.36	20.3	214.1	2.00	10.0	09/25/1987	Area D (OU4)	Source
761	264.13	32.6	231.5	2.00	10.0	11/09/1990	Area A (OU5)	U
763	268.68	49.7	219.0	2.00	5.0	10/12/1990	Area A (OU5)	U
766	258.99	25.6	233.4	2.00	5.0	10/24/1990	B/322 (OU7)	Source
767	252.26	18.4	233.9	2.00	10.0	11/20/1990	B/322 (OU7)	Source
768	253.31	22.8	230.5	2.00	10.0	10/19/1990	B/322 (OU7)	D
769	256.86	26.9	230.0	2.00	10.0	10/22/1990	B/322 (OU7)	D

Table A-2: Well Specifications
Corrective Action Performance Monitoring Network

Well Number	Current M.P. Elevation (ft amsl)	Baseline Depth to Bottom (ft below M.P.)	Baseline Elevation of Bottom (ft amsl)	Well Diameter (inches)	Screen Length (feet)	Completion Date	Area of Concern/ OU	Upgradient (U), Downgradient (D), Sidegradient (S), or Source
771	252.32	18.7	233.6	2.00	5.0	10/18/1990	B/322 (OU7)	D
772	241.83	18.8	223.0	2.00	10.0	11/20/1990	B/322 (OU7)	D
773	248.26	28.9	219.4	2.00	10.0	11/19/1990	B/322 (OU7)	D
774	244.92	30.1	214.8	2.00	10.0	10/23/1990	B/322 (OU7)	D
775	244.65	30.4	214.3	2.00	10.0	11/16/1990	B/322 (OU7)	D
777	276.03	130.5	145.5	2.00	10.0	12/21/1990	BR (OU2)	NA
779	263.34	233.0	30.3	2.00	10.0	12/21/1990	BR (OU2)	NA
789	242.66	21.3	221.4	2.00	10.0	05/09/1991	B/322 (OU7)	D
791	243.35	22.5	220.9	2.00	10.0	05/02/1991	B/322 (OU7)	D
792	243.01	20.9	222.1	2.00	10.0	06/04/1991	B/322 (OU7)	D
793	248.89	29.5	219.4	2.00	10.0	06/11/1991	B/322 (OU7)	D
832	281.62	30.4	251.2	2.00	5.0	03/23/1982	Area B (OU3)	U
857	261.41	110.1	151.3	4.00	3.0	06/28/1982	BR (OU2)	NA
858	260.85	159.0	101.9	4.00	5.0	06/25/1982	BR (OU2)	NA
921	262.48	86.2	176.3	3.75	10.0	03/27/1984	B/330 (OU8)	D
922	262.71	116.6	146.1	3.75	10.0	04/24/1984	B/330 (OU8)	D
923	262.76	160.9	101.9	2.00	10.0	04/04/1984	B/330 (OU8)	D
929	252.16	152.9	99.3	2.00	10.0	06/14/1984	B/330 (OU8)	U
931	252.10	151.5	100.6	3.75	10.0	05/23/1984	B/330 (OU8)	S
932	267.11	172.8	94.3	4.00	20.0	05/24/1984	Area C+BR	D
941	254.52	134.1	120.4	4.00	20.0	12/08/1984	B/330 (OU8)	D
943	254.23	144.1	110.1	4.00	20.0	01/09/1985	Area C+BR	D
944	254.11	71.9	182.2	4.00	20.0	01/14/1985	Area C (OU6)	D
952	245.34	198.0	47.3	4.00	40.0	02/01/1985	B/322+BR	NA
953	251.77	153.1	98.7	4.00	10.0	02/07/1985	B/330+BR	D/S
954	268.20	172.5	95.7	4.00	20.0	02/12/1985	B/330 (OU8)	U
956	268.23	107.7	160.5	4.00	10.0	02/18/1985	B/330 (OU8)	U
958	266.66	106.4	160.3	4.00	20.0	02/20/1986	BR (OU2)	NA
959	251.45	157.4	94.1	4.00	10.0	02/21/1985	B/322+BR	Source
960	251.40	90.6	160.8	4.00	20.0	02/22/1985	B/322+BR	Source
963	264.55	165.4	99.2	2.00	20.0	03/01/1985	BR (OU2)	NA
964	264.55	95.3	169.3	2.00	10.0	03/01/1985	BR (OU2)	NA
965	255.40	144.8	110.6	4.00	10.0	03/05/1985	B/330+BR	U
966	255.28	126.3	129.0	4.00	35.0	03/06/1985	B/330+BR	U
987	260.20	44.8	215.4	6.00	10.0	08/04/1986	SEQ (OU9)	D
990	260.08	20.8	239.3	4.00	5.0	08/06/1986	SEQ (OU9)	D
998	258.02	21.8	236.2	2.00	5.0	07/27/1987	Area A (OU5)	D
999	257.25	52.9	204.4	2.00	10.0	07/23/1987	Area A (OU5)	D

Table A-2: Well Specifications
Corrective Action Performance Monitoring Network

Well Number	Current M.P. Elevation (ft amsl)	Baseline Depth to Bottom (ft below M.P.)	Baseline Elevation of Bottom (ft amsl)	Well Diameter (inches)	Screen Length (feet)	Completion Date	Area of Concern/ OU	Upgradient (U), Downgradient (D), Sidegradient (S), or Source
PW-1	262.24	541	-278.8	12.0	OPEN HOLE	1962	BR (OU2)	NA
PW-2	255.34	277.5	-22.2	12.0	OPEN HOLE	1963	BR (OU2)	NA
PW-4	248.73	265	-16.3	8.0	40.0	1968	BR (OU2)	NA
PW-5	241.88	542	-300.1	10.0	OPEN HOLE	1970	BR (OU2)	NA
PW-5A	242.01	522	-280.0	12.0	425.7	1984	BR (OU2)	NA
PW-6	244.19	439	-194.8	12.0	OPEN HOLE	1979	BR (OU2)	NA
PW-7	268.16	747	-478.8	12.0	OPEN HOLE	1979	B/330+BR	D
PW-9*	263.50	702	-438.5	14.0	OPEN HOLE	1981	BR (OU2)	NA
PW-23	267.03	48.0	219.0	6.00	OPEN HOLE	03/03/1987	SEQ (OU9)	Source
PW-25	250.53	432.3	-181.8	10.0	91.1	06/15/2000	B/330+BR	NA

Key:

Area A = Area A (OU5)
Area B = Area B (OU3)
Area C = Landfill (OU6)
Area D = Area D (OU4)
B/322 = Building 322 (OU7)
B/330 = Building 330 (OU8)
BR = Bedrock (OU2)
SEQ = Southeast Quadrant (OU9)
NA = Not applicable or not available
ft amsl = feet above mean sea level
M.P. = measuring point (generally a survey mark at top of inner monitoring pipe or casing)
* =PW5/5A, PW-6, PW-7, PW-9 and GW613 are sampled only when in use. GW613 is B/322 extraction system backup. PW5/5A, PW-6, PW-7, PW-9 pumped for water supply emergencies only.

Table A-3: Sampling Schedule
Corrective Action Performance Monitoring Network

Well	Area of Concern/OU	Inorganics[&]	VOC Frequency	Monitoring Category				
				CAM	PCT	CRM	POC	AM
007	Area A (OU5)	Cr	A					X
010	Area A (OU5)	Cr	S	X		X		
015	Area A (OU5)	Cr, TF	S	X				
016	Area A (OU5)		S	X		X		
032B	Area D (OU4)		M	X	X	X		
046	Area B (OU3)		S	X				
048	SEQ (OU9)		Q	X				
053	Area C (OU6)		S	X				
054	Area C (OU6)		S	X				
059	B/330 (OU8)		A					X
060	B/330 (OU8)		A					X
061	B/330 (OU8)		A					X
064	Area B (OU3)		Q	X			X	
065	Area B (OU3)		Q	X			X	
066	Area D (OU4)		Q	X			X	
067	Area D (OU4)		Q	X			X	
068	B/322 (OU7)	As	Q	X				
069	Area C (OU6)		A					X
085	BR (OU2)		S	X				
087	BR (OU2)		S	X				
103	Area A (OU5)		S	X		X		
104	Area A (OU5)	Cr	S	X		X		
105	BR (OU2)		S	X		X		
106	BR (OU2)		A					X
109	BR (OU2)		S	X				
113	BR (OU2)		S	X				
118	Area A (OU5)		A					X
143	B/330+BR		A					X
146	B/330+BR		A					X
151	B/322 (OU7)		S	X				
156	BR (OU2)		S	X				
167	BR (OU2)		S	X				
178	B/330 (OU8)		A					X
181	B/330 (OU8)		S	X				
204	Area A (OU5)	Cr	A					X
360/COMB	B/322 (OU7)		M		X	X		
502	SEQ (OU9)		A					X
520	SEQ (OU9)		S	X				
521	BR (OU2)		S	X				
545	SEQ (OU9)		S	X				
559	Area C (OU6)		S	X				
561	Area C (OU6)		S	X				
563	Area C+BR		S	X				
564	BR (OU2)		S	X				
571	Area B (OU3)		A					X

Table A-3: Sampling Schedule
Corrective Action Performance Monitoring Network

Well	Area of Concern/OU	Inorganics[&]	VOC Frequency	Monitoring Category				
				CAM	PCT	CRM	POC	AM
572	B/330 (OU8)		A					X
574	B/330 (OU8)		A					X
576	B/330 (OU8)		S	X				
577	BR (OU2)		S	X				
579	B/322+BR		A					X
580	B/322 (OU7)	Cr, TF	A					X
581	Area A (OU5)	Cr	A					X
600	B/330 (OU8)		A					X
601	B/330 (OU8)		S	X				
602	B/330 (OU8)		A					X
603	B/330 (OU8)		A					X
604	B/330 (OU8)		A					X
607	B/330+BR		S	X				
609	B/330+BR		S	X				
610	B/330+BR		S	X				
611	B/330+BR		A					X
612	B/322 (OU7)		M	X	X	X		
[#]613	B/322 (OU7)		M	X	X	X		
617	B/322 (OU7)		M	X	X	X		
618	B/322 (OU7)		M	X				
622	B/330+BR		S	X				
623	B/330+BR		S	X				
624	B/330+BR		S	X				
627	B/322 (OU7)	As, Ni, TF	A					X
628	Area B (OU3)		M	X	X	X		
628 GAC	Area B (OU3)		M		X	X		
640	B/330 (OU8)		S	X				
701	Area A (OU5)	Cr	A					X
702	Area A (OU5)		S	X				
706	Area A (OU5)	TF	S	X				
711	BR (OU2)		A					X
714	Area A (OU5)		S	X		X		
716	BR (OU2)		S	X		X		
720	Area A (OU5)		S	X				
722	BR (OU2)		A					X
732	Area A (OU5)		S	X				
734	Area A (OU5)		S	X				
735	B/322 (OU7)	As, TF	S	X				
737	B/322+BR		S	X				
739	BR (OU2)		A					X
740	B/322 (OU7)	Cr, TF	A	X				
742	B/322+BR		S	X				
743	B/322 (OU7)		A					X
744	Area A (OU5)		S	X				
745	Area A (OU5)		A					X

Table A-3: Sampling Schedule
Corrective Action Performance Monitoring Network

Well	Area of Concern/OU	Inorganics[&]	VOC Frequency	Monitoring Category				
				CAM	PCT	CRM	POC	AM
751	Area A (OU5)		A					X
753	Area A (OU5)		A					X
754	B/322 (OU7)	Cr	A					X
755	B/322 (OU7)		S	X				
756	B/330 (OU8)		A					X
757	Area D (OU4)		S	X				
761	Area A (OU5)	Cr	A					X
763	Area A (OU5)	Cr	A					X
766	B/322 (OU7)	As, Cr, Ni, TF	S	X				
767	B/322 (OU7)	As, Cr, TF	S	X				
768	B/322 (OU7)	As, Cr, Ni, TF	S	X				
769	B/322 (OU7)	As, Cr, Ni, TF	S	X				
771	B/322 (OU7)	Cr	A					X
772	B/322 (OU7)	As, Cr, Ni	S	X				
773	B/322 (OU7)	Cr	A					X
774	B/322 (OU7)	Cr	S	X				
775	B/322 (OU7)	Cr	A					X
777	BR (OU2)		S	X				
779	BR (OU2)		S	X				
789	B/322 (OU7)	Cr	A					X
791	B/322 (OU7)	Cr	A					X
792	B/322 (OU7)	As, Cr	A					X
793	B/322 (OU7)	As, Cr, Ni, TF	S	X				
832	Area B (OU3)		A					X
857	BR (OU2)		S	X				
858	BR (OU2)		S	X				
921	B/330 (OU8)		S	X				
922	B/330 (OU8)		S	X				
923	B/330 (OU8)		S	X				
929	B/330 (OU8)		S	X				
931	B/330 (OU8)		S	X				
932	Area C+BR		S	X				
941	B/330 (OU8)		S	X				
943	Area C+BR		S	X		X		
944	Area C (OU6)		S	X				
952	B/322+BR	As, Cr	S	X				
953	B/330+BR		S	X				
954	B/330 (OU8)		S	X				
956	B/330 (OU8)		S	X				
958	BR (OU2)		S	X				
959	B/322+BR	As	S	X				
960	B/322+BR	As	S	X				
963	BR (OU2)		S	X				
964	BR (OU2)		S	X				
965	B/330+BR		A					X

Table A-3: Sampling Schedule
Corrective Action Performance Monitoring Network

Well	Area of Concern/OU	Inorganics[&]	VOC Frequency	Monitoring Category				
				CAM	PCT	CRM	POC	AM
966	B/330+BR		S	X				
987	SEQ (OU9)		Q	X			X	
990	SEQ (OU9)		Q	X			X	
998	Area A (OU5)		S	X				
999	Area A (OU5)		S	X				
GACIN/316	BR (OU2)		M		X	X		
PW-1	BR (OU2)		M	X	X	X		
PW-2	BR (OU2)		M	X	X	X		
PW-4	BR (OU2)		M	X	X	X		
PW-5A*	BR (OU2)		M					
PW-6*	BR (OU2)		M					
PW-7*	B/330+BR		M					
PW-9*	BR (OU2)		M					
PW-23	SEQ (OU9)		M	X	X			
PW-25	B/330+BR		M	X	X	X		
SUMP/B384	Area A (OU5)	Cr, TF (Monthly)	M	X	X	X		

Key:

Area A = Area A (OU5)
Area B = Area B (OU3)
Area C = Landfill (OU6)
Area D = Area D (OU4)
B/322 = Building 322 (OU7)
B/330 = Building 330 (OU8)
BR = Bedrock (OU2)
SEQ = Southeast Quadrant (OU9)

A = Annual
S = Semiannual
Q = Quarterly
M = Monthly

CAM = Corrective Action Monitoring
PCT = Process Control for Treatment
CRM = Contaminant Reduction Monitoring
POC = Point of Compliance Monitoring
AM = Annual Monitoring

[&] Unfiltered and filtered metals, sampled annually unless noted. Total Fluoride (TF) will be unfiltered.

[#] Backup well, sampled only when in use.

*Sampled only when used for water supply emergency.

Appendix B

Quarterly Groundwater Elevation Data, 2017

IBM East Fishkill

Groundwater Elevation Data: January through December 2017

	First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
Well	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**
002	01/04/2017	245.36	04/24/2017	258.78	07/11/2017	253.48	10/09/2017	248.47
003	01/04/2017	245.12	04/24/2017	258.68	07/11/2017	253.44	10/09/2017	248.35
005	01/03/2017	248.78	04/24/2017	250.56	07/10/2017	248.44	10/09/2017	246.87
006	01/03/2017	248.49	04/24/2017	250.26	07/10/2017	248.10	10/09/2017	246.67
007	01/04/2017	248.23	04/24/2017	248.32	07/11/2017	247.97	10/09/2017	247.48
008	01/05/2017	245.25	04/24/2017	248.99	07/11/2017	246.78	10/09/2017	243.16
009	01/05/2017	244.73	04/24/2017	248.79	07/11/2017	246.44	10/09/2017	242.77
010	01/04/2017	226.48	04/24/2017	235.27	07/11/2017	233.13	10/09/2017	230.94
011	01/05/2017	255.01	04/24/2017	254.69	07/11/2017	254.15	10/09/2017	254.03
013	01/05/2017	219.73	04/25/2017	223.39	07/12/2017	226.54	10/11/2017	226.72
014	01/05/2017	205.38	04/25/2017	215.11	07/12/2017	221.08	10/11/2017	222.13
015	01/05/2017	245.12	04/25/2017	245.90	07/12/2017	245.58	10/11/2017	244.50
016	01/04/2017	221.71	04/25/2017	224.60	07/11/2017	226.47	10/11/2017	226.38
017	01/04/2017	245.61	04/25/2017	245.46	07/11/2017	245.31	10/11/2017	244.65
018	01/04/2017	192.62	04/25/2017	196.50	07/11/2017	200.93	10/11/2017	200.18
019	01/04/2017	245.43	04/25/2017	246.17	07/11/2017	245.77	10/11/2017	245.48
020	01/05/2017	224.82	04/25/2017	228.05	07/11/2017	229.28	10/11/2017	228.84
022	01/05/2017	242.35	04/25/2017	242.12	07/11/2017	241.76	10/11/2017	242.14
027	01/04/2017	175.59	04/24/2017	191.18	07/11/2017	203.12	10/09/2017	201.37
028	01/04/2017	169.34	04/24/2017	183.57	07/11/2017	194.58	10/09/2017	198.05
030	01/04/2017	227.75	04/24/2017	227.41	07/11/2017	225.01	10/10/2017	223.25
032B	01/04/2017	228.19	04/24/2017	228.51	07/11/2017	227.83	10/09/2017	226.47
035	01/04/2017	239.10	04/24/2017	242.40	07/11/2017	241.10	10/09/2017	239.60
038	01/04/2017	228.81	04/25/2017	228.81	07/11/2017	230.36	10/10/2017	228.83
039	01/04/2017	217.70	04/25/2017	221.43	07/11/2017	223.05	10/10/2017	220.45
044	01/04/2017	245.67	04/24/2017	245.65	07/11/2017	245.65	10/10/2017	245.62
046	01/04/2017	258.77	04/24/2017	261.90	07/11/2017	255.07	10/10/2017	250.00
048	01/03/2017	258.43	04/24/2017	258.61	07/10/2017	257.36	10/09/2017	256.63
049	01/03/2017	259.01	04/24/2017	259.97	07/10/2017	258.03	10/09/2017	257.13
050	01/03/2017	259.44	04/24/2017	260.36	07/10/2017	258.44	10/09/2017	257.51
053	01/04/2017	250.31	04/24/2017	253.45	07/11/2017	250.31	10/10/2017	246.72
054	01/03/2017	249.95	04/24/2017	252.47	07/10/2017	249.42	10/10/2017	246.99
059	01/03/2017	231.08	04/24/2017	231.13	07/11/2017	229.24	10/10/2017	227.52
060	01/03/2017	215.63	04/24/2017	220.08	07/11/2017	218.58	10/10/2017	212.98
061	01/03/2017	236.06	04/24/2017	236.20	07/11/2017	235.79	10/10/2017	234.32
062	01/04/2017	233.48	04/24/2017	239.70	07/11/2017	241.47	10/10/2017	237.04
063	01/04/2017	233.55	04/24/2017	236.73	07/11/2017	238.31	10/10/2017	232.52
064	01/09/2017	254.94	04/24/2017	255.50	07/10/2017	253.22	10/09/2017	250.61
065	01/09/2017	254.95	04/24/2017	255.51	07/10/2017	253.14	10/09/2017	250.59
066	01/04/2017	225.82	04/24/2017	225.31	07/11/2017	223.92	10/09/2017	223.10
067	01/04/2017	228.90	04/24/2017	228.45	07/11/2017	228.49	10/09/2017	227.41
068	01/04/2017	230.17	04/24/2017	230.36	07/11/2017	230.16	10/10/2017	229.17
069	01/03/2017	249.82	04/24/2017	250.87	07/10/2017	248.82	10/10/2017	246.01
075	01/04/2017	243.11	04/26/2017	244.53	07/11/2017	243.78	10/09/2017	242.93
085	01/09/2017	250.68	04/24/2017	254.44	07/10/2017	250.85	10/09/2017	247.44
086	01/09/2017	249.20	04/24/2017	253.00	07/10/2017	249.78	10/09/2017	246.51
087	01/03/2017	246.37	04/24/2017	247.90	07/10/2017	246.77	10/09/2017	245.35
088	01/03/2017	246.43	04/24/2017	248.13	07/10/2017	246.66	10/09/2017	245.45
091	01/03/2017	259.38	04/24/2017	259.97	07/10/2017	258.73	10/09/2017	257.68

Key:
FLOW: Flowing Water
NA: Not Accessible
All Elevations are in feet above mean sea level

IBM East Fishkill

Groundwater Elevation Data: January through December 2017

	First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
Well	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**
092	01/03/2017	259.41	04/24/2017	260.00	07/10/2017	258.75	10/09/2017	257.69
096	01/04/2017	247.46	04/24/2017	249.02	07/11/2017	247.57	10/09/2017	245.67
097	01/04/2017	244.48	04/24/2017	237.81	07/11/2017	247.08	10/09/2017	245.12
098	01/04/2017	246.42	04/24/2017	248.16	07/11/2017	246.85	10/09/2017	244.95
100	01/04/2017	247.15	04/25/2017	253.39	07/11/2017	249.38	10/09/2017	244.26
101	01/04/2017	246.38	04/25/2017	252.65	07/11/2017	248.87	10/09/2017	243.87
102	01/04/2017	245.04	04/25/2017	251.80	07/11/2017	250.95	10/09/2017	246.38
103	01/04/2017	248.91	04/25/2017	248.79	07/11/2017	248.42	10/11/2017	248.14
104	01/04/2017	229.84	04/25/2017	232.02	07/11/2017	233.09	10/11/2017	233.03
105	01/04/2017	225.10	04/25/2017	228.21	07/11/2017	230.48	10/11/2017	230.20
106	01/04/2017	215.98	04/25/2017	222.92	07/11/2017	225.48	10/11/2017	225.02
108	01/04/2017	229.80	04/24/2017	236.49	07/11/2017	236.04	10/10/2017	235.89
109	01/04/2017	225.25	04/24/2017	231.67	07/11/2017	232.10	10/10/2017	232.23
112	01/03/2017	265.68	04/24/2017	266.16	07/10/2017	264.18	10/09/2017	258.86
113	01/03/2017	FLOW	04/24/2017	FLOW	07/10/2017	FLOW	10/09/2017	263.41
114	01/03/2017	267.39	04/24/2017	FLOW	07/10/2017	267.18	10/09/2017	262.21
118	01/05/2017	174.99	04/25/2017	191.40	07/12/2017	204.74	10/11/2017	208.63
121	01/04/2017	204.34	04/24/2017	213.52	07/11/2017	216.06	10/09/2017	214.51
122	01/04/2017	192.65	04/24/2017	208.12	07/11/2017	205.44	10/09/2017	199.75
129	01/04/2017	217.03	04/25/2017	218.87	07/11/2017	220.17	10/10/2017	221.25
130	01/04/2017	214.57	04/25/2017	217.77	07/11/2017	218.93	10/10/2017	219.90
143	01/04/2017	148.79	04/24/2017	162.33	07/11/2017	174.93	10/10/2017	177.01
145	01/03/2017	185.70	04/24/2017	197.50	07/11/2017	202.80	10/10/2017	202.55
146	01/04/2017	184.00	04/24/2017	195.42	07/11/2017	201.20	10/10/2017	201.34
147	01/04/2017	229.98	04/24/2017	230.35	07/11/2017	228.43	10/10/2017	DRY
150	01/04/2017	186.00	04/24/2017	196.74	07/11/2017	200.27	10/10/2017	202.12
151	01/04/2017	230.45	04/24/2017	230.52	07/11/2017	230.48	10/10/2017	229.46
156	01/03/2017	213.03	04/24/2017	219.44	07/11/2017	219.22	10/10/2017	214.27
157	01/03/2017	184.29	04/24/2017	196.96	07/11/2017	204.87	10/10/2017	207.62
158	01/03/2017	235.59	04/24/2017	237.00	07/11/2017	232.00	10/10/2017	227.15
161	01/04/2017	243.32	04/24/2017	245.04	07/11/2017	244.17	10/09/2017	243.10
164	01/05/2017	258.69	04/24/2017	259.19	07/10/2017	256.65	10/09/2017	255.23
165	01/05/2017	258.66	04/24/2017	259.20	07/10/2017	256.69	10/09/2017	255.23
166	01/09/2017	249.97	04/24/2017	252.15	07/10/2017	249.47	10/09/2017	247.13
167	01/09/2017	249.67	04/24/2017	252.20	07/10/2017	249.93	10/09/2017	246.64
168	01/04/2017	233.92	04/24/2017	247.63	07/11/2017	245.07	10/10/2017	242.37
169	01/04/2017	232.92	04/24/2017	242.64	07/11/2017	238.64	10/10/2017	238.20
170	01/04/2017	223.28	04/24/2017	223.66	07/11/2017	222.33	10/09/2017	220.35
178	01/04/2017	241.16	04/24/2017	250.14	07/11/2017	246.54	10/10/2017	242.44
180	01/04/2017	243.61	04/24/2017	247.40	07/11/2017	247.30	10/10/2017	247.09
181	01/04/2017	246.33	04/24/2017	246.94	07/11/2017	246.49	10/10/2017	244.98
182	01/06/2017	230.08	04/24/2017	229.36	07/10/2017	228.78	10/10/2017	228.00
183	01/06/2017	230.00	04/24/2017	229.29	07/10/2017	228.70	10/10/2017	227.94
185	01/06/2017	229.36	04/24/2017	228.77	07/10/2017	220.42	10/10/2017	DRY
186	01/06/2017	227.49	04/24/2017	226.86	07/10/2017	220.19	10/10/2017	217.79
191	01/06/2017	199.30	04/24/2017	202.58	07/10/2017	203.62	10/10/2017	204.90
192	01/06/2017	203.02	04/24/2017	210.63	07/10/2017	213.65	10/10/2017	211.45
200	01/04/2017	248.64	04/24/2017	248.53	07/11/2017	245.77	10/09/2017	243.93
204	01/04/2017	244.26	04/25/2017	245.21	07/11/2017	243.53	10/11/2017	239.98

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IBM East Fishkill

Groundwater Elevation Data: January through December 2017

	First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
Well	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**
224	01/04/2017	238.05	04/24/2017	240.61	07/11/2017	239.49	10/09/2017	238.39
226	01/04/2017	229.88	04/24/2017	229.73	07/11/2017	229.68	10/10/2017	228.72
227	01/04/2017	193.59	04/24/2017	201.97	07/11/2017	210.08	10/10/2017	209.50
400	01/06/2017	233.13	04/25/2017	232.64	07/10/2017	231.43	10/10/2017	DRY
401	01/06/2017	231.13	04/25/2017	232.24	07/10/2017	228.97	10/10/2017	226.24
402	01/06/2017	200.90	04/25/2017	216.92	07/10/2017	225.68	10/10/2017	217.24
403	01/06/2017	241.53	04/25/2017	241.78	07/10/2017	238.62	10/10/2017	237.09
404	01/06/2017	174.73	04/25/2017	186.21	07/10/2017	189.83	10/10/2017	193.84
405	01/06/2017	202.75	04/25/2017	214.73	07/10/2017	218.47	10/10/2017	216.81
407	01/06/2017	259.43	04/25/2017	264.94	07/10/2017	263.31	10/10/2017	258.36
415	01/06/2017	246.07	04/24/2017	245.53	07/10/2017	244.67	10/10/2017	244.02
416	01/06/2017	245.83	04/24/2017	245.46	07/10/2017	243.70	10/10/2017	242.19
418	01/06/2017	235.14	04/24/2017	233.72	07/10/2017	230.84	10/10/2017	229.02
500	01/09/2017	248.53	04/24/2017	249.39	07/10/2017	248.45	10/09/2017	247.25
501	01/09/2017	249.06	04/24/2017	250.46	07/10/2017	249.07	10/09/2017	247.61
502	01/09/2017	257.86	04/24/2017	258.33	07/10/2017	256.98	10/09/2017	256.03
503	01/09/2017	258.41	04/24/2017	258.81	07/10/2017	257.63	10/09/2017	256.63
504	01/09/2017	258.67	04/24/2017	259.07	07/10/2017	257.65	10/09/2017	256.61
505	01/09/2017	258.73	04/24/2017	259.09	07/10/2017	257.67	10/09/2017	256.60
506	01/09/2017	258.28	04/24/2017	258.49	07/10/2017	257.86	10/09/2017	256.68
507	01/09/2017	258.69	04/24/2017	259.16	07/10/2017	257.73	10/09/2017	256.65
508	01/09/2017	258.73	04/24/2017	259.22	07/10/2017	257.72	10/09/2017	256.65
509	01/09/2017	258.82	04/24/2017	259.28	07/10/2017	257.80	10/09/2017	256.73
510	01/09/2017	258.75	04/24/2017	259.04	07/10/2017	257.79	10/09/2017	256.76
511	01/09/2017	258.69	04/24/2017	259.00	07/10/2017	257.60	10/09/2017	256.58
512	01/09/2017	259.19	04/24/2017	259.27	07/10/2017	258.13	10/09/2017	256.50
513	01/09/2017	259.57	04/24/2017	259.93	07/10/2017	258.51	10/09/2017	257.51
514	01/09/2017	258.81	04/24/2017	258.89	07/10/2017	258.42	10/09/2017	257.89
515	01/09/2017	258.80	04/24/2017	259.36	07/10/2017	257.87	10/09/2017	256.82
516	01/09/2017	259.38	04/24/2017	259.80	07/10/2017	258.36	10/09/2017	257.30
517	01/09/2017	259.25	04/24/2017	259.60	07/10/2017	258.21	10/09/2017	257.25
518	01/09/2017	259.36	04/24/2017	259.91	07/10/2017	258.28	10/09/2017	257.21
519	01/09/2017	260.36	04/24/2017	260.94	07/10/2017	259.26	10/09/2017	257.96
520	01/09/2017	256.46	04/24/2017	256.78	07/10/2017	255.68	10/09/2017	255.23
521	01/09/2017	257.12	04/24/2017	258.46	07/10/2017	255.73	10/09/2017	254.84
522	01/09/2017	FLOW	04/24/2017	FLOW	07/10/2017	FLOW	10/09/2017	255.75
523	01/05/2017	265.16	04/24/2017	265.26	07/10/2017	262.92	10/09/2017	261.14
524	01/05/2017	265.46	04/24/2017	265.44	07/10/2017	263.00	10/09/2017	261.17
525	01/05/2017	264.58	04/24/2017	264.83	07/10/2017	261.95	10/09/2017	259.86
526	01/03/2017	263.67	04/24/2017	262.33	07/10/2017	259.71	10/09/2017	258.05
527	01/03/2017	261.45	04/24/2017	263.11	07/10/2017	260.06	10/09/2017	258.02
528	01/03/2017	269.28	04/24/2017	FLOW	07/10/2017	FLOW	10/09/2017	270.14
529	01/03/2017	269.69	04/24/2017	FLOW	07/10/2017	FLOW	10/09/2017	269.20
530	01/03/2017	261.15	04/24/2017	261.96	07/10/2017	260.00	10/09/2017	257.45
531	01/03/2017	FLOW	04/24/2017	FLOW	07/10/2017	FLOW	10/09/2017	FLOW
532	01/03/2017	265.05	04/24/2017	FLOW	07/10/2017	FLOW	10/09/2017	265.10
533	01/03/2017	261.03	04/24/2017	261.44	07/10/2017	259.86	10/09/2017	257.09
534	01/03/2017	261.99	04/24/2017	262.74	07/10/2017	260.57	10/09/2017	260.57
535	01/03/2017	264.37	04/24/2017	FLOW	07/10/2017	FLOW	10/09/2017	265.77

Key:
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IBM East Fishkill

Groundwater Elevation Data: January through December 2017

	First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
Well	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**
536	01/03/2017	258.90	04/24/2017	259.99	07/10/2017	257.92	10/09/2017	256.99
537	01/03/2017	266.17	04/24/2017	FLOW	07/10/2017	268.14	10/09/2017	261.29
538	01/03/2017	255.85	04/24/2017	FLOW	07/10/2017	267.80	10/09/2017	260.16
539	01/03/2017	267.16	04/24/2017	FLOW	07/10/2017	FLOW	10/09/2017	267.69
541	01/03/2017	267.13	04/24/2017	273.71	07/10/2017	265.00	10/09/2017	256.08
542	01/03/2017	267.23	04/24/2017	274.00	07/10/2017	265.15	10/09/2017	256.07
543	01/03/2017	257.39	04/24/2017	258.48	07/10/2017	256.06	10/09/2017	255.27
544	01/03/2017	257.55	04/24/2017	258.97	07/10/2017	256.12	10/09/2017	255.27
545	01/03/2017	257.43	04/24/2017	258.23	07/10/2017	256.19	10/09/2017	255.41
546	01/03/2017	265.91	04/24/2017	FLOW	07/10/2017	260.52	10/09/2017	255.96
547	01/03/2017	261.91	04/24/2017	FLOW	07/10/2017	FLOW	10/09/2017	256.01
548	01/03/2017	258.49	04/24/2017	259.01	07/10/2017	257.62	10/09/2017	256.61
549	01/03/2017	257.85	04/24/2017	258.73	07/10/2017	256.62	10/09/2017	255.73
550	01/03/2017	257.99	04/24/2017	259.01	07/10/2017	256.65	10/09/2017	255.64
551	01/03/2017	258.40	04/24/2017	258.96	07/10/2017	257.50	10/09/2017	256.46
553	01/03/2017	258.50	04/24/2017	258.62	07/10/2017	258.04	10/09/2017	257.51
554	01/03/2017	258.93	04/24/2017	259.53	07/10/2017	258.08	10/09/2017	257.25
556	01/03/2017	258.91	04/24/2017	259.74	07/10/2017	257.99	10/09/2017	257.11
557	01/03/2017	258.92	04/24/2017	259.87	07/10/2017	257.94	10/09/2017	257.01
558	01/03/2017	255.99	04/24/2017	266.14	07/10/2017	257.57	10/09/2017	250.62
559	01/03/2017	251.37	04/24/2017	258.19	07/10/2017	252.50	10/09/2017	247.78
560	01/03/2017	249.51	04/24/2017	255.47	07/10/2017	250.88	10/09/2017	246.96
561	01/03/2017	263.65	04/24/2017	273.01	07/10/2017	265.87	10/09/2017	261.57
562	01/03/2017	259.04	04/24/2017	267.62	07/10/2017	259.13	10/09/2017	252.93
563	01/03/2017	247.36	04/24/2017	253.34	07/10/2017	248.68	10/09/2017	245.59
564	01/03/2017	254.03	04/24/2017	267.17	07/10/2017	259.52	10/09/2017	253.71
565	01/03/2017	260.89	04/24/2017	267.93	07/10/2017	260.11	10/09/2017	254.54
566	01/03/2017	253.99	04/24/2017	261.75	07/10/2017	254.69	10/09/2017	249.74
567	01/04/2017	258.88	04/24/2017	261.70	07/11/2017	254.89	10/10/2017	249.73
568	01/03/2017	259.66	04/24/2017	266.06	07/10/2017	256.80	10/09/2017	253.49
569	01/03/2017	264.41	04/24/2017	269.21	07/10/2017	260.54	10/09/2017	253.99
570	01/03/2017	238.68	04/24/2017	245.46	07/10/2017	241.71	10/09/2017	238.96
571	01/03/2017	DRY	04/24/2017	271.53	07/10/2017	DRY	10/09/2017	DRY
572	01/06/2017	240.02	04/26/2017	239.08	07/12/2017	240.22	10/11/2017	240.61
574	01/06/2017	237.91	04/25/2017	252.12	07/12/2017	247.36	10/11/2017	241.96
576	01/04/2017	249.90	04/24/2017	252.34	07/11/2017	250.57	10/10/2017	249.71
577	01/04/2017	170.20	04/24/2017	181.35	07/13/2017	190.00	10/09/2017	194.81
578	01/04/2017	185.45	04/24/2017	203.33	07/11/2017	211.46	10/09/2017	212.32
579	01/05/2017	174.58	04/25/2017	192.37	07/12/2017	201.97	10/10/2017	201.90
580	01/04/2017	242.76	04/25/2017	243.36	07/11/2017	242.69	10/11/2017	242.19
581	01/04/2017	248.05	04/24/2017	254.39	07/11/2017	250.16	10/09/2017	244.92
600	01/04/2017	246.31	04/24/2017	250.15	07/11/2017	247.74	10/10/2017	246.61
601	01/04/2017	223.18	04/24/2017	231.56	07/11/2017	230.38	10/10/2017	228.72
602	01/04/2017	248.38	04/24/2017	247.68	07/11/2017	248.11	10/10/2017	246.10
603	01/04/2017	244.74	04/24/2017	244.96	07/11/2017	242.53	10/10/2017	239.54
604	01/04/2017	171.89	04/24/2017	182.19	07/11/2017	190.79	10/10/2017	192.16
605	01/04/2017	147.65	04/24/2017	160.69	07/11/2017	173.78	10/10/2017	176.42
606	01/04/2017	128.94	04/25/2017	152.99	07/11/2017	175.69	10/10/2017	178.27
607	01/04/2017	165.21	04/24/2017	174.83	07/11/2017	184.37	10/10/2017	186.84

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IBM East Fishkill

Groundwater Elevation Data: January through December 2017

	First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
Well	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**
608	01/03/2017	204.61	04/24/2017	214.74	07/11/2017	217.26	10/10/2017	216.39
609	01/04/2017	126.43	04/25/2017	153.38	07/11/2017	175.41	10/10/2017	177.84
610	01/04/2017	144.15	04/24/2017	159.73	07/11/2017	178.25	10/10/2017	177.13
611	01/04/2017	163.89	04/25/2017	182.63	07/11/2017	192.68	10/09/2017	190.67
612	01/04/2017	232.78	04/24/2017	234.03	07/11/2017	233.74	10/09/2017	232.80
613	01/04/2017	231.48	04/24/2017	233.53	07/11/2017	232.24	10/09/2017	231.33
614	01/04/2017	227.79	04/24/2017	227.96	07/11/2017	227.52	10/10/2017	226.17
615	01/04/2017	228.12	04/24/2017	228.44	07/11/2017	227.85	10/10/2017	226.43
616	01/04/2017	228.16	04/24/2017	228.46	07/11/2017	227.87	10/10/2017	226.48
617	01/04/2017	232.59	04/24/2017	232.96	07/11/2017	232.46	10/09/2017	231.39
618	01/04/2017	230.20	04/24/2017	230.16	07/11/2017	230.09	10/10/2017	229.20
619	01/04/2017	258.78	04/24/2017	261.95	07/11/2017	255.05	10/10/2017	250.02
620	01/04/2017	230.76	04/24/2017	231.52	07/11/2017	231.11	10/09/2017	230.74
621	01/04/2017	243.19	04/25/2017	245.05	07/11/2017	243.30	10/11/2017	DRY
622	01/03/2017	211.48	04/24/2017	220.18	07/11/2017	221.18	10/10/2017	220.40
623	01/04/2017	140.83	04/24/2017	160.54	07/11/2017	164.44	10/10/2017	174.84
624	01/04/2017	163.54	04/24/2017	182.88	07/11/2017	194.26	10/10/2017	193.79
626	01/05/2017	261.93	04/24/2017	262.46	07/10/2017	259.72	10/09/2017	258.00
627	01/04/2017	244.98	04/26/2017	246.16	07/11/2017	245.55	10/11/2017	DRY
640	01/04/2017	241.74	04/24/2017	241.11	07/11/2017	240.30	10/10/2017	239.18
700	01/04/2017	240.07	04/24/2017	240.49	07/11/2017	239.26	10/10/2017	238.70
701	01/04/2017	239.76	04/24/2017	240.20	07/11/2017	239.00	10/10/2017	238.43
702	01/04/2017	245.52	04/24/2017	245.62	07/11/2017	245.19	10/10/2017	244.83
703	01/04/2017	244.05	04/24/2017	245.05	07/11/2017	241.79	10/10/2017	239.97
704	01/04/2017	205.33	04/24/2017	216.30	07/11/2017	221.34	10/10/2017	221.28
705	01/05/2017	244.95	04/25/2017	245.96	07/11/2017	247.81	10/09/2017	247.57
706	01/05/2017	237.24	04/25/2017	239.61	07/11/2017	239.18	10/09/2017	238.57
707	01/05/2017	241.23	04/24/2017	244.14	07/11/2017	243.17	10/09/2017	242.96
708	01/05/2017	237.04	04/24/2017	239.09	07/11/2017	239.03	10/09/2017	237.83
709	01/05/2017	243.60	04/24/2017	248.04	07/11/2017	245.58	10/09/2017	242.61
710	01/05/2017	243.72	04/24/2017	247.14	07/11/2017	245.28	10/09/2017	242.21
711	01/05/2017	238.89	04/24/2017	243.47	07/11/2017	242.02	10/09/2017	239.12
712	01/04/2017	253.95	04/24/2017	255.29	07/11/2017	DRY	10/09/2017	DRY
714	01/04/2017	232.18	04/24/2017	238.62	07/11/2017	236.88	10/09/2017	233.92
716	01/04/2017	181.43	04/24/2017	192.20	07/11/2017	204.00	10/09/2017	208.85
717	01/04/2017	247.45	04/24/2017	249.10	07/11/2017	247.61	10/09/2017	245.66
718	01/04/2017	247.43	04/24/2017	249.10	07/11/2017	247.51	10/09/2017	245.47
719	01/04/2017	247.94	04/24/2017	249.41	07/11/2017	247.96	10/09/2017	245.69
720	01/04/2017	247.35	04/24/2017	249.07	07/11/2017	247.49	10/09/2017	245.41
721	01/04/2017	248.74	04/24/2017	251.06	07/11/2017	249.09	10/09/2017	245.39
722	01/04/2017	243.53	04/24/2017	249.29	07/11/2017	246.54	10/09/2017	242.32
723	01/04/2017	249.06	04/24/2017	252.66	07/11/2017	249.98	10/09/2017	245.40
724	01/04/2017	248.96	04/24/2017	252.95	07/11/2017	249.94	10/09/2017	245.47
725	01/04/2017	250.37	04/24/2017	253.18	07/11/2017	250.38	10/09/2017	246.99
726	01/04/2017	250.41	04/24/2017	253.24	07/11/2017	250.46	10/09/2017	246.91
727	01/04/2017	250.29	04/24/2017	253.20	07/11/2017	250.31	10/09/2017	246.86
728	01/04/2017	249.10	04/24/2017	250.73	07/11/2017	248.81	10/10/2017	246.54
729	01/04/2017	249.24	04/24/2017	251.08	07/11/2017	249.15	10/09/2017	246.90
730	01/04/2017	237.71	04/24/2017	242.02	07/11/2017	241.24	10/09/2017	239.41

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IBM East Fishkill

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Well	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**
732	01/04/2017	163.27	04/25/2017	178.84	07/11/2017	192.52	10/10/2017	196.17
734	01/04/2017	151.92	04/25/2017	167.96	07/11/2017	184.02	10/10/2017	187.37
735	01/04/2017	241.00	04/25/2017	243.41	07/11/2017	242.74	10/11/2017	241.12
737	01/04/2017	168.30	04/25/2017	184.87	07/11/2017	196.53	10/11/2017	198.56
739	01/05/2017	168.64	04/26/2017	185.24	07/12/2017	196.63	10/10/2017	199.39
740	01/05/2017	DRY	04/25/2017	238.29	07/12/2017	238.47	10/10/2017	237.39
742	01/05/2017	170.76	04/25/2017	188.12	07/12/2017	198.80	10/10/2017	199.98
743	01/05/2017	247.56	04/26/2017	247.94	07/12/2017	246.51	10/10/2017	244.54
744	01/04/2017	246.92	04/24/2017	247.83	07/11/2017	246.49	10/09/2017	245.09
745	01/04/2017	247.54	04/24/2017	247.55	07/11/2017	247.26	10/09/2017	245.99
746	01/04/2017	246.04	04/24/2017	246.27	07/11/2017	244.77	10/09/2017	243.64
747	01/04/2017	248.88	04/24/2017	253.28	07/11/2017	249.96	10/09/2017	245.06
748	01/04/2017	241.22	04/24/2017	247.13	07/11/2017	244.38	10/09/2017	240.50
749	01/04/2017	250.85	04/24/2017	251.29	07/11/2017	250.58	10/10/2017	249.34
750	01/04/2017	248.93	04/24/2017	250.44	07/11/2017	248.74	10/10/2017	246.44
751	01/05/2017	242.32	04/25/2017	241.54	07/11/2017	241.46	10/11/2017	241.17
752	01/05/2017	245.08	04/25/2017	245.03	07/11/2017	244.80	10/11/2017	244.53
753	01/05/2017	237.63	04/25/2017	237.38	07/11/2017	237.16	10/11/2017	236.42
754	01/04/2017	235.58	04/24/2017	236.38	07/11/2017	235.99	10/10/2017	235.59
755	01/04/2017	234.39	04/24/2017	231.44	07/11/2017	230.88	10/10/2017	229.82
756	01/04/2017	234.43	04/24/2017	242.32	07/11/2017	237.50	10/10/2017	232.81
757	01/04/2017	228.09	04/24/2017	228.39	07/11/2017	227.78	10/09/2017	226.40
758	01/05/2017	253.18	04/24/2017	253.60	07/11/2017	253.37	10/09/2017	253.06
759	01/05/2017	240.78	04/24/2017	243.27	07/11/2017	242.44	10/09/2017	240.35
760	01/05/2017	237.60	04/24/2017	243.22	07/11/2017	240.28	10/09/2017	238.00
761	01/05/2017	248.27	04/24/2017	252.09	07/11/2017	249.35	10/09/2017	244.95
763	01/04/2017	233.57	04/24/2017	240.80	07/11/2017	239.79	10/09/2017	237.27
766	01/06/2017	236.69	04/25/2017	237.61	07/12/2017	237.90	10/10/2017	237.57
767	01/06/2017	236.77	04/25/2017	237.50	07/12/2017	237.98	10/10/2017	237.65
768	01/06/2017	236.31	04/25/2017	237.54	07/12/2017	237.65	10/10/2017	236.99
769	01/06/2017	235.89	04/25/2017	237.53	07/12/2017	237.20	10/10/2017	236.48
770	01/06/2017	238.07	04/25/2017	237.71	07/12/2017	237.48	10/10/2017	236.73
771	01/06/2017	235.40	04/25/2017	237.28	07/12/2017	237.11	10/10/2017	236.36
772	01/06/2017	231.81	04/25/2017	232.84	07/12/2017	232.91	10/10/2017	231.97
773	01/04/2017	232.51	04/24/2017	233.54	07/11/2017	233.38	10/09/2017	232.45
774	01/05/2017	231.17	04/25/2017	231.94	07/12/2017	231.61	10/10/2017	230.44
775	01/05/2017	229.95	04/25/2017	230.72	07/12/2017	230.63	10/10/2017	229.32
776	01/04/2017	DRY	04/24/2017	234.55	07/11/2017	239.35	10/09/2017	238.59
777	01/04/2017	246.87	04/24/2017	256.38	07/11/2017	250.82	10/09/2017	244.35
779	01/04/2017	177.43	04/24/2017	192.65	07/11/2017	198.32	10/09/2017	200.41
782	01/04/2017	227.38	04/26/2017	228.02	07/11/2017	226.94	10/11/2017	226.02
783	01/03/2017	210.72	04/24/2017	218.21	07/11/2017	219.08	10/10/2017	214.11
789	01/06/2017	232.15	04/25/2017	232.25	07/12/2017	231.79	10/10/2017	230.59
791	01/06/2017	230.09	04/25/2017	230.56	07/12/2017	230.47	10/10/2017	229.35
792	01/06/2017	228.24	04/25/2017	231.62	07/12/2017	231.58	10/10/2017	228.95
793	01/06/2017	227.38	04/25/2017	228.16	07/12/2017	228.13	10/10/2017	227.69
799	01/03/2017	218.20	04/24/2017	222.40	07/11/2017	221.47	10/10/2017	215.53
816	01/05/2017	245.41	04/24/2017	245.85	07/11/2017	244.29	10/09/2017	243.19
818	01/05/2017	246.96	04/24/2017	246.92	07/11/2017	246.14	10/09/2017	245.60

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IBM East Fishkill

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Well	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**
819	01/05/2017	252.03	04/24/2017	251.87	07/11/2017	250.95	10/09/2017	250.06
820	01/05/2017	249.75	04/25/2017	250.17	07/12/2017	249.67	10/11/2017	248.52
821	01/05/2017	248.16	04/25/2017	249.07	07/12/2017	248.49	10/11/2017	247.27
822	01/05/2017	245.15	04/25/2017	246.08	07/12/2017	245.83	10/11/2017	244.70
823	01/05/2017	245.96	04/25/2017	246.62	07/11/2017	246.08	10/09/2017	244.00
824	01/05/2017	246.69	04/25/2017	247.49	07/11/2017	246.78	10/09/2017	245.62
826	01/05/2017	259.89	04/25/2017	258.06	07/12/2017	260.24	10/10/2017	254.69
827	01/05/2017	254.67	04/24/2017	254.41	07/11/2017	253.96	10/09/2017	253.15
830	01/04/2017	259.04	04/24/2017	262.71	07/11/2017	255.02	10/10/2017	248.04
831	01/04/2017	252.07	04/24/2017	256.42	07/11/2017	250.17	10/10/2017	245.00
832	01/03/2017	259.37	04/24/2017	263.18	07/10/2017	256.40	10/09/2017	254.05
833	01/03/2017	265.65	04/24/2017	269.19	07/10/2017	258.40	10/09/2017	252.06
835	01/03/2017	265.76	04/24/2017	276.56	07/10/2017	269.65	10/09/2017	262.97
836	01/03/2017	262.22	04/24/2017	271.38	07/10/2017	264.14	10/09/2017	257.87
837	01/03/2017	266.07	04/24/2017	276.60	07/10/2017	269.48	10/09/2017	264.40
838	01/04/2017	DRY	04/24/2017	258.40	07/11/2017	252.80	10/11/2017	DRY
839	01/04/2017	228.00	04/26/2017	228.67	07/12/2017	227.78	10/09/2017	226.54
855	01/05/2017	261.30	04/24/2017	261.72	07/10/2017	258.83	10/09/2017	256.99
856	01/05/2017	262.68	04/24/2017	263.20	07/10/2017	260.12	10/09/2017	258.15
857	01/09/2017	FLOW	04/24/2017	FLOW	07/10/2017	FLOW	10/09/2017	254.43
858	01/09/2017	FLOW	04/24/2017	FLOW	07/10/2017	258.38	10/09/2017	254.10
859	01/09/2017	256.40	04/24/2017	256.64	07/10/2017	256.06	10/09/2017	254.79
860	01/09/2017	255.40	04/24/2017	256.63	07/10/2017	257.36	10/09/2017	255.01
861	01/09/2017	252.50	04/24/2017	257.11	07/10/2017	253.78	10/10/2017	249.81
862	01/09/2017	251.71	04/24/2017	255.81	07/10/2017	252.75	10/09/2017	248.80
863	01/04/2017	258.71	04/24/2017	261.80	07/11/2017	254.97	10/10/2017	249.90
864	01/05/2017	249.30	04/24/2017	249.01	07/11/2017	248.31	10/09/2017	247.68
895	01/09/2017	259.23	04/24/2017	259.66	07/10/2017	258.21	10/09/2017	257.16
896	01/09/2017	259.32	04/24/2017	259.88	07/10/2017	258.23	10/09/2017	257.18
897	01/03/2017	262.45	04/24/2017	268.28	07/10/2017	267.32	10/09/2017	262.76
898	01/03/2017	265.94	04/24/2017	267.96	07/10/2017	268.42	10/09/2017	267.22
899	01/03/2017	260.54	04/24/2017	274.86	07/10/2017	268.22	10/09/2017	256.33
900	01/03/2017	266.37	04/24/2017	267.84	07/10/2017	268.64	10/09/2017	267.56
902	01/09/2017	257.56	04/24/2017	257.83	07/10/2017	257.02	10/09/2017	257.13
903	01/09/2017	258.08	04/24/2017	258.37	07/10/2017	257.89	10/09/2017	256.17
910	01/04/2017	248.95	04/24/2017	252.62	07/11/2017	249.86	10/09/2017	245.34
921	01/04/2017	242.23	04/24/2017	250.83	07/11/2017	246.83	10/10/2017	242.21
922	01/04/2017	239.08	04/24/2017	248.13	07/11/2017	232.99	10/10/2017	230.65
923	01/04/2017	222.81	04/24/2017	231.98	07/11/2017	230.29	10/10/2017	227.86
924	01/04/2017	249.36	04/24/2017	253.15	07/11/2017	250.66	10/10/2017	247.50
928	01/04/2017	162.70	04/24/2017	170.46	07/11/2017	180.52	10/10/2017	184.58
929	01/04/2017	162.46	04/24/2017	171.37	07/11/2017	181.32	10/10/2017	184.83
930	01/04/2017	171.74	04/24/2017	182.59	07/11/2017	190.49	10/10/2017	192.31
931	01/04/2017	170.50	04/24/2017	181.34	07/11/2017	189.51	10/10/2017	191.40
932	01/04/2017	249.88	04/24/2017	253.78	07/11/2017	250.14	10/10/2017	246.41
934	01/05/2017	239.09	04/25/2017	238.92	07/11/2017	239.13	10/11/2017	238.41
935	01/04/2017	199.73	04/24/2017	225.00	07/11/2017	218.36	10/10/2017	211.15
936	01/04/2017	197.24	04/24/2017	222.21	07/11/2017	216.47	10/10/2017	209.82
941	01/03/2017	154.98	04/24/2017	167.81	07/11/2017	179.92	10/10/2017	182.54

Key:
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NA: Not Accessible
All Elevations are in feet above mean sea level

IBM East Fishkill

Groundwater Elevation Data: January through December 2017

	First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
Well	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**	**Date**	**Elev.**
943	01/03/2017	242.79	04/24/2017	247.36	07/10/2017	241.96	10/10/2017	240.68
944	01/03/2017	247.03	04/24/2017	250.66	07/10/2017	247.08	10/10/2017	243.04
946	01/06/2017	225.54	04/25/2017	225.56	07/12/2017	225.66	10/10/2017	225.77
947	01/06/2017	228.01	04/25/2017	228.72	07/12/2017	228.68	10/10/2017	228.30
948	01/06/2017	226.70	04/25/2017	227.31	07/12/2017	227.32	10/10/2017	227.03
949	01/06/2017	232.04	04/25/2017	231.51	07/12/2017	231.48	10/10/2017	231.18
952	01/06/2017	177.17	04/25/2017	192.67	07/12/2017	201.23	10/10/2017	201.96
953	01/04/2017	150.61	04/24/2017	167.09	07/11/2017	178.64	10/10/2017	178.23
954	01/04/2017	230.04	04/24/2017	238.38	07/11/2017	236.74	10/10/2017	233.92
955	01/04/2017	240.97	04/24/2017	250.00	07/11/2017	246.12	10/10/2017	241.80
956	01/04/2017	236.72	04/24/2017	246.94	07/11/2017	243.23	10/10/2017	238.71
957	01/04/2017	244.04	04/24/2017	251.03	07/11/2017	248.16	10/10/2017	245.20
958	01/03/2017	262.77	04/24/2017	264.56	07/10/2017	261.82	10/09/2017	259.48
959	01/04/2017	173.54	04/25/2017	191.45	07/11/2017	201.60	10/10/2017	199.92
960	01/04/2017	224.43	04/25/2017	227.55	07/11/2017	226.32	10/10/2017	223.50
962	01/04/2017	192.41	04/24/2017	207.16	07/11/2017	215.58	10/09/2017	216.68
963	01/09/2017	259.11	04/24/2017	258.72	07/10/2017	258.04	10/09/2017	256.95
964	01/09/2017	259.13	04/24/2017	259.58	07/10/2017	258.15	10/09/2017	257.07
965	01/04/2017	213.66	04/24/2017	221.30	07/11/2017	222.09	10/10/2017	221.27
966	01/04/2017	213.61	04/24/2017	221.46	07/11/2017	222.21	10/10/2017	221.37
968	01/03/2017	170.44	04/24/2017	182.84	07/11/2017	191.59	10/10/2017	193.53
976	01/04/2017	226.87	04/24/2017	227.30	07/11/2017	225.52	10/09/2017	224.40
980	01/05/2017	247.23	04/25/2017	247.76	07/12/2017	247.17	10/11/2017	246.59
983	01/03/2017	250.02	04/24/2017	257.52	07/10/2017	251.49	10/09/2017	246.49
984	01/03/2017	248.69	04/24/2017	254.43	07/10/2017	250.00	10/09/2017	245.99
985	01/03/2017	254.99	04/24/2017	269.74	07/10/2017	264.13	10/09/2017	254.34
986	01/03/2017	255.94	04/24/2017	265.55	07/10/2017	257.36	10/09/2017	250.60
987	01/09/2017	256.72	04/24/2017	257.35	07/10/2017	255.50	10/09/2017	254.86
988	01/09/2017	258.43	04/24/2017	FLOW	07/10/2017	FLOW	10/09/2017	260.36
989	01/09/2017	257.82	04/24/2017	FLOW	07/10/2017	FLOW	10/09/2017	254.93
990	01/09/2017	256.34	04/24/2017	256.77	07/10/2017	255.29	10/09/2017	254.78
991	01/09/2017	258.68	04/24/2017	FLOW	07/10/2017	257.63	10/09/2017	256.05
992	01/09/2017	258.67	04/24/2017	FLOW	07/10/2017	258.15	10/09/2017	255.30
993	01/06/2017	233.86	04/26/2017	234.79	07/12/2017	233.50	10/10/2017	232.41
994	01/06/2017	250.02	04/26/2017	249.96	07/12/2017	249.37	10/10/2017	247.72
997	01/04/2017	252.56	04/24/2017	251.69	07/11/2017	251.29	10/09/2017	249.82
998	01/04/2017	247.37	04/24/2017	248.92	07/11/2017	247.42	10/09/2017	245.35
999	01/04/2017	243.13	04/24/2017	244.77	07/11/2017	244.13	10/09/2017	242.70

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Appendix C

2017 Sampling Field Log Database (on CD): SAMP17a.DBF
2017 Field Parameters Database (on CD): FIELD17a.DBF
Table of Meteorological Data (January – December 2017)

Sampling Field Log Database

WELL	BOOK NO	PAGE NO	DATE	SAMPLE ID	QC_ORG	QC_373_KIT	EQUIP ID	DTW BP	DTW AP	START PURGE	END PURGE	RATE	VOL PURGE	SAMPLER ID	GW VOA	PW VOA	F METALS	U METALS	FLUORIDE	SPECIAL	PUMPED DRY	PID	COMMENTS
007	425	163169	4/10/2017	GW170410007			BP/LINE	8.68	@PUMF	1034	1055	1.5M/G	14.0	DFB	3	0	1	1	0	0	Y	NA	
010	425	163164	4/7/2017	GW170407010			B/B	36.52	50.61	0857	0913	NA	8.3	DFB	3	0	1	1	0	0	N	NA	
010	429	163523	10/17/2017	GW171017010			B/B	40.17	53.16	1021	1030	NA	4.4	DFB	3	0	0	0	0	0	Y	NA	
015	428	163451	5/9/2017	GW170509015		NR170509310	BP/LINE	16.48	17.32	1151	1203	2.1M/G	5.7	DFB	6	0	2	2	2	0	N	ND/ND	QC DUPLICATE 310
015	429	163551	10/26/2017	GW171026015			BP/LINE	18.53	21.72	1224	1234	2.2M/G	4.7	DFB	3	0	0	0	0	0	N	ND/ND	
016	425	163182	4/12/2017	GW170412016			2"SP/LINE	30.24	34.92	1023	1044	2GPM	41.0	DFB	3	0	0	0	0	0	N	NA	
016	426	163299	10/19/2017	GW171019016			2"SP/LINE	28.85	36.27	0952	1007	3GPM	45.0	JAR	3	0	0	0	0	0	N	NA	
032B	425	163112	1/10/2017	GW170110032B			SP/TAP	5.42	11.80	1019	1031	6.5M/G	70.0	DFB	3	0	0	0	0	0	N	NA	
032B	425	163187	4/13/2017	GW170413032B			SP/TAP	4.33	11.64	1305	1323	6.5GPM		DFB	3	0	0	0	0	0	N	NA	
032B	428	163481	7/6/2017	GW170706032B	NR170706310		SP/TAP	5.91	11.97	1055	1114	6.5GPM	120.0	DFB	6	0	0	0	0	0	N	NA	QC DUPLICATE 310
032B	429	163515	10/16/2017	GW171016032B			SP/TAP	6.72	11.74	1340	1413	6GPM	170.0	DFB	3	0	0	0	0	0	N	NA	
046	423	162998	1/10/2017	GW170110046	NR170110310		PP/B	9.10	9.15	1021	1221	6M/G	20.0	JAR	6	0	0	0	0	0	N	NA	QC DUPLICATE 310
046	428	163401	4/19/2017	GW170419046			PP/B	5.27	5.42	0859	0926	1GPM	27.0	DFB	3	0	0	0	0	0	N	NA	
046	428	163477	7/6/2017	GW170706046			PP/B	12.45	12.57	0805	0818	1G/M	0.3	DFB	3	0	0	0	0	0	N	NA	
046	429	163508	10/16/2017	GW171016046			PP/B	17.86	18.11	0808	0829	8M/G	2.6	DFB	3	0	0	0	0	0	N	NA	
048	423	162997	1/10/2017	GW170110048			2"SP/LINE	5.94	6.68	0948	1007	1GPM	19.0	JAR	3	0	0	0	0	0	N	NA	
048	426	163216	4/5/2017	GW170405048			2"SP/LINE	5.11	5.73	1029	1050	1GPM	21.0	JAR	3	0	0	0	0	0	N	NA	
048	426	163247	7/6/2017	GW170706048			2"SP/LINE	6.95	13.87	0842	0900	1GPM	18.0	JAR	3	0	0	0	0	0	N	NA	
048	426	163272	10/16/2017	GW171016048			2"SP/LINE	7.66	10.74	0832	0848	1GPM	16.0	JAR	3	0	0	0	0	0	N	NA	
053	426	163234	4/10/2017	GW170410053			B/B	11.98	12.01	1112	1127	NA	13.0	JAR	3	0	0	0	0	0	N	NA	
053	429	163531	10/18/2017	GW171018053			B/B	20.66	20.82	1311	1323	NA	8.7	DFB	3	0	0	0	0	0	N	NA	
054	425	163181	4/12/2017	GW170412054			2"SP/LINE	10.89	13.44	0920	0937	2GPM	34.0	DFB	3	0	0	0	0	0	N	NA	
054	426	163292	10/18/2017	GW171018054			2"SP/LINE	17.83	21.68	1131	1138	3GPM	21.7	JAR	3	0	0	0	0	0	N	NA	
059	425	163193	4/17/2017	GW170417059			2"SP/LINE	4.79	5.33	0827	0840	2GPM	25.0	DFB	3	0	0	0	0	0	N	NA	
060	425	163194	4/17/2017	GW170417060			2"SP/LINE	15.78	23.08	0847	0907	3GPM	60.0	DFB	3	0	0	0	0	0	N	NA	
061	425	163178	4/11/2017	GW170411061			2"SP/LINE	8.27	9.52	1234	1248	3GPM	41.0	DFB	3	0	0	0	0	0	N	NA	
064	426	163201	1/11/2017	GW170111064			2"SP/LINE	4.01	5.07	1227	1237	3GPM	30.0	JAR	3	0	0	0	0	0	N	NA	
064	426	163212	4/5/2017	GW170405064			2"SP/LINE	3.47	4.86	0812	0818	5GPM	30.0	JAR	3	0	0	0	0	0	N	NA	
064	426	163245	7/6/2017	GW170706064			2"SP/LINE	6.01	7.32	0755	0801	4GPM	24.0	JAR	3	0	0	0	0	0	N	NA	
064	426	163270	10/16/2017	GW171016064			2"SP/LINE	8.84	9.96	0801	0806	4GPM	20.0	JAR	3	0	0	0	0	0	N	NA	
065	423	163000	1/10/2017	GW170110065			2"SP/LINE	3.75	12.15	1247	1313	3GPM	78.0	JAR	3	0	0	0	0	0	N	NA	
065	426	163213	4/5/2017	GW170405065			2"SP/LINE	2.94	11.82	0822	0836	6GPM	84.0	JAR	3	0	0	0	0	0	N	NA	
065	426	163246	7/6/2017	GW170706065	NR170706311		2"SP/LINE	5.62	14.61	0812	0827	5GPM	75.0	JAR	6	0	0	0	0	0	N	NA	QC DUPLICATE 311
065	426	163271	10/16/2017	GW171016065			2"SP/LINE	8.43	17.53	0809	0823	5GPM	70.0	JAR	3	0	0	0	0	0	N	NA	
066	423	162994	1/10/2017	GW170110066			2"SP/LINE	4.71	6.54	0756	0809	1GPM	13.6	JAR	3	0	0	0	0	0	N	NA	
066	426	163218	4/5/2017	GW170405066			2"SP/LINE	3.96	6.33	1214	1228	1GPM	14.0	JAR	3	0	0	0	0	0	N	NA	
066	426	163250	7/6/2017	GW170706066			2"SP/LINE	6.49	9.02	1206	1215	1GPM	9.0	JAR	3	0	0	0	0	0	N	NA	
066	426	163277	10/16/2017	GW171016066			2"SP/LINE	6.55	8.72	1404	1409	2GPM	10.0	JAR	3	0	0	0	0	0	N	NA	
067	423	162995	1/10/2017	GW170110067			B/B	5.96	6.22	0856	0901	NA	4.5	JAR	3	0	0	0	0	0	N	NA	
067	426	163219	4/5/2017	GW170405067			B/B	5.53	6.05	1240	1245	NA	4.5	JAR	3	0	0	0	0	0	N	NA	
067	426	163251	7/6/2017	GW170706067			B/B	6.40	6.80	1227	1233	NA	4.0	JAR	3	0	0	0	0	0	N	NA	
067	426	163278	10/16/2017	GW171016067			B/B	7.13	7.43	1420	1426	NA	4.0	JAR	3	0	0	0	0	0	N	NA	
068	423	162993	1/10/2017	GW170110068			2"SP/LINE	4.13	8.27	0829	0842	3GPM	39.0	JAR	3	0	0	0	0	0	N	NA	
068	426	163240	4/18/2017	GW170418068			2"SP/LINE	4.61	7.88	1236	1254	2GPM	36.0	DFB	3	0	1	1	0	0	N	NA	
068	426	163257	7/7/2017	GW170707068			2"SP/LINE	4.04	7.50	1238	1251	NA	39.0	JAR	3	0	0	0	0	0	N	NA	
068	426	163293	10/18/2017	GW171018068	NR171018310		2"SP/LINE	5.51	10.94	1224	1236	3GPM	36.0	JAR	6	0	0	0	0	0	N	NA	QC DUPLICATE 310
069	428	163408	4/20/2017	GW170420069			BP/LINE	2.78	3.48	1248	1313	1GPM	25.0	DFB	3	0	0	0	0	0	N	NA	
085	425	163197	4/17/2017	GW170417085			2"SP/LINE	21.37	75.94	1113	1138	2GPM	49.0	DFB	3	0	0	0	0	0	N	NA	
085	430	163605	10/20/2017	GW171020085			2"SP/LINE	29.18	82.96	0851	0914	2GPM	46.0	JAR	3	0	0	0	0	0	N	NA	
087	425	163196	4/17/2017	GW170417087			2"SP/LINE	7.72	26.16	1029	1054	2GPM	49.0	DFB	3	0	0	0	0	0	N	NA	
087	426	163287	10/17/2017	GW171017087			2"SP/LINE	10.84	35.61	1242	1258	3GPM	48.0	JAR	3	0	0	0	0	0	N	NA	
103	426	163237	4/10/2017	GW170410103			B/B	8.41	DRY	1304	1307	NA	1.0	JAR	3	0	0	0	0	0	Y	NA	

Sampling Field Log Database

WELL	BOOK NO	PAGE NO	DATE	SAMPLE ID	QC_ORG	QC_373_KIT	EQUIP ID	DTW BP	DTW AP	START PURGE	END PURGE	RATE	VOL PURGE	SAMPLER ID	GW VOA	PW VOA	F METALS	U METALS	FLUORIDE	SPECIAL	PUMPED DRY	PID	COMMENTS
103	429	163533	10/19/2017	GW171019103			B/B	9.49	14.44	0819	0822	NA	0.9	DFB	3	0	0	0	0	0	Y	NA	
104	426	163238	4/10/2017	GW170410104			PP/B	25.68	DRY	1315	1327	12M/G	1.0	JAR	3	0	0	0	0	0	Y	NA	
104	428	163427	5/2/2017	GW170502104			PP/B	25.62	DRY	0824	0836	10M/G	1.1	DFB	3	0	1	1	0	0	Y	NA	
104	430	163622	10/27/2017	GW171027104			PP/B	25.10	DRY	1032	1042	1GPM	1.0	JAR	3	0	0	0	0	0	Y	NA	
105	425	163179	4/12/2017	GW170412105			2"SP/LINE	29.52	@PUMF	0811	0825	1GPM	14.0	DFB	3	0	0	0	0	0	Y	NA	
105	426	163296	10/19/2017	GW171019105			2"SP/LINE	27.69	91.64	0731	0809	1GPM	38.0	JAR	3	0	0	0	0	0	N	NA	
106	428	163450	5/9/2017	GW170509106			BP/LINE	33.58	@PUMF	1031	1111	1.8M/G	22.0	DFB	3	0	0	0	0	0	Y	NA	
109	425	163180	4/12/2017	GW170412109			2"SP/LINE	24.11	@PUMF	0835	0859	2GPM	48.0	DFB	3	0	0	0	0	0	Y	NA	
109	426	163300	10/19/2017	GW171019109			2"SP/LINE	23.68	NA	1024	1131	1GPM	67.0	JAR	3	0	0	0	0	0	N	NA	
113	426	163243	4/21/2017	GW170421113			2"SP/LINE	-2.00	66.98	1118	1212	1GPM	54.0	JAR	3	0	0	0	0	0	N	NA	
113	426	163294	10/18/2017	GW171018113			2"SP/LINE	6.32	84.46	1250	1316	2GPM	52.0	JAR	3	0	0	0	0	0	N	NA	
118	428	163447	5/8/2017	GW170508118			BP/LINE	68.48	100.38	1412	1509	1.4M/G	41.0	DFB	3	0	0	0	0	0	N	ND/ND	
143	425	163170	4/10/2017	GW170410143			BP/LINE	92.06	93.69	1106	1203	2.2M/G	26.0	DFB	3	0	0	0	0	0	N	NA	
146	425	163177	4/11/2017	GW170411146			2"SP/LINE	59.98	65.21	1138	1220	1GPM	42.0	DFB	3	0	0	0	0	0	N	NA	
151	425	163191	4/14/2017	GW170414151			PP/B	9.81	11.81	1026	1042	4M/G	4.1	DFB	3	0	0	0	0	0	N	NA	
151	429	163528	10/18/2017	GW171018151			PP/B	12.02	13.62	1100	1119	6M/G	3.1	DFB	3	0	0	0	0	0	N	NA	
156	428	163436	5/3/2017	GW170503156			2"SP/LINE	22.94	59.17	1150	1221	1GPM	31.0	DFB	3	0	0	0	0	0	N	NA	
156	426	163297	10/19/2017	GW171019156	NR171019311		2"SP/LINE	29.19	DRY	0822	0834	1GPM	11.5	JAR	6	0	0	0	0	0	Y	NA	QC DUPLICATE 311
167	428	163449	5/9/2017	GW170509167			BP/LINE	2.18	140.97	0857	0952	1.7M/G	32.0	DFB	3	0	0	0	0	0	Y	NA	
167	429	163538	10/20/2017	GW171020167			BP/LINE	8.34	135.91	0824	0906	1.4M/G	30.0	DFB	3	0	0	0	0	0	Y	NA	
178	426	163231	4/10/2017	GW170410178			B/B	16.40	22.23	0938	0948	NA	5.0	JAR	3	0	0	0	0	0	N	NA	
181	426	163244	4/21/2017	GW170421181	NR170421313		2"SP/LINE	1.89	@PUMF	1242	1257	1GPM	15.0	JAR	3	0	0	0	0	0	Y	ND/ND	QC DUPLICATE 313
181	430	163601	10/19/2017	GW171019181			2"SP/LINE	4.10	DRY	1210	1226	1GPM	16.0	JAR	3	0	0	0	0	0	Y	ND/ND	
204	428	163407	4/20/2017	GW170420204			PP/B	7.51	11.30	1108	1113	2M/G	2.6	DFB	3	0	1	1	0	0	N	NA	
210	423	162989	1/3/2017	PW170103210			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	NA	
210	425	163129	2/1/2017	PW170201210			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	NA	
210	425	163138	3/1/2017	PW170301210			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	NA	
210	425	163147	4/3/2017	PW170403210			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	NA	
210	428	163422	5/1/2017	PW170501210			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	NA	
210	428	163465	6/1/2017	PW170601210			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	NA	
210	428	163473	7/5/2017	PW170705210			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	NA	
210	426	163258	8/1/2017	PW170801210			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	NA	
210	426	163264	9/1/2017	PW170901210			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	NA	
210	429	163504	10/2/2017	PW171002210			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	NA	
210	429	163552	11/1/2017	PW171101210			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	NA	
210	429	163563	12/1/2017	PW171201210			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	NA	
220	423	162986	1/3/2017	PW170103220			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
220	425	163127	2/1/2017	PW170201220			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
220	425	163135	3/1/2017	PW170301220			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
220	425	163144	4/3/2017	PW170403220			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
220	428	163419	5/1/2017	PW170501220			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
220	428	163466	6/1/2017	PW170601220			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
220	428	163472	7/5/2017	PW170705220			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
220	426	163259	8/1/2017	PW170801220			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
220	426	163265	9/1/2017	PW170901220			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
220	429	163502	10/2/2017	PW171002220			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
220	429	163553	11/1/2017	PW171101220			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
220	429	163565	12/1/2017	PW171201220			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
240	423	162987	1/3/2017	PW170103240			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
240	425	163130	2/1/2017	PW170201240			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
240	425	163136	3/1/2017	PW170301240			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
240	425	163145	4/3/2017	PW170403240			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	

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240	429	163501	9/18/2017	PW170918240			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
300	423		1/3/2017	ETB701030103										DFB	3	0	0	0	0	0	0		TRIP BLANK
300	425		1/10/2017	ETB701100111										DFB	3	0	0	0	0	0			
300	425		1/12/2017	ETB701120112										DFB	3	0	0	0	0	0	0		TRIP BLANK
300	425		2/1/2017	ETB702010201										DFB	3	0	0	0	0	0			TRIP BLANK
300	425		3/1/2017	ETB703010301										DFB	3	0	0	0	0	0			TRIP BLANK
300	425		4/3/2017	ETB704030403										DFB	3	0	0	0	0	0			TRIP BLANK
300	425		4/5/2017	ETB704050405										DFB	3	0	0	0	0	0			TRIP BLANK
300	425		4/6/2017	ETB704060407										DFB	3	0	0	0	0	0			TRIP BLANK
300	425		4/10/2017	ETB704100411										DFB	3	0	0	0	0	0			TRIP BLANK
300	425		4/12/2017	ETB704120413										DFB	3	0	0	0	0	0			TRIP BLANK
300	425		4/14/2017	ETB704140414										DFB	3	0	0	0	0	0			TRIP BLANK
300	425		4/17/2017	ETB704170418										DFB	3	0	0	0	0	0			TRIP BLANK
300	428		4/19/2017	ETB704190420										DFB	3	0	0	0	0	0			TRIP BLANK
300	428		4/21/2017	ETB704210421										DFB	3	0	0	0	0	0			TRIP BLANK
300	428		4/27/2017	ETB704270428										DFB	3	0	0	0	0	0			TRIP BLANK
300	428		5/1/2017	ETB705010501										DFB	3	0	0	0	0	0			TRIP BLANK
300	428		5/2/2017	ETB705020503										DFB	3	0	0	0	0	0			TRIP BLANK
300	428		5/4/2017	ETB705040505										DFB	3	0	0	0	0	0			TRIP BLANK
300	428		5/8/2017	ETB705080509										DFB	3	0	0	0	0	0			TRIP BLANK
300	428		5/10/2017	ETB705100511										DFB	3	0	0	0	0	0			TRIP BLANK
300	428		5/12/2017	ETB705120512										DFB	3	0	0	0	0	0			TRIP BLANK
300	428		6/1/2017	ETB706010601										DFB	3	0	0	0	0	0			TRIP BLANK
300	428		7/5/2017	ETB707050705										DFB	3	0	0	0	0	0			TRIP BLANK
300	428		7/6/2017	ETB707060707										DFB	3	0	0	0	0	0			TRIP BLANK
300	428		7/10/2017	ETB707100710										DFB	3	0	0	0	0	0			TRIP BLANK
300	426		8/1/2017	ETB708010801										DFB	3	0	0	0	0	0			TRIP BLANK
300	426		9/1/2017	ETB709010901										DFB	3	0	0	0	0	0			TRIP BLANK
300	429		9/18/2017	ETB709180918										DFB	3	0	0	0	0	0			TRIP BLANK
300	429		10/2/2017	ETB710021002										DFB	3	0	0	0	0	0			TRIP BLANK
300	429		10/16/2017	ETB710161017										DFB	3	0	0	0	0	0			TRIP BLANK
300	429		10/18/2017	ETB710181019										DFB	3	0	0	0	0	0			TRIP BLANK
300	429		10/20/2017	ETB710201020										DFB	3	0	0	0	0	0			TRIP BLANK
300	429		10/23/2017	ETB710231024										DFB	3	0	0	0	0	0			TRIP BLANK
300	429		10/25/2017	ETB710251026										DFB	3	0	0	0	0	0			TRIP BLANK
300	429		11/1/2017	ETB711011101										DFB	3	0	0	0	0	0			TRIP BLANK
300	429		11/13/2017	ETB711131113										DFB	3	0	0	0	0	0			TRIP BLANK
300	429		12/1/2017	ETB712011201										DFB	3	0	0	0	0	0			TRIP BLANK
302	423		1/10/2017	ETR701100111										JAR	3	0	0	0	0	0			TRIP BLANK
302	426		1/12/2017	ETR701120112										JAR	3	0	0	0	0	0			TRIP BLANK
302	426		4/4/2017	ETR704040405										JAR	3	0	0	0	0	0			TRIP BLANK
302	426		4/6/2017	ETR704060407										JAR	3	0	0	0	0	0			TRIP BLANK
302	426		4/10/2017	ETR704100411										JAR	3	0	0	0	0	0			TRIP BLANK
302	426		4/20/2017	ETR704200421										JAR	3	0	0	0	0	0			TRIP BLANK
302	426		7/6/2017	ETR707060707										JAR	3	0	0	0	0	0			TRIP BLANK
302	426		10/16/2017	ETR710161017										JAR	3	0	0	0	0	0			TRIP BLANK
302	426		10/18/2017	ETR710181019										JAR	3	0	0	0	0	0			TRIP BLANK
302	430		10/20/2017	ETR710201020										JAR	3	0	0	0	0	0			TRIP BLANK
302	430		10/23/2017	ETR710231024										JAR	3	0	0	0	0	0			TRIP BLANK
302	430		10/25/2017	ETR710251026										JAR	3	0	0	0	0	0			TRIP BLANK
302	430		10/27/2017	YTR710271027										JAR	3	0	0	0	0	0			TRIP BLANK
302	430		11/1/2017	YTR711011101										JAR	3	0	0	0	0	0			TRIP BLANK

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303	423		1/10/2017	EB170110303										JAR	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	425		1/11/2017	EB170111303										DFB	3	0	0	0	0	0	0		EQUIPMENT BLANK/WLID
303	426		1/12/2017	EB170112303										JAR	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	426		4/4/2017	EB170404303										JAR	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	425		4/5/2017	EB170405303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	426		4/6/2017	EB170406303										JAR	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	425		4/7/2017	EB170407303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	426		4/10/2017	EB170410303										JAR	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	425		4/11/2017	EB170411303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	425		4/12/2017	EB170412303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	425		4/13/2017	EB170413303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	425		4/14/2017	EB170414303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	425		4/17/2017	EB170417303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	426		4/18/2017	EB170418303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	428		4/19/2017	EB170419303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	426		4/20/2017	EB170420303										JAR	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	428		4/21/2017	EB170421303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	428		4/27/2017	EB170427303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	428		4/28/2017	EB170428303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	428		5/2/2017	EB170502303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	428		5/3/2017	EB170503303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	428		5/4/2017	EB170504303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	428		5/5/2017	EB170505303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	428		5/8/2017	EB170508303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	428		5/9/2017	EB170509303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	428		5/10/2017	EB170510303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	426		7/6/2017	EB170706303										JAR	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	428		7/7/2017	EB170707303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	428		7/10/2017	EB170710303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	426		10/16/2017	EB171016303										JAR	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	429		10/17/2017	EB171017303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	426		10/18/2017	EB171018303										JAR	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	429		10/19/2017	EB171019303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	430		10/20/2017	EB171020303										JAR	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	429		10/23/2017	EB171023303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	430		10/24/2017	EB171024303										JAR	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	429		10/25/2017	EB171025303										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	430		10/26/2017	EB171026303										JAR	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	430		10/27/2017	EB171027303										JAR	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
303	430		11/1/2017	EB171101303										JAR	3	0	0	0	0	0			EQUIPMENT BLANK/WLID
304	429		11/13/2017	EB171113304										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/SP125
305	428		5/11/2017	EB170511305										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/SP#1
305	428		5/12/2017	EB170512305										DFB	3	0	0	0	0	0			EQUIPMENT BLANK/SP#2
323	426	163206	1/12/2017	PW170112323			2"SP/LINE	8.15	10.17	0828	0904	5GPM	180.0	JAR	3	0	0	0	0	0	N	NA	
323	426	163217	4/5/2017	PW170405323			2"SP/LINE	6.23	8.85	1130	1131	6GPM	192.0	JAR	3	0	0	0	0	0	N	NA	
323	426	163252	7/6/2017	PW170706323			2"SP/LINE	9.28	11.80	1252	1322	6GPM	180.0	JAR	3	0	0	0	0	0	N	NA	
323	429	163512	10/16/2017	PW171016323			2"SP/LINE	10.32	13.92	1042	1105	7.5M/G	170.0	DFB	3	0	0	0	0	0	N	NA	
325	423	162988	1/3/2017	PW170103325			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
325	425	163128	2/1/2017	PW170201325			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
325	425	163137	3/1/2017	PW170301325			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
325	425	163146	4/3/2017	PW170403325			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
325	428	163421	5/1/2017	PW170501325			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	

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325	428	163467	6/1/2017	PW170601325			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
325	428	163471	7/5/2017	PW170705325			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
325	426	163260	8/1/2017	PW170801325			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
325	426	163266	9/1/2017	PW170901325			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
325	429	163503	10/2/2017	PW171002325			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
325	429	163554	11/1/2017	PW171101325			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
325	429	163566	12/1/2017	PW171201325			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395	423	162990	1/3/2017	SW170103395			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	1	1	1	0	N	ND/ND	
395	425	163131	2/1/2017	SW170201395			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	1	1	1	0	N	ND/ND	
395	425	163139	3/1/2017	SW170301395			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	1	1	1	0	N	ND/ND	
395	425	163148	4/3/2017	SW170403395			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	1	1	1	0	N	ND/ND	
395	428	163424	5/1/2017	SW170501395			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	1	1	1	0	N	ND/ND	
395	428	163468	6/1/2017	SW170601395			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	1	1	1	0	N	ND/ND	
395	428	163474	7/5/2017	SW170705395			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	1	1	1	0	N	ND/ND	
395	426	163261	8/1/2017	SW170801395			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395	426	163267	9/1/2017	SW170901395			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395	429	163505	10/2/2017	SW171002395			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	1	1	1	0	N	ND/ND	
395	429	163555	11/1/2017	SW171101395			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395	429	163567	12/1/2017	SW171201395			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	1	1	1	0	N	ND/ND	
395A	423	162991	1/3/2017	SW170103395A			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395A	425	163132	2/1/2017	SW170201395A			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395A	425	163140	3/1/2017	SW170301395A			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395A	425	163149	4/3/2017	SW170403395A			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395A	428	163425	5/1/2017	SW170501395A			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395A	428	163469	6/1/2017	SW170601395A			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395A	428	163475	7/5/2017	SW170705395A			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395A	426	163262	8/1/2017	SW170801395A			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395A	426	163268	9/1/2017	SW170901395A			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395A	429	163506	10/2/2017	SW171002395A			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395A	429	163556	11/1/2017	SW171101395A			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395A	429	163568	12/1/2017	SW171201395A			SP/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395B	423	162992	1/3/2017	SW170103395B			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395B	425	163133	2/1/2017	SW170201395B			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395B	425	163141	3/1/2017	SW170301395B			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395B	425	163150	4/3/2017	SW170403395B			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395B	428	163426	5/1/2017	SW170501395B			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395B	428	163470	6/1/2017	SW170601395B			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395B	428	163476	7/5/2017	SW170705395B			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395B	426	163263	8/1/2017	SW170801395B			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395B	426	163269	9/1/2017	SW170901395B			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395B	429	163507	10/2/2017	SW171002395B			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395B	429	163557	11/1/2017	SW171101395B			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
395B	429	163569	12/1/2017	SW171201395B			TANK/TAP	NA	NA	NA	NA	NA	0.3	DFB	3	0	0	0	0	0	N	ND/ND	
502	428	163431	5/2/2017	GW170502502			BP/LINE	1.14	7.28	1326	1357	1.8M/G	17.0	DFB	3	0	0	0	0	0	N	NA	
520	425	163119	1/11/2017	GW170111520			B/B	5.61	17.92	0952	1003	NA	9.2	DFB	3	0	0	0	0	0	N	NA	
520	425	163154	4/5/2017	GW170405520			B/B	4.66	14.46	1036	1052	NA	9.7	DFB	3	0	0	0	0	0	N	NA	
520	426	163255	7/7/2017	GW170707520			B/B	6.60	14.14	0805	0817	NA	9.0	JAR	3	0	0	0	0	0	N	NA	
520	426	163274	10/16/2017	GW171016520			B/B	7.10	20.37	0925	0935	NA	8.5	JAR	3	0	0	0	0	0	N	NA	
521	425	163121	1/11/2017	GW170111521			B/B	4.96	6.29	1222	1247	NA	14.0	DFB	3	0	0	0	0	0	N	NA	
521	425	163155	4/5/2017	GW170405521			B/B	1.59	1.83	1116	1135	NA	16.0	DFB	3	0	0	0	0	0	N	NA	
521	426	163256	7/7/2017	GW170707521			B/B	6.51	9.87	0935	0956	NA	14.0	JAR	3	0	0	0	0	0	N	NA	
521	426	163275	10/16/2017	GW171016521			B/B	7.37	7.87	0952	1008	NA	13.5	JAR	3	0	0	0	0	0	N	NA	

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WELL	BOOK NO	PAGE NO	DATE	SAMPLE ID	QC_ORG	QC_373_KIT	EQUIP ID	DTW BP	DTW AP	START PURGE	END PURGE	RATE	VOL PURGE	SAMPLER ID	GW VOA	PW VOA	F METALS	U METALS	FLUORIDE	SPECIAL	PUMPED DRY	PID	COMMENTS
543	425	163118	1/11/2017	GW170111543	NR170111311		PP/B	5.71	5.77	0913	0932	5.5M/G	3.5	DFB	6	0	0	0	0	0	N	NA	QC DUPLICATE 311
543	425	163152	4/5/2017	GW170405543			PP/B	2.61	2.69	0843	0913	6M/G	5.0	DFB	3	0	0	0	0	0	N	NA	
543	428	163479	7/6/2017	GW170706543			PP/B	7.21	7.62	0912	0930	6.5M/G	2.8	DFB	3	0	0	0	0	0	N	NA	
543	429	163510	10/16/2017	GW171016543			PP/B	7.79	7.86	0859	0917	7M/G	2.5	DFB	3	0	0	0	0	0	N	NA	
545	425	163120	1/11/2017	GW170111545			BP/LINE	7.52	7.67	1057	1115	1.6M/G	11.0	DFB	3	0	0	0	0	0	N	NA	
545	425	163153	4/5/2017	GW170405545			BP/LINE	5.14	5.31	0939	0957	1.5M/G	12.0	DFB	3	0	0	0	0	0	N	NA	
545	428	163480	7/6/2017	GW170706545	NR170706312		BP/LINE	9.02	9.08	1000	1016	1.6M/G	10.0	DFB	6	0	0	0	0	0	N	NA	QC DUPLICATE 312
545	429	163511	10/16/2017	GW171016545	NR171016312		BP/LINE	9.58	10.02	0943	0959	1.6M/G	9.7	DFB	6	0	0	0	0	0	N	NA	QC DUPLICATE 312
559	428	163409	4/21/2017	GW170421559			BP/LINE	23.98	@PUMF	0910	0934	1.8M/G	13.0	DFB	3	0	0	0	0	0	Y	ND/ND	
559	429	163535	10/19/2017	GW171019559			BP/LINE	35.56	@PUMF	0915	0931	1.8M/G	9.0	DFB	3	0	0	0	0	0	Y	ND/ND	
561	428	163410	4/21/2017	GW170421561	NR170421314		B/B	22.69	34.54	1004	1015	NA	7.5	DFB	6	0	0	0	0	0	N	ND/ND	QC DUPLICATE 314
561	429	163534	10/19/2017	GW171019561			B/B	35.1	37.82	0840	0843	NA	0.9	DFB	3	0	0	0	0	0	Y	ND/ND	
563	428	163435	5/3/2017	GW170503563			2"SP/LINE	33.45	@PUMF	0945	0959	2GPM	28.0	DFB	3	0	0	0	0	0	Y	NA	
563	426	163289	10/18/2017	GW171018563			2"SP/LINE	40.55	NA	0832	0854	2GPM	44.0	JAR	3	0	0	0	0	0	N	NA	
564	428	163434	5/3/2017	GW170503564			2"SP/LINE	23.17	@PUMF	0932	0939	2GPM	14.0	DFB	3	0	0	0	0	0	Y	NA	
564	426	163288	10/18/2017	GW171018564			2"SP/LINE	36.40	DRY	0812	0821	1GPM	9.0	JAR	3	0	0	0	0	0	Y	NA	
571	418	162500	1/24/2017											DFB									NO SAMPLE, DRY WELL
571	424	163093	2/28/2017											CES									NO SAMPLE, DRY WELL
571	425	163142	3/20/2017											DFB									NO SAMPLE, DRY WELL
571	426	163211	4/4/2017	GW170404571			B/B	12.40	14.07	1212	1215	NA	1.0	JAR	3	0	0	0	0	0	N	NA	
572	428	163463	5/12/2017	GW170512572			PP/B	11.98	12.18	1041	1053	5.5M/G	2.2	DFB	3	0	0	0	0	0	N	ND/ND	
574	426	163210	4/4/2017	GW170404574			PP/B	16.97	17.56	1001	1016	2M/G	7.5	JAR	3	0	0	0	0	0	N	ND/0.2	
576	426	163232	4/10/2017	GW170410576			PP/B	13.66	13.78	1007	1028	7M/G	3.0	JAR	3	0	0	0	0	0	N	NA	
576	429	163532	10/19/2017	GW171019576			PP/B	16.54	DRY	0754	0803	6.5M/G	1.3	DFB	3	0	0	0	0	0	Y	NA	
577	425	163184	4/12/2017	GW170412577			2"SP/LINE	50.81	206.25	1317	1412	1.5GPM	83.0	DFB	3	0	0	0	0	0	N	NA	
577	429	163539	10/20/2017	GW171020577			2"SP/LINE	35.57	208.12	0937	1022	2GPM	90.0	DFB	3	0	0	0	0	0	N	NA	
579	428	163442	5/8/2017	GW170508579			2"SP/LINE	52.46	54.80	0814	0903	2GPM	97.0	DFB	3	0	0	0	0	0	N	NA	
580	428	163428	5/2/2017	GW170502580			PP/B	15.71	DRY	0912	0916	2M/G	1.5	DFB	3	0	1	1	1	0	Y	NA	
581	428	163403	4/19/2017	GW170419581			PP/B	12.52	12.59	1102	1114	1.5M/G	7.9	DFB	3	0	1	1	0	0	N	NA	
600	426	163233	4/10/2017	GW170410600			PP/B	14.83	15.53	1042	1057	6M/G	2.5	JAR	3	0	0	0	0	0	N	NA	
601	425	163176	4/11/2017	GW170411601			2"SP/LINE	33.29	37.13	1051	1116	2GPM	50.0	DFB	3	0	0	0	0	0	N	NA	
601	430	163602	10/19/2017	GW171019601			2"SP/LINE	38.00	45.12	1243	1259	3GPM	48.0	JAR	3	0	0	0	0	0	N	NA	
602	426	163235	4/10/2017	GW170410602			B/B	5.13	14.95	1154	1206	NA	8.5	JAR	3	0	0	0	0	0	N	NA	
603	426	163236	4/10/2017	GW170410603			B/B	6.11	24.56	1228	1242	NA	9.5	JAR	3	0	0	0	0	0	N	NA	
604	425	163195	4/17/2017	GW170417604			2"SP/LINE	71.25	83.74	0933	1006	1GPM	33.0	DFB	3	0	0	0	0	0	N	NA	
607	425	163186	4/13/2017	GW170413607			BP/LINE	80.54	82.44	1041	1120	2.1M/G	18.4	DFB	3	0	0	0	0	0	N	ND/ND	
607	429	163537	10/19/2017	GW171019607			BP/LINE	66.42	67.97	1241	1324	1.7M/G	25.0	DFB	3	0	0	0	0	0	N	ND/ND	
609	428	163438	5/4/2017	GW170504609			2"SP/LINE	90.94	110.08	1317	1352	2GPM	69.0	DFB	3	0	0	0	0	0	N	NA	
609	429	163544	10/23/2017	GW171023609			2"SP/LINE	71.53	89.97	1307	1347	2GPM	79.0	DFB	3	0	0	0	0	0	N	NA	
610	425	163185	4/13/2017	GW170413610			2"SP/LINE	95.83	99.23	0937	0958	2GPM	41.0	DFB	3	0	0	0	0	0	N	ND/ND	
610	429	163542	10/23/2017	GW171023610			2"SP/LINE	74.43	78.18	0914	0940	2GPM	51.0	DFB	3	0	0	0	0	0	N	ND/ND	
611	428	163459	5/11/2017	GW170511611			2"SP/LINE	57.69	76.31	0932	1010	2GPM	76.0	DFB	3	0	0	0	0	0	N	NA	
612	425	163111	1/10/2017	GW170110612			SP/TAP	17.03	24.88	0838	0938	1.2M/G	65.0	DFB	3	0	0	0	0	0	N	NA	
612	425	163160	4/6/2017	GW170406612			SP/TAP	15.49	23.64	1034	1118	1.2GPM	73.0	DFB	3	0	0	0	0	0	N	NA	
612	428	163423	5/1/2017	GW170501612			SP/TAP	15.88	23.65	1048	1151	1GPM	68.0	DFB	3	0	0	0	0	0	N	NA	
612	428	163489	7/7/2017	GW170707612			SP/TAP	16.18	24.97	1010	1114	1GPM	69.0	DFB	3	0	0	0	0	0	N	NA	
612	429	163519	10/17/2017	GW171017612			2"SP/LINE	17.16	23.67	0814	0949	0.7GPM	66.0	DFB	3	0	0	0	0	0	N	NA	
617	425	163110	1/10/2017	GW170110617			SP/TAP	17.28	17.88	0923	0959	2.2GPM	80.0	DFB	3	0	0	0	0	0	N	NA	
617	425	163156	4/5/2017	GW170405617			SP/TAP	15.77	16.84	1231	1310	3.1GPM	110.0	DFB	3	0	0	0	0	0	N	NA	
617	428	163490	7/7/2017	GW170707617			SP/TAP	16.56	18.19	1041	1059	5GPM	90.0	DFB	3	0	0	0	0	0	N	NA	
617	429	163520	10/17/2017	GW171017617			2"SP/LINE	17.55	19.28	0826	0844	5GPM	90.0	DFB	3	0	0	0	0	0	N	NA	
618	425	163109	1/10/2017	GW170110618			SP/TAP	9.61	22.44	0826	0912	2.8GPM	133.0	DFB	3	0	0	0	0	0	N	NA	

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618	426	163239	4/18/2017	GW170418618			SP/TAP	8.90	20.68	1051	1142	2.6GPM	130.0	DFB	3	0	0	0	0	0	N	NA	
618	428	163488	7/7/2017	GW170707618			SP/TAP	9.07	19.68	0911	0955	2.5GPM	106.0	DFB	3	0	0	0	0	0	N	NA	
618	429	163527	10/18/2017	GW171018618			2"SP/LINE	10.33	15.78	0830	1016	1.1GPM	106.0	DFB	3	0	0	0	0	0	N	NA	
622	428	163437	5/4/2017	GW170504622			2"SP/LINE	48.41	162.13	1113	1235	1GPM	82.0	DFB	3	0	0	0	0	0	N	NA	
622	429	163543	10/23/2017	GW171023622			2"SP/LINE	48.34	192.81	1019	1129	1.2GPM	82.0	DFB	3	0	0	0	0	0	N	NA	
623	428	163458	5/11/2017	GW170511623	NR170511315		2"SP/LINE	80.48	87.13	0752	0833	3GPM	124.0	DFB	6	0	0	0	0	0	N	ND/ND	QC DUPLICATE 315
623	430	163617	10/25/2017	GW171025623	NR171025313		2"SP/B	72.10	74.55	0958	1035	3.5GPM	130.0	JAR	6	0	0	0	0	0	N	ND/ND	QC DUPLICATE 313
624	428	163460	5/11/2017	GW170511624			2"SP/LINE	59.17	116.48	1051	1140	3GPM	146.0	DFB	3	0	0	0	0	0	N	NA	
624	430	163616	10/25/2017	GW171025624			2"SP/LINE	52.90	101.06	0757	0908	2.1GPM	150.0	JAR	3	0	0	0	0	0	N	NA	
627	425	163114	1/10/2017	GW170110627			B/B	17.74	18.17	1143	1147	NA	0.5	DFB	3	0	0	0	0	0	N	NA	
627	425	163158	4/6/2017	GW170406627			PP/B	16.47	18.24	0834	0842	7M/G	1.1	DFB	3	0	1	1	1	0	N	NA	
627	428	163491	7/7/2017	GW170707627			PP/B	17.36	18.22	1253	1258	NA	0.6	DFB	3	0	0	0	0	0	N	NA	
627	429	163517	10/17/2017											DFB									NO SAMPLE, DRY WELL
627	430	163626	11/1/2017											JAR									NO SAMPLE, DRY WELL
627	429	163564	12/1/2017											DFB									NO SAMPLE, DRY WELL
628	425	163115	1/10/2017	GW170110628			SP/TAP	8.64	10.04	1211	1231	0.4GPM	220.0	DFB	3	0	0	0	0	0	N	NA	
628	425	163151	4/5/2017	GW170405628			SP/TAP	3.22	4.27	0805	0824	0.2GPM	210.0	DFB	3	0	0	0	0	0	N	NA	
628	428	163478	7/6/2017	GW170706628			SP/TAP	12.02	13.07	0833	0854	0.3GPM	200.0	DFB	3	0	0	0	0	0	N	NA	
628	429	163509	10/16/2017	GW171016628			SP/TAP	17.48	19.51	0815	0844	9.8GPM	290.0	DFB	3	0	0	0	0	0	N	NA	
640	425	163190	4/14/2017	GW170414640			B/B	11.73	DRY	0959	1003	NA	2.2	DFB	3	0	0	0	0	0	Y	ND/ND	
640	429	163530	10/18/2017	GW171018640			B/B	14.41	19.88	1244	1247	NA	1.3	DFB	3	0	0	0	0	0	Y	ND/ND	
701	425	163192	4/14/2017	GW170414701			B/B	7.93	8.08	1213	1220	NA	5.8	DFB	3	0	1	1	0	0	N	NA	
702	425	163168	4/7/2017	GW170407702			B/B	8.72	9.09	1226	1232	NA	4.3	DFB	3	0	0	0	0	0	N	NA	
702	429	163525	10/17/2017	GW171017702			B/B	10.34	17.21	1219	1224	NA	2.0	DFB	3	0	0	0	0	0	Y	NA	
706	428	163411	4/21/2017	GW170421706			BP/LINE	20.61	24.22	1134	1152	1.5M/G	12.0	DFB	3	0	0	0	1	0	N	ND/ND	
706	429	163536	10/19/2017	GW171019706			BP/LINE	22.21	26.14	1114	1142	2.5M/G	11.0	DFB	3	0	0	0	0	0	N	ND/ND	
711	428	163439	5/5/2017	GW170505711			2"SP/LINE	20.42	72.05	0818	1225	6GPM	1480.0	DFB	3	0	0	0	0	0	N	NA	
714	423	162999	1/10/2017	GW170110714			B/B	33.78	36.80	1040	1048	NA	1.0	JAR	3	0	0	0	0	0	Y	ND/ND	
714	425	163163	4/7/2017	GW170407714			B/B	27.12	34.21	0809	0818	NA	4.9	DFB	3	0	0	0	0	0	N	ND/ND	
714	429	163522	10/17/2017	GW171017714			B/B	32.71	36.87	1008	1013	NA	1.7	DFB	3	0	0	0	0	0	Y	ND/ND	
716	428	163416	4/28/2017	GW170428716			2"SP/LINE	79.13	85.48	0829	0959	2GPM	180.0	DFB	3	0	0	0	0	0	N	ND/ND	
716	429	163545	10/24/2017	GW171024716			2"SP/LINE	62.82	66.82	0808	1029	1.5GPM	211.0	DFB	3	0	0	0	0	0	N	ND/ND	
720	428	163452	5/9/2017	GW170509720			2"SP/LINE	26.93	27.64	1321	1334	1GPM	12.6	DFB	3	0	0	0	0	0	N	NA	
720	426	163298	10/19/2017	GW171019720			2"SP/LINE	30.28	39.10	0835	0901	2GPM	12.0	JAR	3	0	0	0	0	0	N	NA	
722	428	163448	5/9/2017	GW170509722			2"SP/LINE	10.98	19.76	0814	1229	6GPM	1528.0	DFB	3	0	0	0	0	0	N	NA	
732	428	163464	5/12/2017	GW170512732	NR170512316		2"SP/LINE	81.91	89.52	1203	1308	5GPM	324.0	DFB	6	0	0	0	0	0	N	ND/ND	QC DUPLICATE 316
732	430	163618	10/26/2017	GW171026732			2"SP/B	68.46	74.45	0743	0911	4GPM	352.0	JAR	3	0	0	0	0	0	N	ND/ND	
734	428	163415	4/27/2017	GW170427734			2"SP/LINE	93.18	100.71	1315	1346	2GPM	61.0	DFB	3	0	0	0	0	0	N	NA	
734	429	163547	10/25/2017	GW171025734			2"SP/LINE	73.18	78.61	0823	0858	2GPM	70.0	DFB	3	0	0	0	0	0	N	NA	
735	425	163126	1/12/2017	GW170112735			B/B	19.94	24.99	1118	1123	NA	1.1	DFB	3	0	0	0	0	0	Y	ND/ND	
735	425	163157	4/6/2017	GW170406735			B/B	17.72	24.91	0811	0815	NA	1.5	DFB	3	0	1	1	1	0	Y	ND/ND	
735	428	163495	7/10/2017	GW170710735			B/B	18.54	24.91	1105	1109	NA	1.6	DFB	3	0	0	0	0	0	Y	ND/ND	
735	429	163518	10/17/2017	GW171017735			B/B	20.08	24.62	0756	0759	NA	1.0	DFB	3	0	0	0	0	0	Y	ND/ND	
737	425	163183	4/12/2017	GW170412737			2"SP/LINE	80.16	84.50	1129	1223	1GPM	54.0	DFB	3	0	0	0	0	0	N	NA	
737	429	163541	10/23/2017	GW171023737			2"SP/LINE	63.02	79.02	0811	0842	2GPM	62.0	DFB	3	0	0	0	0	0	N	NA	
739	428	163461	5/11/2017	GW170511739			2"SP/LINE	73.16	78.29	1228	1323	5GPM	275.0	DFB	3	0	0	0	0	0	N	NA	
740	425	163116	1/10/2017											DFB									NO SAMPLE, DRY WELL
740	424	163094	2/28/2017											CES									NO SAMPLE, DRY WELL
740	425	163143	3/20/2017											DFB									NO SAMPLE, DRY WELL
740	426	163225	4/7/2017	GW170407740			PP/B	23.36	DRY	0808	0811	NA	0.3	JAR	3	0	1	1	1	0	Y	NA	
740	428	163486	7/7/2017	GW170707740			PP/B	22.14	DRY	0758	0805	NA	0.9	DFB	3	0	0	0	0	0	Y	NA	
740	426	163286	10/17/2017	GW171017740			PP/B	23.33	DRY	1032	1035	NA	0.3	JAR	3	0	0	0	0	0	Y	NA	

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WELL	BOOK NO	PAGE NO	DATE	SAMPLE ID	QC_ORG	QC_373_KIT	EQUIP ID	DTW BP	DTW AP	START PURGE	END PURGE	RATE	VOL PURGE	SAMPLER ID	GW VOA	PW VOA	F METALS	U METALS	FLUORIDE	SPECIAL	PUMPED DRY	PID	COMMENTS
742	426	163242	4/20/2017	GW170420742			2"SP/LINE	73.40	79.59	1147	1331	2.8GPM	291.2	JAR	3	0	0	0	0	0	N	NA	
742	430	163615	10/24/2017	GW171024742			2"SP/LINE	60.64	67.02	1212	1254	3.1GPM	316.2	JAR	3	0	0	0	0	0	N	NA	
743	428	163430	5/2/2017	GW170502743			PP/B	13.29	16.31	1227	1247	6.5M/G	3.0	DFB	3	0	0	0	0	0	N	NA	
744	425	163189	4/14/2017	GW170414744			B/B	6.44	6.55	0912	0923	NA	11.0	DFB	3	0	0	0	0	0	N	NA	
744	429	163529	10/18/2017	GW171018744			B/B	9.48	10.22	1142	1152	NA	9.2	DFB	3	0	0	0	0	0	N	NA	
745	425	163188	4/14/2017	GW170414745			PP/B	6.97	13.42	0843	0905	6M/G	3.6	DFB	3	0	0	0	0	0	N	NA	
751	428	163433	5/3/2017	GW170503751			PP/B	12.79	DRY	0842	0846	NA	0.7	DFB	3	0	0	0	0	0	Y	NA	
753	428	163432	5/3/2017	GW170503753			PP/B	11.24	DRY	0815	0823	5M/G	1.5	DFB	3	0	0	0	0	0	Y	NA	
754	428	163405	4/20/2017	GW170420754			PP/B	12.74	15.51	0828	0848	1GPM	20.0	DFB	3	0	1	1	0	0	N	NA	
755	428	163406	4/20/2017	GW170420755			PP/B	7.43	19.09	0941	1012	1GPM	31.0	DFB	3	0	0	0	0	0	N	NA	
755	429	163526	10/18/2017	GW171018755			PP/B	9.28	13.97	0801	1032	5.6M/G	27.0	DFB	3	0	0	0	0	0	N	NA	
756	425	163117	1/11/2017	GW170111756			B/B	17.68	19.68	0839	0849	NA	1.9	DFB	3	0	0	0	0	0	Y	NA	
756	428	163429	5/2/2017	GW170502756			PP/B	10.03	DRY	0946	0957	1GPM	10.6	DFB	3	0	0	0	0	0	Y	NA	
757	425	163113	1/10/2017	GW170110757			B/B	6.74	6.98	1044	1050	NA	6.5	DFB	3	0	0	0	0	0	N	NA	
757	428	163404	4/19/2017	GW170419757			PP/B	5.98	7.49	1308	1318	1.5M/G	6.9	DFB	3	0	0	0	0	0	N	NA	
757	428	163482	7/6/2017	GW170706757			B/B	7.42	7.46	1125	1130	NA	6.2	DFB	3	0	0	0	0	0	N	NA	
757	429	163516	10/16/2017	GW171016757	NR171016314		B/B	8.08	8.51	1346	1353	NA	5.9	DFB	6	0	0	0	0	0	N	NA	QC DUPLICATE 314
761	425	163166	4/7/2017	GW170407761			B/B	11.04	25.12	1019	1034	NA	10.4	DFB	3	0	1	1	0	0	N	NA	
763	425	163165	4/7/2017	GW170407763			B/B	27.89	48.91	0940	0949	NA	4.7	DFB	3	0	1	1	0	0	Y	NA	
766	426	163207	1/12/2017	GW170112766	NR170112312		B/B	22.20	22.34	1042	1047	NA	2.6	JAR	6	0	0	0	0	0	N	NA	QC DUPLICATE 312
766	426	163224	4/6/2017	GW170406766			B/B	21.52	21.77	1407	1417	NA	2.0	JAR	3	0	1	1	1	0	N	NA	
766	428	163485	7/6/2017	GW170706766			B/B	21.14	21.22	1334	1340	NA	2.1	DFB	3	0	0	0	0	0	N	NA	
766	426	163280	10/17/2017	GW171017766	NR171017315		B/B	21.44	21.62	0759	0807	NA	2.0	JAR	6	0	0	0	0	0	N	NA	QC DUPLICATE 315
767	425	163122	1/12/2017	GW170112767			PP/B	15.54	15.74	0830	0839	6.5M/G	1.4	DFB	3	0	0	0	0	0	N	ND/ND	
767	426	163226	4/7/2017	GW170407767			PP/B	14.75	14.91	0852	0904	6M/G	2.0	JAR	3	0	1	1	1	0	N	ND/ND	
767	428	163492	7/10/2017	GW170710767			PP/B	14.38	14.64	0837	0849	6.5M/G	1.9	DFB	3	0	0	0	0	0	N	ND/ND	
767	426	163279	10/17/2017	GW171017767			PP/B	14.85	14.95	0723	0749	7M/G	2.0	JAR	3	0	0	0	0	0	N	ND/ND	
768	425	163123	1/12/2017	GW170112768			PP/B	16.91	16.98	0855	0915	7M/G	2.8	DFB	3	0	0	0	0	0	N	ND/ND	
768	425	163162	4/6/2017	GW170406768		NR170406311	PP/B	16.03	16.17	1258	1319	6.5M/G	3.2	DFB	6	0	2	2	2	0	N	ND/ND	QC DUPLICATE 311
768	428	163493	7/10/2017	GW170710768			PP/B	15.64	15.73	0906	0930	7M/G	3.4	DFB	3	0	0	0	0	0	N	ND/ND	
768	426	163284	10/17/2017	GW171017768			PP/B	16.37	16.37	0938	1003	7M/G	3.5	JAR	3	0	0	0	0	0	N	ND/ND	
769	425	163125	1/12/2017	GW170112769			PP/B	20.91	21.49	1010	1033	7.8M/G	2.9	DFB	3	0	0	0	0	0	N	NA	
769	425	163159	4/6/2017	GW170406769			PP/B	19.79	20.28	0921	0945	7M/G	3.4	DFB	3	0	1	1	1	0	N	NA	
769	428	163487	7/7/2017	GW170707769			PP/B	19.60	20.07	0817	0842	7M/G	3.5	DFB	3	0	0	0	0	0	N	NA	
769	426	163285	10/17/2017	GW171017769			PP/B	20.45	20.99	1048	1113	7M/G	3.5	JAR	3	0	0	0	0	0	N	NA	
771	425	163124	1/12/2017	GW170112771			PP/B	15.86	17.81	0936	0945	6.5M/G	1.4	DFB	3	0	0	0	0	0	N	NA	
771	425	163161	4/6/2017	GW170406771			PP/B	15.42	17.94	1216	1226	6M/G	1.6	DFB	3	0	1	1	0	0	N	NA	
771	428	163494	7/10/2017	GW170710771			PP/B	15.41	17.66	1004	1018	8.6M/G	1.6	DFB	3	0	0	0	0	0	N	NA	
771	426	163283	10/17/2017	GW171017771			PP/B	16.65	17.74	0916	0922	6M/G	1.0	JAR	3	0	0	0	0	0	N	NA	
772	426	163208	1/12/2017	GW170112772			B/B	9.86	10.69	1119	1124	NA	4.5	JAR	3	0	0	0	0	0	N	NA	
772	426	163222	4/6/2017	GW170406772			B/B	8.82	9.67	1247	1256	NA	5.0	JAR	3	0	1	1	0	0	N	NA	
772	428	163484	7/6/2017	GW170706772			B/B	8.99	9.75	1311	1317	NA	4.7	DFB	3	0	0	0	0	0	N	NA	
772	426	163282	10/17/2017	GW171017772			B/B	10.05	10.60	0847	0854	NA	4.5	JAR	3	0	0	0	0	0	N	NA	
773	423	162996	1/10/2017	GW170110773			B/B	15.74	18.05	0914	0924	NA	6.5	JAR	3	0	0	0	0	0	N	NA	
773	426	163223	4/6/2017	GW170406773			B/B	14.30	16.17	1327	1338	NA	7.0	JAR	3	0	1	1	0	0	N	NA	
773	428	163483	7/6/2017	GW170706773	NR170706313		B/B	14.88	16.26	1224	1233	NA	6.7	DFB	6	0	0	0	0	0	N	NA	QC DUPLICATE 313
773	429	163521	10/17/2017	GW171017773			B/B	15.93	16.81	0852	0901	NA	6.2	DFB	3	0	0	0	0	0	N	NA	
774	425	163171	4/10/2017	GW170410774			BP/LINE	12.49	12.82	1314	1327	1.5M/G	8.5	DFB	3	0	1	1	0	0	N	NA	
774	429	163550	10/26/2017	GW171026774			BP/LINE	14.59	21.17	1051	1106	2M/G	7.4	DFB	3	0	0	0	0	0	N	NA	
775	425	163172	4/10/2017	GW170410775			BP/LINE	13.81	14.32	1347	1359	1.5M/G	8.0	DFB	3	0	1	1	0	0	N	NA	
777	425	163174	4/11/2017	GW170411777			2"SP/LINE	18.17	21.42	0927	0954	2GPM	54.0	DFB	3	0	0	0	0	0	N	NA	
777	429	163540	10/20/2017	GW171020777			2"SP/LINE	32.36	35.20	1234	1258	2GPM	47.0	DFB	3	0	0	0	0	0	N	NA	

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WELL	BOOK NO	PAGE NO	DATE	SAMPLE ID	QC_ORG	QC_373_KIT	EQUIP ID	DTW BP	DTW AP	START PURGE	END PURGE	RATE	VOL PURGE	SAMPLER ID	GW VOA	PW VOA	F METALS	U METALS	FLUORIDE	SPECIAL	PUMPED DRY	PID	COMMENTS
779	425	163173	4/11/2017	GW170411779			2"SP/LINE	72.23	75.43	0821	0900	2GPM	77.0	DFB	3	0	0	0	0	0	N	NA	
779	429	163549	10/26/2017	GW171026779			BP/LINE	62.68	63.96	0818	1029	1.6M/G	82.0	DFB	3	0	0	0	0	0	N	NA	
789	426	163228	4/7/2017	GW170407789			B/B	9.29	13.92	1147	1157	NA	6.0	JAR	3	0	1	1	0	0	N	NA	
791	426	163229	4/7/2017	GW170407791			B/B	12.42	13.54	1218	1226	NA	5.0	JAR	3	0	1	1	0	0	N	NA	
792	426	163230	4/7/2017	GW170407792		NR170407312	B/B	11.34	16.92	1104	1111	NA	5.0	JAR	6	0	2	2	0	0	N	NA	QC DUPLICATE 312
793	426	163209	1/12/2017	GW170112793			B/B	21.46	28.45	1218	1230	NA	4.0	JAR	3	0	0	0	0	0	N	NA	
793	426	163227	4/7/2017	GW170407793			B/B	20.50	27.68	1032	1039	NA	4.5	JAR	3	0	1	1	1	0	N	NA	
793	428	163496	7/10/2017	GW170710793			B/B	20.81	28.79	1129	1137	NA	3.8	DFB	3	0	0	0	0	0	Y	NA	
793	426	163281	10/17/2017	GW171017793			B/B	21.10	25.90	0822	0831	NA	4.0	JAR	3	0	0	0	0	0	N	NA	
832	428	163402	4/19/2017	GW170419832			PP/B	18.19	20.41	1014	1023	1.5M/G	5.9	DFB	3	0	0	0	0	0	N	NA	
857	426	163202	1/11/2017	GW170111857			2"SP/LINE	-2.00	97.96	1040	1152	3GPM	216.0	JAR	3	0	0	0	0	0	N	NA	
857	426	163220	4/6/2017	GW170406857			2"SP/B	-2.00	98.67	1038	1226	2GPM	216.0	JAR	3	0	0	0	0	0	N	NA	
857	426	163254	7/7/2017	GW170707857			2"SP/LINE	-2.00	NR	0919	1108	2GPM	216.0	JAR	3	0	0	0	0	0	N	NA	
857	426	163276	10/16/2017	GW171016857			2"SP/LINE	7.67	NA	1205	1345	2GPM	200.0	JAR	3	0	0	0	0	0	N	NA	
858	426	163203	1/11/2017	GW170111858			2"SP/LINE	-2.00	109.88	0807	1033	2GPM	312.0	JAR	3	0	0	0	0	0	N	NA	
858	426	163221	4/6/2017	GW170406858			2"SP/LINE	-2.00	111.14	0759	1025	2GPM	312.0	JAR	3	0	0	0	0	0	N	NA	
858	426	163253	7/7/2017	GW170707858			2"SP/LINE	2.47	123.67	0753	0910	4GPM	308.0	JAR	3	0	0	0	0	0	N	NA	
858	426	163273	10/16/2017	GW171016858			2"SP/LINE	7.34	NA	0916	1146	2GPM	300.0	JAR	3	0	0	0	0	0	N	NA	
921	428	163454	5/10/2017	GW170510921			2"SP/LINE	11.93	74.27	0843	0956	2GPM	145.0	DFB	3	0	0	0	0	0	N	NA	
921	430	163610	10/23/2017	GW171023921			2"SP/LINE	21.52	DRY	0905	0924	2.6GPM	50.0	JAR	3	0	0	0	0	0	Y	NA	
922	428	163453	5/10/2017	GW170510922	NR170510317		2"SP/LINE	14.51	111.79	0803	0839	2GPM	72.0	DFB	6	0	0	0	0	0	Y	NA	QC DUPLCIATE 317
922	430	163609	10/23/2017	GW171023922			2"SP/LINE	32.46	DRY	0814	0849	1.7GPM	60.0	JAR	3	0	0	0	0	0	Y	NA	
923	428	163445	5/8/2017	GW170508923			2"SP/LINE	30.19	112.07	1136	1239	1GPM	63.0	DFB	3	0	0	0	0	0	N	ND/ND	
923	430	163611	10/23/2017	GW171023923			2"SP/LINE	36.04	>100	1007	1102	1.1GPM	60.0	JAR	3	0	0	0	0	0	N	ND/ND	
929	428	163444	5/8/2017	GW170508929			2"SP/LINE	78.79	80.02	1036	1112	1GPM	36.0	DFB	3	0	0	0	0	0	N	ND/ND	
929	430	163608	10/20/2017	GW171020929			2"SP/LINE	67.78	69.34	1258	1326	1.5GPM	42.0	JAR	3	0	0	0	0	0	N	ND/ND	
931	428	163418	4/28/2017	GW170428931			2"SP/LINE	70.18	74.64	1226	1306	4GPM	159.0	DFB	3	0	0	0	0	0	N	ND/ND	
931	430	163612	10/23/2017	GW171023931			2"SP/LINE	61.36	65.58	1128	1225	3.2GPM	180.0	JAR	3	0	0	0	0	0	N	ND/ND	
932	426	163241	4/20/2017	GW170420932			2"SP/LINE	13.23	163.70	0820	1124	1.7GPM	312.8	JAR	3	0	0	0	0	0	N	NA	
932	430	163614	10/24/2017	GW171024932			2"SP/LINE	21.70	>100	0738	1109	1.4GPM	295.4	JAR	3	0	0	0	0	0	N	NA	
941	428	163417	4/28/2017	GW170428941			2"SP/LINE	85.92	88.82	1045	1132	2GPM	94.0	DFB	3	0	0	0	0	0	N	ND/ND	
941	429	163546	10/24/2017	GW171024941			2"SP/LINE	72.31	75.09	1208	1308	2GPM	120.0	DFB	3	0	0	0	0	0	N	ND/ND	
943	428	163414	4/27/2017	GW170427943			2"SP/LINE	6.94	34.58	1116	1201	6GPM	267.0	DFB	3	0	0	0	0	0	N	NA	
943	426	163290	10/18/2017	GW171018943			2"SP/LINE	13.89	32.08	0922	1013	5GPM	255.0	JAR	3	0	0	0	0	0	N	NA	
944	425	163200	4/17/2017	GW170417944			2"SP/LINE	3.04	61.32	1356	1418	6GPM	134.0	DFB	3	0	0	0	0	0	N	NA	
944	426	163291	10/18/2017	GW171018944			2"SP/LINE	11.41	59.20	1019	1049	4GPM	120.0	JAR	3	0	0	0	0	0	N	NA	
952	428	163441	5/5/2017	GW170505952			2"SP/LINE	50.97	71.40	1116	1340	2GPM	287.0	DFB	3	0	1	1	0	0	N	NA	
952	430	163623	11/1/2017	GW171101952			2"SP/LINE	44.05	61.63	0819	0959	3GPM	300.0	JAR	3	0	0	0	0	0	N	NA	
953	428	163443	5/8/2017	GW170508953			2"SP/LINE	80.63	92.79	0923	1010	3GPM	141.0	DFB	3	0	0	0	0	0	N	ND/ND	
953	429	163548	10/25/2017	GW171025953			2"SP/LINE	74.24	79.82	1136	1330	1.3GPM	154.0	DFB	3	0	0	0	0	0	N	ND/ND	
954	428	163440	5/5/2017	GW170505954	NR170505318		2"SP/LINE	30.21	146.08	0921	0958	3GPM	111.0	DFB	6	0	0	0	0	0	Y	ND/ND	QC DUPLICATE 318
954	430	163607	10/20/2017	GW171020954			2"SP/LINE	36.10	DRY	1013	1051	2.6GPM	100.0	JAR	3	0	0	0	0	0	Y	ND/0.1	
956	428	163457	5/10/2017	GW170510956			2"SP/LINE	21.33	102.91	1338	1411	2GPM	66.0	DFB	3	0	0	0	0	0	Y	ND/ND	
956	430	163606	10/20/2017	GW171020956			2"SP/LINE	30.31	DRY	0941	1007	2.1GPM	55.0	JAR	3	0	0	0	0	0	Y	ND/ND	
958	428	163462	5/12/2017	GW170512958			2"SP/LINE	2.10	95.98	0930	1004	3GPM	102.0	DFB	3	0	0	0	0	0	Y	NA	
958	429	163562	11/13/2017	GW171113958	NR171113317		2"SP/B	5.53	103.46	0956	1035	2GPM	78.0	DFB	6	0	0	0	0	0	Y	NA	QC DUPLICATE 317
959	428	163455	5/10/2017	GW170510959			2"SP/LINE	55.74	151.78	1050	1143	2GPM	106.0	DFB	3	0	1	1	0	0	Y	ND/ND	
959	430	163620	10/27/2017	GW171027959			2"SP/B	52.77	DRY	0758	0912	1GPM	74.0	JAR	3	0	0	0	0	0	Y	ND/ND	
960	428	163456	5/10/2017	GW170510960			2"SP/LINE	22.67	88.46	1213	1242	2GPM	58.0	DFB	3	0	1	1	0	0	Y	ND/ND	
960	430	163621	10/27/2017	GW171027960	NR171027316		2"SP/LINE	29.56	DRY	0923	0952	2.1GPM	60.0	JAR	6	0	0	0	0	0	Y	ND/ND	QC DUPLICATE 316
963	425	163198	4/17/2017	GW170417963			2"SP/LINE	4.53	66.51	1235	1314	2GPM	77.0	DFB	3	0	0	0	0	0	N	NA	
963	430	163603	10/20/2017	GW171020963			2"SP/LINE	7.75	94.02	0746	0812	3GPM	78.0	JAR	3	0	0	0	0	0	N	NA	

Sampling Field Log Database

WELL	BOOK NO	PAGE NO	DATE	SAMPLE ID	QC_ORG	QC_373_KIT	EQUIP ID	DTW BP	DTW AP	START PURGE	END PURGE	RATE	VOL PURGE	SAMPLER ID	GW VOA	PW VOA	F METALS	U METALS	FLUORIDE	SPECIAL	PUMPED DRY	PID	COMMENTS
964	425	163199	4/17/2017	GW170417964			2"SP/LINE	4.72	20.52	1321	1343	2GPM	43.0	DFB	3	0	0	0	0	0	N	NA	
964	430	163604	10/20/2017	GW171020964			2"SP/LINE	7.67	21.83	0820	0841	2GPM	44.0	JAR	3	0	0	0	0	0	N	NA	
965	428	163412	4/27/2017	GW170427965			2"SP/LINE	34.06	34.88	0834	0917	5GPM	216.0	DFB	3	0	0	0	0	0	N	NA	
966	428	163413	4/27/2017	GW170427966			2"SP/LINE	34.17	51.49	0955	1031	5GPM	180.0	DFB	3	0	0	0	0	0	N	NA	
966	430	163613	10/23/2017	GW171023966			2"SP/LINE	34.53	48.33	1257	1335	4.7GPM	180.0	JAR	3	0	0	0	0	0	N	NA	
987	426	163205	1/12/2017	GW170112987			2"SP/LINE	3.26	3.48	0937	1024	4GPM	188.0	JAR	3	0	0	0	0	0	N	NA	
987	426	163214	4/5/2017	GW170405987			2"SP/LINE	1.37	1.66	0844	0950	3GPM	198.0	JAR	3	0	0	0	0	0	N	NA	
987	426	163248	7/6/2017	GW170706987			2"SP/LINE	4.70	4.87	0913	1014	3GPM	183.0	JAR	3	0	0	0	0	0	N	NA	
987	429	163513	10/16/2017	GW171016987			2"SP/LINE	5.34	5.57	1158	1243	4GPM	178.0	DFB	3	0	0	0	0	0	N	NA	
990	426	163204	1/11/2017	GW170111990	NR170111313		2"SP/LINE	3.58	7.83	1253	1305	3GPM	36.0	JAR	6	0	0	0	0	0	N	NA	QC DUPLICATE 313
990	426	163215	4/5/2017	GW170405990	NR170405319		2"SP/LINE	2.50	6.99	0955	1009	6GPM	84.0	JAR	6	0	0	0	0	0	N	NA	QC DUPLICATE 319
990	426	163249	7/6/2017	GW170706990			2"SP/LINE	4.79	9.45	1022	1032	3GPM	33.0	JAR	3	0	0	0	0	0	N	NA	
990	429	163514	10/16/2017	GW171016990			2"SP/LINE	5.34	7.37	1250	1300	3GPM	30.0	DFB	3	0	0	0	0	0	N	NA	
998	425	163167	4/7/2017	GW170407998			B/B	7.91	18.12	1151	1204	NA	6.7	DFB	3	0	0	0	0	0	N	NA	
998	429	163524	10/17/2017	GW171017998			B/B	12.85	19.30	1047	1058	NA	4.3	DFB	3	0	0	0	0	0	N	NA	
999	425	163175	4/11/2017	GW170411999			2"SP/LINE	12.11	14.36	1027	1037	2GPM	20.0	DFB	3	0	0	0	0	0	N	NA	
999	426	163295	10/18/2017	GW171018999			2"SP/LINE	14.78	18.63	1336	1343	3GPM	21.0	JAR	3	0	0	0	0	0	N	NA	

Field Parameters Database

WELL	QC_ID	DATE	START SAMPLE	END SAMPLE	TEMP	PH	SPEC_COND	TURBIDITY	COMMENTS
007		4/10/2017	1226	1230	15.30	7.50	2903	6.15	
010		4/7/2017	0920	0924	14.00	7.09	2439	842	
010		10/17/2017	1142	1145	14.50	7.36	2665	260	
015	310	5/9/2017	1206	1210	12.20	7.67	1268	53.5	QC DUPLICATE 310
015		10/26/2017	1236	1239	17.40	7.09	3663	20.1	
016		4/12/2017	1047	1049	16.20	7.23	2340	2.67	
016		10/19/2017	1007	1008	16.50	7.37	1890	41.8	
032B		1/10/2017	1028	1030	12.30	7.58	936	19.0	
032B		4/13/2017	1325	1326	11.70	7.31	2946	11.0	
032B	310	7/6/2017	1110	1112	16.40	7.13	1771	1.93	QC DUPLICATE 310
032B		10/16/2017	1409	1410	18.10	7.63	1041	5.46	
046	310	1/10/2017	1226	1228	11.20	7.20	1438	4.57	QC DUPLICATE 310
046		4/19/2017	0929	0932	9.30	7.04	1323	54.2	
046		7/6/2017	0821	0824	12.40	6.74	1010	5.35	
046		10/16/2017	0831	0834	13.20	6.96	1026	48.4	
048		1/10/2017	1007	1008	8.70	7.16	1337	9.07	
048		4/5/2017	1050	1051	7.90	7.07	885	3.43	
048		7/6/2017	0900	0901	13.20	6.89	1347	62.9	
048		10/16/2017	0848	0849	13.80	7.07	1020	51.4	
053		4/10/2017	1129	1130	12.30	7.12	2380	73.4	
053		10/18/2017	1327	1330	15.60	7.27	1963	106	
054		4/12/2017	0939	0941	12.00	6.86	4128	4.34	
054		10/18/2017	1138	1139	13.90	7.52	2230	21.9	
059		4/17/2017	0841	0842	8.50	6.80	960	7.94	
060		4/17/2017	0908	0909	10.70	7.03	1073	45.1	
061		4/11/2017	1249	1250	9.00	7.40	1141	2.69	
064		1/11/2017	1237	1238	12.60	7.34	1299	13.4	
064		4/5/2017	0818	0819	11.50	7.21	1308	5.48	
064		7/6/2017	0801	0802	14.10	7.24	1264	7.81	
064		10/16/2017	0806	0807	15.20	6.85	2460	5.81	
065		1/10/2017	1313	1314	12.20	7.52	1894	2.02	
065		4/5/2017	0836	0837	12.50	7.36	1369	6.30	
065	311	7/6/2017	0827	0829	12.20	7.44	1157	12.3	QC DUPLICATE 311
065		10/16/2017	0823	0824	12.90	7.24	1530	7.32	
066		1/10/2017	0809	0810	4.70	6.81	1242	26.0	
066		4/5/2017	1228	1229	6.10	6.94	1738	145	
066		7/6/2017	1215	1216	18.30	6.89	1787	34.9	
066		10/16/2017	1409	1410	18.10	6.88	890	71.8	
067		1/10/2017	0905	0906	5.40	7.93	391	573	
067		4/5/2017	1248	1249	4.10	7.71	498	861	
067		7/6/2017	1235	1236	16.80	7.41	1023	1000	
067		10/16/2017	1430	1431	17.20	7.52	920	783	
068		1/10/2017	0842	0843	12.30	7.18	1801	80.3	
068		4/18/2017	1255	1257	11.50	7.54	1668	17.2	
068		7/7/2017	1251	1252	12.50	7.11	1521	56.9	
068	310	10/18/2017	1236	1238	13.50	7.43	1390	5.18	QC DUPLICATE 310
069		4/20/2017	1314	1316	11.20	7.37	1846	3.05	
085		4/17/2017	1139	1140	12.70	7.14	2918	128	
085		10/20/2017	0914	0915	12.40	7.54	2300	120	
087		4/17/2017	1055	1056	12.30	7.29	1165	2.51	
087		10/17/2017	1258	1259	12.30	7.16	950	0.87	
103		4/10/2017	1350	1351	10.50	7.96	785	19.8	
103		10/19/2017	1004	1007	18.10	7.54	405	108	
104		4/10/2017	1417	1418	16.90	7.86	3311	17.4	
104		5/2/2017	1024	1031	14.90	7.43	3084	62.2	

Field Parameters Database

WELL	QC_ID	DATE	START SAMPLE	END SAMPLE	TEMP	PH	SPEC_COND	TURBIDITY	COMMENTS
104		10/27/2017	1130	1131	14.10	8.03	2730	33.3	
105		4/12/2017	0952	0953	13.60	7.18	1662	15.0	
105		10/19/2017	0809	0910	13.40	7.71	1280	4.14	
106		5/9/2017	1252	1255	13.10	7.62	1702	12.5	
109		4/12/2017	1007	1008	13.40	7.26	1457	5.65	
109		10/19/2017	1131	1132	14.10	7.43	1180	0.63	
113		4/21/2017	1212	1213	11.30	7.32	1224	3.35	
113		10/18/2017	1316	1317	11.10	8.74	910	12.8	
118		5/8/2017	1512	1515	15.60	7.13	2149	7.34	
143		4/10/2017	1204	1207	13.70	7.43	1536	6.88	
146		4/11/2017	1221	1222	12.10	7.55	752	34.5	
151		4/14/2017	1044	1047	11.60	6.86	1321	860	
151		10/18/2017	1121	1124	17.30	7.02	1388	121	
156		5/3/2017	1224	1226	11.20	7.65	1344	44.7	
156	311	10/19/2017	0937	0938	10.10	7.58	1070	62.9	QC DUPLICATE 311
167		5/9/2017	1135	1137	11.90	7.15	639	41.0	
167		10/20/2017	1057	1100	11.70	7.46	665	8.64	
178		4/10/2017	0951	0952	15.10	7.20	13055	163	
181		4/21/2017	1320	1321	12.80	11.32	22963	307	QC DUPLICATE 313
181		10/19/2017	1400	1401	20.40	10.97	2320	34.6	
204		4/20/2017	1131	1135	11.40	7.48	1661	33.2	
210		1/3/2017	1011	1014	12.70	7.49	1046	2.43	
210		2/1/2017	1011	1013	12.40	7.46	1298	5.29	
210		3/1/2017	1005	1008	12.90	7.40	1051	1.02	
210		4/3/2017	1042	1045	13.00	7.23	1169	4.57	
210		5/1/2017	1027	1030	12.80	7.32	1201	2.98	
210		6/1/2017	0939	0942	14.10	6.96	1160	3.43	
210		7/5/2017	0942	0945	14.10	7.05	1136	2.23	
210		8/1/2017	0921	0924	15.10	7.13	1024	7.16	
210		9/1/2017	0937	0940	13.90	7.11	1188	3.62	
210		10/2/2017	1029	1032	13.40	7.10	970	3.82	
210		11/1/2017	0831	0833	12.40	6.96	1168	3.99	
210		12/1/2017	0907	0910	12.50	6.77	1167	1.61	
220		1/3/2017	0918	0920	14.20	7.28	1605	7.66	
220		2/1/2017	0936	0938	14.00	7.29	1657	4.56	
220		3/1/2017	0906	0908	14.30	7.15	1651	4.09	
220		4/3/2017	0954	0957	14.30	6.95	1780	12.4	
220		5/1/2017	0856	0858	14.20	6.98	1803	3.47	
220		6/1/2017	0959	1001	14.90	7.05	1712	4.12	
220		7/5/2017	0921	0923	15.10	6.03	1654	4.80	
220		8/1/2017	0938	0940	14.90	7.14	1524	381	
220		9/1/2017	0955	0957	14.60	7.14	1786	4.46	
220		10/2/2017	0937	0939	14.20	6.73	1438	5.59	
220		11/1/2017	0854	0856	14.00	6.97	1693	3.95	
220		12/1/2017	0929	0931	14.10	6.84	1700	1.17	
240		1/3/2017	0936	0938	12.60	7.40	1168	29.9	
240		2/1/2017	1031	1033	12.50	7.52	1194	12.3	
240		3/1/2017	0922	0924	12.70	7.31	1200	19.5	
240		4/3/2017	1013	1015	12.70	7.10	1291	23.5	
240		9/18/2017	0852	0854	13.50	7.18	1151	8.52	
300		1/3/2017							TRIP BLANK
300		1/10/2017							TRIP BLANK
300		1/12/2017							TRIP BLANK
300		2/1/2017							TRIP BLANK
300		3/1/2017							TRIP BLANK

Field Parameters Database

WELL	QC_ID	DATE	START SAMPLE	END SAMPLE	TEMP	PH	SPEC_COND	TURBIDITY	COMMENTS
300		4/3/2017							TRIP BLANK
300		4/5/2017							TRIP BLANK
300		4/6/2017							TRIP BLANK
300		4/10/2017							TRIP BLANK
300		4/12/2017							TRIP BLANK
300		4/14/2017							TRIP BLANK
300		4/17/2017							TRIP BLANK
300		4/19/2017							TRIP BLANK
300		4/21/2017							TRIP BLANK
300		4/27/2017							TRIP BLANK
300		5/1/2017							TRIP BLANK
300		5/2/2017							TRIP BLANK
300		5/4/2017							TRIP BLANK
300		5/8/2017							TRIP BLANK
300		5/10/2017							TRIP BLANK
300		5/12/2017							TRIP BLANK
300		6/1/2017							TRIP BLANK
300		7/5/2017							TRIP BLANK
300		7/6/2017							TRIP BLANK
300		7/10/2017							TRIP BLANK
300		8/1/2017							TRIP BLANK
300		9/1/2017							TRIP BLANK
300		9/18/2017							TRIP BLANK
300		10/2/2017							TRIP BLANK
300		10/16/2017							TRIP BLANK
300		10/18/2017							TRIP BLANK
300		10/20/2017							TRIP BLANK
300		10/23/2017							TRIP BLANK
300		10/25/2017							TRIP BLANK
300		11/1/2017							TRIP BLANK
300		11/13/2017							TRIP BLANK
300		12/1/2017							TRIP BLANK
302		1/10/2017							TRIP BLANK
302		1/12/2017							TRIP BLANK
302		4/4/2017							TRIP BLANK
302		4/6/2017							TRIP BLANK
302		4/10/2017							TRIP BLANK
302		4/20/2017							TRIP BLANK
302		7/6/2017							TRIP BLANK
302		10/16/2017							TRIP BLANK
302		10/18/2017							TRIP BLANK
302		10/20/2017							TRIP BLANK
302		10/23/2017							TRIP BLANK
302		10/25/2017							TRIP BLANK
302		10/27/2017							TRIP BLANK
302		11/1/2017							TRIP BLANK
303		1/10/2017							EQUIP. BLANK/WLID
303		1/11/2017							EQUIP. BLANK/WLID
303		1/12/2017							EQUIP. BLANK/WLID
303		4/4/2017							EQUIP. BLANK/WLID
303		4/5/2017							EQUIP. BLANK/WLID
303		4/6/2017							EQUIP. BLANK/WLID
303		4/7/2017							EQUIP. BLANK/WLID
303		4/10/2017							EQUIP. BLANK/WLID
303		4/11/2017							EQUIP. BLANK/WLID

Field Parameters Database

WELL	QC_ID	DATE	START SAMPLE	END SAMPLE	TEMP	PH	SPEC_COND	TURBIDITY	COMMENTS
303		4/12/2017							EQUIP. BLANK/WLID
303		4/13/2017							EQUIP. BLANK/WLID
303		4/14/2017							EQUIP. BLANK/WLID
303		4/17/2017							EQUIP. BLANK/WLID
303		4/18/2017							EQUIP. BLANK/WLID
303		4/19/2017							EQUIP. BLANK/WLID
303		4/20/2017							EQUIP. BLANK/WLID
303		4/21/2017							EQUIP. BLANK/WLID
303		4/27/2017							EQUIP. BLANK/WLID
303		4/28/2017							EQUIP. BLANK/WLID
303		5/2/2017							EQUIP. BLANK/WLID
303		5/3/2017							EQUIP. BLANK/WLID
303		5/4/2017							EQUIP. BLANK/WLID
303		5/5/2017							EQUIP. BLANK/WLID
303		5/8/2017							EQUIP. BLANK/WLID
303		5/9/2017							EQUIP. BLANK/WLID
303		5/10/2017							EQUIP. BLANK/WLID
303		7/6/2017							EQUIP. BLANK/WLID
303		7/7/2017							EQUIP. BLANK/WLID
303		7/10/2017							EQUIP. BLANK/WLID
303		10/16/2017							EQUIP. BLANK/WLID
303		10/17/2017							EQUIP. BLANK/WLID
303		10/18/2017							EQUIP. BLANK/WLID
303		10/19/2017							EQUIP. BLANK/WLID
303		10/20/2017							EQUIP. BLANK/WLID
303		10/23/2017							EQUIP. BLANK/WLID
303		10/24/2017							EQUIP. BLANK/WLID
303		10/25/2017							EQUIP. BLANK/WLID
303		10/26/2017							EQUIP. BLANK/WLID
303		10/27/2017							EQUIP. BLANK/WLID
303		11/1/2017							EQUIP. BLANK/WLID
304		11/13/2017							EQUIPMENT BLANK/SP125
305		5/11/2017							EQUIP. BLANK/SP#1
305		5/12/2017							EQUIP. BLANK/SP#2
323		1/12/2017	0904	0905	12.40	7.17	942	119	
323		4/5/2017	1130	1131	11.60	7.09	835	492	
323		7/6/2017	1322	1323	11.30	7.28	797	68.3	
323		10/16/2017	1106	1107	12.40	7.23	864	59.6	
325		1/3/2017	0952	0954	12.30	7.40	1275	7.25	
325		2/1/2017	0959	1001	12.00	7.33	1304	29.6	
325		3/1/2017	0939	0941	12.40	7.33	1297	2.23	
325		4/3/2017	1029	1031	12.50	7.10	1406	11.3	
325		5/1/2017	0954	0956	12.80	7.20	1416	18.3	
325		6/1/2017	1016	1018	13.40	7.14	1357	17.0	
325		7/5/2017	0855	0858	13.10	6.64	1300	28.7	
325		8/1/2017	0957	0959	13.20	7.22	1202	26.9	
325		9/1/2017	1019	1021	12.60	7.24	1400	5.95	
325		10/2/2017	1010	1012	12.30	6.93	1134	6.92	
325		11/1/2017	0916	0918	11.90	7.16	1337	18.5	
325		12/1/2017	1002	1004	12.10	6.98	1378	49.2	
395		1/3/2017	1046	1051	18.30	7.54	858	5.76	
395		2/1/2017	1051	1055	17.30	7.58	961	5.38	
395		3/1/2017	1041	1045	16.80	7.59	1051	5.25	
395		4/3/2017	1138	1142	16.70	7.49	1192	6.54	
395		5/1/2017	1234	1237	15.70	7.52	1758	3.26	

Field Parameters Database

WELL	QC_ID	DATE	START SAMPLE	END SAMPLE	TEMP	PH	SPEC_COND	TURBIDITY	COMMENTS
395		6/1/2017	1047	1051	16.20	7.39	1622	4.16	
395		7/5/2017	1019	1023	18.80	7.42	1741	6.54	
395		8/1/2017	1016	1020	18.70	7.48	1366	7.51	
395		9/1/2017	1056	1059	17.80	7.37	1674	7.24	
395		10/2/2017	1054	1057	19.30	7.21	1126	6.14	
395		11/1/2017	0959	1002	17.90	7.30	1236	1.87	
395		12/1/2017	1036	1040	19.70	7.15	1235	2.36	
395A		1/3/2017	1101	1105	20.60	7.68	707	1.62	
395A		2/1/2017	1100	1103	19.10	7.65	874	1.37	
395A		3/1/2017	1056	1059	19.20	7.59	1061	0.37	
395A		4/3/2017	1147	1150	19.90	7.46	1336	3.90	
395A		5/1/2017	1248	1251	20.20	7.37	1601	2.43	
395A		6/1/2017	1101	1104	20.30	7.44	1403	2.07	
395A		7/5/2017	1028	1031	24.80	7.29	1400	1.67	
395A		8/1/2017	1026	1029	22.10	7.48	1402	4.47	
395A		9/1/2017	1107	1110	20.30	7.44	1540	3.75	
395A		10/2/2017	1109	1112	21.30	7.34	1136	7.56	
395A		11/1/2017	1011	1014	18.50	7.32	1004	2.49	
395A		12/1/2017	1047	1050	19.50	7.21	1035	1.16	
395B		1/3/2017	1114	1117	17.50	8.29	811	1.99	
395B		2/1/2017	1108	1112	16.60	7.95	891	3.46	
395B		3/1/2017	1108	1111	18.90	7.76	1088	0.94	
395B		4/3/2017	1156	1159	17.00	7.66	1220	2.70	
395B		5/1/2017	1258	1301	18.60	7.64	1967	1.70	
395B		6/1/2017	1112	1115	18.70	7.67	1495	2.46	
395B		7/5/2017	1037	1040	24.30	7.43	1735	2.09	
395B		8/1/2017	1038	1041	22.90	7.60	1261	4.80	
395B		9/1/2017	1116	1119	20.00	7.57	1433	3.99	
395B		10/2/2017	1118	1121	19.40	7.41	1112	8.25	
395B		11/1/2017	1021	1024	17.50	7.47	1072	2.82	
395B		12/1/2017	1058	1102	17.10	7.33	1187	0.78	
502		5/2/2017	1358	1400	12.50	7.54	1838	6.98	
520		1/11/2017	1007	1010	12.50	6.97	1357	310	
520		4/5/2017	1101	1104	11.00	7.26	1595	85.9	
520		7/7/2017	0820	0821	12.80	7.37	1004	35.6	
520		10/16/2017	0938	0939	12.90	7.89	1230	554	
521		1/11/2017	1249	1252	11.50	7.56	3386	1000	
521		4/5/2017	1139	1142	10.80	7.37	815	38.3	
521		7/7/2017	1001	1002	13.20	7.64	2561	746	
521		10/16/2017	1011	1012	12.60	7.58	1040	>1000	
543	311	1/11/2017	0935	0938	9.30	6.76	1130	1.22	QC DUPLICATE 311
543		4/5/2017	0915	0918	8.00	7.12	667	5.37	
543		7/6/2017	0932	0935	12.70	6.96	970	1.22	
543		10/16/2017	0919	0922	13.70	7.15	1281	2.96	
545		1/11/2017	1116	1118	11.70	7.23	1138	12.1	
545		4/5/2017	0958	1000	10.50	7.17	778	6.28	
545	312	7/6/2017	1017	1020	10.60	7.01	1218	2.45	QC DUPLICATE 312
545	312	10/16/2017	1000	1002	11.50	7.20	1480	5.14	QC DUPLICATE 312
559		4/21/2017	1106	1109	10.90	6.97	1586	8.38	
559		10/19/2017	1039	1042	12.00	6.81	1542	3.09	
561	314	4/21/2017	1021	1025	11.10	6.95	1182	46.7	QC DUPLICATE 314
561		10/19/2017	1026	1029	11.40	6.80	1271	26.1	
563		5/3/2017	1111	1113	10.80	7.26	1366	53.8	
563		10/18/2017	0854	0855	11.20	7.04	1110	7.62	
564		5/3/2017	1131	1134	12.20	7.69	706	28.3	

Field Parameters Database

WELL	QC_ID	DATE	START SAMPLE	END SAMPLE	TEMP	PH	SPEC_COND	TURBIDITY	COMMENTS
564		10/18/2017	0907	0908	10.30	6.70	524	133	
571		1/24/2017							NO SAMPLE, DRY WELL
571		2/28/2017							NO SAMPLE, DRY WELL
571		3/20/2017							NO SAMPLE, DRY WELL
571		4/4/2017	1220	1221	8.20	7.38	1247	953	
572		5/12/2017	1056	1100	21.30	7.24	1695	11.9	
574		4/4/2017	1019	1020	18.00	6.99	3050	19.3	
576		4/10/2017	1030	1031	12.90	7.34	5325	101	
576		10/19/2017	0943	0946	17.10	6.78	7439	907	
577		4/12/2017	1414	1416	15.10	7.26	2849	31.6	
577		10/20/2017	1024	1025	13.70	7.22	3461	715	
579		5/8/2017	0904	0906	12.90	6.90	1672	121	
580		5/2/2017	1103	1111	12.70	7.32	3846	7.33	
581		4/19/2017	1117	1120	11.60	7.22	1429	9.84	
600		4/10/2017	1059	1100	11.70	6.80	5071	11.5	
601		4/11/2017	1117	1118	13.70	7.30	2067	1.38	
601		10/19/2017	1259	1300	12.70	8.06	1550	2.25	
602		4/10/2017	1209	1210	10.10	8.67	301	246	
603		4/10/2017	1245	1246	13.90	8.01	519	>1000	
604		4/17/2017	1007	1008	13.90	7.21	667	9.08	
607		4/13/2017	1122	1125	14.30	7.01	1120	54.4	
607		10/19/2017	1326	1329	15.60	7.00	1004	5.98	
609		5/4/2017	1355	1357	14.40	7.07	2906	223	
609		10/23/2017	1349	1351	14.10	7.34	2684	23.7	
610		4/13/2017	1001	1002	13.50	6.90	2865	23.7	
610		10/23/2017	0942	0943	14.30	7.23	2054	21.0	
611		5/11/2017	1016	1020	14.20	7.50	1917	9.36	
612		1/10/2017	0933	0935	10.50	7.34	2303	13.1	
612		4/6/2017	1116	1118	10.70	6.89	3162	11.0	
612		5/1/2017	1147	1149	14.20	7.10	3448	18.9	
612		7/7/2017	1111	1112	18.90	7.26	3310	5.54	
612		10/17/2017	0944	0946	20.00	6.88	3971	21.1	
617		1/10/2017	0954	0956	13.10	7.23	2943	0.96	
617		4/5/2017	1307	1310	12.80	7.18	3052	4.48	
617		7/7/2017	1055	1056	14.40	7.34	3261	2.47	
617		10/17/2017	0841	0842	14.70	6.92	3264	4.39	
618		1/10/2017	0908	0910	10.80	7.23	1414	0.46	
618		4/18/2017	1138	1140	11.40	7.15	1554	5.43	
618		7/7/2017	0952	0953	16.40	7.06	1518	3.51	
618		10/18/2017	1012	1013	17.20	7.12	1600	28.6	
622		5/4/2017	1238	1240	14.90	7.20	1136	7.16	
622		10/23/2017	1132	1135	13.90	7.42	1127	13.2	
623	315	5/11/2017	0843	0848	13.30	7.37	1758	69.2	QC DUPLICATE 315
623	313	10/25/2017	1047	1049	12.80	7.36	1350	7.64	QC DUPLICATE 313
624		5/11/2017	1143	1145	13.00	7.62	1002	6.92	
624		10/25/2017	0908	0909	13.20	7.13	800	2.35	
627		1/10/2017	1153	1157	15.20	7.08	2109	20.4	
627		4/6/2017	0858	0902	11.80	6.88	1525	2.30	
627		7/7/2017	1304	1308	16.10	6.88	1640	2.99	
627		10/17/2017							NO SAMPLE, DRY WELL
627		11/1/2017							NO SAMPLE, DRY WELL
627		12/1/2017							NO SAMPLE, DRY WELL
628		1/10/2017	1226	1228	11.20	6.79	1479	3.41	
628		4/5/2017	0819	0821	10.20	6.81	1251	3.92	
628		7/6/2017	0849	0850	12.80	6.90	1004	2.53	

Field Parameters Database

WELL	QC_ID	DATE	START SAMPLE	END SAMPLE	TEMP	PH	SPEC_COND	TURBIDITY	COMMENTS
628		10/16/2017	0841	0842	13.50	6.99	1062	8.01	
640		4/14/2017	1114	1117	13.10	7.07	1241	880	
640		10/18/2017	1409	1412	19.10	7.40	922	536	
701		4/14/2017	1224	1227	9.80	7.23	2603	339	
702		4/7/2017	1239	1242	7.70	7.43	1652	>1000	
702		10/17/2017	1341	1344	17.30	7.63	1486	1000	
706		4/21/2017	1154	1157	15.10	6.86	2746	6.89	
706		10/19/2017	1144	1146	15.90	6.76	2402	3.73	
711		5/5/2017	1226	1228	14.30	7.18	1794	19.0	
714		1/10/2017	1212	1213	13.90	7.46	2177	52.3	
714		4/7/2017	0824	0827	13.70	6.87	1842	66.2	
714		10/17/2017	1131	1134	13.20	7.16	2490	40.0	
716		4/28/2017	1002	1004	15.90	7.02	5701	132	
716		10/24/2017	1031	1033	15.50	7.17	5487	7.93	
720		5/9/2017	1336	1338	12.10	7.31	2620	7.98	
720		10/19/2017	0901	0902	12.80	7.17	1750	>1000	
722		5/9/2017	1230	1231	13.10	7.33	2233	6.22	
732	316	5/12/2017	1314	1318	15.70	7.46	1416	14.9	QC DUPLICATE 316
732		10/26/2017	0924	0925	15.20	7.50	900	7.11	
734		4/27/2017	1348	1350	15.70	7.30	2282	3.90	
734		10/25/2017	0900	0901	16.10	6.69	2203	2.60	
735		1/12/2017	1306	1309	15.30	7.34	2197	5.70	
735		4/6/2017	1007	1011	12.80	6.76	3896	16.0	
735		7/10/2017	1254	1257	16.60	6.91	4111	14.5	
735		10/17/2017	0928	0931	13.60	7.04	2883	57.7	
737		4/12/2017	1225	1227	14.70	7.41	1127	270	
737		10/23/2017	0844	0845	14.90	7.09	1232	191	
739		5/11/2017	1335	1339	14.30	7.51	2124	4.93	
740		1/10/2017							NO SAMPLE, DRY WELL
740		2/28/2017							NO SAMPLE, DRY WELL
740		3/20/2017							NO SAMPLE, DRY WELL
740		4/7/2017	1010	1010	12.60	7.44	7799	96.3	
740		7/7/2017	0941	0944	15.20	7.54	5536	46.7	
740		10/17/2017	1215	1216	15.00	7.61	4880	46.8	
742		4/20/2017	1331	1332	13.90	7.30	1773	12.3	
742		10/24/2017	1254	1255	14.00	7.44	1460	32.3	
743		5/2/2017	1250	1253	13.70	7.67	10066	14.2	
744		4/14/2017	0927	0930	11.70	6.78	1749	23.7	
744		10/18/2017	1154	1157	13.70	7.24	1914	36.7	
745		4/14/2017	0938	0941	9.40	6.65	3013	26.5	
751		5/3/2017	1033	1037	11.40	7.16	794	63.1	
753		5/3/2017	1014	1018	11.60	7.09	731	64.3	
754		4/20/2017	0851	0855	11.50	7.01	2541	9.65	
755		4/20/2017	1015	1017	10.70	7.02	1100	49.0	
755		10/18/2017	1034	1037	16.20	7.19	1136	21.0	
756		1/11/2017	1032	1036	13.90	6.91	4459	39.3	
756		5/2/2017	1140	1144	14.70	7.39	4693	155	
757		1/10/2017	1056	1059	12.30	7.81	1377	>1000	
757		4/19/2017	1321	1324	11.60	7.56	2118	114	
757		7/6/2017	1134	1137	16.00	7.36	1422	>1000	
757	314	10/16/2017	1358	1402	18.60	7.61	896	>1000	QC DUPLICATE 314
761		4/7/2017	1040	1044	12.60	7.04	2031	141	
763		4/7/2017	1106	1110	13.90	7.38	1388	406	
766	312	1/12/2017	1051	1053	16.60	7.07	15531	197	QC DUPLICATE 312
766		4/6/2017	1423	1428	13.90	6.87	16461	300	

Field Parameters Database

WELL	QC_ID	DATE	START SAMPLE	END SAMPLE	TEMP	PH	SPEC_COND	TURBIDITY	COMMENTS
766		7/6/2017	1344	1347	17.10	6.94	13694	357	
766	315	10/17/2017	0811	0813	15.70	7.17	9430	304	QC DUPLICATE 315
767		1/12/2017	0844	0847	15.60	7.01	4225	28.5	
767		4/7/2017	0907	0912	12.20	7.26	1733	45.0	
767		7/10/2017	0852	0855	15.60	7.16	1763	33.8	
767		10/17/2017	0753	0754	16.50	7.18	1320	71.2	
768		1/12/2017	0919	0922	16.40	7.20	2763	2.41	
768	311	4/6/2017	1322	1327	13.10	7.21	3686	28.8	QC DUPLICATE 311
768		7/10/2017	0933	0936	16.70	6.94	4647	26.2	
768		10/17/2017	1007	1008	17.10	7.40	4050	31.8	
769		1/12/2017	1037	1141	15.70	7.22	3050	7.52	
769		4/6/2017	0948	0952	13.20	6.64	5221	8.86	
769		7/7/2017	0844	0847	16.60	6.96	4451	6.02	
769		10/17/2017	1118	1119	15.60	7.14	4760	4.01	
771		1/12/2017	0950	0953	15.80	7.11	3719	187	
771		4/6/2017	1357	1401	12.40	6.91	3844	212	
771		7/10/2017	1027	1032	18.00	6.91	3017	75.2	
771		10/17/2017	0926	0927	17.50	7.18	2650	202	
772		1/12/2017	1128	1129	13.30	7.10	4726	>1000	
772		4/6/2017	1300	1305	10.00	6.78	4866	1000	
772		7/6/2017	1321	1324	17.70	6.93	4590	875	
772		10/17/2017	0858	0859	19.40	7.05	3600	>1000	
773		1/10/2017	0927	0928	15.10	7.47	1357	808	
773		4/6/2017	1343	1348	13.50	7.45	1831	591	
773	313	7/6/2017	1239	1242	15.20	7.14	2614	896	QC DUPLICATE 313
773		10/17/2017	0906	0909	15.00	6.99	2621	1000	
774		4/10/2017	1329	1333	14.10	7.01	5991	29.7	
774		10/26/2017	1107	1109	16.60	6.61	5810	2.48	
775		4/10/2017	1401	1405	15.10	6.71	5832	17.8	
777		4/11/2017	0955	0956	12.60	7.19	1243	1.59	
777		10/20/2017	1259	1301	12.50	7.35	1963	3.86	
779		4/11/2017	0901	0902	12.10	7.03	1705	4.58	
779		10/26/2017	1030	1032	11.40	6.84	1897	4.55	
789		4/7/2017	1203	1208	10.60	6.63	1414	1000	
791		4/7/2017	1236	1238	8.70	7.32	1063	>1000	
792	312	4/7/2017	1115	1120	11.70	6.66	10500	693	QC DUPLICATE 312
793		1/12/2017	1235	1236	16.60	7.04	4620	221	
793		4/7/2017	1044	1049	13.20	7.01	4104	147	
793		7/10/2017	1316	1319	15.30	6.97	4070	57.7	
793		10/17/2017	0836	0837	16.20	7.24	3490	241	
832		4/19/2017	1026	1029	9.80	7.10	1221	52.5	
857		1/11/2017	1152	1153	11.40	7.37	911	12.1	
857		4/6/2017	1226	1227	9.70	7.19	998	90.5	
857		7/7/2017	1108	1109	16.70	7.22	962	58.0	
857		10/16/2017	1345	1346	14.30	7.36	460	44.3	
858		1/11/2017	1033	1034	11.90	7.44	1119	3.25	
858		4/6/2017	1025	1025	11.20	7.70	827	26.0	
858		7/7/2017	0910	0911	12.00	7.24	775	7.15	
858		10/16/2017	1146	1147	12.00	7.26	643	7.33	
921		5/10/2017	0959	1001	13.70	7.02	2157	99.3	
921		10/23/2017	0959	1000	14.30	7.35	1820	91.2	
922	317	5/10/2017	1007	1009	12.80	7.09	2393	428	QC DUPLCIATE 317
922		10/23/2017	0948	0949	14.00	7.82	790	571	
923		5/8/2017	1241	1243	14.10	7.16	2418	5.68	
923		10/23/2017	1102	1103	14.80	7.26	1890	25.4	

Field Parameters Database

WELL	QC_ID	DATE	START SAMPLE	END SAMPLE	TEMP	PH	SPEC_COND	TURBIDITY	COMMENTS
929		5/8/2017	1115	1117	14.20	7.17	2270	10.7	
929		10/20/2017	1326	1327	14.00	7.40	900	3.57	
931		4/28/2017	1308	1310	16.10	7.11	3498	5.10	
931		10/23/2017	1225	1226	13.70	7.36	2680	2.41	
932		4/20/2017	1124	1125	13.50	7.17	1516	14.44	
932		10/24/2017	1109	1110	16.10	6.96	730	66.5	
941		4/28/2017	1135	1137	16.00	7.17	2270	11.5	
941		10/24/2017	1310	1311	16.20	7.45	1301	5.83	
943		4/27/2017	1203	1205	11.90	7.25	1433	43.3	
943		10/18/2017	1013	1014	11.10	7.58	1110	22.7	
944		4/17/2017	1419	1420	11.90	7.27	1540	277	
944		10/18/2017	1049	1050	12.20	7.71	1210	198	
952		5/5/2017	1341	1344	11.40	7.32	1125	830	
952		11/1/2017	0959	1000	11.00	7.33	950	>1000	
953		5/8/2017	1013	1015	13.20	7.03	3017	221	
953		10/25/2017	1332	1334	13.90	7.02	2622	9.01	
954	318	5/5/2017	1056	1058	13.30	7.13	2693	190	QC DUPLICATE 318
954		10/20/2017	1245	1246	14.90	7.68	2330	14.4	
956		5/10/2017	1524	1527	14.80	7.22	2449	>1000	
956		10/20/2017	1200	1201	15.20	7.85	2150	59.4	
958		5/12/2017	1121	1124	13.30	7.51	872	87.5	
958	317	11/13/2017	1142	1145	11.00	7.19	920	41.2	QC DUPLICATE 317
959		5/10/2017	1257	1301	13.90	7.03	2683	320	
959		10/27/2017	1000	1001	13.60	7.39	2240	130	
960		5/10/2017	1435	1439	14.30	7.21	2790	>1000	
960	316	10/27/2017	1058	1059	13.80	7.50	2230	90.8	QC DUPLICATE 316
963		4/17/2017	1315	1316	12.10	7.44	696	3.92	
963		10/20/2017	0812	0813	12.00	7.57	720	1.91	
964		4/17/2017	1344	1345	12.00	7.41	1473	2.56	
964		10/20/2017	0841	0842	11.90	7.49	1260	0.43	
965		4/27/2017	0919	0921	14.10	6.91	2406	0.36	
966		4/27/2017	1033	1035	14.20	7.03	1980	0.75	
966		10/23/2017	1335	1336	14.40	7.18	1700	2.67	
987		1/12/2017	1024	1025	11.90	7.36	1670	9.84	
987		4/5/2017	0950	0951	11.80	7.26	1112	13.5	
987		7/6/2017	1014	1015	12.00	7.44	2101	3.04	
987		10/16/2017	1244	1245	12.40	7.33	1743	4.64	
990	313	1/11/2017	1305	1307	12.40	7.28	1240	0.44	QC DUPLICATE 313
990	319	4/5/2017	1009	1010	10.80	7.19	1220	1.48	QC DUPLICATE 319
990		7/6/2017	1032	1033	11.00	7.36	806	0.55	
990		10/16/2017	1301	1302	13.40	7.34	988	2.73	
998		4/7/2017	1209	1212	10.70	7.19	2147	80.6	
998		10/17/2017	1103	1106	13.70	7.17	1068	151	
999		4/11/2017	1038	1039	14.40	7.21	2076	11.3	
999		10/18/2017	1343	1344	13.40	7.57	1590	448.0	

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 166 ft. Lat: 41.6257° N Lon: -73.8816° W
Station: **POUGHKEEPSIE AIRPORT, NY US 14757**

Local Climatological Data
Daily Summary
January 2017

Generated on 04/12/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH / Direction = Degrees			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set	Weather Type	TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL	Avg Speed	Peak Speed	Peak Dir	Sust. Speed	Sust. Dir
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	44	22	33	6.5				32	0	0723	1636		0.00			29.91		5.2	23	300	17	290
02	38	20	29	2.7				36	0	0723	1637	HZ	0.00			30.27		1.6	9	060	7	360
03	39	33	36	9.9				29	0	0723	1638	RA BR UP	0.46			29.78		5.1	15	010	12	010
04	47	30	38	12.0				27	0	0723	1639	RA FG BR UP	0.02			29.29		8.1	32	270	25	270
05	30	25	28	2.2				37	0	0723	1640		0.00			29.67		8.3	28	250	22	260
06	29	14	22	-3.7				43	0	0723	1641	SN BR	T			29.86		3.2	19	250	14	240
07	20	8	14	-11.6				51	0	0722	1642	SN BR	0.02			30.07		4.6	19	340	15	010
08	24	6	15	-10.5				50	0	0722	1643	SN	T			30.08		7.1	28	280	20	340
09	22	-1*	10	-15.4				55	0	0722	1644		0.00			30.45		3.4	12	230	10	230
10	42	5	24	-1.3				41	0	0722	1645	SN	T			30.34		3.8	21	170	15	170
11	49	35	42	16.7				23	0	0722	1646	RA BR	0.41			30.03		6.1	32	210	22	220
12	56*	40	48	22.8				17	0	0721	1647	RA BR	0.20			29.83		2.8	16	200	10	180
13	55s	25	40s	14.8s				25s	0s	0721	1648	FG BR	0.00			30.18		8.6	25	340	20	330
14	28	19	24	-1.2				41	0	0721	1649	SN BR HZ	T			30.40		1.9	12	030	10	030
15	40	16	28	2.9				37	0	0720	1650	BR	0.00			30.14		1.4	12	270	9	270
16	39	13	26	0.9				39	0	0720	1651		0.00			30.21		3.5	16	210	12	230
17	37	31	34	8.9				31	0	0719	1653	RA BR UP HZ	0.31			29.99		2.2	11	230	7	330
18	39	32	36	10.8				29	0	0719	1654	RA FG BR UP	0.06			29.78		2.4	10	350	9	330
19	47	32	40	14.8				25	0	0718	1655	FG BR	0.00			29.83		2.9	21	350	12	030
20	42	35	38	12.8				27	0	0718	1656	RA BR UP	0.04			29.78		2.6	15	030	13	030
21	54	37	46	20.7				19	0	0717	1657	BR	0.00			29.65		2.5	15	240	12	240
22	51	38	44	18.7				21	0	0716	1659	FG BR	0.00			29.56		3.7	22	070	16	070
23	41	33	37	11.6				28	0	0716	1700	RA BR	0.58			29.66		12.2	30	030	21	050
24	35	32	34	8.6				31	0	0715	1701	RA FZRA SN PL BR UP	0.80			29.27		9.2	23	350	17	360
25	43	31	37	11.5				28	0	0714	1702		Ts			29.39		6.8	28	260	24	260
26	50	31	40	14.4				25	0	0713	1704	BR UP	0.02			29.23		8.1	33	280	24	270
27	40	34	37	11.3				28	0	0712	1705		0.00			29.38		13.3	30	300	21	280
28	36	31	34	8.2				31	0	0712	1706		T			29.44		8.2	26	300	18	270
29	40	29	34	8.1				31	0	0711	1707		0.00			29.50		5.3	22	290	17	280
30	35	22	28	2.0				37	0	0710	1709		0.00			29.60		5.8	19	260	14	280
31	27	16	22	-4.1				43	0	0709	1710	SN FZFG BR FG	0.05			29.70		1.4	15	150	12	150
	39.3	25.0s	32.2							Monthly Averages | Totals			2.97			29.82	29.98	5.1				
	3.9	9.3s	6.6	Departure from Normal (1981-2010)									-0.11									

Degree Days

	Monthly		Season-to-date	
	Total	Departure	Total	Departure
Heating	1016	-207	3223	
Cooling	0	0	0	

Number of days with...

	Temperature				Precipitation		Snow	Weather	
	Max		Min						
	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog
Heating									
Cooling	0	7	23	1	12	6			

Date of 5-sec to 3-sec wind equipment change

N/A

Sea Level Pressure

		Date	Time
Maximum	30.72	14	0252
Minimum	29.27	26	1311

Greatest...

24-Hr...		Snow Depth
Precip	Snowfall	
1.28s		
Date		
23-24		

Station Augmentation

Name:N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 166 ft. Lat: 41.6257° N Lon: -73.8816° W
Station: **POUGHKEEPSIE AIRPORT, NY US 14757**

Local Climatological Data
Daily Summary
February 2017

Generated on 04/12/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH / Direction = Degrees			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set	Weather Type	TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL	Avg Speed	Peak Speed	Peak Dir	Sust. Speed	Sust. Dir
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	42	16	29	2.7				36	0	0708	1711	SN FZFG BR FG	T			29.70		4.9	29	250	20	240
02	39	19	29	2.6				36	0	0707	1712		0.00			29.89		5.3	25	250	17	270
03	31	14	22	-4.5				43	0	0706	1714		0.00			29.98		8.0	26	290	20	270
04	33	18	26	-0.7				39	0	0705	1715		0.00			30.09		8.8	26	250	20	240
05	39	19	29	2.2				36	0	0704	1716		0.00			29.82		5.8	30	310	20	230
06	41	25	33	6.0				32	0	0703	1717		0.00			29.85		5.9	28s	260s	22	300
07	32	23	28	0.9				37	0	0701	1719	BR UP	0.08s			29.72		2.3	11	360	9	360
08	56	32	44	16.7				21	0	0700	1720	RA FG BR UP	0.08			29.44		5.9	29	280	21	290
09	33	12*	22	-5.4				43	0	0659	1721	TS SN FZFG BR UP FG	0.14			29.52		13.7	39	310	24	310
10	29	13	21	-6.6				44	0	0658	1723	SN BR	0.01			29.95		8.8	28	280	23	270
11	42	24	33	5.2				32	0	0657	1724	SN	T			29.80		2.0	14	140	9	140
12	33	27	30	2.0				35	0	0655	1725	FZRA SN FZFG BR FG	0.54			29.77		3.7	16	100	12	090
13	36	23	30	1.8				35	0	0654	1726		Ts			29.54		14.3	59	300	41	310
14	39	15	27	-1.3				38	0	0653	1728		0.00			29.70		3.3	18	160	12	240
15	45	20	32	3.5				33	0	0651	1729	RA SN BR UP	0.05			29.31		4.5	29	270	21	270
16	35	22	28	-0.7				37	0	0650	1730		0.00			29.36		11.0	26	290	20	290
17	40	17	28	-0.9				37	0	0649	1731		0.00			29.63		5.3	20	270	15	270
18	56	19	38	8.8				27	0	0647	1733		0.00			29.57		3.7	23	230	16	230
19	61	29	45	15.6				20	0	0646	1734		0.00	0.0		29.57		5.6	21	300	16	300
20	48	26	37	7.4				28	0	0644	1735		0.00	0.0		29.98		4.7	24	040	17	010
21	46	19	32	2.2				33	0	0643	1736		0.00	0.0		30.11		2.5	20	200	12	210
22	53	35	44	14.0				21	0	0641	1737		T			29.80		2.7	12	170	9	180
23	68	32	50	19.7				15	0	0640	1739	TS RA	T			29.65		3.1	18	150	12	170
24	73*	44	58	27.5				7	0	0638	1740	FG BR	0.01			29.67		5.1	22	150	15	170
25	67	39	53	22.2				12	0	0637	1741	TS RA BR	0.43			29.49		8.9	41	240	29	220
26	40	27	34	3.0				31	0	0635	1742		0.00			29.75		10.9	32	280	23	290
27	52	23	38	6.7				27	0	0634	1743		0.00			30.14		6.3	27	230	18	220
28	61	33	47	15.5				18	0	0632	1745		0.00			30.08		3.9	18	140	13	150
	45.4	23.8	34.6							Monthly Averages | Totals			1.34			29.75	29.91	6.0				
	6.0	6.0	6.0	Departure from Normal (1981-2010)									-1.32									

Degree Days

	Monthly		Season-to-date	
	Total	Departure	Total	Departure
Heating	850	-169	4073	
Cooling	0	0	0	

Number of days with...

	Temperature				Precipitation		Snow	Weather	
	Max		Min						
	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog
Heating									
Cooling	0	3	24	0	8	3			

Date of 5-sec to 3-sec wind equipment change

N/A

Sea Level Pressure

		Date	Time
Maximum	30.40	21	0507
Minimum	29.29	15	1530

Greatest...

24-Hr...		Snow Depth
Precip	Snowfall	
0.54		
Date		
12-13		

Station Augmentation

Name:N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 166 ft. Lat: 41.6257° N Lon: -73.8816° W
Station: **POUGHKEEPSIE AIRPORT, NY US 14757**

Local Climatological Data
Daily Summary
March 2017

Generated on 04/12/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH / Direction = Degrees			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set	Weather Type	TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL	Avg Speed	Peak Speed	Peak Dir	Sust. Speed	Sust. Dir
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	65*	51	58	26.2				7	0	0631	1746	RA BR	0.09			29.47		7.8	26	220	18	220
02	59	29	44	11.9				21	0	0629	1747		0.00			29.47		17.2	48	260	32	250
03	37	20	28	-4.4				37	0	0628	1748	SN BR	T			30.01		11.2	40	330	25	320
04	27	12	20	-12.6				45	0	0626	1749		0.00			30.30		11.6	36	280	26	320
05	32	8	20	-12.9				45	0	0624	1750		0.00	0.0	0	30.42		6.3	24	030	18	350
06	44	10	27	-6.2				38	0	0623	1752		0.00			30.30		3.2	13	150	10	150
07	50	35	42	8.5				23	0	0621	1753	BR UP HZ	0.04			30.07		2.3	*		7	170
08	58	40	49	15.1				16	0	0620	1754	RA BR	0.02			29.73		9.1	37	240	28	260
09	55	34	44	9.8				21	0	0618	1755		0.00			29.74		11.9	43s	250s	30	280
10	38	19	28	-6.5				37	0	0616	1756	SN FZFG BR FG	0.27			29.72		8.1	38	290	24	290
11	23	11	17	-17.8				48	0	0615	1757		0.00			29.93		13.1	35	290	26	270
12	26	7	16	-19.2				49	0	0613	1759	SN	T			30.10		8.0	28	330	21	280
13	33	6*	20	-15.5				45	0	0611	1800		T			30.24		2.2	16	120	12	130
14	28	19	24	-11.9				41	0	0610	1801	SN FZFG BR FG	3.25			29.54		12.0	38s	350s	28	360
15	25	15	20	-16.2				45	0	0608	1802	SN HZ	T			29.38		12.7	31	270	23	270
16	36	20	28	-8.6				37	0	0606	1803		0.00			29.72		12.0	32	270	25	250
17	44	18	31	-6.0				34	0	0604	1804		0.00			29.98		5.7	18	250	15	240
18	39	11	25	-12.3				40	0	0603	1805	SN BR	0.01			30.03		4.4	22	150	16	140
19	43	24	34	-3.7				31	0	0601	1806	SN	T			30.01		8.0	25	030	18	020
20	49	18	34	-4.1				31	0	0559	1807		0.00			29.91		3.3	22	020	17	020
21	56	30	43	4.5				22	0	0558	1809		0.00			29.72		2.1	21	270	16	260
22	39	18	28	-10.9				37	0	0556	1810		0.00			29.92		13.8	46	290	28	320
23	40	9	24	-15.3				41	0	0554	1811		0.00			30.32		1.8	17	260	13	300
24	46	24	35	-4.7				30	0	0553	1812		T			30.14		3.6	23	220	16	220
25	44	34	39	-1.1				26	0	0551	1813	BR	0.05			30.02		5.0	19	010	14	030
26	38	32	35	-5.5				30	0	0549	1814	RA BR UP HZ	0.10			30.24		4.9	14	120	10	140
27	48	34	41	0.1				24	0	0548	1815	RA BR UP	0.29			29.92		1.2	12	230	9	220
28	45	37	41	-0.3				24	0	0546	1816	RA BR	0.44			29.77		2.4	11	030	9	030
29	55	31	43	1.3				22	0	0544	1817		0.00			29.88		10.5	27	020	20	010
30	50	26	38	-4.1				27	0	0542	1818		0.01			30.01		4.1	22	030	15	020
31	40	33	36	-6.5				29	0	0541	1820	RA BR UP	0.74			29.83		6.1	22	100	14	100
	42.3	23.1	32.7							Monthly Averages | Totals			2.69s			29.93	30.11	7.4				
	-5.8	-2.4	-4.1	Departure from Normal (1981-2010)									-0.88s									

Degree Days

	Monthly		Season-to-date	
	Total	Departure	Total	Departure
Heating	999	125	5072	
Cooling	0	0	0	

Number of days with...

	Temperature				Precipitation		Snow	Weather	
	Max		Min						
	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog
Heating									
Cooling	0	6	23	0	12	6			

Date of 5-sec to 3-sec wind equipment change

N/A

Sea Level Pressure

		Date	Time
Maximum	30.68	05	0827
Minimum	29.24	14	1523

Greatest...

24-Hr...		Snow Depth
Precip	Snowfall	
0.74s		
Date		
31-31		

Station Augmentation

Name:N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 166 ft. Lat: 41.6257° N Lon: -73.8816° W
Station: **POUGHKEEPSIE AIRPORT, NY US 14757**

Local Climatological Data
Daily Summary
April 2017

Generated on 04/12/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH / Direction = Degrees			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set	Weather Type	TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL	Avg Speed	Peak Speed	Peak Dir	Sust. Speed	Sust. Dir
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	44	33	38	-4.9				27	0	0539	1821	BR UP HZ	0.01			29.67		9.8	31	010	21	010
02	60	29	44	0.6				21	0	0537	1822		0.00			29.88		3.6	31	300	21	350
03	65	31	48	4.2				17	0	0536	1823	RA	0.05			29.85		4.3	20	150	14	250
04	50	42	46	1.8				19	0	0534	1824	RA BR	0.60			29.49		6.1	25	120	20	120
05	60	43	52	7.4				13	0	0532	1825	RA BR	0.01			29.69		4.0	20	110	14	130
06	50	39	44	-1.0				21	0	0531	1826	TS RA BR	0.54			29.44		7.2	24	210	16	100
07	50	39	44	-1.4				21	0	0529	1827	RA	T			29.15		11.9	28	270	23	290
08	53	32	42	-3.8				23	0	0527	1828		0.00			29.59		9.4	29	290	21	310
09	68	26*	47	0.7				18	0	0526	1829		0.00			29.91		2.6	19	250	15	240
10	80	38	59	12.3				6	0	0524	1830		0.00			29.93		4.0	23	140	16	160
11	86*	47	66	18.9				0	1	0522	1832		0.00			29.88		4.3	24	020	17	010
12	69	45	57	9.5				8	0	0521	1833	RA BR	0.09			29.95		3.9	19	030	16	030
13	61	34	48	0.1				17	0	0519	1834		0.00			30.14		5.1	23	340	18	360
14	65	34	50	1.7				15	0	0518	1835		0.00			30.19		2.0	17	340	13	360
15	67	35	51	2.4				14	0	0516	1836		0.00			30.08		4.9	26	150	16	170
16	85	48	66	17.0				0	1	0514	1837	RA	0.11			29.71		7.8	45	280	32	280
17	71	46	58	8.6				7	0	0513	1838	FG BR	0.00			29.75		8.2	30	280	22	300
18	63	37	50	0.2				15	0	0511	1839		0.00			30.14		5.7	24	150	16	150
19	57	43	50	-0.2				15	0	0510	1840	RA BR	0.15			30.22		8.3	28	190	18	160
20	66	46	56	5.5				9	0	0508	1841	RA BR	0.21			29.91		2.1	15	160	12	110
21	56	49	52	1.1				13	0	0507	1842	RA BR	0.24			29.77		4.3	15	120	10	140
22	56	43	50	-1.3				15	0	0505	1844		0.01			29.76		4.5	22	020	16	020
23	68	33	50	-1.6				15	0	0504	1845		0.00			29.88		2.4	13	150	8	150
24	68	38	53	1.0				12	0	0502	1846		0.00			29.94		3.0	15	130	10	120
25	57	48	52	-0.3				13	0	0501	1847	RA BR	0.33			29.91		5.9	19	030	14	050
26	61	50	56	3.3				9	0	0459	1848	RA BR	0.02			29.62		4.6	17	320	10	360
27	69	57	63	10.0				2	0	0458	1849	BR	0.00			29.68		3.5	20	150	13	160
28	85	60	72	18.7				0	7	0457	1850	BR	0.00			29.74		4.7	20	220	15	230
29	82	57	70	16.3				0	5	0455	1851		0.00			29.80		7.1	28	240	22	250
30	59	49	54	0.0				11	0	0454	1852		0.01		0	30.02		6.4	18	150	14	360
	64.4	41.7	53.1							Monthly Averages | Totals			2.38			29.83	29.99	5.4				
	3.6	5.1	4.4	Departure from Normal (1981-2010)									-1.40									

Degree Days

	Monthly		Season-to-date	
	Total	Departure	Total	Departure
Heating	374	-120	5445	
Cooling	15	10	15	

Number of days with...

	Temperature				Precipitation		Snow	Weather	
	Max		Min						
	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog
Heating									
Cooling	0	0	4	0	13s	6s			

Date of 5-sec to 3-sec wind equipment change

N/A

Sea Level Pressure

		Date	Time
Maximum	30.51	19	0624
Minimum	29.14	06	1841

Greatest...

24-Hr...		Snow Depth
Precip	Snowfall	
0.64s		

Date		
03-04		

Station Augmentation

Name:N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 166 ft. Lat: 41.6257° N Lon: -73.8816° W
Station: **POUGHKEEPSIE AIRPORT, NY US 14757**

Local Climatological Data
Daily Summary
May 2017

Generated on 04/12/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH / Direction = Degrees			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set	Weather Type	TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL	Avg Speed	Peak Speed	Peak Dir	Sust. Speed	Sust. Dir
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	72	47	60	5.7				5	0	0453	1853	TS BR	T			29.75		3.8	18	170	14	130
02	71	56	64	9.4				1	0	0451	1854	RA BR	0.03			29.41		9.7	42	240	31	240
03	62	38	50	-4.9				15	0	0450	1855		0.00			29.71		9.9	31	270	23	270
04	65	32	48	-7.2				17	0	0449	1857		0.00			30.03		4.5	23	180	15	150
05	58	46	52	-3.6				13	0	0447	1858	RA BR	1.13			29.65		5.0	35	100	25	080
06	66	51	58	2.1				7	0	0446	1859	TS RA BR	0.31			29.21		7.8	32	170	22	160
07	55	43	49	-7.2				16	0	0445	1900	RA	T			29.41		6.9	24	250	18	250
08	53	36	44	-12.5				21	0	0444	1901		0.00			29.66		6.4	26	300	20	310
09	56	35	46	-10.8				19	0	0443	1902		0.00			29.78		4.1	17	040	14	030
10	59	34	46	-11.1				19	0	0442	1903		0.00			29.85		3.8	18	030	14	010
11	64	32*	48	-9.4				17	0	0440	1904	BR	0.00			29.82		2.6	16	010	12	010
12	67	39	53	-4.6				12	0	0439	1905		0.00			29.84		3.5	20	190	13	190
13	52	45	48	-9.9				17	0	0438	1906	RA BR	1.43			29.75		4.1	18	120	14	090
14	64	42	53	-5.2				12	0	0437	1907	TS RA	T			29.49		6.4	23	340	16	330
15	67	47	57	-1.5				8	0	0436	1908		0.00			29.52		12.1	37	290	24	310
16	78	40	59	0.2				6	0	0435	1909		0.00			29.77		3.3	19	250	15	250
17	92	49	70	10.9				0	5	0434	1910		0.00			29.74		5.8	28	240	21	240
18	93*	64	78	18.6				0	13	0433	1911	TS	T			29.67		7.1	33	330	24	320
19	89	58	74	14.3				0	9	0433	1912		0.00			29.69		10.2	31	230	22	270
20	70	46	58	-2.0				7	0	0432	1913		0.00			30.06		5.3	19	360	15	360
21	71	42	56	-4.3				9	0	0431	1914		0.00			30.12		4.8	22	170	13	180
22	59	54	56	-4.6				9	0	0430	1915	RA FG BR	0.10			29.91		3.6	14	150	10	160
23	67	49	58	-2.9				7	0	0429	1916	FG BR	0.00			29.73		1.6	13	040	9	010
24	74	52	63	1.9				2	0	0429	1917		0.00			29.57		3.3	22	120	14	110
25	60	54	57	-4.4				8	0	0428	1917	RA BR	0.28			29.49		5.6	19	090	14	020
26	72	53	62	0.3				3	0	0427	1918	RA BR	0.31			29.41		4.6	28	250	17	270
27	72	52	62	0.0				3	0	0427	1919		0.00			29.67		1.3	14	330	12	340
28	73	56	64	1.7				1	0	0426	1920		0.00			29.73		4.1	16	140	12	150
29	58	55	56	-6.6				9	0	0425	1921	RA BR HZ	0.29			29.78		2.7	13	100	9	110
30	62	54	58	-4.9				7	0	0425	1922		0.00			29.93		4.3	16	130	12	150
31	78	56	67	3.8				0	2	0424	1922	TS RA BR	0.12			29.81		3.8	27	330	21	310
	67.7	47.0	57.4							Monthly Averages | Totals			1.44s			29.71	29.88	5.1				
	-3.6	0.7	-1.4	Departure from Normal (1981-2010)									-2.97s									

Degree Days

	Monthly		Season-to-date	
	Total	Departure	Total	Departure
Heating	267	44	5712	
Cooling	29	-2	44	

Number of days with...

	Temperature				Precipitation		Snow	Weather	
	Max		Min						
	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog
Heating									
Cooling	2	0	2	0	6s	5s			

Date of 5-sec to 3-sec wind equipment change

N/A

Sea Level Pressure

		Date	Time
Maximum	30.37	21	0835
Minimum	29.32	06	1732

Greatest...

24-Hr...		Snow Depth
Precip	Snowfall	
0.53s		

Date		
25-26		

Station Augmentation

Name:N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 166 ft. Lat: 41.6257° N Lon: -73.8816° W
Station: **POUGHKEEPSIE AIRPORT, NY US 14757**

Local Climatological Data
Daily Summary
June 2017

Generated on 04/12/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH / Direction = Degrees			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set	Weather Type	TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL	Avg Speed	Peak Speed	Peak Dir	Sust. Speed	Sust. Dir
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	76	53	64	0.5				1	0	0424	1923	FG BR	T			29.72		6.2	26	250	20	290
02	73	45	59	-4.8				6	0	0423	1924		0.00			29.76		6.2	25	290	18	300
03	73	43*	58	-6.1				7	0	0423	1925		T			29.76		5.7	32	320	22	310
04	70	44	57	-7.4				8	0	0423	1925	RA BR	0.37			29.78		2.4	20	230	16	230
05	66	54	60	-4.7				5	0	0422	1926	RA BR	0.19			29.59		3.9	18	100	13	090
06	57	50	54	-11.0				11	0	0422	1927	TS RA BR	0.41			29.62		6.0	16	030	13	040
07	71	50	60	-5.3				5	0	0422	1927		0.00			29.80		4.6	20	010	15	360
08	73	45	59	-6.6				6	0	0421	1928		0.00			29.78		2.6	15	120	12	130
09	79	47	63	-2.9				2	0	0421	1928		0.00			29.57		3.4	21	270	17	280
10	84	50	67	0.8				0	2	0421	1929	RA	T			29.75		3.9	22	230	16	210
11	91	61	76	9.5				0	11	0421	1930		T			29.82		6.1	25	250	18	230
12	92	62	77	10.2				0	12	0421	1930		0.00			29.78		4.6	20	210	15	250
13	93*	63	78	10.9				0	13	0421	1931	TS RA BR	0.20			29.70		3.2	25	030	20	020
14	82	57	70	2.7				0	5	0421	1931		0.00			29.78		5.3	19	020	15	020
15	76	52	64	-3.6				1	0	0421	1931		0.00			29.85		5.5	20	140	14	140
16	71	58	64	-3.9				1	0	0421	1932	RA BR	0.22			29.80		3.8	18	140	13	140
17	77	63	70	1.8				0	5	0421	1932		T			29.74		3.4	16	180	12	180
18	88	70	79	10.6				0	14	0421	1932		0.00			29.65		6.9	23	180	16	170
19	88	69	78	9.3				0	13	0421	1933	TS RA BR	1.19			29.61		5.4	31	220	22	270
20	82	60	71	2.1				0	6	0421	1933		0.00			29.68		7.5	28	240	22	240
21	82	58	70	0.8				0	5	0421	1933	TS RA	0.02			29.72		4.5	22	240	18	240
22	84	54	69	-0.4				0	4	0421	1933		0.00			29.78		2.6	19	220	13	240
23	85	67	76	6.3				0	11	0422	1934	RA	0.02			29.54		5.3	24	220	15	220
24	84	66	75	5.1				0	10	0422	1934	RA	0.05			29.49		7.8	27	290	22	300
25	82	58	70	-0.1				0	5	0422	1934	RA FG BR	0.14			29.75		4.2	26	290	21	300
26	78	53	66	-4.3				0	1	0423	1934		0.00			29.80		5.8	22	230	15	240
27	77	53	65	-5.5				0	0	0423	1934	TS	0.01			29.79		4.9	32	230	23	240
28	79	50	64	-6.7				1	0	0423	1934		0.00			29.88		4.8	24	270	18	270
29	83	58	70	-0.9				0	5	0424	1934		0.00			29.88		4.4	19	190	13	190
30	90	70	80	8.9				0	15	0424	1934	TS RA BR	0.56			29.77		5.3	24	230	17	270
	79.5	56.1	67.8							Monthly Averages | Totals			3.38			29.73	29.90	4.9				
	0.0	0.4	0.2	Departure from Normal (1981-2010)									-1.05									

Degree Days

	Monthly		Season-to-date	
	Total	Departure	Total	Departure
Heating	52	3	5765	
Cooling	137	10	181	

Number of days with...

	Temperature				Precipitation		Snow	Weather	
	Max		Min						
	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog
Heating									
Cooling	4	0	0	0	11s	7s			

Date of 5-sec to 3-sec wind equipment change

N/A

Sea Level Pressure

		Date	Time
Maximum	30.12	29	0650
Minimum	29.53	24	0608

Greatest...

24-Hr...		Snow Depth
Precip	Snowfall	
1.19		

Date		
19-19		

Station Augmentation

Name:N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Local Climatological Data
Daily Summary
July 2017

Generated on 04/12/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Current Location: Elev: 166 ft. Lat: 41.6257° N Lon: -73.8816° W
Station: **POUGHKEEPSIE AIRPORT, NY US 14757**

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH / Direction = Degrees			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set	Weather Type	TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL	Avg Speed	Peak Speed	Peak Dir	Sust. Speed	Sust. Dir
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	85	68	76	4.7				0	11	0425	1934	BR	T			29.72		5.1	20	140	15	140
02	88	67	78	6.5				0	13	0425	1933	BR	0.06			29.75		4.5	22	230	17	350
03	86	62	74	2.4				0	9	0426	1933	BR	0.00	0.0	0	29.77		3.8	23	280	16	270
04	83	58	70	-1.8				0	5	0426	1933	BR	0.00			29.88		3.4	13	360	10	360
05	85	57	71	-0.9				0	6	0427	1933	BR	0.00	0.0	0	29.98		3.5	17	150	10	170
06	81	62	72	0.0				0	7	0428	1933		0.00		0	29.92		3.5	17	240	13	230
07	81	63	72	-0.2				0	7	0428	1932	RA BR	0.55			29.64		2.3	12	120	9	130
08	84	62	73	0.7				0	8	0429	1932	TS RA BR	0.04		0	29.56		4.1	28s	280s	20	270
09	80	55	68	-4.4				0	3	0430	1931	BR HZ	0.00			29.78		3.5	17	260	12	250
10	83	57	70	-2.5				0	5	0430	1931	HZ	0.00			29.83		4.7	18	260	14	230
11	81	69	75	2.4				0	10	0431	1931	TS RA BR HZ	0.21			29.76		3.5	16	240	12	240
12	88	68	78	5.3				0	13	0432	1930	RA BR	0.57			29.78		4.7	33	310	24	340
13	87	67	77	4.3				0	12	0433	1930	TS RA BR	0.58			29.78		4.0	27	310	18	360
14	67	62	64	-8.8				1	0	0433	1929	RA BR	0.27		0	29.86		5.1	15	140	10	120
15	82	62	72	-0.9				0	7	0434	1928	RA BR	0.03		0	29.74		3.3	19	280	14	280
16	84	59	72	-0.9				0	7	0435	1928		0.00			29.77		1.0	13	280	7	170
17	86	65	76	3.1				0	11	0436	1927		0.00			29.85		4.0	17	180	13	170
18	88	69	78	5.0				0	13	0437	1926		0.00			29.88		3.7	16	200	13	230
19	91	68	80	7.0				0	15	0437	1926		0.00			29.82		4.2	19	250	16	250
20	92*	65	78	5.0				0	13	0438	1925	TS RA BR	0.08			29.74		4.1	27	240	22	240
21	90	66	78	5.0				0	13	0439	1924		0.00			29.69		4.1	23	250	17	250
22	85	65	75	2.0				0	10	0440	1923	RA	T			29.67		1.6	9	030	7	360
23	81	69	75	2.0				0	10	0441	1922		T		0	29.62		5.2	13	130	10	360
24	70	60	65	-8.0				0	0	0442	1922	RA BR	1.21		0	29.67		5.9	19	040	15	040
25	66	58	62	-11.0				3	0	0443	1921	BR	0.00			29.90		1.9	10	110	8	090
26	78	56	67	-6.0				0	2	0444	1920		0.00			30.01		2.7	17	180	10	210
27	77	59	68	-5.0				0	3	0445	1919	BR	T			29.80		3.1	15	170	10	200
28	83	63	73	0.0				0	8	0446	1918	FG BR	0.00			29.67		2.3	16	030	13	030
29	77	55	66	-6.9				0	1	0447	1917		0.00			29.67		9.5	26	030	20	020
30	80	50*	65	-7.9				0	0	0448	1916		0.00			29.82		4.3	19	010	16	020
31	87	53	70	-2.8				0	5	0449	1915	TS	0.00			29.86		1.1	17	050	14	020
	82.5	61.9	72.2							Monthly Averages | Totals			3.60			29.78	29.95	3.8				
	-1.9	1.1	-0.4	Departure from Normal (1981-2010)									-1.05									

Degree Days

	Monthly		Season-to-date	
	Total	Departure	Total	Departure
Heating	4	-1	4	
Cooling	226	-14	407	

Number of days with...

	Temperature				Precipitation		Snow	Weather	
	Max		Min						
	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog
Heating									
Cooling	3	0	0	0	10	6			

Date of 5-sec to 3-sec wind equipment change

N/A

Sea Level Pressure

		Date	Time
Maximum	30.26	26	0729
Minimum	29.67	08	1508

Greatest...

24-Hr...		Snow Depth
Precip	Snowfall	
1.21		
Date		
24-24		

Station Augmentation

Name:N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 166 ft. Lat: 41.6257° N Lon: -73.8816° W
Station: **POUGHKEEPSIE AIRPORT, NY US 14757**

Local Climatological Data
Daily Summary
August 2017

Generated on 04/12/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH / Direction = Degrees			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set	Weather Type	TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL	Avg Speed	Peak Speed	Peak Dir	Sust. Speed	Sust. Dir
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	89	59	74	1.2				0	9	0450	1913		0.00			29.85		0.9	12	020	8	340
02	88	62	75	2.3				0	10	0451	1912	TS RA FG BR	1.61			29.86		2.1	27s	040s	18	310
03	86	61	74	1.3				0	9	0452	1911	TS FG BR	0.00			29.91		3.5	14	250	10	240
04	85	65	75	2.4				0	10	0453	1910	TS RA BR	0.43			29.82		4.7	24	150	17	240
05	79	64	72	-0.5				0	7	0454	1909	RA BR	0.12			29.69		6.7	23	260	18	240
06	77	55	66	-6.4				0	1	0455	1908		0.00			29.86		4.4	16	260	13	240
07	66	57	62	-10.4				3	0	0456	1906	RA BR	0.21			29.87		1.5	12	150	8	150
08	78	59	68	-4.3				0	3	0457	1905	RA BR	T			29.77		3.9	21	360	16	010
09	83	53	68	-4.2				0	3	0458	1904	BR	0.00			29.98		2.1	11	230	9	250
10	84	58	71	-1.1				0	6	0459	1902		0.00			30.02		0.9	11	260	8	250
11	80	62	71	-1.0				0	6	0500	1901	RA BR	0.97			29.93		2.8	15	150	9	150
12	80	62	71	-0.9				0	6	0501	1900	RA BR	0.51			29.75		3.8	17	180	10	180
13	83	62	72	0.2				0	7	0502	1858	FG BR	0.00			29.74		3.2	19	340	13	280
14	78	56	67	-4.6				0	2	0503	1857		0.00			29.83		1.0	8	050	6	050
15	76	66	71	-0.5				0	6	0504	1856	RA BR	0.05			29.73		2.2	12	180	8	170
16	84	62	73	1.6				0	8	0505	1854	FG BR	0.00			29.77		2.6	20	020	15	010
17	82	56	69	-2.2				0	4	0506	1853		0.00			29.85		2.8	13	240	9	150
18	81	70	76	4.9				0	11	0507	1851	TS RA FG BR	0.43			29.67		3.8	20s	210s	13	210
19	85	69	77	6.1				0	12	0508	1850	FG BR	0.00			29.63		2.9	18	240	14	240
20	83	63	73	2.2				0	8	0509	1848		0.00			29.83		4.2	19	310	14	330
21	84	60	72	1.4				0	7	0510	1847		0.00			29.96		2.9	16	260	12	240
22	90*	66	78	7.6				0	13	0511	1845	TS RA FG BR	0.73			29.73		5.5	27	270	18	280
23	79	58	68	-2.2				0	3	0512	1844		0.00s			29.62		5.4	21	260	14	260
24	77	53	65	-5.0				0	0	0513	1842		0.00			29.75		2.5	15	260	12	260
25	75	53	64	-5.8				1	0	0514	1841		0.00			29.91		2.3	16	360	12	360
26	75	48	62	-7.6				3	0	0515	1839		0.00			30.06		1.5	16	360	10	320
27	76	48*	62	-7.4				3	0	0516	1837		0.00			30.09		2.0	13	040	9	040
28	75	50	62	-7.2				3	0	0517	1836		0.00			30.11		2.2	15	070	12	070
29	65	54	60	-8.9				5	0	0518	1834		T			30.03		3.3	12	040	9	010
30	77	56	66	-2.7				0	1	0519	1832		0.00			29.78		3.7	16	360	13	350
31	77	52	64	-4.4				1	0	0520	1831		0.00			29.73		3.6	20	330	16	330
	79.9	58.7	69.3							Monthly Averages | Totals			5.06s			29.84	30.01	3.1				
	-2.7	-0.9	-1.8	Departure from Normal (1981-2010)									0.86s									

Degree Days

	Monthly		Season-to-date	
	Total	Departure	Total	Departure
Heating	19	7	23	
Cooling	153	-48	560	

Number of days with...

	Temperature				Precipitation		Snow	Weather	
	Max		Min						
	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog
Heating									
Cooling	1	0	0	0	9	8			

Date of 5-sec to 3-sec wind equipment change

N/A

Sea Level Pressure

		Date	Time
Maximum	30.33	28	0841
Minimum	29.69	22	2054

Greatest...

24-Hr...		Snow Depth
Precip	Snowfall	
1.61		

Date		
02-02		

Station Augmentation

Name:N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 166 ft. Lat: 41.6257° N Lon: -73.8816° W
Station: **POUGHKEEPSIE AIRPORT, NY US 14757**

Local Climatological Data
Daily Summary
September 2017

Generated on 04/12/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH / Direction = Degrees			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set	Weather Type	TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL	Avg Speed	Peak Speed	Peak Dir	Sust. Speed	Sust. Dir
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	69	43	56	-12.2				9	0	0521	1829		0.00			29.91		5.1	21	320	17	330
02	67	40*	54	-13.9				11	0	0522	1828	RA BR	0.33			30.03		1.6	14	100	8	240
03	63	53	58	-9.6				7	0	0523	1826	RA BR	0.47			29.77		4.8	16	230	13	240
04	80	54	67	-0.3				0	2	0524	1824		0.00			29.70		7.5	25	210	17	230
05	85	62	74	7.0				0	9	0525	1822	TS RA BR	0.02			29.59		3.9	25	270	17	260
06	66	58	62	-4.7				3	0	0526	1821	RA BR FG	0.49			29.71		4.2	28s	340s	24	010
07	72	54	63	-3.4				2	0	0527	1819	RA BR	0.04			29.70		4.7	33	270	26	260
08	69	49	59	-7.0				6	0	0528	1817	BR	0.01			29.93		6.1	21	240	16	260
09	66	44	55	-10.7				10	0	0529	1816	FG BR	0.00			30.08		2.9	20	020	15	010
10	72	43	58	-7.3				7	0	0530	1814		0.00			30.17		4.0	21	030	16	010
11	74	42	58	-7.0				7	0	0531	1812		0.00			30.09		2.4	14	330	12	010
12	78	46	62	-2.6				3	0	0532	1811	FG BR	0.00			29.84		1.4	13	230	9	240
13	80	49	64	-0.2				1	0	0533	1809	BR	0.00			29.71		3.0	14	230	10	240
14	77	66	72	8.1				0	7	0534	1807	TS RA BR	0.20			29.69		2.3	16	170	12	290
15	81	63	72	8.5				0	7	0536	1805	FG BR	0.00			29.84		1.5	9	140	7	220
16	83	62	72	8.9				0	7	0536	1804	FG BR	T			29.95		0.7	11	310	8	300
17	83	61	72	9.3				0	7	0538	1802	FG BR	0.00			29.96		0.8	9	130	7	160
18	79	61	70	7.7				0	5	0539	1800	BR	0.00			29.93		2.8	16	090	10	100
19	80	60	70	8.1				0	5	0540	1758		T			29.84		7.6	22	030	17	040
20	79	67	73	11.6				0	8	0541	1757		0.00			29.73		6.6	23	010	17	360
21	78	63	70	9.0				0	5	0542	1755		0.00			29.83		6.3	21	010	16	010
22	79	58	68	7.4				0	3	0543	1753		0.00			29.85		7.0	26	360	18	010
23	86	55	70	9.8				0	5	0544	1751		0.00			29.85		2.8	14	310	12	310
24	90	57	74	14.3				0	9	0545	1750		0.00			29.88		1.1	12	350	8	310
25	91*	61	76	16.7				0	11	0546	1748	FG BR HZ	0.00			29.86		1.1	10	130	8	130
26	89	63	76	17.1				0	11	0547	1746	BR	0.00			29.83		1.4	10	130	8	130
27	88	59	74	15.5				0	9	0548	1745	FG BR	0.00			29.70		1.4	9	140	7	130
28	75	49	62	4.0				3	0	0549	1743		0.00			29.62		7.2	27	020	21	020
29	66	42	54	-3.6				11	0	0550	1741	RA	0.01			29.83		1.4	16	210	10	240
30	56	45	50	-7.2				15	0	0551	1739	RA FG BR	0.18			29.98		5.8	28	010	21	010
	76.7	54.3	65.5							Monthly Averages | Totals			1.75			29.85	30.01	3.6				
	1.7	3.2	2.4	Departure from Normal (1981-2010)									-2.53									

Degree Days

	Monthly		Season-to-date	
	Total	Departure	Total	Departure
Heating	95	-28	118	
Cooling	110	46	670	

Number of days with...

	Temperature				Precipitation		Snow	Weather	
	Max		Min						
	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog
Heating									
Cooling	2	0	0	0	9	5			

Date of 5-sec to 3-sec wind equipment change

N/A

Sea Level Pressure

		Date	Time
Maximum	30.38	10	0951
Minimum	29.66	05	1559

Greatest...

24-Hr...		Snow Depth
Precip	Snowfall	
0.80s		

Date		
02-03		

Station Augmentation

Name:N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 166 ft. Lat: 41.6257° N Lon: -73.8816° W
Station: **POUGHKEEPSIE AIRPORT, NY US 14757**

Local Climatological Data
Daily Summary
October 2017

Generated on 04/12/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH / Direction = Degrees			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set	Weather Type	TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL	Avg Speed	Peak Speed	Peak Dir	Sust. Speed	Sust. Dir
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	66	41	54	-2.7				11	0	0552	1738	FG BR	0.00			30.17		1.4	13	330	9	310
02	71	36	54	-2.3				11	0	0553	1736	FG BR	0.00			30.21		0.9	10	330	8	310
03	71	39	55	-0.9				10	0	0554	1734		0.00			30.38		2.7	14	220	10	190
04	78	44	61	5.5				4	0	0555	1733	BR	0.00			30.16		4.1	20	220	14	240
05	80	56	68	13.0				0	3	0556	1731		0.00			29.90		5.3	17	240	13	240
06	78	50	64	9.4				1	0	0557	1729	BR	0.00			29.90		1.9	14	230	10	260
07	80	57	68	13.8				0	3	0558	1728		0.00			29.88		3.8	20	150	14	150
08	80*	69	74	20.2				0	9	0600	1726	RA BR	0.41			29.73		4.9	21	170	14	170
09	77	69	73	19.6				0	8	0601	1724	TS RA BR	0.68			29.70		6.0	26	170	16	160
10	79	55	67	14.0				0	2	0602	1723	FG BR	0.00			29.85		1.8	11	300	8	280
11	74	51	62	9.4				3	0	0603	1721	RA BR	0.04			29.96		5.0	18	320	14	010
12	64	45	54	1.7				11	0	0604	1719	RA	0.04			30.16		5.8	19	050	15	040
13	65	41	53	1.1				12	0	0605	1718		0.00			30.24		3.4	16	140	13	130
14	70	53	62	10.5				3	0	0606	1716	BR	0.00			30.06		1.3	12	210	10	210
15	76	54	65	13.8				0	0	0607	1715	RA BR	0.05			29.78		6.6	24	250	16	230
16	65	37	51	0.2				14	0	0608	1713	RA	0.01			29.80		7.5	24	340	17	330
17	58	30*	44	-6.5				21	0	0610	1712		0.00			30.09		1.6	12	160	8	170
18	71	39	55	4.9				10	0	0611	1710		0.00			30.08		2.8	14	250	9	220
19	73	39	56	6.2				9	0	0612	1709		0.00			29.97		3.2	23	210	17	220
20	73	41	57	7.5				8	0	0613	1707		0.00			29.92		2.8	14	350	12	360
21	78	36	57	7.9				8	0	0614	1706		0.00			30.11		1.3	13	230	10	240
22	77	39	58	9.2				7	0	0615	1704		0.00			30.17		1.7	15	150	10	170
23	72	45	58	9.5				7	0	0617	1703		0.00			30.04		5.7	28	160	16	150
24	75	60	68	19.8				0	3	0618	1701	TS RA FG BR	0.62			29.63		8.9	33	140	22	170
25	63	50	56	8.1				9	0	0619	1700	FG BR	0.00			29.52		1.2	11	240	8	230
26	60	46	53	5.4				12	0	0620	1658		0.00			29.52		8.6	27	020	20	360
27	63	39	51	3.7				14	0	0621	1657		0.00			29.83		3.5	18	230	13	220
28	68	36	52	5.0				13	0	0622	1656		0.00			29.80		4.0	26	150	17	180
29	68	57	62	15.3				3	0	0624	1654	RA BR	1.89			29.47		5.3	42	210	28	220
30	68s	47	58s	11.6s				7s	0s	0625	1653	RA	0.13			29.17		11.5	39	260	29	250
31	55	33	44	-2.2				21	0	0626	1652		0.00			29.80		5.8	27	250	22	240
	70.5	46.3	58.4							Monthly Averages | Totals			3.87s			29.91	30.07	4.3				
	7.4	7.3	7.4	Departure from Normal (1981-2010)									-0.60s									

Degree Days

	Monthly		Season-to-date	
	Total	Departure	Total	Departure
Heating	228	-208	346	
Cooling	29	25	699	

Number of days with...

	Temperature				Precipitation		Snow	Weather	
	Max		Min						
	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog
Heating									
Cooling	0	0	1	0	8s	4s			

Date of 5-sec to 3-sec wind equipment change

N/A

Sea Level Pressure

		Date	Time
Maximum	30.63	03	0949
Minimum	28.80	29	2328

Greatest...

24-Hr...		Snow Depth
Precip	Snowfall	
1.98s		
Date		
29-30		

Station Augmentation

Name:N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 166 ft. Lat: 41.6257° N Lon: -73.8816° W
Station: **POUGHKEEPSIE AIRPORT, NY US 14757**

Local Climatological Data
Daily Summary
November 2017

Generated on 04/12/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH / Direction = Degrees			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set	Weather Type	TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL	Avg Speed	Peak Speed	Peak Dir	Sust. Speed	Sust. Dir
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	47	29	38	-7.9				27	0	0627	1650		0.01			30.12		0.3	7	040	6	360
02	72*	45	58	12.4				7	0	0628	1649	RA	T			30.03		3.3	25	150	13	160
03	71	45	58	12.7				7	0	0630	1648		T			29.88		7.1	26	330	20	310
04	56	34	45	-0.1				20	0	0631	1647		0.00			30.12		2.8	14	330	10	300
05	59	44	52	7.2				13	0	0632	1646	RA BR	0.04			30.04		2.3	17	140	14	140
06	65	40	52	7.5				13	0	0633	1645	RA BR	0.06			29.75		6.2	23	030	16	020
07	46	34	40	-4.2				25	0	0634	1643	RA UP	0.08			30.01		7.5	25	040	20	010
08	49	28	38	-5.9				27	0	0636	1642	BR	0.00			30.07		4.7	16	020	13	360
09	52	24	38	-5.7				27	0	0637	1641	RA BR	0.02			29.98		2.8	16	210	10	210
10	48	19	34	-9.4				31	0	0638	1640		0.00			29.99		12.9	34	290	26	330
11	35	14*	24	-19.1				41	0	0639	1639		0.00			30.34		4.3	26	350	18	030
12	45	20	32	-10.8				33	0	0641	1638		0.00			30.27		1.3	12	210	9	240
13	41	27	34	-8.5				31	0	0642	1637	SN UP	0.02			30.16		1.8	9	010	8	010
14	43	25	34	-8.2				31	0	0643	1636	BR	0.00			30.14		2.2	12	360	9	020
15	48	24	36	-5.9				29	0	0644	1636	BR	0.00			30.06		1.6	15	150	10	140
16	57	43	50	8.4				15	0	0645	1635	RA BR	0.21			29.67		6.9	32	270	25	310
17	48	22	35	-6.3				30	0	0647	1634		0.00			29.81		7.3	30	330	21	330
18	46	20	33	-8.0				32	0	0648	1633	RA BR	0.17			29.65		2.9	20	180	13	170
19	58	36	47	6.3				18	0	0649	1632	RA BR	0.09			29.23		12.1	41	310	31	270
20	44	33	38	-2.3				27	0	0650	1632		0.00			29.76		10.5	33	300	23	280
21	58	25	42	2.0				23	0	0651	1631		0.00			29.86		3.4	18	170	13	150
22	47	31	39	-0.7				26	0	0653	1630	RA BR	0.03			29.77		5.4	27s	320s	20	320
23	43	20	32	-7.3				33	0	0654	1630		0.00			29.87		2.4	14	280	9	350
24	50	24	37	-2.0				28	0	0655	1629		0.00			29.80		3.0	12	240	9	240
25	58	24	41	2.4				24	0	0656	1629		0.00			29.58		2.1	22	230	16	230
26	47	34	40	1.7				25	0	0657	1628		0.00			29.69		9.2	26	260	21	270
27	48	25	36	-1.9				29	0	0658	1628		0.00			29.85		8.3	36s	280s	24	270
28	47	21	34	-3.5				31	0	0659	1627	BR	0.00			30.16		2.5	20	180	15	180
29	62	28	45	7.8				20	0	0700	1627	BR	0.00			29.93		6.9	30	280	22	300
30	48	20	34	-2.8				31	0	0702	1627	RA BR	0.09			30.04		2.3	17	160	14	170
	51.3	28.6	40.0							Monthly Averages | Totals			0.82			29.92	30.09	4.9				
	-1.0	-2.3	-1.6	Departure from Normal (1981-2010)									-2.65									

Degree Days

	Monthly		Season-to-date	
	Total	Departure	Total	Departure
Heating	750	48	1097	
Cooling	0	0	699	

Number of days with...

	Temperature				Precipitation		Snow	Weather	
	Max		Min						
	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog
Heating									
Cooling	0	0	20	0	11	2			

Date of 5-sec to 3-sec wind equipment change	Sea Level Pressure			
			Date	Time
N/A	Maximum	30.59	11	1035
	Minimum	29.12	19	0627

Greatest...		
24-Hr...		Snow Depth
Precip	Snowfall	
0.26s		
Date		
18-19		

Station Augmentation

Name:N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 166 ft. Lat: 41.6257° N Lon: -73.8816° W
Station: **POUGHKEEPSIE AIRPORT, NY US 14757**

Local Climatological Data
Daily Summary
December 2017

Generated on 04/12/2018

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH / Direction = Degrees			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set	Weather Type	TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL	Avg Speed	Peak Speed	Peak Dir	Sust. Speed	Sust. Dir
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	50	25	38	1.6				27	0	0703	1626	RA FG FZFG BR	0.01			29.96		2.2	17	030	13	030
02	45	21	33	-3.1				32	0	0704	1626		0.00			30.08		0.0	6	310	6	330
03	46	25	36	0.3				29	0	0705	1626	BR	0.00			30.03		0.1	7	340	3	110
04	43	25	34	-1.3				31	0	0706	1626	FG FZFG BR	0.00			30.21		0.4	11	130	8	140
05	59*	41	50	15.1				15	0	0707	1625	RA BR	0.27			29.95		6.2	20s	140s	10	170
06	57	26	42	7.5				23	0	0708	1625	RA	0.05			29.70		8.3	44	240	29	270
07	44	30	37	2.8				28	0	0709	1625		0.00			29.77		8.5	25	240	21	240
08	35	21	28	-5.8				37	0	0709	1625		0.00			29.83		4.0	15	210	10	240
09	33	25	29	-4.4				36	0	0710	1625	SN FZFG BR FG	0.24			29.70		1.7	10	340	8	360
10	37	23	30	-3.0				35	0	0711	1625	FZFG BR FG	0.00			29.65		7.6	26	250	21	250
11	37	30	34	1.3				31	0	0712	1625		0.00	0.0		29.80		5.0	17	260	13	250
12	40	26	33	0.7				32	0	0713	1625	RA FG BR UP	0.10			29.43		4.3	28	270	20	280
13	26	18	22	-9.9				43	0	0714	1626		0.00			29.34		13.8	43	250	28	260
14	30	9	20	-11.6				45	0	0714	1626	SN BR	0.03			29.57		6.3	24	270	18	280
15	24	8	16	-15.2				49	0	0715	1626	SN BR	T			29.83		1.0	13	240	10	240
16	32	16	24	-6.8				41	0	0716	1626		0.00			29.84		5.8	22	230	16	250
17	30	15	22	-8.5				43	0	0717	1627		0.00			30.08		1.5	9	340	7	340
18	38	27	32	1.8				33	0	0717	1627		0.00			29.87		1.1	7	240	6	240
19	53	35	44	14.2				21	0	0718	1627	BR HZ	0.00			29.61		5.7	24	240	17	230
20	47	25	36	6.5				29	0	0718	1628		0.00			29.70		9.2	37	280	24	280
21	38	22	30	0.8				35	0	0719	1628		0.00			30.01		1.6	11	340	8	040
22	35	26	30	1.1				35	0	0719	1629	UP	Ts			30.04		1.4	10	020	8	030
23	39	32	36	7.4				29	0	0720	1629	RA FG BR UP	0.63			29.72		1.6	12	360	10	350
24	39	29	34	5.7				31	0	0720	1630	SN BR UP	0.01			29.92		5.8	17	050	13	040
25	35	21	28	-0.1				37	0	0721	1631	FZRA SN FZFG BR FG	0.21			29.62		10.1	39	270	28	260
26	25	10	18	-9.8				47	0	0721	1631		0.00			30.17		8.7	25	260	17	260
27	22	4	13	-14.5				52	0	0721	1632		0.00			30.29		5.8	24	270	18	260
28	16	1	8	-19.3				57	0	0722	1633		0.00			30.31		5.1	22	290	17	280
29	20	1	10	-17.1				55	0	0722	1633	HZ	0.00			30.11		2.5	15	010	10	360
30	20	2	11	-15.9				54	0	0722	1634	SN BR HZ	0.01			29.88		1.3	9	210	7	220
31	16	-4*	6	-20.7				59	0	0722	1635		0.00			30.00		6.7	26	330	18	320
	35.8	19.8	27.8							Monthly Averages | Totals			1.56			29.87	30.04	4.7				
	-4.5	-2.1	-3.3	Departure from Normal (1981-2010)									-1.97									

Degree Days

	Monthly		Season-to-date	
	Total	Departure	Total	Departure
Heating	1148	97	2245	
Cooling	0	0	699	

Number of days with...

	Temperature				Precipitation		Snow	Weather	
	Max		Min						
	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog
Heating									
Cooling	0	11	29	1	10	5			

Date of 5-sec to 3-sec wind equipment change

N/A

Sea Level Pressure

		Date	Time
Maximum	30.56	28	0954
Minimum	29.38	12	1717

Greatest...

24-Hr...		Snow Depth
Precip	Snowfall	
0.63		
Date		
23-23		

Station Augmentation

Name:N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A

Local Climatological Data (LCD) Dataset Documentation

The Local Climatological Data (LCD) summaries provide a synopsis of climatic values for a single weather station over a specific month. The summaries are a product of surface observations from both manual and automated (AWOS, ASOS) stations with source data taken from the National Centers for Environmental Information's Integrated Surface Data (ISD) dataset. Geographic availability includes thousands of locations worldwide. Climatic values given include hourly, daily, and monthly measurements of temperature, dew point, humidity, winds, sky condition, weather type, atmospheric pressure and more.

General conventions: Times are in Local Standard Time (LST) unless otherwise noted. Temperatures are given in whole degrees F and tenths of degrees C (as noted below). Wind speeds are in miles per hour, with wind direction given using a 360 degree compass indicating the direction from which the wind was blowing with respect to true north (e.g. 360 = winds blowing from true north, 180 = south, etc.). Precipitation amounts are given in inches, usually to the nearest hundredth, unless otherwise noted. Trace amounts of precipitation are indicated with a "T." Departures from normal are given for some elements using 1981-2010 as the standard for normal. Further information concerning these generalities and units of measure are given where needed for each section below.

Table of Contents:

Daily Summary/Monthly Summary
Hourly Observations
Hourly Remarks
Hourly Precipitation Table
CSV and ASCII Data Files
Present Weather Appendix

Daily Summary/Monthly Summary:

Daily Summary:

The month and year as well as the station information (location, latitude, longitude, elevation) are included in the heading at the top of the table. A description of the daily data values follows:

Date: Date (day of month given in two digits) Note: Month and year are given in the heading.

Temperature - Max: Maximum temperature for the day (in whole degrees Fahrenheit). An asterisk (*) is used to designate when a daily maximum temperature is also the extreme maximum for the month.

Temperature - Min: Minimum temperature for the day (in whole degrees Fahrenheit). An asterisk (*) is used to designate when a daily minimum temperature is also the extreme minimum for the month.

Temperature - Avg: Average temperature for the day (in whole degrees Fahrenheit). This is based on the arithmetic average of the maximum and minimum temperature for the day.

Temperature - Dep: Average temperature's departure from (1981-2010) normal temperature (in whole Fahrenheit degrees using "-" to indicate below normal)

Temperature - ARH: Average daily relative humidity (in whole percent)

Temperature - ADP: Average daily dew point temperature (in whole degrees Fahrenheit)

Temperature - AWB: Average daily wet-bulb temperature (in whole degrees Fahrenheit)

Degree Days - Heat: Heating degree days (in whole degrees using a 65 degree F base)

Degree Days - Cool: Cooling degree days (in whole degrees using a 65 degree F base)

Sun - Rise: Time of sunrise using a 24-hour clock (Local Standard Time – Daylight Savings Time is not used)

Sun - Set: Time of sunset using a 24-hour clock (Local Standard Time – Daylight Savings Time is not used)

Weather (WT):** Daily occurrences of weather types. The 2-digit number in each designation corresponds to the WT (weather type code) used in GHCN-Daily dataset. For example WT01 in GHCN-Daily is represented as FG:01 (fog) in the LCD. Contractions used are given below.

FG:01 (WT01) - Fog, ice fog, or freezing fog (may include heavy fog)
FG+:02 (WT02) - Heavy fog or heavy freezing fog (not always distinguished from fog)
TS:03 (WT03) - Thunder
PL:04 (WT04) - Ice pellets, sleet, snow pellets or small hail
GR:05 (WT05) - Hail (may include small hail)
GL:06 (WT06) - Glaze or rime
DU:07 (WT07) - Dust, volcanic ash, blowing dust, blowing sand or blowing obstruction
HZ:08 (WT08) - Smoke or haze
BLSN:09 (WT09) - Blowing or drifting snow
FC:10 (WT10) - Tornado, water spout or funnel cloud
WIND:11 (WT11) - High or damaging winds
BLPY:12 (WT12) - Blowing spray
BR:13 (WT13) - Mist
DZ:14 (WT14) - Drizzle
FZDZ:15 (WT15) - Freezing drizzle
RA:16 (WT16) - Rain
FZRA:17 (WT17) - Freezing rain
SN:18 (WT18) - Snow, snow pellets, snow grains or ice crystals
UP:19 (WT19) - Unknown precipitation
MIFG:21 (WT21) - Ground fog
FZFG:22 (WT22) - Ice fog or freezing fog

Precipitation - Total Liquid Content (TLC): Water equivalent amount of precipitation for the day (in inches to hundredths). This is all types of precipitation (melted and frozen). T indicates trace amount of precipitation. If left blank, precipitation amount is unreported.

Precipitation - Snowfall: Daily amount of snowfall (in inches to the tenths). T indicates trace amount.

Precipitation - Snow Depth: Daily reading of snow on ground (in whole inches). T indicates trace amount.

Pressure - Avg Stn: Daily average station pressure (in inches of mercury, to hundredths)

Pressure - Avg SL: Daily average sea level pressure (in inches of mercury, to hundredths)

Wind - Avg Spd: Daily average wind speed in miles per hour miles per hour, to tenths)

Maximum Wind Speed - Peak Speed: peak wind speed for the day (in whole miles per hour)

Maximum Wind Speed - Peak Dir: direction of wind during peak wind speed for the day given as direction from which wind was blowing using a 360 degree compass with respect to true north (e.g north = 360, south = 180, etc.)

Maximum Wind Speed - Sust. Speed: maximum sustained wind speed for the day (in whole miles per hour). Note: For U.S. locations this is the fastest reported speed for the day that is sustained for at least 2 minutes for years 1994 and later. For earlier years it is the fastest reported speed sustained for at least 1 minute.

Maximum Wind Speed - Sust. Dir): direction of wind during maximum sustained wind speed for the day given as direction from which wind was blowing using a 360 degree compass with respect to true north

Monthly Summary:

The bottom section of the Daily Summary form includes information such as monthly maximum, minimum and mean temperatures, average dew point, wet-bulb and relative humidity, monthly total heating and cooling degree days, precipitation and snowfall totals, etc. Departures from normal (using 1981-2010 normals) are also included for both temperature, precipitation as well as a tally of the number of days selected temperature thresholds (max temperature >=90/<=32, min <=32/<=0) and precipitation thresholds (>=0.01 and >=0.10) were reached, number of snowfall days > = 1 inch, number of days thunderstorms or heavy fog are reported, etc. The month's greatest amount of precipitation to fall in 24 hours is also given (amount and date) as well as the 24 hour greatest snowfall (amount and date) and highest snow depth (height and date). Monthly and season-to-date totals are computed for heating and cooling degree day data and departures from 1981-2010 normal are also given with these. The extreme highest and lowest sea -level pressures recorded and the dates they occurred are also given. Units used are consistent with what appears in the upper part of the table (described above). These data originate from the Integrated Surface Data (ISD). More very technical details regarding these observations can be found in the ISD documentation located at www1.ncdc.noaa.gov/pub/data/ish/ish-format-document.pdf .

Appendix D

Groundwater Analytical Data (Organics): January 1, 2017 to December 31, 2017
Groundwater Analytical Data (Inorganics): January 1, 2017 to December 31, 2017

Former IBM East Fishkill Facility
Groundwater Analytical Data - Organics
January 1, 2017 - December 31, 2017

Sample Location		007	010	010	015	015	015
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		04/10/2017	04/07/2017	10/17/2017	05/09/2017	05/09/2017	10/26/2017
Laboratory Sample I.D.		8936119	8929628	9269447	8985553	8985555	9287945
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@10	ND@10	ND@50
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	0.6	1	ND@10	ND@10	ND@50
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	3.0	6.6	ND@10	ND@10	ND@50
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	0.3 J	0.9	ND@10	ND@10	ND@50
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@100	ND@100	ND@500
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@10	ND@10	ND@50
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	0.4 J	1.4	17	15	46 J
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@10	ND@10	ND@50
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@10	ND@10	ND@50
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@10	ND@10	ND@50
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@10	ND@10	ND@50
TETRACHLOROETHYLENE	ug/l	ND@0.5	20	36	3400	3300	4700
TRICHLOROETHYLENE	ug/l	ND@0.5	5.9	12	28	27	72
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@10	ND@10	ND@50
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@10	ND@10	ND@50

Former IBM East Fishkill Facility
Groundwater Analytical Data - Organics
January 1, 2017 - December 31, 2017

Sample Location		016	016	046	046	046	046	
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	
Sample Date		04/12/2017	10/19/2017	01/10/2017	01/10/2017	04/19/2017	07/06/2017	
Laboratory Sample I.D.		8941200	9275123	8785327	8785328	8952415	9092394	
Sample Comment Codes								
Parameter	**Units**							
Base/Neutral Extractables								
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	
Volatile Organics								
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	
CIS-1,2-DICHLOROETHYLENE	ug/l	0.9	1	ND@0.5	ND@0.5	ND@0.5	ND@0.5	
DICHLORODIFLUOROMETHANE	ug/l	12	13	ND@0.5	ND@0.5	ND@0.5	ND@0.5	
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	
TETRACHLOROETHYLENE	ug/l	14	15	1.5	1.6	0.9	0.5	J
TRICHLOROETHYLENE	ug/l	2.0	2.2	ND@0.5	ND@0.5	ND@0.5	ND@0.5	
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	

Former IBM East Fishkill Facility
Groundwater Analytical Data - Organics
January 1, 2017 - December 31, 2017

Sample Location		046	048	048	048	048	053
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/16/2017	01/10/2017	04/05/2017	07/06/2017	10/16/2017	04/10/2017
Laboratory Sample I.D.		9269431	8785326	8925545	9092418	9269637	8936252
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	0.2 J	0.2 J	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	1.9	0.2 J	1.4	1.5	0.4 J	0.3 J
TRICHLOROETHYLENE	ug/l	0.1 J	ND@0.5	ND@0.5	0.2 J	0.2 J	0.1 J
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

Former IBM East Fishkill Facility
Groundwater Analytical Data - Organics
January 1, 2017 - December 31, 2017

Sample Location		053	054	054	059	060	061
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/18/2017	04/12/2017	10/18/2017	04/17/2017	04/17/2017	04/11/2017
Laboratory Sample I.D.		9276047	8941199	9275114	8947280	8947281	8936132
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	0.2 J	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	0.7	3.9	6.9	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	2.3	2.4	3.2	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	1.4	6.3	8.6	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	0.1 J	ND@0.5	ND@0.5	ND@0.5

Former IBM East Fishkill Facility
Groundwater Analytical Data - Organics
January 1, 2017 - December 31, 2017

Sample Location		064	064	064	064	065	065
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/11/2017	04/05/2017	07/06/2017	10/16/2017	01/10/2017	04/05/2017
Laboratory Sample I.D.		8785331	8925540	9092415	9269635	8785330	8925541
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	0.2 J	0.1 J	0.1 J	0.5 J	0.3 J	0.1 J
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	0.1 J	0.2 J	0.1 J
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		065	065	065	066	066	066
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		07/06/2017	07/06/2017	10/16/2017	01/10/2017	04/05/2017	07/06/2017
Laboratory Sample I.D.		9092416	9092417	9269636	8785323	8925547	9092421
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	0.1 J	0.1 J	0.2 J	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	0.1 J	0.1 J	0.1 J	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		066	067	067	067	067	068
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/16/2017	01/10/2017	04/05/2017	07/06/2017	10/16/2017	01/10/2017
Laboratory Sample I.D.		9269642	8785324	8925548	9092422	9269643	8785322
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	2.2
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		068	068	068	068	069	085
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		04/18/2017	07/07/2017	10/18/2017	10/18/2017	04/20/2017	04/17/2017
Laboratory Sample I.D.		8947290	9092428	9275115	9275116	8952425	8947284
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	1.3	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		085	087	087	103	103	104
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/20/2017	04/17/2017	10/17/2017	04/10/2017	10/19/2017	04/10/2017
Laboratory Sample I.D.		9277827	8947283	9269653	8936255	9276050	8936256
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	0.4 J	2.0	0.4 J
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.4 J	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		104	104	105	105	106	109
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		05/02/2017	10/27/2017	04/12/2017	10/19/2017	05/09/2017	04/12/2017
Laboratory Sample I.D.		8974993	9288740	8941197	9275119	8985552	8941198
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	0.1 J	ND@0.5	0.1 J	0.2 J	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	4.3	0.7	0.3 J	0.3 J	0.2 J	0.1 J
TRICHLOROETHYLENE	ug/l	0.5 J	ND@0.5	0.2 J	0.4 J	0.3 J	1.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	0.1 J	ND@0.5	ND@0.5

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Sample Location		109	113	113	118	143	146
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/19/2017	04/21/2017	10/18/2017	05/08/2017	04/10/2017	04/11/2017
Laboratory Sample I.D.		9275124	8955055	9275117	8985549	8936121	8936131
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@1000	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@1000	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	1500	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@1000	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@10000	ND@5.0	3.7 J
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@1000	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	0.1 J	ND@0.5	230 J	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@1000	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@1000	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@1000	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@1000	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	0.1 J	2.3	2.1	210000	0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	1.4	0.3 J	0.3 J	1000	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@1000	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@1000	ND@0.5	ND@0.5

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Sample Location		151	151	156	156	156	167
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		04/14/2017	10/18/2017	05/03/2017	10/19/2017	10/19/2017	05/09/2017
Laboratory Sample I.D.		8941949	9276044	8975005	9275120	9275121	8985551
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	3.2 J	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	0.1 J	0.2 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		167	178	181	181	181	204
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		10/20/2017	04/10/2017	04/21/2017	04/21/2017	10/19/2017	04/20/2017
Laboratory Sample I.D.		9277832	8936249	8955056	8955057	9275125	8952423
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	0.3 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	0.6	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	27	21	6.2	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	11	12	18	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	0.2 J	2.0	23	25	44	0.3 J
TRICHLOROETHYLENE	ug/l	ND@0.5	0.4 J	9.1	9.4	20	0.1 J
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	2.6	2.7	6.1	ND@0.5

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Sample Location		502	520	520	520	520	521
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		05/02/2017	01/11/2017	04/05/2017	07/07/2017	10/16/2017	01/11/2017
Laboratory Sample I.D.		8974999	8785348	8925554	9092426	9269639	8785350
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	0.1 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		521	521	521	543	543	543
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		04/05/2017	07/07/2017	10/16/2017	01/11/2017	01/11/2017	04/05/2017
Laboratory Sample I.D.		8925555	9092427	9269640	8785346	8785347	8925552
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	4.2 J	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	0.6	0.6	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		543	543	545	545	545	545
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		07/06/2017	10/16/2017	01/11/2017	04/05/2017	07/06/2017	07/06/2017
Laboratory Sample I.D.		9092396	9269433	8785349	8925553	9092397	9092398
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J	0.1 J
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	0.4 J	0.1 J	0.1 J	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	0.1 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		545	545	559	559	561	561
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		10/16/2017	10/16/2017	04/21/2017	10/19/2017	04/21/2017	04/21/2017
Laboratory Sample I.D.		9269434	9269435	8955078	9276052	8955079	8955080
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	6.7	7.3	0.5 J	0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	0.1 J	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	6.2	7.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	4.7	4.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	0.3 J	2.0	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	150	140	4.5	4.6
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	67	59	6.2	6.3
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	140	140	2.2	2.2
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	1.8	8.1	0.1 J	0.1 J

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Sample Location		561	563	563	564	564	571
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/19/2017	05/03/2017	10/18/2017	05/03/2017	10/18/2017	04/04/2017
Laboratory Sample I.D.		9276051	8975004	9275111	8975003	9275110	8925539
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	0.9	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	0.1 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	38	1.3	1.9	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	46	1.2	1.4	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	9.6	2.2	3.0	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	1.4	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		572	574	576	576	577	577
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		05/12/2017	04/04/2017	04/10/2017	10/19/2017	04/12/2017	10/20/2017
Laboratory Sample I.D.		8992468	8925538	8936250	9276049	8941202	9277833
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1000	ND@100	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1000	ND@100	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1000	ND@100	0.6	0.6	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1000	ND@100	0.6	0.6	ND@0.5	ND@0.5
ACETONE	ug/l	ND@10000	ND@1000	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1000	ND@100	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	1000	ND@100	0.3 J	0.3 J	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@1000	ND@100	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@1000	ND@100	ND@0.5	ND@0.5	0.1 J	ND@0.5
M,P-XYLENE	ug/l	ND@1000	ND@100	ND@0.5	ND@0.5	0.5 J	ND@0.5
O-XYLENE	ug/l	ND@1000	ND@100	ND@0.5	ND@0.5	0.2 J	ND@0.5
TETRACHLOROETHYLENE	ug/l	220000	25000	18	12	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	1000	110	1.6	3.4	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@1000	ND@100	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@1000	ND@100	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		579	580	581	600	601	601
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		05/08/2017	05/02/2017	04/19/2017	04/10/2017	04/11/2017	10/19/2017
Laboratory Sample I.D.		8985545	8974995	8952417	8936251	8936130	9275126
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.2 J	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	0.4 J	ND@0.5	ND@0.5	ND@0.5	2.9	2.7
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	0.3 J	ND@0.5	0.2 J	0.4 J	0.4 J
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	0.1 J	1.7	1.6
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		602	603	604	607	607	609
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/10/2017	04/10/2017	04/17/2017	04/13/2017	10/19/2017	05/04/2017
Laboratory Sample I.D.		8936253	8936254	8947282	8941205	9276054	8979641
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@13	ND@25	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@13	ND@25	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	24	86	0.2 J
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	5.2 J	10 J	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@130	ND@250	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@13	5.7 J	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	1200	2500	0.3 J
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@13	ND@25	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@13	ND@25	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@13	ND@25	0.1 J
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@13	ND@25	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	2700	5600	3.4
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	370	740	2.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@13	ND@25	0.9
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@13	32	ND@0.5

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Sample Location		609	610	610	611	622	622
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/23/2017	04/13/2017	10/23/2017	05/11/2017	05/04/2017	10/23/2017
Laboratory Sample I.D.		9282161	8941204	9282159	8990481	8979640	9282160
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	29	22	ND@0.5	0.4 J	0.3 J
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@0.5	1.4	1.2
ACETONE	ug/l	ND@5.0	ND@50	ND@50	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	0.3 J	89	57	ND@0.5	10	7.4
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	2.5	920	750	0.6	0.1 J	ND@0.5
TRICHLOROETHYLENE	ug/l	2.1	360	270	0.1 J	2.4	2.0
TRICHLOROFLUOROMETHANE	ug/l	0.8	1.6 J	1.7 J	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@0.5	0.2 J	0.2 J

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Sample Location		623	623	623	623	624	624
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		05/11/2017	05/11/2017	10/25/2017	10/25/2017	05/11/2017	10/25/2017
Laboratory Sample I.D.		8990479	8990480	9287912	9287913	8990482	9287911
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	4.3 J	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	1.0	1.1
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	100	110	200	190	1.4	1.4
TRICHLOROETHYLENE	ug/l	0.2 J	0.1 J	0.2 J	0.2 J	2.0	2.0
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		627	627	627	640	640	701
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/10/2017	04/06/2017	07/07/2017	04/14/2017	10/18/2017	04/14/2017
Laboratory Sample I.D.		8785342	8929615	9092412	8941948	9276046	8941950
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	4.7	3.1	8.6	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.4 J	0.5	1.1	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	37	20	25	5.9	12	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	7.8	8.6	11	48	78	ND@0.5
TRICHLOROETHYLENE	ug/l	6.1	4.7	6.3	9.8	19	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		702	702	706	706	711	714
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/07/2017	10/17/2017	04/21/2017	10/19/2017	05/05/2017	01/10/2017
Laboratory Sample I.D.		8929635	9269450	8955081	9276053	8979642	8785329
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@0.5	1.4
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@0.5	31
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@0.5	6.2
ACETONE	ug/l	ND@5.0	ND@5.0	ND@25	ND@25	ND@5.0	4.5 J
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	340	380	ND@0.5	2.1
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	0.9	1.8	12	16	ND@0.5	27
TRICHLOROETHYLENE	ug/l	ND@0.5	0.3 J	3.8	4.9	ND@0.5	9.6
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	31	38	ND@0.5	ND@0.5

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Sample Location		714	714	716	716	720	720
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/07/2017	10/17/2017	04/28/2017	10/24/2017	05/09/2017	10/19/2017
Laboratory Sample I.D.		8929627	9269446	8966845	9282162	8985557	9275122
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@2.5	ND@1.0	ND@5.0	ND@5.0	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	4.4	3.1	ND@5.0	ND@5.0	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	16	60	79	52	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	2.5	6.7	ND@5.0	ND@5.0	ND@0.5	ND@0.5
ACETONE	ug/l	ND@25	10	ND@50	ND@50	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@2.5	ND@1.0	ND@5.0	ND@5.0	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	19	5.9	8.7	9.8	0.5 J	0.7
DICHLORODIFLUOROMETHANE	ug/l	ND@2.5	ND@1.0	ND@5.0	ND@5.0	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@2.5	ND@1.0	ND@5.0	ND@5.0	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@2.5	ND@1.0	ND@5.0	ND@5.0	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@2.5	ND@1.0	ND@5.0	ND@5.0	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	250	180	600	820	1.9	2.3
TRICHLOROETHYLENE	ug/l	44	43	12	13	0.3 J	0.4 J
TRICHLOROFLUOROMETHANE	ug/l	ND@2.5	ND@1.0	ND@5.0	ND@5.0	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@2.5	ND@1.0	ND@5.0	ND@5.0	ND@0.5	ND@0.5

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Sample Location		722	732	732	732	734	734
Sample Description		GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		05/09/2017	05/12/2017	05/12/2017	10/26/2017	04/27/2017	10/25/2017
Laboratory Sample I.D.		8985558	8992470	8992471	9287915	8966843	9287941
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@10	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@10	0.3 J	0.3 J
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	190	210	260	1.7	1.8
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	4.5 J	4.5 J	5.5 J	1.1	1.2
ACETONE	ug/l	ND@5.0	ND@50	ND@50	70 J	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@10	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	140	140	170	3.6	3.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@10	0.3 J	0.2 J
ETHYLBENZENE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@10	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@10	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@10	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	1200	1400	2100	53	56
TRICHLOROETHYLENE	ug/l	ND@0.5	310	350	480	14	15
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	3.1 J	3.6 J	4.6 J	0.3 J	0.4 J
VINYL CHLORIDE	ug/l	ND@0.5	ND@5.0	ND@5.0	ND@10	ND@0.5	ND@0.5

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Sample Location		735	735	735	735	737	737
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/12/2017	04/06/2017	07/10/2017	10/17/2017	04/12/2017	10/23/2017
Laboratory Sample I.D.		8787080	8929613	9095745	9269443	8941201	9282158
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@5.0	ND@0.5	ND@5.0	ND@5.0	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@5.0	ND@0.5	ND@5.0	ND@5.0	0.2 J	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	94	140	340	250	11	11
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	2.3 J	3.3	3.9 J	3.0 J	0.6	0.8
ACETONE	ug/l	ND@50	27	ND@50	ND@50	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@5.0	ND@0.5	ND@5.0	ND@5.0	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	54	8.3	8.3	17	0.8	0.4 J
DICHLORODIFLUOROMETHANE	ug/l	ND@5.0	ND@0.5	ND@5.0	ND@5.0	0.1 J	0.1 J
ETHYLBENZENE	ug/l	ND@5.0	ND@0.5	ND@5.0	ND@5.0	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@5.0	ND@0.5	ND@5.0	ND@5.0	0.1 J	ND@0.5
O-XYLENE	ug/l	ND@5.0	ND@0.5	ND@5.0	ND@5.0	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	250	110	680	430	26	13
TRICHLOROETHYLENE	ug/l	23	13	25	21	3.5	2.3
TRICHLOROFLUOROMETHANE	ug/l	ND@5.0	ND@0.5	ND@5.0	ND@5.0	0.6	0.5
VINYL CHLORIDE	ug/l	ND@5.0	ND@0.5	ND@5.0	ND@5.0	ND@0.5	ND@0.5

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Sample Location		739	740	740	740	742	742
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		05/11/2017	04/07/2017	07/07/2017	10/17/2017	04/20/2017	10/24/2017
Laboratory Sample I.D.		8990483	8929598	9092407	9269652	8955054	9282155
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.6	ND@0.5	ND@0.5	0.3 J	0.2 J	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	2.8	1	5.0	0.1 J	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	0.4 J	1.4	1.5	2.8	0.4 J	0.3 J
TRICHLOROETHYLENE	ug/l	ND@0.5	2.5	2.4	5.1	0.2 J	0.1 J
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		743	744	744	745	751	753
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		05/02/2017	04/14/2017	10/18/2017	04/14/2017	05/03/2017	05/03/2017
Laboratory Sample I.D.		8974998	8941947	9276045	8941946	8975002	8975001
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	0.1 J	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	0.2 J	0.2 J	ND@0.5	0.8	0.7
TRICHLOROETHYLENE	ug/l	ND@0.5	0.4 J	0.4 J	ND@0.5	0.3 J	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.4 J	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		754	755	755	756	756	757
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/20/2017	04/20/2017	10/18/2017	01/11/2017	05/02/2017	01/10/2017
Laboratory Sample I.D.		8952420	8952422	9276042	8785345	8974997	8785341
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.4 J
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	0.5 J	0.4 J	1.6	2.5	0.5 J
TRICHLOROETHYLENE	ug/l	ND@0.5	0.2 J	0.1 J	ND@0.5	ND@0.5	2.0
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		757	757	757	757	761	763
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		04/19/2017	07/06/2017	10/16/2017	10/16/2017	04/07/2017	04/07/2017
Laboratory Sample I.D.		8952419	9092403	9269440	9269441	8929632	8929630
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.3 J
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.6
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	0.3 J	0.3 J	0.4 J	0.4 J	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	0.5	0.7	0.9	0.8	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	2.0	2.5	3.4	3.3	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		766	766	766	766	766	766
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		01/12/2017	01/12/2017	04/06/2017	07/06/2017	10/17/2017	10/17/2017
Laboratory Sample I.D.		8787071	8787072	8929596	9092405	9269645	9269646
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	3.1	3.1	2.2	2.1	2.4	2.2
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.3 J	0.3 J	ND@0.5	ND@0.5	0.3 J	0.3 J
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	3.0	3.1	3.1	2.6	2.7	2.6
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	0.3 J	0.3 J	0.8	1.3	0.9	0.8
TRICHLOROETHYLENE	ug/l	0.9	0.9	1.4	1.9	1.4	1.3
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	0.9	0.9	0.6	0.5 J	0.4 J	0.4 J

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Sample Location		767	767	767	767	768	768
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/12/2017	04/07/2017	07/10/2017	10/17/2017	01/12/2017	04/06/2017
Laboratory Sample I.D.		8787076	8929600	9095742	9269644	8787077	8929622
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	1.4	0.6	0.7	1	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	2.4	0.9	0.6	0.3 J	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	0.6	0.3 J	0.4 J	0.5 J	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	18	9.7	9.5	7.1	1.5	1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	0.5	0.6	0.5	0.4 J	5.1	3.9
TRICHLOROETHYLENE	ug/l	2.6	1.3	1.7	2.2	9.0	7.3
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	1.6	0.6	0.4 J	0.3 J	ND@0.5	ND@0.5

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Sample Location		768	768	768	769	769	769
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/06/2017	07/10/2017	10/17/2017	01/12/2017	04/06/2017	07/07/2017
Laboratory Sample I.D.		8929624	9095743	9269650	8787079	8929617	9092408
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J	0.2 J
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	0.4 J	0.9	1.3
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.4 J	0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	1.0	1.7	1.7	1.5	2.2	2.8
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	3.7	4.7	7.0	3.9	4.0	3.9
TRICHLOROETHYLENE	ug/l	7.2	8.8	9.2	7.3	7.2	7.1
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		769	771	771	771	771	772
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/17/2017	01/12/2017	04/06/2017	07/10/2017	10/17/2017	01/12/2017
Laboratory Sample I.D.		9269651	8787078	8929620	9095744	9269649	8787073
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.7	0.6	1.0	ND@0.5	1.3	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.2 J	0.5	0.4 J	ND@0.5	0.6	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	2.4	15	9.6	1.9	14	0.6
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	3.9	1.2	1.1	2.4	1.3	ND@0.5
TRICHLOROETHYLENE	ug/l	7.0	1.3	1.1	1.8	1.5	0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	1.7	3.6	1.4	3.0	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		772	772	772	773	773	773
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/06/2017	07/06/2017	10/17/2017	01/10/2017	04/06/2017	07/06/2017
Laboratory Sample I.D.		8929592	9092404	9269648	8785325	8929594	9092401
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	0.4 J	0.7	0.5	0.2 J	0.2 J	0.1 J
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	0.4 J	0.7	0.5	0.2 J	0.1 J	0.2 J
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		773	773	774	774	775	777
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		07/06/2017	10/17/2017	04/10/2017	10/26/2017	04/10/2017	04/11/2017
Laboratory Sample I.D.		9092402	9269449	8936122	9287944	8936124	8936128
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	0.2 J	0.2 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	0.2 J	0.2 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		777	779	779	789	791	792
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/20/2017	04/11/2017	10/26/2017	04/07/2017	04/07/2017	04/07/2017
Laboratory Sample I.D.		9277834	8936127	9287943	8929604	8929606	8929608
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	12	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	0.1 J	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	0.2 J	0.3 J	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	0.3 J	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		792	793	793	793	793	832
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/07/2017	01/12/2017	04/07/2017	07/10/2017	10/17/2017	04/19/2017
Laboratory Sample I.D.		8929610	8787074	8929602	9095746	9269647	8952416
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	0.2 J	0.2 J	0.4 J	0.4 J	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	0.1 J	ND@0.5	0.2 J	0.2 J	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	3.6	2.2	3.5	3.1	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	0.4 J	0.8	1.7	0.5 J	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	2.7	1.9	2.8	2.6	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	3.5	2.0	3.3	2.8	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		857	857	857	857	858	858
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		01/11/2017	04/06/2017	07/07/2017	10/16/2017	01/11/2017	04/06/2017
Laboratory Sample I.D.		8785332	8929590	9092425	9269641	8785333	8929591
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	0.1 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		858	858	921	921	922	922
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		07/07/2017	10/16/2017	05/10/2017	10/23/2017	05/10/2017	05/10/2017
Laboratory Sample I.D.		9092424	9269638	8990472	9282149	8990470	8990471
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	0.7	0.9	0.5	0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	0.4 J	0.5 J	0.3 J	0.3 J
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	7.4	9.5	4.4	4.4
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	1.0	1.8	0.8	0.9
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	4.0	6.5	3.1	3.2
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	0.3 J	0.2 J	0.3 J	0.3 J

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Sample Location		922	923	923	929	929	931
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/23/2017	05/08/2017	10/23/2017	05/08/2017	10/20/2017	04/28/2017
Laboratory Sample I.D.		9282148	8985548	9282150	8985547	9277830	8966847
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@5.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@5.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.6	0.4 J	0.3 J	2.5	1.8 J	ND@5.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.6	0.9	0.7	ND@2.5	ND@2.5	ND@5.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@25	ND@25	ND@50
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@5.0
CIS-1,2-DICHLOROETHYLENE	ug/l	8.6	24	22	20	21	74
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@5.0
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@5.0
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@2.5	1.2 J	ND@5.0
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@5.0
TETRACHLOROETHYLENE	ug/l	0.8	34	26	340	300	870
TRICHLOROETHYLENE	ug/l	3.2	24	23	8.1	8.7	28
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@2.5	ND@2.5	ND@5.0
VINYL CHLORIDE	ug/l	0.6	0.4 J	0.3 J	ND@2.5	ND@2.5	ND@5.0

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Sample Location		931	932	932	941	941	943
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/23/2017	04/20/2017	10/24/2017	04/28/2017	10/24/2017	04/27/2017
Laboratory Sample I.D.		9282151	8955053	9282154	8966846	9282163	8966842
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@5.0	ND@0.5	ND@0.5	ND@50	ND@10	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@5.0	ND@0.5	ND@0.5	ND@50	ND@10	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@5.0	2.4	0.5 J	290	72	3.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@5.0	1.2	0.5 J	ND@50	ND@10	0.2 J
ACETONE	ug/l	ND@50	ND@5.0	ND@5.0	ND@500	ND@100	ND@5.0
CHLOROBENZENE	ug/l	ND@5.0	ND@0.5	ND@0.5	ND@50	ND@10	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	63	17	5.3	170	46	4.2
DICHLORODIFLUOROMETHANE	ug/l	ND@5.0	ND@0.5	ND@0.5	ND@50	ND@10	ND@0.5
ETHYLBENZENE	ug/l	ND@5.0	ND@0.5	ND@0.5	ND@50	ND@10	ND@0.5
M,P-XYLENE	ug/l	ND@5.0	ND@0.5	ND@0.5	ND@50	ND@10	ND@0.5
O-XYLENE	ug/l	ND@5.0	ND@0.5	ND@0.5	ND@50	ND@10	ND@0.5
TETRACHLOROETHYLENE	ug/l	720	9.0	2.3	3500	1600	8.0
TRICHLOROETHYLENE	ug/l	25	14	4.4	1100	330	8.7
TRICHLOROFLUOROMETHANE	ug/l	ND@5.0	0.1 J	ND@0.5	ND@50	ND@10	0.1 J
VINYL CHLORIDE	ug/l	ND@5.0	0.5	ND@0.5	ND@50	ND@10	ND@0.5

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Sample Location		943	944	944	952	952	953
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/18/2017	04/17/2017	10/18/2017	05/05/2017	11/01/2017	05/08/2017
Laboratory Sample I.D.		9275112	8947287	9275113	8979644	9296632	8985546
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	3.0	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.2 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@25
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5
CIS-1,2-DICHLOROETHYLENE	ug/l	4.1	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5
TETRACHLOROETHYLENE	ug/l	8.3	ND@0.5	ND@0.5	ND@0.5	ND@0.5	310
TRICHLOROETHYLENE	ug/l	8.9	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.6 J
TRICHLOROFLUOROMETHANE	ug/l	0.1 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.8 J
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.5

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Sample Location		953	954	954	954	956	956
Sample Description		GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/25/2017	05/05/2017	05/05/2017	10/20/2017	05/10/2017	10/20/2017
Laboratory Sample I.D.		9287942	8979643	8979646	9277829	8990477	9277828
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@2.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@2.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2.5	0.2 J	0.3 J	ND@0.5	0.3 J	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2.5	1.7	1.4	1.2	0.8	0.2 J
ACETONE	ug/l	ND@25	ND@5.0	ND@5.0	ND@5.0	ND@5.0	3.3 J
CHLOROBENZENE	ug/l	ND@2.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	0.5 J	130	130	90	63	65
DICHLORODIFLUOROMETHANE	ug/l	ND@2.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@2.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@2.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@2.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	470	67	64	45	130	2.0
TRICHLOROETHYLENE	ug/l	0.9 J	15	16	24	21	2.6
TRICHLOROFLUOROMETHANE	ug/l	1.1 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@2.5	4.7	5.7	1.2	4.5	4.4

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Sample Location		958	958	958	959	959	960
Sample Description		GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		05/12/2017	11/13/2017	11/13/2017	05/10/2017	10/27/2017	05/10/2017
Laboratory Sample I.D.		8992469	9317290	9317291	8990473	9288737	8990475
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	7.9	0.4 J	18
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	0.8	0.9	1.6
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	1.5	0.5 J	1.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	3.8 J	9.8	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	0.2 J	ND@0.5	0.2 J
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	48	21	32
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	0.3 J	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	1.1	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	0.6	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	0.1 J	0.3 J	0.3 J	20	22	19
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	15	16	13
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	0.1 J	0.5	0.2 J
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	3.5	ND@0.5	4.6

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January 1, 2017 - December 31, 2017

Sample Location		960	960	963	963	964	964
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/27/2017	10/27/2017	04/17/2017	10/20/2017	04/17/2017	10/20/2017
Laboratory Sample I.D.		9288738	9288739	8947285	9277825	8947286	9277826
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	5.3	4.2	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	2.1	1.7	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1.7	1.6	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	0.1 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	23	22	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	31	31	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	22	19	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	0.3 J	0.2 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	1.7	1.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		965	966	966	987	987	987
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/27/2017	04/27/2017	10/23/2017	01/12/2017	04/05/2017	07/06/2017
Laboratory Sample I.D.		8966840	8966841	9282152	8787069	8925542	9092419
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	0.7	0.1 J	0.2 J	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	0.3 J	4.0	4.3	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	0.6	0.6	0.6	0.1 J	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	1	0.2 J	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

Former IBM East Fishkill Facility
Groundwater Analytical Data - Organics
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Sample Location		987	990	990	990	990	990
Sample Description		GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		10/16/2017	01/11/2017	01/11/2017	04/05/2017	04/05/2017	07/06/2017
Laboratory Sample I.D.		9269437	8785334	8785335	8925543	8925544	9092420
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	1.2	1.2	1.1	1.1	1.1
TRICHLOROETHYLENE	ug/l	ND@0.5	0.2 J	0.2 J	0.1 J	0.2 J	0.2 J
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

Former IBM East Fishkill Facility
Groundwater Analytical Data - Organics
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Sample Location		990	998	998	999	999
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/16/2017	04/07/2017	10/17/2017	04/11/2017	10/18/2017
Laboratory Sample I.D.		9269438	8929634	9269448	8936129	9275118
Sample Comment Codes						
Parameter	**Units**					
Base/Neutral Extractables						
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics						
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	1.2	1.1	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	1.8	ND@0.5	ND@0.5	0.8	0.9
TRICHLOROETHYLENE	ug/l	0.2 J	ND@0.5	ND@0.5	0.1 J	0.2 J
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	0.4 J	0.4 J	ND@0.5	ND@0.5

Former IBM East Fishkill Facility
Groundwater Analytical Data - Organics
January 1, 2017 - December 31, 2017

Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit

Former IBM East Fishkill Facility
Groundwater Analytical Data - Inorganics
January 1, 2017 - December 31, 2017

Sample Location		007	010	015	015	068	104
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		04/10/2017	04/07/2017	05/09/2017	05/09/2017	04/18/2017	05/02/2017
Laboratory Sample I.D.		8936120	8929628	8985553	8985556	8947290	8974993
Sample Comment Codes							
Parameter	**Units**						
Inorganics							
FLUORIDE	mg/l	NA	NA	1.5	1.5	NA	NA
Metals							
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA	0.0055	NA
ARSENIC, TOTAL	mg/l	NA	NA	NA	NA	0.0073	NA
CHROMIUM, DISSOLVED	mg/l	0.00096 J	0.0011 J	0.0013 J	0.0011 J	NA	0.0010 J
CHROMIUM, TOTAL	mg/l	0.00096 J	0.0041	0.0990	0.0329	NA	0.660
NICKEL, DISSOLVED	mg/l	NA	NA	NA	NA	NA	NA
NICKEL, TOTAL	mg/l	NA	NA	NA	NA	NA	NA

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Groundwater Analytical Data - Inorganics
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Sample Location		204	580	581	627	701	706
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/20/2017	05/02/2017	04/19/2017	04/06/2017	04/14/2017	04/21/2017
Laboratory Sample I.D.		8952423	8974995	8952417	8929615	8941950	8955081
Sample Comment Codes							
Parameter	**Units**						
Inorganics							
FLUORIDE	mg/l	NA	3.3	NA	69.6	NA	ND@0.50
Metals							
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	ND@0.0040	NA	NA
ARSENIC, TOTAL	mg/l	NA	NA	NA	ND@0.0040	NA	NA
CHROMIUM, DISSOLVED	mg/l	0.00069 J	0.0012 J	0.00067 J	NA	0.00071 J	NA
CHROMIUM, TOTAL	mg/l	1.85	0.0049	0.0035 J	NA	0.0086	NA
NICKEL, DISSOLVED	mg/l	NA	NA	NA	0.415	NA	NA
NICKEL, TOTAL	mg/l	NA	NA	NA	0.419	NA	NA

Former IBM East Fishkill Facility
Groundwater Analytical Data - Inorganics
January 1, 2017 - December 31, 2017

Sample Location		735	740	754	761	763	766
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/06/2017	04/07/2017	04/20/2017	04/07/2017	04/07/2017	04/06/2017
Laboratory Sample I.D.		8929614	8929598	8952420	8929633	8929631	8929596
Sample Comment Codes							
Parameter	**Units**						
Inorganics							
FLUORIDE	mg/l	11.9	7.8	NA	NA	NA	0.76
Metals							
ARSENIC, DISSOLVED	mg/l	0.00074 J	NA	NA	NA	NA	0.0038 J
ARSENIC, TOTAL	mg/l	0.0016 J	NA	NA	NA	NA	0.0209
CHROMIUM, DISSOLVED	mg/l	NA	0.0017 J	0.0012 J	ND@0.0040	ND@0.0040	0.0012 J
CHROMIUM, TOTAL	mg/l	NA	0.0264	0.0015 J	0.0688	0.0016 J	2.28
NICKEL, DISSOLVED	mg/l	NA	NA	NA	NA	NA	0.417
NICKEL, TOTAL	mg/l	NA	NA	NA	NA	NA	0.581

Former IBM East Fishkill Facility
Groundwater Analytical Data - Inorganics
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Sample Location		767	768	768	769	771	772
Sample Description		GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/07/2017	04/06/2017	04/06/2017	04/06/2017	04/06/2017	04/06/2017
Laboratory Sample I.D.		8929600	8929622	8929625	8929617	8929620	8929592
Sample Comment Codes							
Parameter	**Units**						
Inorganics							
FLUORIDE	mg/l	7.3	ND@0.50	ND@0.50	ND@0.50	NA	NA
Metals							
ARSENIC, DISSOLVED	mg/l	0.0095	ND@0.0040	ND@0.0040	ND@0.0040	NA	ND@0.0040
ARSENIC, TOTAL	mg/l	0.0140	ND@0.0040	ND@0.0040	ND@0.0040	NA	0.0104
CHROMIUM, DISSOLVED	mg/l	0.0022 J	0.0056	0.0055	0.0043	0.0088	0.0021 J
CHROMIUM, TOTAL	mg/l	2.29	0.435	0.421	0.0389	1.88	1.05
NICKEL, DISSOLVED	mg/l	NA	0.266	0.258	0.0689	NA	0.0583
NICKEL, TOTAL	mg/l	NA	0.271	0.271	0.0739	NA	0.333

Former IBM East Fishkill Facility
Groundwater Analytical Data - Inorganics
January 1, 2017 - December 31, 2017

Sample Location		773	774	775	789	791	792
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/06/2017	04/10/2017	04/10/2017	04/07/2017	04/07/2017	04/07/2017
Laboratory Sample I.D.		8929594	8936122	8936124	8929605	8929606	8929608
Sample Comment Codes							
Parameter	**Units**						
Inorganics							
FLUORIDE	mg/l	NA	NA	NA	NA	NA	NA
Metals							
ARSENIC, DISSOLVED	mg/l	NA	NA	NA	NA	NA	0.00094 J
ARSENIC, TOTAL	mg/l	NA	NA	NA	NA	NA	0.0059
CHROMIUM, DISSOLVED	mg/l	0.0075	ND@0.0040	0.00068 J	0.0015 J	0.0022 J	0.0025 J
CHROMIUM, TOTAL	mg/l	1.79	0.0548	0.0231	5.59	1.50	2.67
NICKEL, DISSOLVED	mg/l	NA	NA	NA	NA	NA	NA
NICKEL, TOTAL	mg/l	NA	NA	NA	NA	NA	NA

Former IBM East Fishkill Facility
Groundwater Analytical Data - Inorganics
January 1, 2017 - December 31, 2017

Sample Location		792	793	952	959	960
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/07/2017	04/07/2017	05/05/2017	05/10/2017	05/10/2017
Laboratory Sample I.D.		8929611	8929603	8979644	8990473	8990476
Sample Comment Codes						
Parameter	**Units**					
Inorganics						
FLUORIDE	mg/l	NA	ND@0.50	NA	NA	NA
Metals						
ARSENIC, DISSOLVED	mg/l	0.00098 J	ND@0.0040	ND@0.0040	ND@0.0040	ND@0.0040
ARSENIC, TOTAL	mg/l	0.0064	0.0027 J	0.0022 J	0.0576	0.0672
CHROMIUM, DISSOLVED	mg/l	0.0024 J	0.0035 J	ND@0.0040	NA	NA
CHROMIUM, TOTAL	mg/l	2.91	0.913	0.0052	NA	NA
NICKEL, DISSOLVED	mg/l	NA	0.172	NA	NA	NA
NICKEL, TOTAL	mg/l	NA	0.336	NA	NA	NA

Former IBM East Fishkill Facility
Groundwater Analytical Data - Inorganics
January 1, 2017 - December 31, 2017

Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit

Appendix E

Production Well Analytical Data: January 1, 2017 to December 31, 2017

Former IBM East Fishkill Facility
Production Well Analytical Data - Organics
January 1, 2017 - December 31, 2017

Sample Location		PW- 1	PW- 1	PW- 1	PW- 1	PW- 1	PW- 1
Sample Description		PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL
Sample Date		01/03/2017	02/01/2017	03/01/2017	04/03/2017	05/01/2017	06/01/2017
Laboratory Sample I.D.		8771287	8817966	8862682	8918922	8969014	9026065
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1.9	2.2	2.3	2.2	3.0	2.7
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	1.2	1.3	1.3	1.4	1.7	1.7
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	14	16	16	15	20	18
TRICHLOROETHYLENE	ug/l	5.4	5.9	6.0	6.2	7.5	7.1
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

Former IBM East Fishkill Facility
Production Well Analytical Data - Organics
January 1, 2017 - December 31, 2017

Sample Location		PW- 1	PW- 1	PW- 1	PW- 1	PW- 1	PW- 1
Sample Description		PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL
Sample Date		07/05/2017	08/01/2017	09/01/2017	10/02/2017	11/01/2017	12/01/2017
Laboratory Sample I.D.		9087811	9134760	9190374	9242128	9296623	9347116
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	2.9	2.5	2.5	1.5	2.3	2.3
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	1.6	1.5	1.6	1.4	1.2	1.3
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	19	18	17	15	15	15
TRICHLOROETHYLENE	ug/l	7.3	6.6	6.7	6.0	5.8	5.9
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

Former IBM East Fishkill Facility
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Sample Location		PW- 2	PW- 2	PW- 2	PW- 2	PW- 2	PW- 2
Sample Description		PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL
Sample Date		01/03/2017	02/01/2017	03/01/2017	04/03/2017	05/01/2017	06/01/2017
Laboratory Sample I.D.		8771288	8817964	8862683	8918923	8969012	9026066
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@100	ND@50	ND@50	ND@100	ND@50	ND@50
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@100	ND@50	ND@50	ND@100	ND@50	ND@50
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	170	230	210	180	260	180
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@100	ND@50	ND@50	ND@100	ND@50	ND@50
ACETONE	ug/l	ND@1000	ND@500	ND@500	ND@1000	ND@500	ND@500
CHLOROBENZENE	ug/l	ND@100	ND@50	ND@50	ND@100	ND@50	ND@50
CIS-1,2-DICHLOROETHYLENE	ug/l	1500	1600	1600	1600	1700	1500
DICHLORODIFLUOROMETHANE	ug/l	ND@100	ND@50	ND@50	ND@100	ND@50	ND@50
ETHYLBENZENE	ug/l	ND@100	ND@50	ND@50	ND@100	ND@50	ND@50
M,P-XYLENE	ug/l	ND@100	ND@50	ND@50	ND@100	ND@50	ND@50
O-XYLENE	ug/l	ND@100	ND@50	ND@50	ND@100	ND@50	ND@50
TETRACHLOROETHYLENE	ug/l	14000	14000	14000	14000	12000	12000
TRICHLOROETHYLENE	ug/l	1100	1200	1100	1100	1100	970
TRICHLOROFLUOROMETHANE	ug/l	ND@100	ND@50	ND@50	ND@100	ND@50	ND@50
VINYL CHLORIDE	ug/l	120	160	160	190	170	160

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Sample Location		PW- 2	PW- 2	PW- 2	PW- 2	PW- 2	PW- 2
Sample Description		PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL
Sample Date		07/05/2017	08/01/2017	09/01/2017	10/02/2017	11/01/2017	12/01/2017
Laboratory Sample I.D.		9087812	9134761	9190375	9242129	9296624	9347117
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@50	ND@100	ND@50	ND@50	ND@100	ND@50
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@50	ND@100	ND@50	ND@50	ND@100	ND@50
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	220	190	180	200	120	180
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@50	ND@100	ND@50	ND@50	ND@100	ND@50
ACETONE	ug/l	ND@500	ND@1000	ND@500	ND@500	ND@1000	ND@500
CHLOROBENZENE	ug/l	ND@50	ND@100	ND@50	ND@50	ND@100	ND@50
CIS-1,2-DICHLOROETHYLENE	ug/l	1400	1300	1300	1500	990	1200
DICHLORODIFLUOROMETHANE	ug/l	ND@50	ND@100	ND@50	ND@50	ND@100	ND@50
ETHYLBENZENE	ug/l	ND@50	ND@100	ND@50	ND@50	ND@100	ND@50
M,P-XYLENE	ug/l	ND@50	ND@100	ND@50	ND@50	ND@100	ND@50
O-XYLENE	ug/l	ND@50	ND@100	ND@50	ND@50	ND@100	ND@50
TETRACHLOROETHYLENE	ug/l	12000	12000	12000	11000	12000	9300
TRICHLOROETHYLENE	ug/l	940	840	820	810	670	790
TRICHLOROFLUOROMETHANE	ug/l	ND@50	ND@100	ND@50	ND@50	ND@100	ND@50
VINYL CHLORIDE	ug/l	150	140	140	180	130	150

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Sample Location		PW- 4	PW- 4	PW- 4	PW- 4	PW- 4	PW-23
Sample Description		PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL
Sample Date		01/03/2017	02/01/2017	03/01/2017	04/03/2017	09/18/2017	01/12/2017
Laboratory Sample I.D.		8771289	8817967	8862684	8918924	9215472	8787070
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@0.5	ND@0.5	ND@1.0	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@0.5	ND@0.5	ND@1.0	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1.8	2.6	2.5	1.8	1.7	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	0.3 J	0.2 J	ND@1.0	0.3 J	ND@0.5
ACETONE	ug/l	ND@10	ND@5.0	ND@5.0	ND@10	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@0.5	ND@0.5	ND@1.0	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	4.7	5.7	5.4	5.0	4.3	0.1 J
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	0.2 J	0.2 J	ND@1.0	0.2 J	ND@0.5
ETHYLBENZENE	ug/l	ND@1.0	ND@0.5	ND@0.5	ND@1.0	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@1.0	ND@0.5	ND@0.5	ND@1.0	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@1.0	ND@0.5	ND@0.5	ND@1.0	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	75	82	78	75	65	1.5
TRICHLOROETHYLENE	ug/l	26	27	24	27	20	0.1 J
TRICHLOROFLUOROMETHANE	ug/l	0.7 J	1.2	1.1	0.8 J	0.7	ND@0.5
VINYL CHLORIDE	ug/l	ND@1.0	ND@0.5	ND@0.5	ND@1.0	ND@0.5	ND@0.5

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Sample Location		PW-23	PW-23	PW-23	PW-25	PW-25	PW-25
Sample Description		PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL
Sample Date		04/05/2017	07/06/2017	10/16/2017	01/03/2017	02/01/2017	03/01/2017
Laboratory Sample I.D.		8925546	9092423	9269436	8771290	8817965	8862685
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@5.0	ND@5.0	ND@2.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@5.0	ND@5.0	ND@2.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	13	17	15
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@5.0	ND@5.0	ND@2.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@50	ND@50	ND@25
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@5.0	ND@5.0	ND@2.5
CIS-1,2-DICHLOROETHYLENE	ug/l	0.1 J	ND@0.5	ND@0.5	46	45	44
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@5.0	ND@5.0	ND@2.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@5.0	ND@5.0	ND@2.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@5.0	ND@5.0	ND@2.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@5.0	ND@5.0	ND@2.5
TETRACHLOROETHYLENE	ug/l	2.6	0.5	0.5 J	650	700	640
TRICHLOROETHYLENE	ug/l	0.1 J	0.1 J	0.1 J	130	140	130
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@5.0	ND@5.0	ND@2.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@5.0	ND@5.0	ND@2.5

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Sample Location		PW-25	PW-25	PW-25	PW-25	PW-25	PW-25
Sample Description		PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL	PUMPING WELL
Sample Date		04/03/2017	05/01/2017	06/01/2017	07/05/2017	08/01/2017	09/01/2017
Laboratory Sample I.D.		8918925	8969013	9026067	9087813	9134762	9190376
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@5.0	ND@2.5	ND@2.5	ND@2.5	ND@10	ND@5.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@5.0	ND@2.5	ND@2.5	ND@2.5	ND@10	ND@5.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	15	20	17	18	16	16
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@5.0	ND@2.5	ND@2.5	ND@2.5	ND@10	ND@5.0
ACETONE	ug/l	ND@50	ND@25	ND@25	ND@25	ND@100	ND@50
CHLOROBENZENE	ug/l	ND@5.0	ND@2.5	ND@2.5	ND@2.5	ND@10	ND@5.0
CIS-1,2-DICHLOROETHYLENE	ug/l	47	48	45	42	38	39
DICHLORODIFLUOROMETHANE	ug/l	ND@5.0	ND@2.5	ND@2.5	ND@2.5	ND@10	ND@5.0
ETHYLBENZENE	ug/l	ND@5.0	ND@2.5	ND@2.5	ND@2.5	ND@10	ND@5.0
M,P-XYLENE	ug/l	ND@5.0	ND@2.5	ND@2.5	ND@2.5	ND@10	ND@5.0
O-XYLENE	ug/l	ND@5.0	ND@2.5	ND@2.5	ND@2.5	ND@10	ND@5.0
TETRACHLOROETHYLENE	ug/l	590	650	590	600	560	540
TRICHLOROETHYLENE	ug/l	130	140	130	130	120	120
TRICHLOROFLUOROMETHANE	ug/l	ND@5.0	ND@2.5	ND@2.5	ND@2.5	ND@10	ND@5.0
VINYL CHLORIDE	ug/l	ND@5.0	ND@2.5	ND@2.5	ND@2.5	ND@10	ND@5.0

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Sample Location		PW-25	PW-25	PW-25
Sample Description		PUMPING WELL	PUMPING WELL	PUMPING WELL
Sample Date		10/02/2017	11/01/2017	12/01/2017
Laboratory Sample I.D.		9242130	9296625	9347118
Sample Comment Codes				
Parameter	**Units**			
Base/Neutral Extractables				
1,2-DICHLOROBENZENE	ug/l	ND@5.0	ND@5.0	ND@5.0
Volatile Organics				
1,1,1-TRICHLOROETHANE	ug/l	ND@5.0	ND@5.0	ND@5.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	18	16	17
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@5.0	ND@5.0	ND@5.0
ACETONE	ug/l	ND@50	ND@50	ND@50
CHLOROBENZENE	ug/l	ND@5.0	ND@5.0	ND@5.0
CIS-1,2-DICHLOROETHYLENE	ug/l	42	35	43
DICHLORODIFLUOROMETHANE	ug/l	ND@5.0	ND@5.0	ND@5.0
ETHYLBENZENE	ug/l	ND@5.0	ND@5.0	ND@5.0
M,P-XYLENE	ug/l	ND@5.0	ND@5.0	ND@5.0
O-XYLENE	ug/l	ND@5.0	ND@5.0	ND@5.0
TETRACHLOROETHYLENE	ug/l	520	550	570
TRICHLOROETHYLENE	ug/l	130	120	130
TRICHLOROFLUOROMETHANE	ug/l	ND@5.0	ND@5.0	ND@5.0
VINYL CHLORIDE	ug/l	ND@5.0	ND@5.0	ND@5.0

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Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit

Appendix F

Quality Assurance/Quality Control Analytical Data: January 1, 2017 to December 31, 2017

Former IBM East Fishkill Facility
Quality Assurance/Control Analytical Data
January 1, 2017 - December 31, 2017

Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND
Sample Date		01/10/2017	01/11/2017	01/12/2017	04/04/2017	04/05/2017	04/06/2017
Laboratory Sample I.D.		8785321	8785344	8787068	8925537	8925550	8929589
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Quality Assurance/Control Analytical Data
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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND
Sample Date		04/07/2017	04/10/2017	04/11/2017	04/12/2017	04/13/2017	04/14/2017
Laboratory Sample I.D.		8929626	8936248	8936126	8941196	8941203	8941945
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

Former IBM East Fishkill Facility
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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND
Sample Date		04/17/2017	04/18/2017	04/19/2017	04/20/2017	04/21/2017	04/27/2017
Laboratory Sample I.D.		8947279	8947288	8952414	8955052	8955077	8966839
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND
Sample Date		04/28/2017	05/02/2017	05/03/2017	05/04/2017	05/05/2017	05/08/2017
Laboratory Sample I.D.		8966844	8974992	8975000	8979639	8979647	8985544
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		WTR LVL IND	WTR LVL IND	SUBM PUMP	SUBM PUMP	WTR LVL IND	WTR LVL IND
Sample Date		05/09/2017	05/10/2017	05/11/2017	05/12/2017	07/06/2017	07/07/2017
Laboratory Sample I.D.		8985550	8990469	8990478	8992467	9092414	9092406
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND
Sample Date		07/10/2017	10/16/2017	10/17/2017	10/18/2017	10/19/2017	10/20/2017
Laboratory Sample I.D.		9095741	9269633	9269442	9275109	9276048	9277824
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	0.1 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	0.2 J	0.2 J	0.3 J	0.3 J	0.3 J
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	0.7	0.6	0.7	0.6	0.6
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND	WTR LVL IND
Sample Date		10/23/2017	10/24/2017	10/25/2017	10/26/2017	10/27/2017	11/01/2017
Laboratory Sample I.D.		9282157	9282153	9287940	9287914	9288736	9296631
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	0.3 J	0.2 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	0.6	0.5 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		EQ RINSE BLK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		SUBM PUMP	NO. 1	NO. 1	NO. 2	NO. 1	NO. 2
Sample Date		11/13/2017	01/03/2017	01/10/2017	01/10/2017	01/12/2017	01/12/2017
Laboratory Sample I.D.		9317289	8771286	8785336	8785320	8787075	8787067
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		NO. 1	NO. 1	NO. 1	NO. 1	NO. 1	NO. 1
Sample Date		02/01/2017	03/01/2017	04/03/2017	04/04/2017	04/05/2017	04/06/2017
Laboratory Sample I.D.		8817963	8862681	8918921	8925536	8925549	8929612
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		NO. 2	NO. 1	NO. 2	NO. 1	NO. 1	NO. 1
Sample Date		04/06/2017	04/10/2017	04/10/2017	04/12/2017	04/14/2017	04/17/2017
Laboratory Sample I.D.		8929588	8936118	8936247	8941195	8941944	8947278
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		NO. 1	NO. 1	NO. 1	NO. 1	NO. 1	NO. 1
Sample Date		04/19/2017	04/20/2017	04/21/2017	04/27/2017	05/01/2017	05/02/2017
Laboratory Sample I.D.		8952413	8955051	8955076	8966838	8969011	8974991
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		NO. 1	NO. 1	NO. 1	NO. 1	NO. 1	NO. 1
Sample Date		05/04/2017	05/08/2017	05/10/2017	05/12/2017	06/01/2017	07/05/2017
Laboratory Sample I.D.		8979638	8985543	8990468	8992466	9026064	9087810
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		NO. 1	NO. 2	NO. 1	NO. 1	NO. 1	NO. 1
Sample Date		07/06/2017	07/06/2017	07/10/2017	08/01/2017	09/01/2017	09/18/2017
Laboratory Sample I.D.		9092393	9092413	9095740	9134759	9190373	9215471
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		NO. 1	NO. 1	NO. 2	NO. 1	NO. 2	NO. 1
Sample Date		10/02/2017	10/16/2017	10/16/2017	10/18/2017	10/18/2017	10/20/2017
Laboratory Sample I.D.		9242127	9269430	9269634	9276041	9275108	9277831
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Quality Assurance/Control Analytical Data
January 1, 2017 - December 31, 2017

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		NO. 2	NO. 1	NO. 2	NO. 1	NO. 2	NO. 1
Sample Date		10/20/2017	10/23/2017	10/23/2017	10/25/2017	10/25/2017	10/27/2017
Laboratory Sample I.D.		9277823	9282156	9282147	9287939	9287910	9288735
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Quality Assurance/Control Analytical Data
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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		NO. 1	NO. 2	NO. 1	NO. 1
Sample Date		11/01/2017	11/01/2017	11/13/2017	12/01/2017
Laboratory Sample I.D.		9296622	9296630	9317288	9347115
Sample Comment Codes					
Parameter	**Units**				
Base/Neutral Extractables					
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics					
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5

Former IBM East Fishkill Facility
Quality Assurance/Control Analytical Data
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Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit

Appendix G

Groundwater Treatment Analytical Data (Organics): January 1, 2017 to December 31, 2017
Groundwater Treatment Analytical Data (Inorganics): January 1, 2017 to December 31, 2017

Former IBM East Fishkill Facility
Groundwater Treatment Analytical Data - Organics
January 1, 2017 - December 31, 2017

Sample Location		032B	032B	032B	032B	032B	080
Sample Description		GW/AREA D IN	GW/AREA D IN	GW/AREA D IN	REPLICATE	GW/AREA D IN	PW-2 EFFL
Sample Date		01/10/2017	04/13/2017	07/06/2017	07/06/2017	10/16/2017	01/03/2017
Laboratory Sample I.D.		8785340	8941206	9092399	9092400	9269439	R1700045-007
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	1.8 J
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	0.7	0.4 J	0.6	0.6	0.6	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@1.0
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@1.0
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@2.0
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@1.0
TETRACHLOROETHYLENE	ug/l	0.7	0.6	0.8	0.8	1	ND@1.0
TRICHLOROETHYLENE	ug/l	3.2	2.6	3.4	3.5	3.9	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@1.0
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@1.0

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Groundwater Treatment Analytical Data - Organics
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Sample Location		080	080	080	080	080	080
Sample Description		PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL
Sample Date		01/09/2017	01/16/2017	01/23/2017	01/30/2017	02/06/2017	02/13/2017
Laboratory Sample I.D.		R1700279-006	R1700475-006	R1700682-006	R1700813-006	R1701053-007	R1701321-006
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	0.34 J	0.53 J	0.92 J

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Sample Location		080	080	080	080	080	080
Sample Description		PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL
Sample Date		02/20/2017	02/27/2017	03/06/2017	03/13/2017	03/20/2017	03/27/2017
Laboratory Sample I.D.		R1701563-006	R1701890-006	R1702048-007	R1702161-006	R1702427-006	R1702614-006
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	1.6 J	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	1.4	2.3	4.8	8.3	20	22

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Sample Location		080	080	080	080	080	080
Sample Description		PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL
Sample Date		04/03/2017	04/10/2017	04/17/2017	04/24/2017	05/02/2017	05/08/2017
Laboratory Sample I.D.		R1703076-007	R1703243-006	R1703382-006	R1703628-006	R1703969-007	R1704192-006
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	2.0 J
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	34	49	35	41	ND@1.0	ND@1.0

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Sample Location		080	080	080	080	080	080
Sample Description		PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL
Sample Date		05/15/2017	05/22/2017	05/30/2017	06/05/2017	06/12/2017	06/19/2017
Laboratory Sample I.D.		R1704356-006	R1704676-006	R1704960-006	R1705153-007	R1705400-006	R1705618-006
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		080	080	080	080	080	080
Sample Description		PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL
Sample Date		06/26/2017	07/05/2017	07/10/2017	07/17/2017	07/24/2017	07/31/2017
Laboratory Sample I.D.		R1705885-006	R1706088-007	R1706255-006	R1706642-006	R1706742-006	R1707026-006
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	1.5 J	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.63 J
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	0.42 J	0.99 J	1.4	2.9	ND@1.0	1.1

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Sample Location		080	080	080	080	080	080
Sample Description		PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL
Sample Date		08/07/2017	08/14/2017	08/21/2017	08/28/2017	09/05/2017	09/11/2017
Laboratory Sample I.D.		R1707323-007	R1707562-006	R1707834-006	R1708019-006	R1708303-007	R1708539-006
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	0.34 J	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	1.1	1.5	1.2	1.6	1.9	2.7

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Sample Location		080	080	080	080	080	080
Sample Description		PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL
Sample Date		09/18/2017	09/25/2017	10/02/2017	10/09/2017	10/16/2017	10/23/2017
Laboratory Sample I.D.		R1708747-006	R1709028-006	R1709308-007	R1709585-006	R1709825-006	R1710066-006
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	NA	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	0.37 J	ND@5.0	0.38 J	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@10	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	0.38 J	ND@5.0	0.88 J	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	2.4	2.0 J	3.9	2.7	2.7	3.2

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Sample Location		080	080	080	080	080	080
Sample Description		PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2 EFFL
Sample Date		10/30/2017	11/06/2017	11/13/2017	11/20/2017	11/27/2017	12/04/2017
Laboratory Sample I.D.		R1710287-006	R1710531-007	R1710800-006	R1711078-006	R1711244-006	R1711486-007
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.29 J	0.44 J
ACETONE	ug/l	ND@5.0	ND@5.0	NA	ND@5.0	ND@5.0	1.9 J
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	1.3	5.3	11
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.35 J	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	7.2	12	15	14	18	15

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Sample Location		080	080	080	221	221	221
Sample Description		PW-2 EFFL	PW-2 EFFL	PW-2 EFFL	PW-2/GAC	PW-2/GAC	PW-2/GAC
Sample Date		12/11/2017	12/18/2017	12/27/2017	01/03/2017	01/09/2017	01/16/2017
Laboratory Sample I.D.		R1711783-006	R1712012-006	R1712261-001	R1700045-006	R1700279-005	R1700475-005
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.40 J	0.81 J	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	1.3 J	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	19	35	0.38 J	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	1.2	ND@1.0	ND@1.0	1.1
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	16	22	ND@1.0	4.0	5.4	7.1

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Sample Location		221	221	221	221	221	221
Sample Description		PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC
Sample Date		01/23/2017	01/30/2017	02/06/2017	02/13/2017	02/20/2017	02/27/2017
Laboratory Sample I.D.		R1700682-005	R1700813-005	R1701053-006	R1701321-005	R1701563-005	R1701890-005
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	0.44 J	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	9.5	13	15	25	27	37

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Sample Location		221	221	221	221	221	221
Sample Description		PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC
Sample Date		03/06/2017	03/13/2017	03/20/2017	03/27/2017	04/03/2017	04/10/2017
Laboratory Sample I.D.		R1702048-006	R1702161-005	R1702427-005	R1702614-005	R1703076-006	R1703243-005
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	0.40 J	0.65 J	2.0
ACETONE	ug/l	1.5 J	ND@5.0	ND@5.0	ND@5.0	ND@5.0	2.2 J
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	0.43 J	6.4	36	120
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	0.47 J	ND@1.0	0.79 J
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	6.8	43	53	42	51	75

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Sample Location		221	221	221	221	221	221
Sample Description		PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC
Sample Date		04/17/2017	04/24/2017	05/02/2017	05/08/2017	05/15/2017	05/22/2017
Laboratory Sample I.D.		R1703382-005	R1703628-005	R1703969-006	R1704192-005	R1704356-005	R1704676-005
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	2.1	3.4	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	1.6 J	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	190	260 D	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	0.96 J	1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	51	53	21	23	21	17

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Sample Location		221	221	221	221	221	221
Sample Description		PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC
Sample Date		05/30/2017	06/05/2017	06/12/2017	06/19/2017	06/26/2017	07/05/2017
Laboratory Sample I.D.		R1704960-005	R1705153-006	R1705400-005	R1705618-005	R1705885-005	R1706088-006
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	28	25	31	37	41	52

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Sample Location		221	221	221	221	221	221
Sample Description		PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC
Sample Date		07/10/2017	07/17/2017	07/24/2017	07/31/2017	08/07/2017	08/14/2017
Laboratory Sample I.D.		R1706255-005	R1706642-005	R1706742-005	R1707026-005	R1707323-006	R1707562-005
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	1.6 J	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	0.79 J	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	54	48	1.3	1.6	2.1	2.1

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Sample Location		221	221	221	221	221	221
Sample Description		PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC
Sample Date		08/21/2017	08/28/2017	09/05/2017	09/11/2017	09/18/2017	09/25/2017
Laboratory Sample I.D.		R1707834-005	R1708019-005	R1708303-006	R1708539-005	R1708747-005	R1709028-005
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	NA
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.64 J	0.91 J
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.40 J	0.92 J
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.33 J
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	2.7	2.9	4.2	5.4	4.2	3.7

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Sample Location		221	221	221	221	221	221
Sample Description		PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC
Sample Date		10/02/2017	10/09/2017	10/16/2017	10/23/2017	10/30/2017	11/06/2017
Laboratory Sample I.D.		R1709308-006	R1709585-005	R1709825-005	R1710066-005	R1710287-005	R1710531-006
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	1.5 J	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	0.44 J	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	6.9	12	19	20	22	33

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Sample Location		221	221	221	221	221	221
Sample Description		PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC	PW-2/GAC
Sample Date		11/13/2017	11/20/2017	11/27/2017	12/04/2017	12/11/2017	12/18/2017
Laboratory Sample I.D.		R1710800-005	R1711078-005	R1711244-005	R1711486-006	R1711783-005	R1712012-005
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	0.35 J	0.84 J	1.2	2.0	2.5
ACETONE	ug/l	NA	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	0.79 J	6.8	31	70	140	200
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.54 J	0.47 J
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	45	42	51	44	47	48

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Sample Location		221	395	395	395	395	395
Sample Description		PW-2/GAC	B/384 SUMP	B/384 SUMP	B/384 SUMP	B/384 SUMP	B/384 SUMP
Sample Date		12/27/2017	01/03/2017	02/01/2017	03/01/2017	04/03/2017	05/01/2017
Laboratory Sample I.D.		R1712261-002	8771291	8817968	8862686	8918926	8969016
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@20	ND@100	ND@100	ND@100	ND@25	ND@25
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@20	ND@100	ND@100	ND@100	ND@25	ND@25
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	60	ND@100	66 J	67 J	ND@25	ND@25
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	6.2 J	ND@100	ND@100	ND@100	ND@25	ND@25
ACETONE	ug/l	ND@100	ND@1000	ND@1000	ND@1000	ND@250	ND@250
CHLOROBENZENE	ug/l	ND@20	ND@100	ND@100	ND@100	ND@25	ND@25
CIS-1,2-DICHLOROETHYLENE	ug/l	460	83 J	75 J	85 J	34	38
DICHLORODIFLUOROMETHANE	ug/l	ND@20	ND@100	ND@100	ND@100	ND@25	ND@25
ETHYLBENZENE	ug/l	ND@20	ND@100	ND@100	ND@100	ND@25	ND@25
M,P-XYLENE	ug/l	ND@40	ND@100	ND@100	ND@100	ND@25	ND@25
O-XYLENE	ug/l	ND@20	ND@100	ND@100	ND@100	ND@25	ND@25
TETRACHLOROETHYLENE	ug/l	3100	12000	23000	28000	5100	5500
TRICHLOROETHYLENE	ug/l	220	530	750	980	230	280
TRICHLOROFLUOROMETHANE	ug/l	ND@20	ND@100	ND@100	ND@100	ND@25	ND@25
VINYL CHLORIDE	ug/l	94	ND@100	ND@100	ND@100	ND@25	ND@25

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Sample Location		395	395	395	395	395	395
Sample Description		B/384 SUMP	B/384 SUMP	B/384 SUMP	B/384 SUMP	B/384 SUMP	B/384 SUMP
Sample Date		06/01/2017	07/05/2017	08/01/2017	09/01/2017	10/02/2017	11/01/2017
Laboratory Sample I.D.		9026068	9087814	9134763	9190377	9242131	9296626
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@25	ND@25	ND@10	ND@50	ND@25	ND@25
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@25	ND@25	ND@10	ND@50	ND@25	ND@25
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@25	ND@25	ND@10	ND@50	ND@25	ND@25
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@25	ND@25	ND@10	ND@50	ND@25	ND@25
ACETONE	ug/l	ND@250	ND@250	ND@100	ND@500	ND@250	ND@250
CHLOROBENZENE	ug/l	ND@25	ND@25	ND@10	ND@50	ND@25	ND@25
CIS-1,2-DICHLOROETHYLENE	ug/l	33	13 J	14	57	28	20 J
DICHLORODIFLUOROMETHANE	ug/l	ND@25	ND@25	ND@10	ND@50	ND@25	ND@25
ETHYLBENZENE	ug/l	ND@25	ND@25	ND@10	ND@50	ND@25	ND@25
M,P-XYLENE	ug/l	ND@25	ND@25	ND@10	ND@50	ND@25	ND@25
O-XYLENE	ug/l	ND@25	ND@25	ND@10	ND@50	ND@25	ND@25
TETRACHLOROETHYLENE	ug/l	5700	1300	1500	7400	3300	2700
TRICHLOROETHYLENE	ug/l	260	71	78	340	120	100
TRICHLOROFLUOROMETHANE	ug/l	ND@25	ND@25	ND@10	ND@50	ND@25	ND@25
VINYL CHLORIDE	ug/l	ND@25	ND@25	ND@10	ND@50	ND@25	ND@25

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Sample Location		395	395A	395A	395A	395A	395A
Sample Description		B/384 SUMP	AREA A INFL	AREA A INFL	AREA A INFL	AREA A INFL	AREA A INFL
Sample Date		12/01/2017	01/03/2017	02/01/2017	03/01/2017	04/03/2017	05/01/2017
Laboratory Sample I.D.		9347119	8771293	8817970	8862688	8918928	8969018
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@25	ND@100	ND@50	ND@100	ND@100	ND@50
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@25	ND@100	ND@50	ND@100	ND@100	ND@50
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@25	ND@100	26 J	46 J	ND@100	47 J
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@25	ND@100	ND@50	ND@100	ND@100	ND@50
ACETONE	ug/l	ND@250	ND@1000	ND@500	ND@1000	ND@1000	ND@500
CHLOROBENZENE	ug/l	ND@25	ND@100	ND@50	ND@100	ND@100	ND@50
CIS-1,2-DICHLOROETHYLENE	ug/l	36	35 J	45 J	82 J	59 J	49 J
DICHLORODIFLUOROMETHANE	ug/l	ND@25	ND@100	ND@50	ND@100	ND@100	ND@50
ETHYLBENZENE	ug/l	ND@25	ND@100	ND@50	ND@100	ND@100	ND@50
M,P-XYLENE	ug/l	ND@25	ND@100	ND@50	ND@100	ND@100	ND@50
O-XYLENE	ug/l	ND@25	ND@100	ND@50	ND@100	ND@100	ND@50
TETRACHLOROETHYLENE	ug/l	3300	11000	10000	25000	18000	13000
TRICHLOROETHYLENE	ug/l	120	270	410	840	560	580
TRICHLOROFLUOROMETHANE	ug/l	ND@25	ND@100	ND@50	ND@100	ND@100	ND@50
VINYL CHLORIDE	ug/l	ND@25	ND@100	ND@50	ND@100	ND@100	ND@50

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Sample Location		395A	395A	395A	395A	395A	395A
Sample Description		AREA A INFL	AREA A INFL	AREA A INFL	AREA A INFL	AREA A INFL	AREA A INFL
Sample Date		06/01/2017	07/05/2017	08/01/2017	09/01/2017	10/02/2017	11/01/2017
Laboratory Sample I.D.		9026070	9087816	9134765	9190378	9242133	9296628
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@25	ND@25	ND@25	ND@25	ND@10	ND@25
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@25	ND@25	ND@25	ND@25	ND@10	ND@25
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	14 J	ND@25	ND@25	ND@25	ND@10	ND@25
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@25	ND@25	ND@25	ND@25	ND@10	ND@25
ACETONE	ug/l	ND@250	ND@250	ND@250	ND@250	ND@100	ND@250
CHLOROBENZENE	ug/l	ND@25	ND@25	ND@25	ND@25	ND@10	ND@25
CIS-1,2-DICHLOROETHYLENE	ug/l	24 J	11 J	15 J	24 J	15	16 J
DICHLORODIFLUOROMETHANE	ug/l	ND@25	ND@25	ND@25	ND@25	ND@10	ND@25
ETHYLBENZENE	ug/l	ND@25	ND@25	ND@25	ND@25	ND@10	ND@25
M,P-XYLENE	ug/l	ND@25	ND@25	ND@25	ND@25	ND@10	ND@25
O-XYLENE	ug/l	ND@25	ND@25	ND@25	ND@25	ND@10	ND@25
TETRACHLOROETHYLENE	ug/l	6800	3100	2500	4900	1900	3600
TRICHLOROETHYLENE	ug/l	260	120	120	200	85	99
TRICHLOROFLUOROMETHANE	ug/l	ND@25	ND@25	ND@25	ND@25	ND@10	ND@25
VINYL CHLORIDE	ug/l	ND@25	ND@25	ND@25	ND@25	ND@10	ND@25

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Sample Location		395A	395B	395B	395B	395B	395B
Sample Description		AREA A INFL	AREA A EFFL	AREA A EFFL	AREA A EFFL	AREA A EFFL	AREA A EFFL
Sample Date		12/01/2017	01/03/2017	02/01/2017	03/01/2017	04/03/2017	05/01/2017
Laboratory Sample I.D.		9347121	8771294	8817971	8862689	8918929	8969019
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@50	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@50	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@50	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@50	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@500	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@50	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	19 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@50	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@50	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@50	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@50	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	3200	ND@0.5	0.2 J	0.2 J	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	120	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@50	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@50	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		395B	395B	395B	395B	395B	395B
Sample Description		AREA A EFFL	AREA A EFFL	AREA A EFFL	AREA A EFFL	AREA A EFFL	AREA A EFFL
Sample Date		06/01/2017	07/05/2017	08/01/2017	09/01/2017	10/02/2017	11/01/2017
Laboratory Sample I.D.		9026071	9087817	9134766	9190379	9242134	9296629
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	0.2 J	0.4 J	0.3 J	0.2 J	0.1 J
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

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Sample Location		395B	500	500	500	500	500
Sample Description		AREA A EFFL	C CARB INFL	C CARB INFL	C CARB INFL	C CARB INFL	C CARB INFL
Sample Date		12/01/2017	01/03/2017	02/06/2017	03/06/2017	04/03/2017	05/02/2017
Laboratory Sample I.D.		9347122	R1700045-001	R1701053-001	R1702048-001	R1703076-001	R1703969-001
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	0.52 J	0.48 J	0.68 J	0.83 J	0.40 J
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	1.8 J	ND@5.0	4.6 J	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	1.9	4.3	1.7	4.1	1.8
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@0.5	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@0.5	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@0.5	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	0.4 J	19	15	22	27	4.4
TRICHLOROETHYLENE	ug/l	ND@0.5	6.8	5.2	8.0	8.0	1.8
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@1.0	ND@1.0	0.30 J	0.32 J	ND@1.0
VINYL CHLORIDE	ug/l	ND@0.5	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		500	500	500	500	500	500
Sample Description		C CARB INFL	C CARB INFL	C CARB INFL	C CARB INFL	C CARB INFL	C CARB INFL
Sample Date		06/05/2017	07/05/2017	08/07/2017	09/05/2017	10/02/2017	11/06/2017
Laboratory Sample I.D.		R1705153-001	R1706088-001	R1707323-001	R1708303-001	R1709308-001	R1710531-001
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.77 J	0.78 J	0.69 J	1.2	0.86 J	0.58 J
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	2.3 J	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	0.85 J	0.77 J	0.89 J	1.8	0.93 J	0.62 J
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	7.8	8.5	5.9	15	7.0	5.6
TRICHLOROETHYLENE	ug/l	2.8	2.9	2.3	5.7	2.7	2.1
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		500	511	511	511	511	511
Sample Description		C CARB INFL	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1
Sample Date		12/04/2017	01/03/2017	01/09/2017	01/16/2017	01/23/2017	01/30/2017
Laboratory Sample I.D.		R1711486-001	R1700045-003	R1700279-002	R1700475-002	R1700682-002	R1700813-002
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.42 J	3.0	3.6	3.9	4.2	4.6
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	0.46 J	0.41 J	0.30 J	0.35 J	0.39 J
ACETONE	ug/l	2.1 J	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	0.91 J	1.7	2.9	4.0	5.5	6.1
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	5.3	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	0.44 J	0.47 J	0.45 J	0.57 J	0.50 J
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		511	511	511	511	511	511
Sample Description		C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1
Sample Date		02/06/2017	02/13/2017	02/15/2017	02/20/2017	02/27/2017	03/06/2017
Laboratory Sample I.D.		R1701053-003	R1701321-002	R1701458-001	R1701563-002	R1701890-002	R1702048-003
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	4.8	4.8	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.42 J	0.37 J	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	6.5	7.5	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	0.52 J	0.52 J	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		511	511	511	511	511	511
Sample Description		C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1
Sample Date		03/13/2017	03/20/2017	03/27/2017	04/03/2017	04/10/2017	04/17/2017
Laboratory Sample I.D.		R1702161-002	R1702427-002	R1702614-002	R1703076-003	R1703243-002	R1703382-002
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	1.8 J	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		511	511	511	511	511	511
Sample Description		C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1
Sample Date		04/24/2017	05/02/2017	05/08/2017	05/15/2017	05/22/2017	05/30/2017
Laboratory Sample I.D.		R1703628-002	R1703969-003	R1704192-002	R1704356-002	R1704676-002	R1704960-002
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		511	511	511	511	511	511
Sample Description		C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1
Sample Date		06/05/2017	06/12/2017	06/19/2017	06/26/2017	07/05/2017	07/10/2017
Laboratory Sample I.D.		R1705153-003	R1705400-002	R1705618-002	R1705885-002	R1706088-003	R1706255-002
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		511	511	511	511	511	511
Sample Description		C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1
Sample Date		07/17/2017	07/24/2017	07/31/2017	08/07/2017	08/14/2017	08/21/2017
Laboratory Sample I.D.		R1706642-002	R1706742-002	R1707026-002	R1707323-003	R1707562-002	R1707834-002
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.35 J	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	1.7 J
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	0.36 J	0.45 J	0.49 J	0.67 J
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		511	511	511	511	511	511
Sample Description		C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1
Sample Date		08/28/2017	09/05/2017	09/11/2017	09/18/2017	09/25/2017	10/02/2017
Laboratory Sample I.D.		R1708019-002	R1708303-003	R1708539-002	R1708747-002	R1709028-002	R1709308-003
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.32 J	0.45 J	0.51 J	0.53 J	ND@5.0	0.60 J
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	NA	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	0.68 J	0.85 J	1.1	1.3	1.5 J	1.7
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@10	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0

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Sample Location		511	511	511	511	511	511
Sample Description		C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1
Sample Date		10/09/2017	10/16/2017	10/23/2017	10/30/2017	11/06/2017	11/13/2017
Laboratory Sample I.D.		R1709585-002	R1709825-002	R1710066-002	R1710287-002	R1710531-003	R1710800-002
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.73 J	0.81 J	0.88 J	1.1	1.1	1.1
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	1.5 J	1.7 J	NA
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	1.7	2.0	2.3	2.4	3.1	3.2
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	0.24 J	0.29 J	0.25 J
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		511	511	511	511	511	511
Sample Description		C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1	C CARB/GAC 1
Sample Date		11/20/2017	11/27/2017	12/04/2017	12/11/2017	12/18/2017	12/26/2017
Laboratory Sample I.D.		R1711078-002	R1711244-002	R1711486-003	R1711783-002	R1712012-002	R1712208-003
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1.0	1.7	1.5	1.8	2.3	2.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.21 J	0.33 J	0.35 J	0.30 J	0.39 J	0.23 J
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	1.5 J	1.4 J
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	3.2	3.9	4.1	4.0	5.8	5.3
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	0.49 J	0.63 J	0.89 J	0.86 J	1.0	1.2
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		512	512	512	512	512	512
Sample Description		C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2
Sample Date		01/03/2017	01/09/2017	01/16/2017	01/23/2017	01/30/2017	02/06/2017
Laboratory Sample I.D.		R1700045-004	R1700279-003	R1700475-003	R1700682-003	R1700813-003	R1701053-004
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.41 J
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		512	512	512	512	512	512
Sample Description		C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2
Sample Date		02/13/2017	02/20/2017	02/27/2017	03/06/2017	03/13/2017	03/20/2017
Laboratory Sample I.D.		R1701321-003	R1701563-003	R1701890-003	R1702048-004	R1702161-003	R1702427-003
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	0.40 J	ND@1.0	0.53 J	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	0.31 J	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		512	512	512	512	512	512
Sample Description		C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2
Sample Date		03/27/2017	04/03/2017	04/10/2017	04/17/2017	04/24/2017	05/02/2017
Laboratory Sample I.D.		R1702614-003	R1703076-004	R1703243-003	R1703382-003	R1703628-003	R1703969-004
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		512	512	512	512	512	512
Sample Description		C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2
Sample Date		05/08/2017	05/15/2017	05/22/2017	05/30/2017	06/05/2017	06/12/2017
Laboratory Sample I.D.		R1704192-003	R1704356-003	R1704676-003	R1704960-003	R1705153-004	R1705400-003
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	0.40 J	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.35 J
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		512	512	512	512	512	512
Sample Description		C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2
Sample Date		06/19/2017	06/26/2017	07/05/2017	07/10/2017	07/17/2017	07/24/2017
Laboratory Sample I.D.		R1705618-003	R1705885-003	R1706088-004	R1706255-003	R1706642-003	R1706742-003
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	1.5 J	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		512	512	512	512	512	512
Sample Description		C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2
Sample Date		07/31/2017	08/07/2017	08/14/2017	08/21/2017	08/28/2017	09/05/2017
Laboratory Sample I.D.		R1707026-003	R1707323-004	R1707562-003	R1707834-003	R1708019-003	R1708303-004
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	1.7 J	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	0.32 J	0.41 J	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		512	512	512	512	512	512
Sample Description		C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2
Sample Date		09/11/2017	09/18/2017	09/25/2017	10/02/2017	10/09/2017	10/16/2017
Laboratory Sample I.D.		R1708539-003	R1708747-003	R1709028-003	R1709308-004	R1709585-003	R1709825-003
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@20	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@20	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@20	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@20	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	1.3 J	ND@5.0	NA	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@20	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	0.34 J	ND@20	0.37 J	0.33 J	0.32 J
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@20	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@20	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@40	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@20	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@20	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@20	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@20	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@20	ND@1.0	ND@1.0	ND@1.0

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Sample Location		512	512	512	512	512	512
Sample Description		C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2
Sample Date		10/23/2017	10/30/2017	11/06/2017	11/13/2017	11/20/2017	11/27/2017
Laboratory Sample I.D.		R1710066-003	R1710287-003	R1710531-004	R1710800-003	R1711078-003	R1711244-003
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	1.7 J	ND@5.0	1.6 J	NA	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	0.33 J	0.53 J	0.37 J	0.30 J	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		512	512	512	512	513	513
Sample Description		C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 2	C CARB/GAC 3	C CARB/GAC 3
Sample Date		12/04/2017	12/11/2017	12/18/2017	12/26/2017	01/03/2017	01/09/2017
Laboratory Sample I.D.		R1711486-004	R1711783-003	R1712012-003	R1712208-004	R1700045-005	R1700279-004
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	1.4 J	ND@5.0	1.7 J	ND@5.0	ND@5.0	1.6 J
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	0.33 J	ND@1.0	ND@1.0	0.41 J	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		513	513	513	513	513	513
Sample Description		C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3
Sample Date		01/16/2017	01/23/2017	01/30/2017	02/06/2017	02/13/2017	02/20/2017
Laboratory Sample I.D.		R1700475-004	R1700682-004	R1700813-004	R1701053-005	R1701321-004	R1701563-004
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.47 J
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	0.45 J	0.68 J	0.66 J
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		513	513	513	513	513	513
Sample Description		C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3
Sample Date		02/27/2017	03/06/2017	03/13/2017	03/20/2017	03/27/2017	04/03/2017
Laboratory Sample I.D.		R1701890-004	R1702048-005	R1702161-004	R1702427-004	R1702614-004	R1703076-005
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.64 J	0.56 J	1.3	1.8	1.0	2.2
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.26 J	0.21 J	0.42 J	0.37 J	0.26 J	0.42 J
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	1.2	1.8	3.0	4.5	3.8	6.8
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		513	513	513	513	513	513
Sample Description		C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3
Sample Date		04/10/2017	04/17/2017	04/24/2017	05/02/2017	05/08/2017	05/15/2017
Laboratory Sample I.D.		R1703243-004	R1703382-004	R1703628-004	R1703969-005	R1704192-004	R1704356-004
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	3.4	2.5	3.1	3.1	3.9	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.79 J	0.46 J	0.46 J	0.47 J	0.79 J	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	1.4 J	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	9.6	11	11	12	14	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		513	513	513	513	513	513
Sample Description		C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3
Sample Date		05/22/2017	05/30/2017	06/05/2017	06/12/2017	06/19/2017	06/26/2017
Laboratory Sample I.D.		R1704676-004	R1704960-004	R1705153-005	R1705400-004	R1705618-004	R1705885-004
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		513	513	513	513	513	513
Sample Description		C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3
Sample Date		07/05/2017	07/10/2017	07/17/2017	07/24/2017	07/31/2017	08/07/2017
Laboratory Sample I.D.		R1706088-005	R1706255-004	R1706642-004	R1706742-004	R1707026-004	R1707323-005
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		513	513	513	513	513	513
Sample Description		C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3
Sample Date		08/14/2017	08/21/2017	08/28/2017	09/05/2017	09/11/2017	09/18/2017
Laboratory Sample I.D.		R1707562-004	R1707834-004	R1708019-004	R1708303-005	R1708539-004	R1708747-004
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	0.45 J	ND@1.0	0.40 J	ND@1.0	ND@1.0

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Sample Location		513	513	513	513	513	513
Sample Description		C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3
Sample Date		09/25/2017	10/02/2017	10/09/2017	10/16/2017	10/23/2017	10/30/2017
Laboratory Sample I.D.		R1709028-004	R1709308-005	R1709585-004	R1709825-004	R1710066-004	R1710287-004
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	NA	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@10	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@5.0	0.33 J	ND@1.0	0.38 J	ND@1.0	0.33 J

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Sample Location		513	513	513	513	513	513
Sample Description		C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3	C CARB/GAC 3
Sample Date		11/06/2017	11/13/2017	11/20/2017	11/27/2017	12/04/2017	12/11/2017
Laboratory Sample I.D.		R1710531-005	R1710800-004	R1711078-004	R1711244-004	R1711486-005	R1711783-004
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	NA	ND@5.0	ND@5.0	2.2 J	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	0.30 J	ND@1.0	ND@1.0	0.42 J	0.52 J	0.57 J
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	0.36 J	ND@1.0	ND@1.0	0.34 J	0.36 J	ND@1.0

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Sample Location		513	513	555	555	555	555
Sample Description		C CARB/GAC 3	C CARB/GAC 3	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL
Sample Date		12/18/2017	12/26/2017	01/03/2017	01/09/2017	01/16/2017	01/23/2017
Laboratory Sample I.D.		R1712012-004	R1712208-005	R1700045-002	R1700279-001	R1700475-001	R1700682-001
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	1.7 J	3.0 J	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	0.85 J	0.79 J	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		555	555	555	555	555	555
Sample Description		C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL
Sample Date		01/30/2017	02/06/2017	02/13/2017	02/20/2017	02/27/2017	03/06/2017
Laboratory Sample I.D.		R1700813-001	R1701053-002	R1701321-001	R1701563-001	R1701890-001	R1702048-002
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		555	555	555	555	555	555
Sample Description		C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL
Sample Date		03/13/2017	03/20/2017	03/27/2017	04/03/2017	04/10/2017	04/17/2017
Laboratory Sample I.D.		R1702161-001	R1702427-001	R1702614-001	R1703076-002	R1703243-001	R1703382-001
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		555	555	555	555	555	555
Sample Description		C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL
Sample Date		04/24/2017	05/02/2017	05/08/2017	05/15/2017	05/22/2017	05/30/2017
Laboratory Sample I.D.		R1703628-001	R1703969-002	R1704192-001	R1704356-001	R1704676-001	R1704960-001
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	2.3 J	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		555	555	555	555	555	555
Sample Description		C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL
Sample Date		06/05/2017	06/12/2017	06/19/2017	06/26/2017	07/05/2017	07/10/2017
Laboratory Sample I.D.		R1705153-002	R1705400-001	R1705618-001	R1705885-001	R1706088-002	R1706255-001
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	1.4 J
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		555	555	555	555	555	555
Sample Description		C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL
Sample Date		07/17/2017	07/24/2017	07/31/2017	08/07/2017	08/14/2017	08/21/2017
Laboratory Sample I.D.		R1706642-001	R1706742-001	R1707026-001	R1707323-002	R1707562-001	R1707834-001
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	1.4 J	1.5 J
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		555	555	555	555	555	555
Sample Description		C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL
Sample Date		08/28/2017	09/05/2017	09/11/2017	09/18/2017	09/25/2017	10/02/2017
Laboratory Sample I.D.		R1708019-001	R1708303-002	R1708539-001	R1708747-001	R1709028-001	R1709308-002
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	NA	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		555	555	555	555	555	555
Sample Description		C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL
Sample Date		10/09/2017	10/16/2017	10/23/2017	10/30/2017	11/06/2017	11/13/2017
Laboratory Sample I.D.		R1709585-001	R1709825-001	R1710066-001	R1710287-001	R1710531-002	R1710800-001
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	1.5 J	ND@5.0	NA
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		555	555	555	555	555	555
Sample Description		C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL	C CARB EFFL
Sample Date		11/20/2017	11/27/2017	12/04/2017	12/11/2017	12/18/2017	12/26/2017
Laboratory Sample I.D.		R1711078-001	R1711244-001	R1711486-002	R1711783-001	R1712012-001	R1712208-002
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	1.6 J	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

Former IBM East Fishkill Facility
Groundwater Treatment Analytical Data - Organics
January 1, 2017 - December 31, 2017

Sample Location		612	612	612	612	612	617
Sample Description		GW/B322 IN	GW/B322 IN	GW/B322 IN	GW/B322 IN	GW/B322 IN	GW/B322 IN
Sample Date		01/10/2017	04/06/2017	05/01/2017	07/07/2017	10/17/2017	01/10/2017
Laboratory Sample I.D.		8785339	8929619	8969015	9092410	9269444	8785338
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	41	70	48	15	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	0.1 J	ND@0.5	ND@0.5	0.1 J	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	0.2 J	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	0.1 J
TRICHLOROETHYLENE	ug/l	0.2 J	ND@0.5	ND@0.5	ND@0.5	0.1 J	0.2 J
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

Former IBM East Fishkill Facility
Groundwater Treatment Analytical Data - Organics
January 1, 2017 - December 31, 2017

Sample Location		617	617	617	618	618	618
Sample Description		GW/B322 IN	GW/B322 IN	GW/B322 IN	GW/B322 IN	GW/B322 IN	GW/B322 IN
Sample Date		04/05/2017	07/07/2017	10/17/2017	01/10/2017	04/18/2017	07/07/2017
Laboratory Sample I.D.		8925556	9092411	9269445	8785337	8947289	9092409
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	0.3 J	0.3 J	0.4 J
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	0.1 J	0.1 J	0.1 J	ND@0.5	ND@0.5	ND@0.5
TRICHLOROETHYLENE	ug/l	0.2 J	0.2 J	0.3 J	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

Former IBM East Fishkill Facility
Groundwater Treatment Analytical Data - Organics
January 1, 2017 - December 31, 2017

Sample Location		618	628	628	628	628
Sample Description		GW/B322 IN	GW/AREA B IN	GW/AREA B IN	GW/AREA B IN	GW/AREA B IN
Sample Date		10/18/2017	01/10/2017	04/05/2017	07/06/2017	10/16/2017
Laboratory Sample I.D.		9276043	8785343	8925551	9092395	9269432
Sample Comment Codes						
Parameter	**Units**					
Base/Neutral Extractables						
1,2-DICHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
Volatile Organics						
1,1,1-TRICHLOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ACETONE	ug/l	ND@5.0	ND@5.0	ND@5.0	ND@5.0	ND@5.0
CHLOROBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
CIS-1,2-DICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
DICHLORODIFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
ETHYLBENZENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
M,P-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
O-XYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TETRACHLOROETHYLENE	ug/l	ND@0.5	0.3 J	0.7	0.1 J	0.7
TRICHLOROETHYLENE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
TRICHLOROFLUOROMETHANE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5
VINYL CHLORIDE	ug/l	ND@0.5	ND@0.5	ND@0.5	ND@0.5	ND@0.5

Former IBM East Fishkill Facility
Groundwater Treatment Analytical Data - Organics
January 1, 2017 - December 31, 2017

Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
D	Compound identified at a secondary dilution factor (Organics)
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit

Former IBM East Fishkill Facility
Groundwater Treatment Analytical Data - Inorganics
January 1, 2017 - December 31, 2017

Sample Location		395	395	395	395	395	395
Sample Description		B/384 SUMP	B/384 SUMP	B/384 SUMP	B/384 SUMP	B/384 SUMP	B/384 SUMP
Sample Date		01/03/2017	02/01/2017	03/01/2017	04/03/2017	05/01/2017	06/01/2017
Laboratory Sample I.D.		8771292	8817969	8862686	8918926	8969016	9026068
Sample Comment Codes							
Parameter	**Units**						
Inorganics							
FLUORIDE	mg/l	0.86	0.92	0.91	0.66	0.84	0.72
Metals							
CHROMIUM, DISSOLVED	mg/l	0.0025 J	0.0016 J	0.0022 J	0.0017 J	0.0020 J	0.0013 J
CHROMIUM, TOTAL	mg/l	0.102	0.0338	0.0127	0.0280	0.0608	0.0050

Former IBM East Fishkill Facility
Groundwater Treatment Analytical Data - Inorganics
January 1, 2017 - December 31, 2017

Sample Location		395	395	395	395	395	395
Sample Description		B/384 SUMP	B/384 SUMP	B/384 SUMP	B/384 SUMP	B/384 SUMP	B/384 SUMP
Sample Date		07/05/2017	08/01/2017	09/01/2017	10/02/2017	11/01/2017	12/01/2017
Laboratory Sample I.D.		9087815	9134764	9190377	9242131	9296626	9347119
Sample Comment Codes							
Parameter	**Units**						
Inorganics							
FLUORIDE	mg/l	1.4	1.1	1.3	1.5	1.7	1.4
Metals							
CHROMIUM, DISSOLVED	mg/l	0.0024 J	0.0024 J	0.0029 J	0.0040	0.0026 J	0.0018 J
CHROMIUM, TOTAL	mg/l	0.178	0.0137	0.0043	0.246	0.0076	0.0062

Former IBM East Fishkill Facility
Groundwater Treatment Analytical Data - Inorganics
January 1, 2017 - December 31, 2017

Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit

Appendix H

Groundwater Statistics

Maximum Groundwater Concentrations in GMP Wells during 2017
Statistical Trends in Contaminant Reduction Wells
Evaluations of Statistical Trends in Point-of-Compliance Wells
Statistical Evaluation of Changes in Water Quality at Corrective Action Monitoring Wells using the Mann-Whitney Test

Maximum Groundwater Concentrations in GMP Wells during 2017 (µg/l) (does not include production wells or groundwater treatment points)					
Parameter	**NYSGQS (µg/l)**	**Soil Water-Bearing Zones**		**Bedrock Water-Bearing Zones**	
		Location	**Conc. (µg/l)**	**Location**	**Conc. (µg/l)**
Chlorobenzene	5	767	0.6	607	5.7
1,2-Dichlorobenzene	3	766	3.1	960	18
Dichlorodifluoromethane (Freon® 12)	5	016	13	734	0.3
Ethylbenzene	5	none	not detected	959	0.3
Vinyl Chloride	2	706	38	607	32
1,2-Dichloro-1,2,2-trifluoroethane (Freon® 123a)	5	714	6.7	607	10
Tetrachloroethene	5	572	220,000	118	210,000
1,1,2-trichloro-1,2,2-trifluoroethane (Freon® TF)	5	735	340	118	1,500
Trichloroethene	5	572	1,000	941	1,100
cis-1,2-Dichloroethene	5	572	1,000	607	2,500
Total Fluoride	1,500	627	69,600	not applicable	not applicable[2]
Chromium (total) Chromium (dissolved)	50	789 771	5,590 8.8	952 007	5.2 0.96
Arsenic (total) Arsenic (dissolved)	25	766 767	20.9 9.5	960 none	67.2 not detected
Nickel (total) Nickel (dissolved)	100	766 766	581 417	not applicable	not applicable[2]
Acetone[1]	None[3]	612	70	732	70
Trichlorofluoromethane (Freon® 11)	5	771	3.6	732	4.6
m,p-xylene	5	612	0.2	929	1.2
o-xylene	5	none	not detected	959	0.6
1,1,1-Trichloroethane	5	714	4.4	734	0.3

NYSGQS - New York State Groundwater Quality Standard (6NYCRR Part 703). All concentrations have been rounded to not more than two significant figures for VOCs and three significant figures for inorganic parameters.
1 - Common laboratory contaminant.
2 - Bedrock monitoring wells are not sampled for total fluoride or nickel.
3 - A "general organic guidance value" of 50 µg/l has been established for this parameter (Part 702.15 of the NY State Water Quality Regulations).
Due to the very high concentrations of PCE in wells 572, 574, and 118, higher concentrations of some parameters may have been diluted out in the laboratory analysis for these three wells.

Statistical Trends in Contaminant Reduction Monitoring Wells 2008-2017						
Well	**Figure Number**	**Location**	**Parameter**	**Trend**	**Confidence Limit**	**Test Type**
010	3-1	Area A	PCE-Series Freon® TF	No trend No trend	-- --	MK
016	3-2	Area A	PCE-Series Freon® TF	Decreasing NA	>95% --	MK
032B [1]	3-3	Area D	PCE-Series Freon® TF	Decreasing NA	>95% --	SK
103	3-4	Area A	PCE-Series Freon® TF	No trend NA	-- --	MK
104	3-5	Area A	PCE-Series Freon® TF	Decreasing NA	>95% --	MK
105	3-6	Area A (bedrock)	PCE-Series Freon® TF	Decreasing NA	>95% --	MK
612	3-7	B/322	PCE-Series Freon® TF	Decreasing NA	>95% --	SK
613	3-8	B/322	PCE-Series Freon® TF	Insufficient Data	-- --	None
617	3-9	B/322	PCE-Series Freon® TF	NA NA	-- --	SK
618	3-10	B/322	PCE-Series Freon® TF	NA NA	-- --	SK
628	3-13	Area B	PCE-Series Freon® TF	Decreasing NA	>95% --	SK
714	3-11	Area A	PCE-Series Freon® TF	Decreasing No trend	>95% --	MK
716	3-12	Area A (bedrock)	PCE-Series Freon® TF	No trend No trend	-- --	MK
943	3-14	Area C (Landfill) (bedrock)	PCE-Series Freon® TF	No trend No trend	-- --	MK
B/384 Sump [2]	3-19	Area A	PCE-Series Freon® TF	Decreasing NA	>95% --	SK
PW-1	3-15	Bedrock	PCE-Series Freon® TF	Decreasing Decreasing	>95% >95%	SK
PW-2	3-16	Bedrock	PCE-Series Freon® TF	No trend Decreasing	-- >95%	SK
PW-4	3-17	Bedrock	PCE-Series Freon® TF	Decreasing Decreasing	>95% >95%	SK
PW-25	3-18	Bedrock	PCE-Series Freon® TF	Decreasing No trend	>95% --	SK

Test Type: SK = Seasonal Kendall test
MK = Mann-Kendall test for trend with deseasonalized data, where possible.
1 - Well 032B replaced well 032A in September 2012.
2 - Location designation 395
Note: Well 613 is used for emergencies only, and does not have sufficient data to test for trend.
NA – Testing for trend is not applicable, average data from 2008 to 2017 is zero or near zero.

Evaluations of Statistical Trends in Point-of-Compliance Wells 2008-2017					
Well	**Figure No.**	**Location**	**Parameter**	**Trend**	**Confidence Limit**
064	3-20	Area B	PCE-Series Freon® TF	Decreasing No trend	>90% --
065	3-21	Area B	PCE-Series Freon® TF	No trend No trend	-- --
066	3-22	Area D	PCE-Series Freon® TF	No trend No trend	-- --
067	3-23	Area D	PCE-Series Freon® TF	No trend No trend	-- --
987	3-24	Southeast Quadrant	PCE-Series Freon® TF	No trend No trend	-- --
990	3-25	Southeast Quadrant	PCE-Series Freon® TF	Decreasing No trend	>95% --
All wells are soil monitoring wells except wells 065 and 987.					

Statistical Evaluation of Changes in Water Quality at Corrective Action Monitoring Wells using the Mann-Whitney Test, adjusted for Seasonality
Evaluation Period: 2008-2017

Key Compound: **PCE-Series**
Statistically Significant Change in Concentration: **Decrease**

Well	Location	Well	Location
016	Area A	768	B/322
064	Area B	769	B/322
103	Area A	772	B/322
105	Bedrock	793	B/322
181	B/330	921	B/330
B/384 Sump	Area A (sample point 395)	922	B/330 (Bedrock)
559	Area C (Landfill, Bedrock)	923	B/330 (Bedrock)
576	B/330	932	Area C (Landfill, Bedrock)
609	B/330 (Bedrock)	941	B/330 (Bedrock)
610	B/330 (Bedrock)	954	B/330 (Bedrock)
623	B/330 (Bedrock)	956	B/330
624	B/330 (Bedrock)	959	B/322 (Bedrock)
628	Area B	960	B/322 (Bedrock)
714	Area A	990	SEQ
732	Area A (Bedrock)	999	Area A
735	B/322	PW-1	Bedrock
742	B/322 (Bedrock)	PW-2	Bedrock
766	B/322	PW-4	Bedrock
767	B/322	PW-25	Bedrock

Key Compound: **PCE-Series**
Statistically Significant Change in Concentration: **Increase**

Well	Location	Well	Location
015	Area A	737	B/322 (Bedrock)
032B	Area D	744	Area A
048	SEQ	757	Area D
054	Area C	929	B/330 (Bedrock)
109	Bedrock	931	B/330 (Bedrock)
607	B/330 (Bedrock)	943	Area C (Landfill, Bedrock)
702	Area A	998	Area A
706	Area A	PW-23	SEQ
720	Area A		

Statistical Evaluation of Changes in Water Quality at Corrective Action Monitoring Wells using the Mann-Whitney Test, adjusted for Seasonality
Evaluation Period: 2008-2017 (continued)

Key Compound: Freon® TF
Statistically Significant Change in Concentration: Decrease

Well	Location	Well	Location
010	Area A	929	B/330 (Bedrock)
559	Area C (Landfill)	932	Area C (Landfill, Bedrock)
609	B/330 (Bedrock)	941	B/330 (Bedrock)
610	B/330 (Bedrock)	959	B/322 (Bedrock)
716	Bedrock	960	B/322 (Bedrock)
732	Area A (Bedrock)	PW-1	Bedrock
734	Area A	PW-2	Bedrock
921	B/330	PW-4	Bedrock
922	B/330 (Bedrock)	PW-25	Bedrock
923	B/330 (Bedrock)		

Key Compound: **Freon® TF**
Statistically Significant Change in Concentration: **Increase**

Well	Location	Well	Location
735	B/322 (Bedrock)	943	Area C (Landfill, Bedrock)
737	B/322 (Bedrock)		

Appendix I

Vapor Intrusion Assessment Annual Report

SANBORN HEAD ENGINEERING

Building Trust. Engineering Success.

VAPOR INTRUSION ASSESSMENT
2017 ANNUAL REPORT

Former IBM East Fishkill Facility
Hopewell Junction, New York

IBM
Corporate Environmental Affairs

Prepared for IBM Corporation
File No. 2999.06
May 2018

SANBORN HEAD ENGINEERING
Building Trust. Engineering Success.

20 Foundry Street
Concord, NH 03301

Dean Chartrand
IBM Corporate Environmental Affairs
8976 Wellington Road
Manassas, VA 20109

May 22, 2018
File No. 2999.06

Re: Vapor Intrusion Assessment – 2017 Annual Report
Former IBM East Fishkill Facility
Hopewell Junction, New York
EPA ID No. NYD000707901, NYSDEC Site No. 314054

Dear Mr. Chartrand:

The enclosed report provides a summary of vapor intrusion assessment and mitigation-related work that was completed in 2017 at the former IBM East Fishkill facility. We understand that this report will be included as an appendix to the facility's 2017 Annual Corrective Action Status Report. Please contact us if you have any questions.

Very truly yours,
SANBORN, HEAD ENGINEERING, P.C.

David Shea

David Shea, P.E.
President

JHS/DS: ds

Encl. Vapor Intrusion Assessment – 2017 Annual Report

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SANBORN HEAD ENGINEERING

Building Trust. Engineering Success.

VAPOR INSTRUSION ASSESSMENT
2017 ANNUAL REPORT

Former IBM East Fishkill Facility
Hopewell Junction, New York

Prepared for
IBM Corporation

Corporate Environmental Affairs

Prepared by
Sanborn, Head Engineering, P.C.

File 2999.06
May 2018

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APPENDICES

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Appendix B HVAC Conditions

1.0 INTRODUCTION

This report summarizes the status of vapor intrusion (VI) assessment and mitigation-related work at the former IBM East Fishkill Facility (the site) for the calendar year 2017. Site ownership was transferred to Global Foundries in 2015, who then sold portions of the site to iPark East Fishkill LLC and iPark East Fishkill I LLC (collectively referred to as National Resources (NR)) in 2017. This report (hereinafter referred to as the VI Assessment Annual Report) will be submitted to the New York State Department of Environmental Conservation (NYSDEC) as an appendix to the 2017 Annual Corrective Action Status Report prepared on behalf of IBM by Groundwater Sciences Corporation (GSC).

A site location plan is provided as Figure 1, and a map of site buildings is provided as Figure 2. The work described herein was conducted on behalf of IBM by Sanborn, Head Engineering, PC (SHPC) in general accordance with IBM's Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Work Plan dated June 15, 2009 (RFI Work Plan), which was approved by NYSDEC.

The services conducted and this report are subject to the standard limitations for this type of work, as described in Appendix A.

1.1 Report Organization

This report is organized into four sections as described below:

Section 1 presents a general introduction, including the objectives and scope of the report, and a summary of the status of the buildings that were the focus of the RFI Work Plan.

Section 2 summarizes the status of heating, ventilating, and air conditioning (HVAC) operations and occupancy for buildings where HVAC settings were adjusted in 2015 and 2016 due to changing occupancy.

Section 3 provides a summary of subslab depressurization (SSD) and exterior soil vapor extraction (SVE) system operation and performance in 2017, including the implementation of two interim SSD systems in Building 330D (B330D) and subsequent indoor air quality (IAQ) sampling.

Section 4 provides a summary of upcoming activities at the site.

1.2 Objectives and Scope

The purpose of this report is to summarize the status of VI assessment and mitigation-related work at the site for the calendar year 2017. The work performed in 2017 included installation, start-up, and performance monitoring of two interim SSD systems and subsequent confirmatory IAQ sampling in B330D. In addition, this report provides system performance data for three existing SSD systems, one existing interim SSD system, and one existing exterior SVE system. These systems are being operated at the site for VI mitigation

and volatile organic compound (VOC) source reduction. A discussion regarding the initial construction of a permanent SSD system for Building 330C (B330C) is also provided.

In general, summary reports have been submitted to NYSDEC for the work discussed herein. Therefore, this report serves as an overall summary of the previous submittals, which are referenced in the applicable sections below.

1.3 RFI Work Plan Status and Responsibility

IBM's RFI Work Plan for VI assessment focused on 13 buildings. The activities in 2017 and the status of these buildings are summarized in Table 1. IBM divested its former East Fishkill facility to GF in July 2015, who sold portions of the campus to NR in the fall of 2017, including some of the buildings subject to the RFI Work Plan. IBM maintains responsibility for execution of the RFI Work Plan. IBM is working cooperatively with GF and NR to maintain the appropriate HVAC operating conditions necessary for VI mitigation in routinely occupied portions of the buildings that were the focus of the RFI Work Plan. It is GF's and NR's responsibility to communicate to IBM planned changes to occupancy or HVAC conditions in these buildings, so that IBM can assess whether additional IAQ testing is warranted at that time. IBM maintains responsibility for operation and maintenance (O&M) of the SSD and SVE systems for VI mitigation and VOC source reduction.

2.0 STATUS OF BUILDING HVAC AND OCCUPANCY

The 2015 and 2016 Annual Reports included the status of HVAC conditions and occupancy for Buildings 310, 322, 330C, 330D, and 338 following HVAC adjustments and IAQ testing conducted in those buildings. The tables from those reports that summarize prior and current HVAC conditions are included in Appendix B for reference.

GF and NR have not indicated that changes were made to HVAC operations in Buildings 310, 322, 330C, 330D, and 338, nor any other buildings, in 2017. We understand that the archive area in the northwest corner of B310 was vacated in 2017. GF and NR have not indicated that other significant changes to occupancy occurred in 2017 in any of the buildings included in the RFI Work Plan.

3.0 SUBSLAB DEPRESSURIZATION AND SOIL VAPOR EXTRACTION SYSTEMS

In 2017, operations continued for the following systems:

- An SSD system in the Building 330D former 80K Area at the north end (designated as VE1);
- An SSD system in Building 310 (designated as VE2);
- An SSD system in the Building 308/310 linkway (linkway);
- An exterior SVE system in Remediation Area A (designated as VE3); and
- An interim SSD system in the former Baseline Area of Building 330C (designated as VE4).

In addition, two interim SSD systems (designated as VE5 and VE6) were constructed and put into operation in Building 330D in February 2017.

The primary purpose of the SSD systems in the B330D former 80K area, B310, and the linkway is to mitigate the vapor intrusion pathway into those buildings and secondarily provide VOC source reduction. The Area A SVE system was installed for supplemental VOC source reduction from a portion of a historical source area. The B330C and B330D interim SSD systems were installed to target the highest concentrations of tetrachloroethene (PCE) in subslab vapor and serve as provisional mitigation until permanent SSD systems are installed. Operations and performance summaries of these systems are provided below.

3.1 B330D Former 80K Area SSD System

The B330D former 80K Area SSD system (VE1) was put into operation on October 6, 2010 as documented in a December 2011 report submitted to NYSDEC.[1] As discussed in the 2016 Annual Report, the points of subslab vapor extraction were changed from the original five extraction ports in use since system startup to suction pit SP4001 on December 29, 2016. The purpose of the change was to decrease the energy consumption and physical footprint of the system, while maintaining a similar area of influence.

The SSD system is designed for continuous operation. To ensure its ongoing effectiveness, IBM conducts periodic monitoring of operations and performance. Operations monitoring includes periodic review of system components, the results of which are recorded on a system log sheet. Performance monitoring involves sampling of extracted and treated vapor to track VOC mass removal and the need for change-outs of the GAC treatment units.

Our review of the 2017 operations log sheets indicated that the system operated consistently without any significant shutdowns. Cross-slab differential pressure readings within the former 80K area were recorded on December 13, 2017. These readings, along with the applied vacuum and flow at SP4001, and the approximate extent of subslab depressurization, are shown on Figure 3. The influence of the two interim SSD systems is also depicted on Figure 3 given that all three systems were operating at the time. Based on our review of the operations log sheets and the cross-slab differential pressure measurements, it is our opinion that the SSD system operated in accordance with its design objectives.

Treatment system process vapor samples were collected monthly and analyzed for VOCs. Approximately 5,500 pounds of PCE were removed from the subsurface during 2017, bringing the total PCE mass removed since the October 2010 system startup to approximately 14,600 pounds. A plot of mass removal rate and cumulative mass removed is shown on Exhibit 1 below.

[1] Sanborn, Head Engineering, PC, *Performance Monitoring and Confirmatory Sampling Results – Building 330D VOC Source Assessment, Hopewell Junction, NY, IBM East Fishkill Facility,* December 2011.

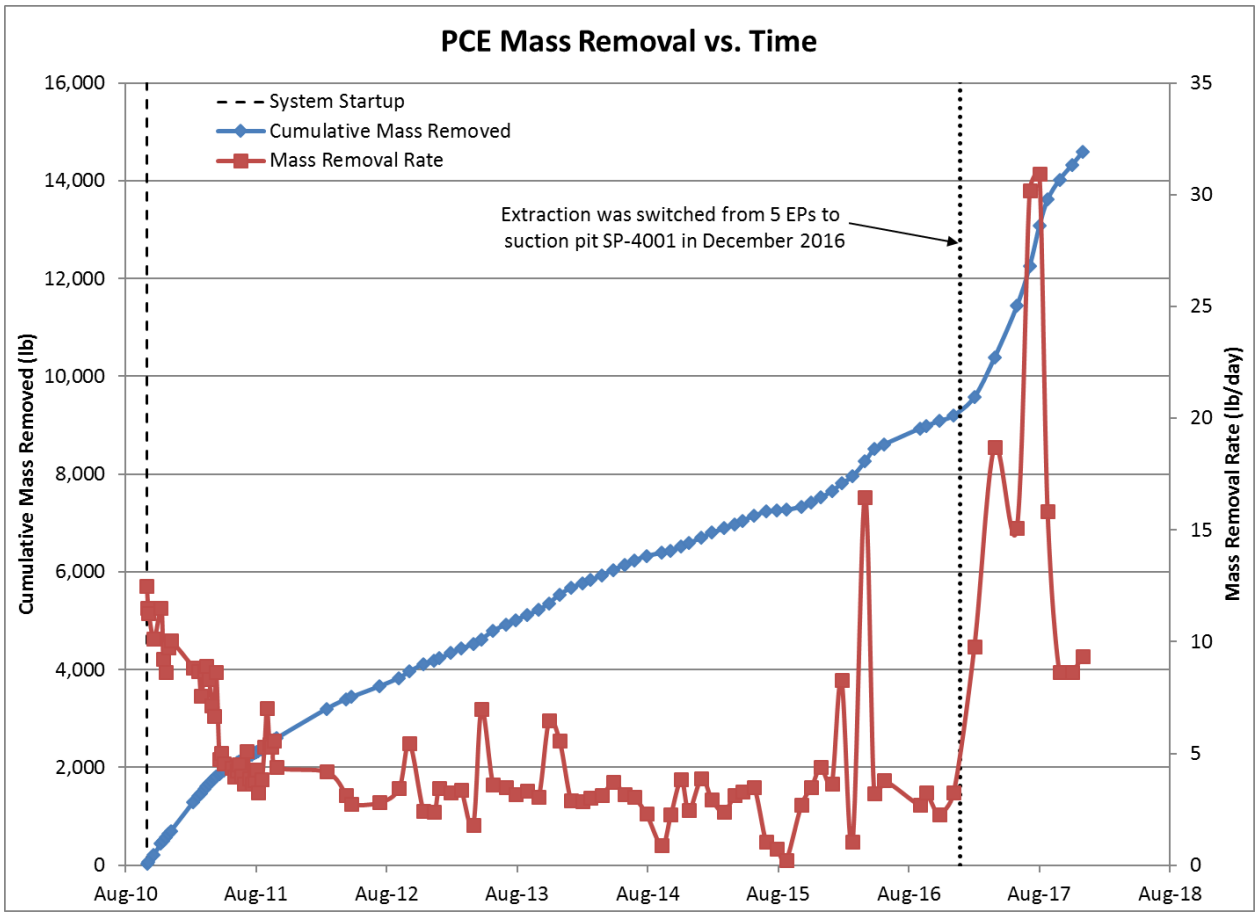


Exhibit 1 – VE1 PCE Mass Removal vs. Time

3.2 B310 SSD System

The B310 SSD system (VE2) was put into operation in February 2012 as documented in a May 2013 report submitted to NYSDEC.[2]

The SSD system is designed for continuous operation. To ensure its ongoing effectiveness, IBM conducts periodic monitoring of operations and performance. Operations monitoring includes periodic review of system components, the results of which are recorded on a system log sheet. Performance monitoring involves sampling of extracted and treated vapor to track VOC mass removal and the need for change-outs of the granular activated carbon (GAC) treatment units. Monitoring of vacuum field conditions (cross-slab differential pressure) was also conducted to verify adequate subslab depressurization.

Our review of the 2017 operations log sheets indicated that the system operated consistently without any significant shutdowns, with the exception of approximately two weeks in July when the vacuum blower was replaced. Cross-slab differential pressure readings within B310 were recorded on December 13, 2017. These readings, along with the applied vacuums

[2] Sanborn, Head Engineering, P.C., *Performance Monitoring and Confirmatory Sampling Results – Building 310 VOC Source Assessment, IBM East Fishkill Facility, Hopewell Junction, NY*, May 2013.

and flows at each of the operating extraction ports, and the approximate extent of subslab depressurization, are shown on Figure 4. Based on our review of the operations log sheets and the cross-slab differential pressure measurements, it is our opinion that the SSD system operated in accordance with its design objectives.

Treatment system process vapor samples were collected monthly and analyzed for VOCs. Approximately 610 pounds of PCE were removed from the subsurface during 2017, bringing the total mass of PCE removed since the February 2012 system startup to approximately 5,500 pounds. A plot of mass removal rate and cumulative mass removed since system start-up is shown on Exhibit 2 below.

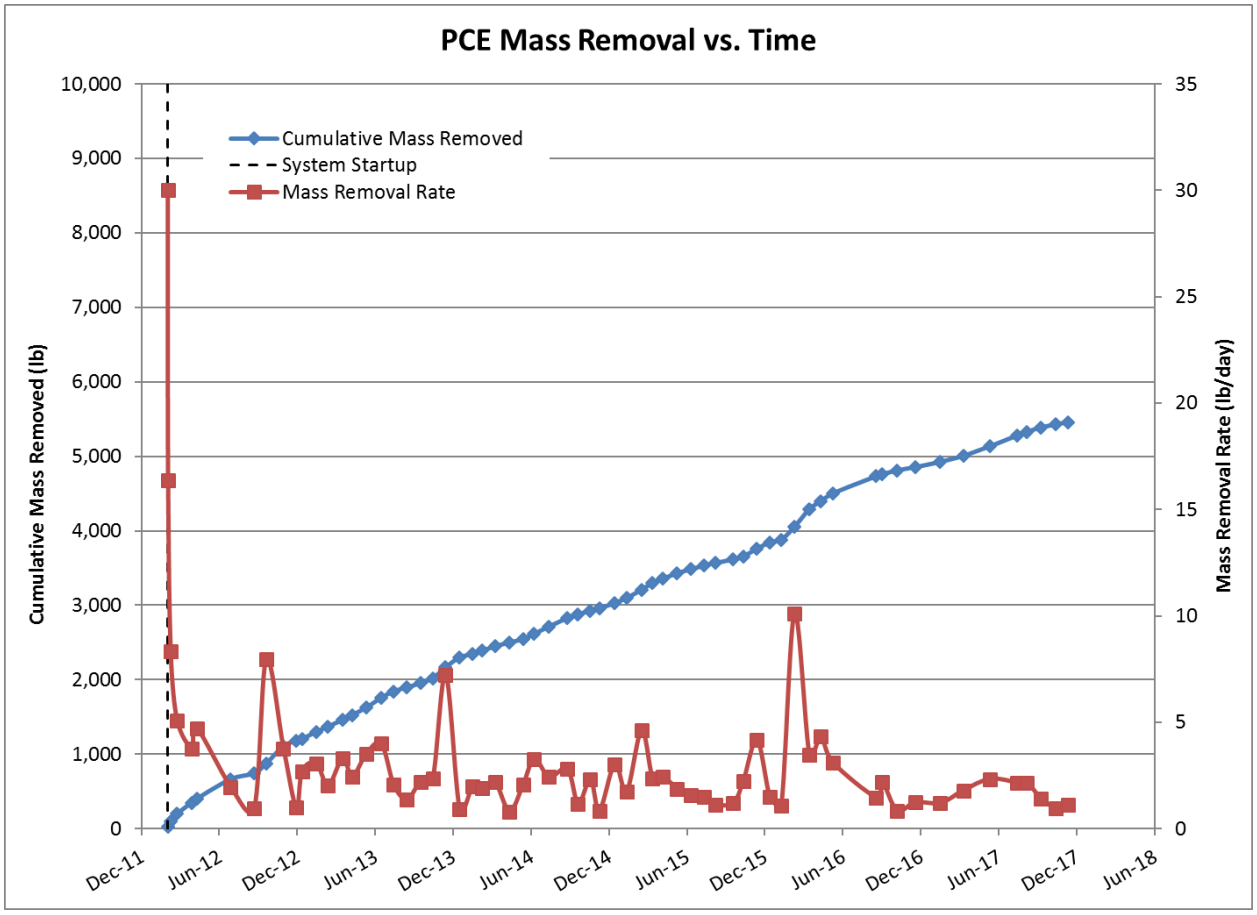


Exhibit 2 – VE2 PCE Mass Removal vs. Time

3.3 B308/B310 Linkway SSD System

In September and October 2015, an SSD system was constructed within the linkway connecting Building 308 and Building 310 (the linkway) as a supplemental VI mitigation measure. The system was put into operation on October 7, 2015, as documented in a February 2016 report[3] submitted to NYSDEC.

[3] Sanborn, Head Engineering, PC, *Subslab Depressurization System Startup Report – Building 308/Building 310 Linkway, Former IBM East Fishkill Facility, Hopewell Junction, NY*, February 2016.

The SSD system consists of three vapor extraction ports each connected to dedicated fans mounted to the north exterior wall of the linkway. Soil vapor collected from each individual extraction port is discharged directly to the atmosphere through an exhaust stack extending above the linkway roofline.

Cross-slab differential pressure readings were recorded in the linkway on December 13, 2017. As shown on Figure 5, the extent of vacuum influence under simultaneous operation of all three blowers indicated sufficient depressurization of the subslab for the length of the linkway in the east-west direction. It is expected that sufficient depressurization of the subslab across the width of the linkway (north-south direction) is also present based on the cross-slab differential pressure response observed along the length of the linkway at distances greater than the width of the linkway.

The system is equipped with an alarm that provides notification if the fans shut down. Fan #3 connected to EP-213 shut down periodically during extremely cold weather; however, the fan would turn back on within approximately 1-2 days after shutting down. Fans #1 and #2 remained in operation throughout the year, and at no time were all three fans shut down simultaneously.

Overall, the linkway SSD system is meeting its design objectives of depressurizing the subslab and preventing VOC vapors from migrating into indoor air. Cross-slab differential pressure measurements will continue to be collected on a yearly basis to assess the continued performance of the system.

3.4 Area A SVE System

An exterior SVE system (VE3) was installed during the second quarter of 2015 to address the presence of VOCs, primarily PCE, in soil vapor located in Remediation Area A, as documented in a February 2016 report to NYSDEC[4]. The SVE system has operated from the spring to fall due to the potential for excessive condensate generation in the exposed aboveground pipe network and freezing in cold weather. In 2017, the system was re-started on June 7 and shutdown for the winter on November 8.

The SVE system consists of six soil vapor extraction wells, and a blower and treatment system that are housed in a shipping container located along the east side of Building 310, within Area A. The extraction wells (SDV-1, 3, 5, 6, 7, 8) are screened in the lower portion of the soil fill at a depth of approximately 7.5 to 10 feet below ground surface (bgs). Only three wells (SDV-5, 6, and 8) operated in 2017 because they best met the objectives of achieving the greatest mass removal compared to other wells while attaining a reasonable extent of vacuum influence.

Subsurface differential pressure readings were recorded throughout Area A during system re-start in June 2017 and prior to winter shutdown in November 2017. Figures 6 and 7 show the resulting extent of subsurface vacuum in November 2017 at depths of 5 ft and 10 ft bgs,

[4] *Sanborn, Head Engineering, PC, Installation and Performance Monitoring Report – Area A Pilot SVE System, Hopewell Junction, NY, Former IBM East Fishkill Facility,* February 2016.

respectively. Also shown on Figures 6 and 7 are the applied vacuum, air flow rate, total VOC concentration measured with a photoionization detector (PID), and PCE concentration at each extraction well based on samples submitted for laboratory analysis.

To estimate the VOC mass removed by the system, process vapor samples were collected from the influent point of the GAC treatment train a total of six times in 2017. Monitoring for VOC breakthrough of the lead and lag GAC units was also conducted. Breakthrough of the GAC vessels was not observed in 2017. During shutdown activities, the GAC vessels were capped and kept within the shipping container to be reused in 2018.

The plot in Exhibit 3 below shows PCE mass removal rates and cumulative mass removal during the 2015 through 2017 operating periods. A total of approximately 33 pounds of PCE were removed from June through November 2017, bringing the total PCE mass removed since the May 2015 system startup to approximately 420 pounds.

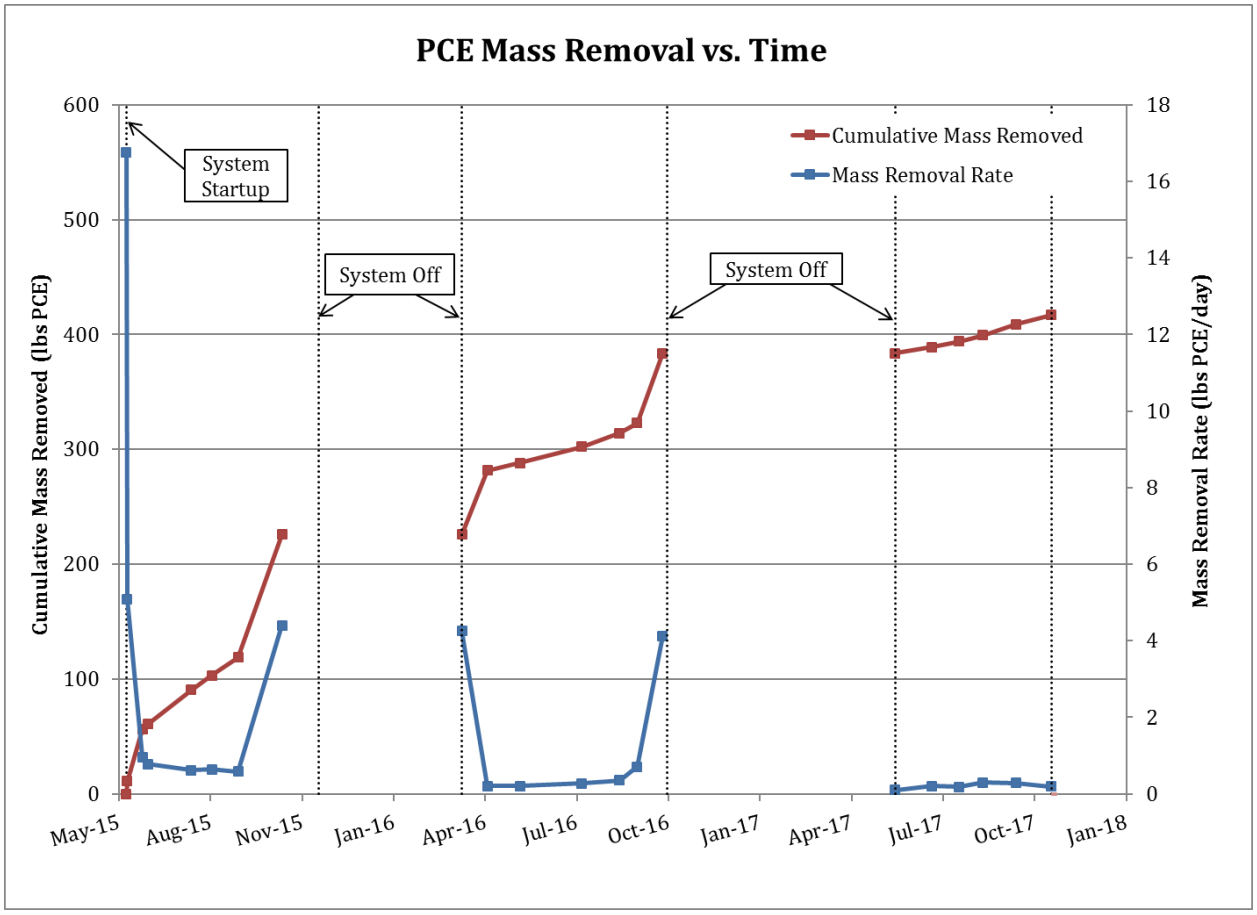


Exhibit 3 – VE3 PCE Mass Removal vs. Time

The system is equipped with an alarm that provides notification if the system shuts down. There were no significant shutdown periods in 2017. Routine short-term (less than a day) shutdowns were associated with managing condensate accumulation in the knockout tank.

Overall, the SVE system met its design objectives of reducing PCE source mass from the unsaturated subsurface. Given the reasonably successful performance of the system in removing mass, the resumption of system operations is planned for 2018. Future operations will be re-evaluated after that time.

3.5 B330C Interim SSD System

The B330C interim SSD system (VE4) was put into operation on March 22, 2016 as documented in a July 2016 report submitted to NYSDEC.[5]

The SSD system is designed for temporary operation until the permanent SSD system is put into operation. To ensure its effectiveness, IBM conducts periodic monitoring of operations and performance. Operations monitoring includes periodic review of system components, the results of which are recorded on a system log sheet. Performance monitoring involves sampling of extracted and treated vapor to track VOC mass removal and the need for change-outs of the GAC treatment units.

Our review of the 2017 operations log sheets indicated that the system operated consistently without any significant shutdowns. Cross-slab differential pressure readings were recorded on December 13, 2017. These readings, along with the applied vacuums and flows at the operating extraction ports, and the approximate extent of subslab depressurization, are shown on Figure 8. Based on our review of the operations log sheets and the differential pressure measurements, it is our opinion that the SSD system operated in accordance with its design objectives.

To estimate the PCE mass removed by the system, process vapor samples were collected approximately every month from the GAC treatment train. The plot in Exhibit 4 below shows PCE mass removal rates and cumulative mass removal since startup. Approximately 110 pounds of PCE was removed in 2017, bringing the total PCE mass removed since the March 2016 system startup to approximately 240 pounds.

[5] Sanborn, Head Engineering, P.C., *Report of Interim Measures and Indoor Air Quality Testing, Building 330C, Former IBM East Fishkill Facility, Hopewell Junction, New York, July 2016.*

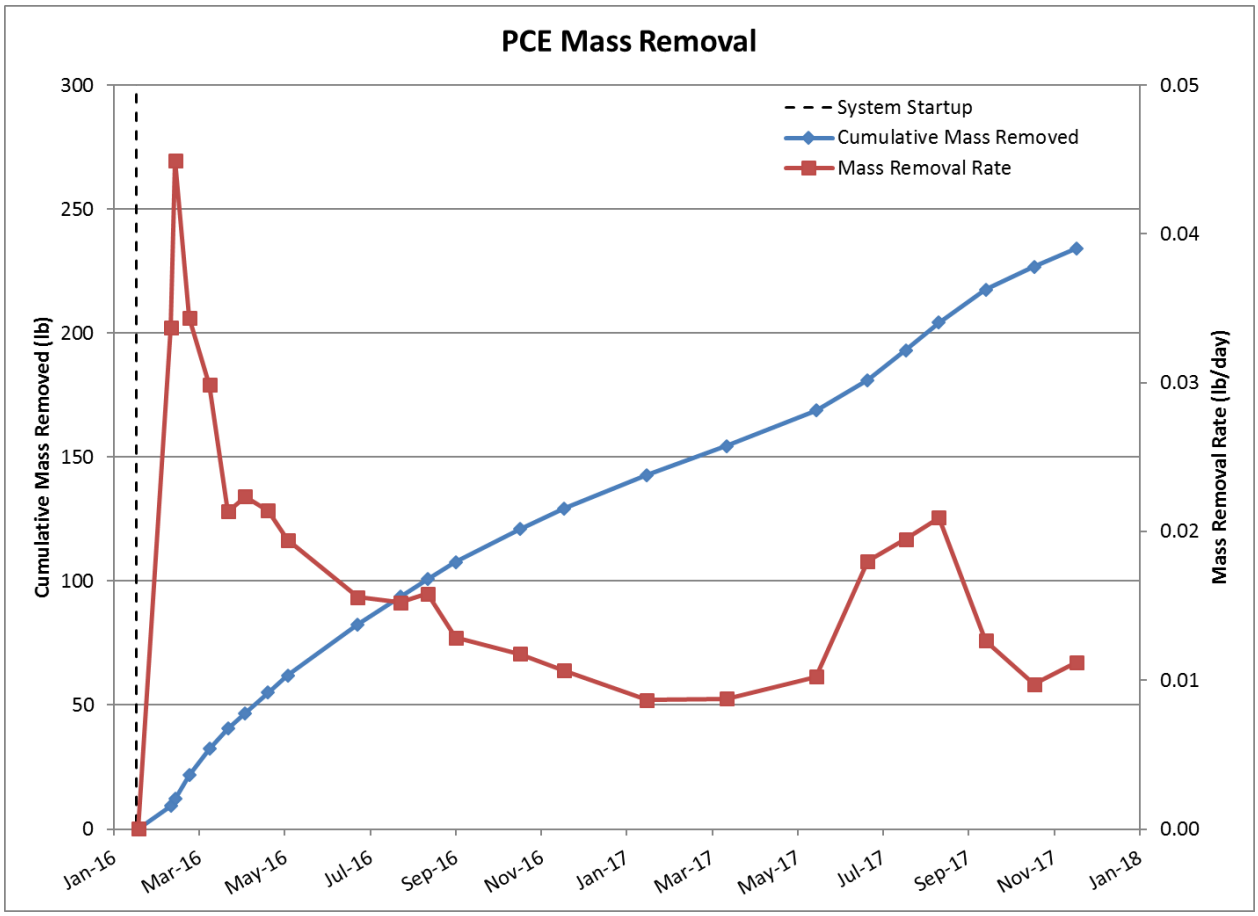


Exhibit 4 – VE4 PCE Mass Removal vs. Time

The system is equipped with an alarm that provides notification if the system shuts down. There were no significant shutdown periods in 2017, as was confirmed by our review of the 2017 operations log sheets.

Based on our review of the operations log sheets and the differential pressure measurements, it is our opinion that the interim SSD system operated in accordance with its design objectives. IBM intends to continue operation of the interim SSD system in its current configuration as a means of reducing VOC vapor entry into the building until a permanent SSD system is constructed. Construction of the permanent SSD system began with exterior site preparation, including installation of a concrete pad and delivery of the two equipment containers, in November 2017. Construction of the interior piping and system start-up is anticipated to occur in 2018, pending the schedule for interior renovations being conducted by NR. Startup and performance monitoring of the system will follow construction and will be documented in a future report submitted to NYSDEC.

3.6 B330D Interim SSD Systems

In August 2015, GF requested to change HVAC operating conditions in B330D due to decreased occupancy. Indoor air screening and sampling was conducted in December 2015 to assess the effects of the requested HVAC adjustments on IAQ. The results of the December

2015 testing were provided to NYSDEC in a March 2016[6] report, which indicated slight increases in PCE levels in certain areas of the building following the HVAC adjustments. Based on these results, IBM elected to perform additional subslab vapor assessment activities throughout B330D in 2016. The results of the 2016 subslab vapor assessment were presented to NYSDEC in a May 2017 report[7].

Based on the findings of the 2016 subslab vapor assessment, IBM elected to install two interim SSD systems targeting the areas of highest PCE concentrations in subslab vapor. These systems were put into operation in February 2017. Detailed presentations of the subslab vapor conditions, SSD system descriptions, and confirmatory indoor air results following their startup are provided in the May 2017 report. A summary of those presentations is provided in the following subsections.

3.6.1 Interim SSD Systems Installation and Startup

The SSD system installed in the western portion of the building (VE5) began extracting subslab vapor on February 15, 2017, while the system installed in the southeastern portion of the building (VE6) began extracting subslab vapor on February 21, 2017. Each system consists of a regenerative-type blower mounted on a portable cart. Vapor is withdrawn from beneath the slab and pulled through a moisture knockout drum and two vapor-phase GAC vessels in series. The treated vapor is then discharged to the atmosphere through an active exhaust fan duct.

Figure 3 shows the applied vacuums and flow rates recorded on December 13, 2017 from each of the extraction ports or suction pits connected to the SSD system, and the resulting inferred extent of subslab vacuum response. The subslab vacuum response shown on Figure 3 includes the influence of the existing 80K SSD system (VE1), which was operating while cross-slab differential pressure readings were recorded. The readings recorded on December 13, 2017 are generally consistent with those collected during startup activities of the two interim systems in February 2017.

The inferred subslab vapor PCE concentration isopleths based on the 2016 subslab investigation are also shown on Figure 3 for reference. The cross-slab differential pressure data shown on Figure 3 indicates substantial depressurization of the areas that encompass the highest PCE concentrations in subslab vapor that are believed to be the primary sources of indoor PCE presence.

3.6.2 IAQ Sampling and Results

IAQ sampling was conducted in B330D in March 2017 following startup of the two interim SSD systems. Indoor air samples were collected at seven locations within occupied areas at the time of sampling. A summary of the results is provided in Table 2, and the PCE and TCE results are shown on Figure 9.

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6 *Report of HVAC Adjustment and Indoor Air Quality Testing – Building 330D, Former IBM East Fishkill Facility, Hopewell Junction, New York*, Sanborn, Head Engineering, P.C., March 2016.

7 *Report of Interim Measures and Indoor Air Quality Testing – Building 330D, Former IBM East Fishkill Facility, Hopewell Junction, New York*, Sanborn, Head Engineering, P.C., May 2017.

For comparison, Figure 9 also shows the historical results for indoor air samples that were collected prior to December 2015 HVAC adjustments made by GF, in addition to the December 2015 sampling results. As shown on Table 2 and Figure 9, PCE concentrations in March 2017 were lower than the previous sampling rounds. These results indicate that the interim SSD systems have been an effective means of reducing vapor entry into the building, and have reduced PCE concentrations in indoor air when compared to historical data.

3.6.3 Operation & Maintenance

To estimate the VOC mass removed by the two interim systems, process vapor samples were collected approximately every month from the GAC treatment trains. The plots in Exhibits 5 and 6 below show total VOC mass removal rates and cumulative mass removals since startup in February 2017. Approximately 389 and 530 pounds of PCE were removed from VE5 and VE6, respectively, from February through December 2017.

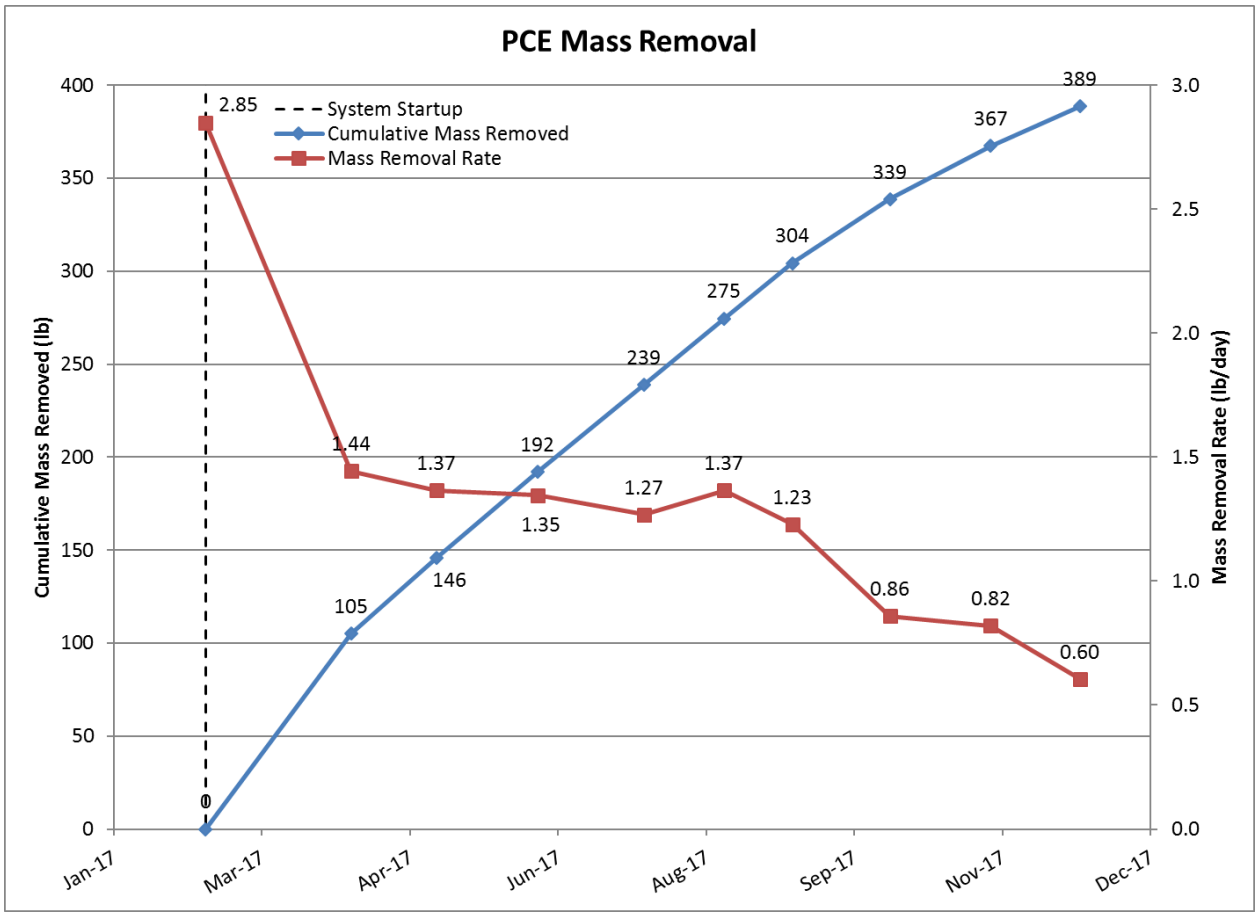


Exhibit 5 – VE5 PCE Mass Removal vs. Time

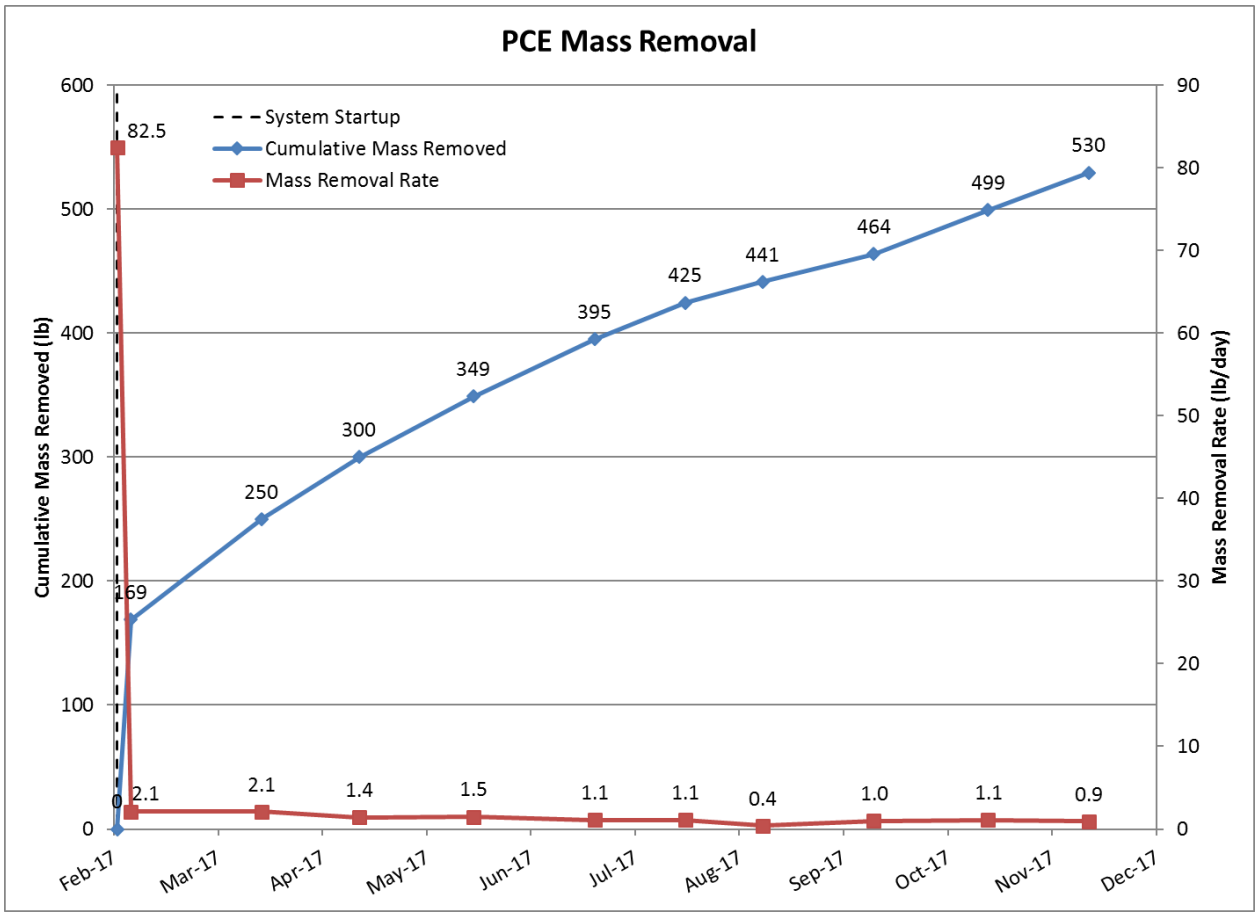


Exhibit 6 – VE6 PCE Mass Removal vs. Time

The systems are equipped with alarms that provide notification if the systems shut down. There were no significant shutdown periods in 2017, as was confirmed by our review of the 2017 operations log sheets.

Based on our review of the operations log sheets, the cross-slab differential pressure measurements, and the results of the confirmatory indoor air sampling, it is our opinion that the interim SSD systems are operating in accordance with their design objectives. IBM intends to continue operation and maintenance of the interim SSD systems in their current configuration as a means of reducing VOC vapor entry into the building until a permanent SSD system is constructed pending further information on NR's plans for building occupancy.

4.0 UPCOMING ACTIVITIES

For buildings that were the focus of the RFI Work Plan, IBM intends to continue to work cooperatively with GF and NR to maintain the HVAC operating conditions necessary for VI mitigation in routinely occupied portions of the buildings. It is GF's and NR's responsibility to communicate planned changes to occupancy or HVAC conditions to IBM, so that IBM can assess whether additional IAQ testing is warranted at that time.

IBM is moving forward with the construction and installation of a permanent SSD system for B330C, which began in November 2017 and is anticipated to be completed in 2018 pending

the completion of building renovations currently being conducted by NR. In addition, IBM is moving forward with the design of a permanent SSD system for B330D, with construction pending further information on NR's plans for building occupancy.

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TABLES

TABLE 1
RFI Work Plan Building Status
Vapor Intrusion Assessment - 2017 Annual Report
Former IBM East Fishkill Facility
Hopewell Junction, New York

Building	Building Current Owner	2017 Activities Completed	Regulatory Status
300	Global Foundries	None	No further assessment - March 13, 2013 Agency letter
308	National Resources (iPark East Fishkill I LLC)	Continued operation of SSD system in linkway between Buildings 308 and 310.	Agencies concur in September 9, 2016 letter that the linkway SSDS is meeting its design objectives.
309	Global Foundries	None	No further assessment - March 13, 2013 Agency letter
310	National Resources (iPark East Fishkill I LLC)	Continued operation of SSD system; Continued operation of exterior SVE system in Area A (June through November 2017).	Pending Agency comments on July 2016 IAQ report
316	Global Foundries	None	No further assessment - March 13, 2013 Agency letter
320B	Global Foundries	None	Agency requests periodic indoor air monitoring - September 10, 2015. Future monitoring pending preparation of a VI Performance Monitoring Plan for the site.
322	Global Foundries	None	Pending Agency comments on January 2016 IAQ report; No further assessment - March 13, 2013 Agency letter (based on unoccupied status)
323/323A	Global Foundries	None	No further assessment - March 13, 2013 Agency letter
330C	National Resources (iPark East Fishkill LLC)	Continued operation of interim SSD system; Initiated construction of permanent SSD system.	Pending Agency comments on February and July 2016 IAQ reports following HVAC adjustments and confirmatory IAQ sampling
330D	National Resources (iPark East Fishkill LLC)	Continued operation of SSD system in former 80K area; Initiated operation of two interim SSD systems; IAQ report submitted to Agencies in May 2017.	Pending Agency comments on March 2016 and May 2017 IAQ reports.
334	National Resources (iPark East Fishkill LLC)	None	No further assessment - March 13, 2013 Agency letter
338	National Resources (iPark East Fishkill LLC)	None	Pending Agency comments on February IAQ 2016 report; No further assessment - March 13, 2013 Agency letter (based on HVAC conditions in-place at the time)
386	Global Foundries	None	No further assessment - March 13, 2013 Agency letter

Abbreviations:
SSD = Subslab depressurization system
SVE = Soil vapor extraction
HVAC = Heating, ventilating, and air conditioning
IAQ = Indoor air quality

Table 2
Summary of 8-Hour Confirmatory Sampling Results
Building 330D
Former IBM East Fishkill Facility
Hopewell Junction, NY

Analyte	Concentrations in µg/m^3																													
	AA						Nitrogen Blank						IA AY-43						IA BB-39						IA BG-38					
	12/17/2015			3/17/2017			12/17/2015			3/17/2017			12/17/2015			3/17/2017			12/17/2015			3/17/2017			12/17/2015			3/17/2017		
	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias
Acetone	30			13	EB	H	27			10	J	L	13			9.1	EB	H	7.2			12	EB	H	7.5			9.2	EB	H
Benzene	0.58			0.54			0.52	U		0.62	UJ	L	0.53	U		0.57			0.52	U		0.54	U		0.54	U		0.51		
Carbon tetrachloride	0.53			0.57			0.52			0.24	UJ	L	0.46			0.52			0.46			0.56			0.46			0.52		
Chlorobenzene (Monochlorobenzene)	0.84	U		0.67	U		0.74	U		0.89	UJ	L	0.76	U		0.75	U		0.74	U		0.77	U		0.78	U		0.72	U	
Dichlorobenzene (1,2-)	1.1	U		0.87	U		0.97	U		1.2	UJ	L	1	U		0.98	U		0.97	U		1.0	U		1	U		0.94	U	
Dichlorobenzene (1,3-)	1.1	U		0.87	U		0.97	U		1.2	UJ	L	1	U		0.98	U		0.97	U		1.0	U		1	U		0.94	U	
Dichlorobenzene (1,4-)	1.1	U		0.87	U		0.97	U		1.2	UJ	L	1	U		0.98	U		0.97	U		1.0	U		1	U		0.94	U	
Dichlorodifluoromethane (CFC12)	2.9			2.6			2.7			0.95	UJ	L	2.4			2.6			2.4			2.6			2.3			2.7		
Dichloroethene (1,1-)	0.72	U		0.57	U		0.64	U		0.76	UJ	L	0.66	U		0.65	U		0.64	U		0.67	U		0.67	U		0.62	U	
Dichloroethene (cis-1,2-)	0.72	U		0.57	U		0.64	U		0.76	UJ	L	0.66	U		0.65	U		0.64	U		0.67	U		0.67	U		0.62	U	
Ethane, 1,1,2-trichloro-1,2,2-trifluoro- (CFC113)	1.4	U		1.1	U		1.2	U		1.5	UJ	L	1.3	U		1.2	U		1.2	U		1.3	U		1.3	U		1.2	U	
Ethylbenzene	0.79	U		0.63	U		0.7	U		0.84	UJ	L	0.72	U		0.95			0.7	U		0.73	U		0.73	U		0.68	U	
Methylene Chloride (Dichloromethane)	1.3			1.0	U		1.1			3.5	J	L	1.2	U		1.1	U		1.5			1.2			1.2	U		1.4	EB	H
Tetrachloroethene (PCE)	1.2	U		0.98	U		1.1	U		1.3	UJ	L	19			1.4			7.9			1.4			11			2.2		
Toluene	0.67	J	I	0.55	U		0.64			3.8	J	L	0.62	J	I	0.76	EB	H	0.61	U		0.63	U		0.64	U		2.2	EB	H
Trichlorobenzene (1,2,4-)	6.8	U		5.4	U		6	U		7.2	UJ	L	6.2	U		6.0	U		6	U		6.2	U		6.3	U		5.8	U	
Trichloroethane (1,1,1-)	0.99	U		0.79	U		0.88	U		1.0	UJ	L	0.9	U		0.89	U		0.88	U		0.92	U		0.92	U		0.85	U	
Trichloroethene (TCE)	0.2	U		0.16	U		0.17	U		0.21	UJ	L	0.22			0.48			0.17	U		0.18	U		0.3			0.17	U	
Trichlorofluoromethane	1.4			1.7			1.5			1.1	UJ	L	2.2			2.4			1.3			1.8			1.5			1.7		
Vinyl chloride	0.046	U		0.037	U		0.041	U		0.049	UJ	L	0.042	U		0.042	U		0.041	U		0.043	U		0.043	U		0.04	U	
Xylene (o-)	0.79	U		0.63	U		0.7	U		0.84	UJ	L	0.72	U		0.71	U		0.7	U		0.73	U		0.73	U		0.68	U	
Xylene-m,p (Sum of Isomers)	0.79	U		0.63	U		0.7	U		1.2	J	L	0.72	U		2.0	EB	H	0.7	U		0.73	U		0.73	U		0.68	U	

Analyte	Concentrations in µg/m^3																													
	IA BH-40						IA4014			IA4016			IA4017						IA4019						IA4019 Duplicate					
	12/17/2015			3/17/2017			12/17/2015			12/17/2015			12/17/2015			3/17/2017			12/17/2015			3/17/2017			12/17/2015			3/17/2017		
	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias	Result	Qualifier	Bias
Acetone	9.2			7.8	EB	H	9.6			17			39			6.1	EB	H	6.2			22	JEB	I	6.1			6.8	JEB	I
Benzene	0.55	U		0.60			0.51	U		0.53	U		0.67			0.53	U		0.52	U		0.60			0.51	U		0.52		
Carbon tetrachloride	0.37			0.44			0.49			0.48			0.48			0.48			0.48			0.55			0.45			0.55		
Chlorobenzene (Monochlorobenzene)	0.79	U		0.76	U		0.74	U		0.76	U		0.72	U		0.76	U		0.74	U		0.63	U		0.74	U		0.73	U	
Dichlorobenzene (1,2-)	1	U		0.99	U		0.97	U		1	U		0.94	U		0.99	U		0.97	U		0.82	U		0.96	U		0.95	U	
Dichlorobenzene (1,3-)	1	U		0.99	U		0.97	U		1	U		0.94	U		0.99	U		0.97	U		0.82	U		0.96	U		0.95	U	
Dichlorobenzene (1,4-)	1	U		0.99	U		0.97	U		1	U		0.94	U		0.99	U		0.97	U		0.82	U		0.96	U		0.95	U	
Dichlorodifluoromethane (CFC12)	2.4			2.7			2.4			2.4			2.4			2.6			2.8			2.6			2.4			2.5		
Dichloroethene (1,1-)	0.68	U		0.65	U		0.64	U		0.66	U		0.62	U		0.65	U		0.64	U		0.54	U		0.63	U		0.63	U	
Dichloroethene (cis-1,2-)	0.68	U		0.65	U		0.64	U		0.66	U		0.62	U		0.65	U		0.64	U		0.54	U		0.63	U		0.63	U	
Ethane, 1,1,2-trichloro-1,2,2-trifluoro- (CFC113)	1.3	U		1.3	U		1.2	U		1.3	U		1.2	U		1.3	U		1.2	U		1.0	U		1.2	U		1.2	U	
Ethylbenzene	0.74	U		0.72	U		0.7	U		0.72	U		0.68	U		0.72	U		0.7	U		0.59	U		0.69	U		0.69	U	
Methylene Chloride (Dichloromethane)	5.4			1.1	U		1.1	U		1.2	U		2.2			1.1	U		1.1	U		2.7	EB	H	1.1	U		1.1	U	
Tetrachloroethene (PCE)	3.5			1.1	U		4.4			13			13			3.5			11			1.6			9.9			1.8		
Toluene	0.64	U		0.60	JEB	I	0.61	U		0.62	U		5.6			0.62	U		0.61	U		5.7	JEB	I	0.6	U		0.74	JEB	I
Trichlorobenzene (1,2,4-)	6.3	U		6.1	U		6	U		6.2	U		5.8	U		6.1	U		6	U		5.0	U		5.9	U		5.9	U	
Trichloroethane (1,1,1-)	0.93	U		0.9	U		0.88	U		0.9	U		0.86	U		0.90	U		0.88	U		0.74	U		0.87	U		0.86	U	
Trichloroethene (TCE)	0.33			0.18	U		0.17	U		0.18			0.19			0.18	U		0.17	UJ	I	0.15	U		1.3			0.17	U	
Trichlorofluoromethane	1.5			1.7			2.4			2.7			2.3			4.2			1.4			1.4			1.4			1.5		
Vinyl chloride	0.044	U		0.042	U		0.041	U		0.042	U		0.04	U		0.042	U		0.041	U		0.035	U		0.041	U		0.04	U	
Xylene (o-)	0.74	U		0.72	U		0.7	U		0.72	U		0.66	J	I	0.72	U		0.7	U		0.59	U		0.69	U		0.69	U	
Xylene-m,p (Sum of Isomers)	0.74	U		0.72	U		0.7	U		0.72	U		2.1			0.72	U		0.7	U		1.1	EB	H	0.69	U		0.69	U	

Notes:

1. Samples were collected by Sanborn, Head Engineering, PC (SHPC) on the dates indicated over an approximately 8-hour sampling period. The samples were analyzed by Eurofins Air Toxics, Inc. (EATI) of Folsom, California for the project-specific list of volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method TO-15 in the full scan and selective ion monitoring (SIM) modes.

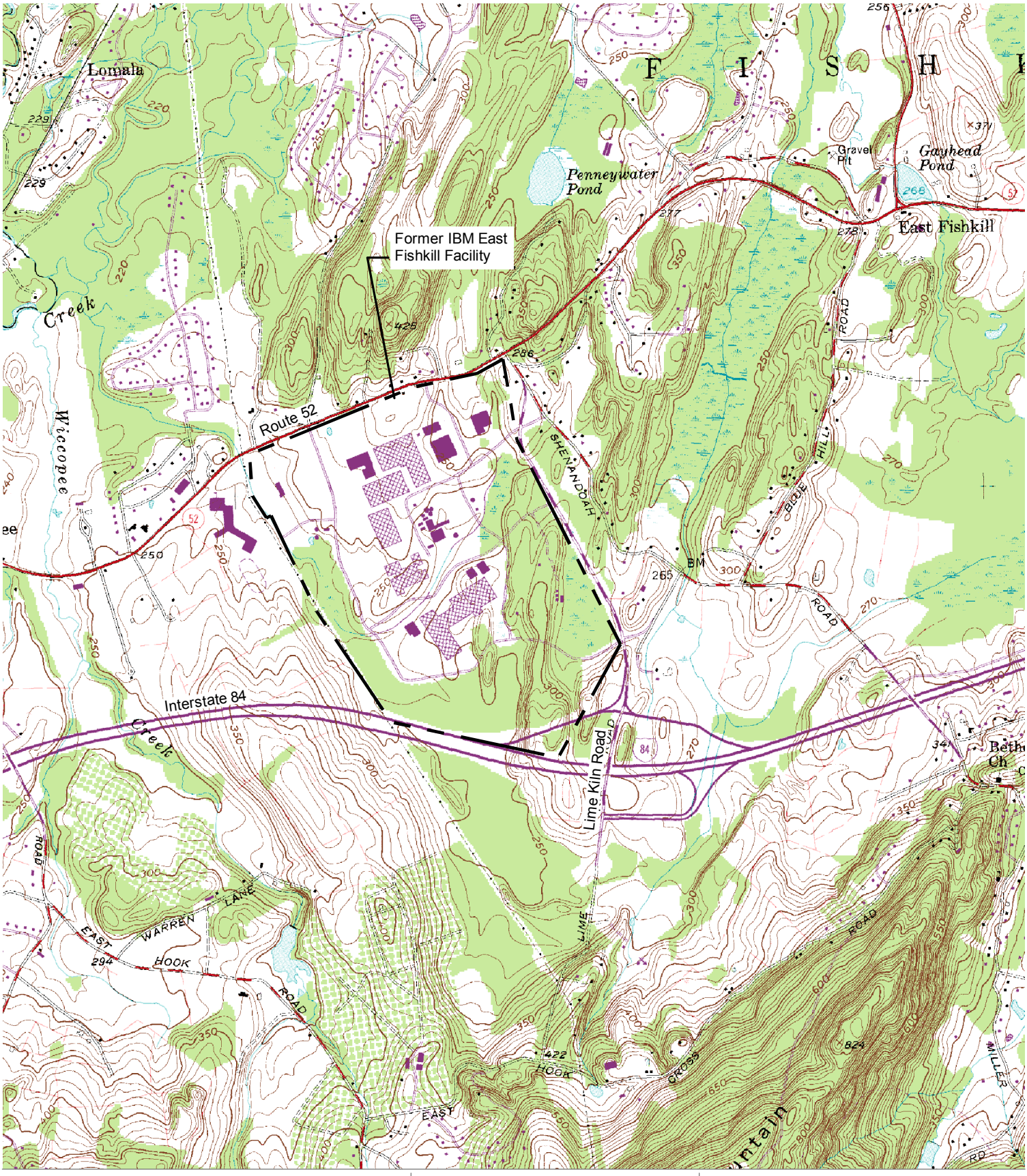
2. An data usability review (DUR) was performed on the data by New Environmental Horizons, Inc. (NEH) . All results were considered acceptable, with the understanding of the potential uncertainty (bias) in the qualified results. In some cases, NEH assigned the following qualifiers and biases to the data. Refer to the DUR report for further details.
"U" indicates the analyte is non-detect at or above the indicated sample specific practical quantification limit (PQL).
"J" indicates the result is an estimated value.
"EB" indicates the analyte was detected in the equipment or field blank.
"UJ" indicates the non-detect is estimated at the indicated PQL.
"H" indicates a high bias.
"I" indicates an indeterminate bias.
"L" indicates field final and lab receipt vacuums disagree. Indicates low bias.

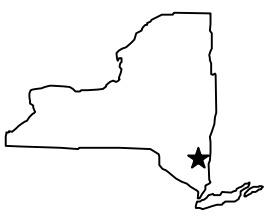
3. The "AA" designation indicates that the sample consists of ambient air collected from outside the building. In 2015, the ambient air and nitrogen blank samples were collected from beneath the outside air intake to air handling unit AC-83. Based on the nitrogen blank results, we believe that a leak was present in the connections between the nitrogen canister and the Summa® canister into which the nitrogen was being transferred. The data from the nitrogen blank were not used in the data usability assessment due to the uncertainty of the results.

4. Results were rounded to two significant figures.

FIGURES

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N
W E
S

Notes:
Base map taken from 7.5 minute USGS Quadrangle Maps: Hopewell Junction, New York, Dated 1957, Photorevised in 1981.

Drawn By: E. Wright
Designed By: J. Corsello
Reviewed By: J. Sanborn/ D. Shea
Project No: 2999.06
Date: May 2018

1,000' 0 2,000' Feet

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Figure 1

Site Location Plan

Vapor Intrusion Assessment
2017 Annual Report

Former IBM East Fishkill Facility
Hopewell Junction, New York

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Figure 2

Building Location Plan

Vapor Intrusion Assessment
2017 Annual Report

Former IBM East Fishkill Facility
Hopewell Junction, New York

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Designed By: J. Corsello
Reviewed By: J. Sanborn / D. Shea
Project No: 2999.06
Date: May 2018

Figure Narrative

This figure shows the buildings at the former IBM East Fishkill facility.

Legend

— - - - — Property Line

Unlabeled features include wastewater treatment tanks, pump houses, trailers, and other structures and features not intended for human occupancy

B320B Indicates building number

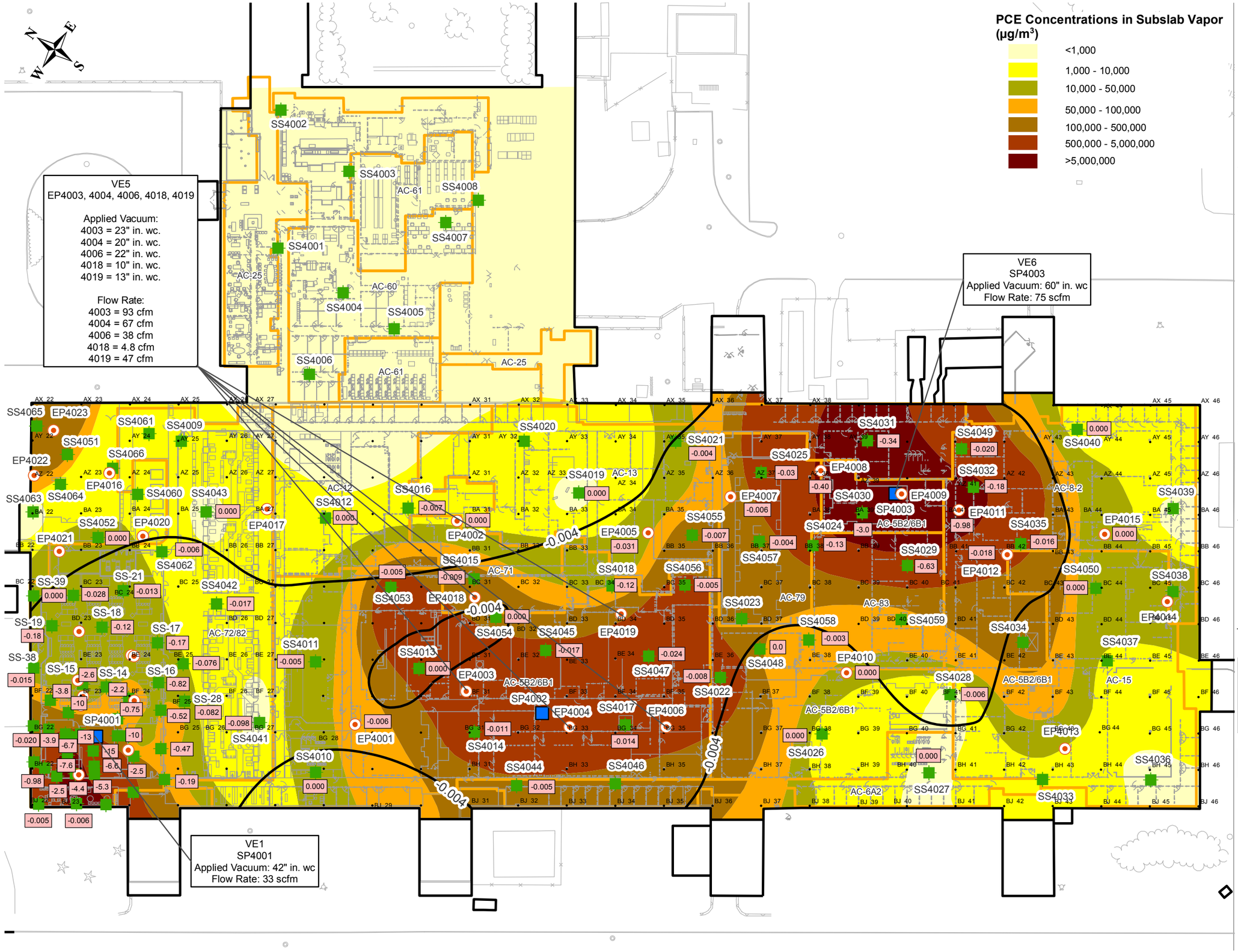
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Figure 3

Extent of Subslab Depressurization

Building 330D
Vapor Intrusion Assessment
2017 Annual Report

Former IBM East Fishkill Facility
Hopewell Junction, New York

Drawn By:	E. Wright
Designed By:	J. Flood
Reviewed By:	J. Sanborn
Project No:	2999.06
Date:	May 2018

Figure Narrative

This figure shows measurements of differential pressure between indoor air and subslab vapor in units of inches of water column (in.wc) and the measurements recorded at each extraction port on December 13, 2017. Negative values indicate subslab pressures less than indoor air pressure, or under vacuum, at the time of recording.

The differential pressure contours overlay the inferred subslab vapor tetrachloroethene (PCE) concentration isopleths. Subslab vapor samples were collected in 2016.

The -0.004 in wc contour represents the inferred apparent extent of subslab vacuum response with VE1, VE5, and VE6 operating together. Actual vacuum conditions include components of vertical flow and are likely more complex than shown. Other interpretations are possible.

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Figure 4

Extent of Subslab Depressurization

Building 310
Vapor Intrusion Assessment
2017 Annual Report

Former IBM East Fishkill Facility
Hopewell Junction, New York

Drawn By:	E. Wright
Designed By:	J. Flood
Reviewed By:	J. Sanborn / D. Shea
Project No:	2999.06
Date:	May 2018

Figure Narrative

This figure shows measurements of differential pressure between indoor air and subslab vapor in units of inches of water column (in. wc) and the measurements recorded at each extraction port on December 13, 2017. Negative values indicate subslab pressures less than indoor air pressure, or under vacuum, at the time of recording.

The -0.004 in wc contour represents the inferred apparent extent of subslab vacuum response. Actual vacuum conditions include components of vertical flow and are likely more complex than shown. Other interpretations are possible.

Legend

Subslab Vapor Extraction Port

Subslab Vapor Monitoring Port

-0.004 — Differential pressure contour (inches of water column). Dashed where inferred.

EP-210
in. wc
scfm

Extraction Port
Applied Vacuum (extraction port) inches of water column (in. wc)
Flow Rate (std. cu. ft. per min.)

-0.005 — Observed pressure differential between the subslab and room (in. wc). Negative values indicate subslab pressure is less than indoor air pressure.

20 10 0 20 40
Feet

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Figure 5

Extent of Subslab Depressurization

B310/B308 Linkway

Vapor Intrusion Assessment
2017 Annual Report
Former IBM East Fishkill Facility
Hopewell Junction, New York

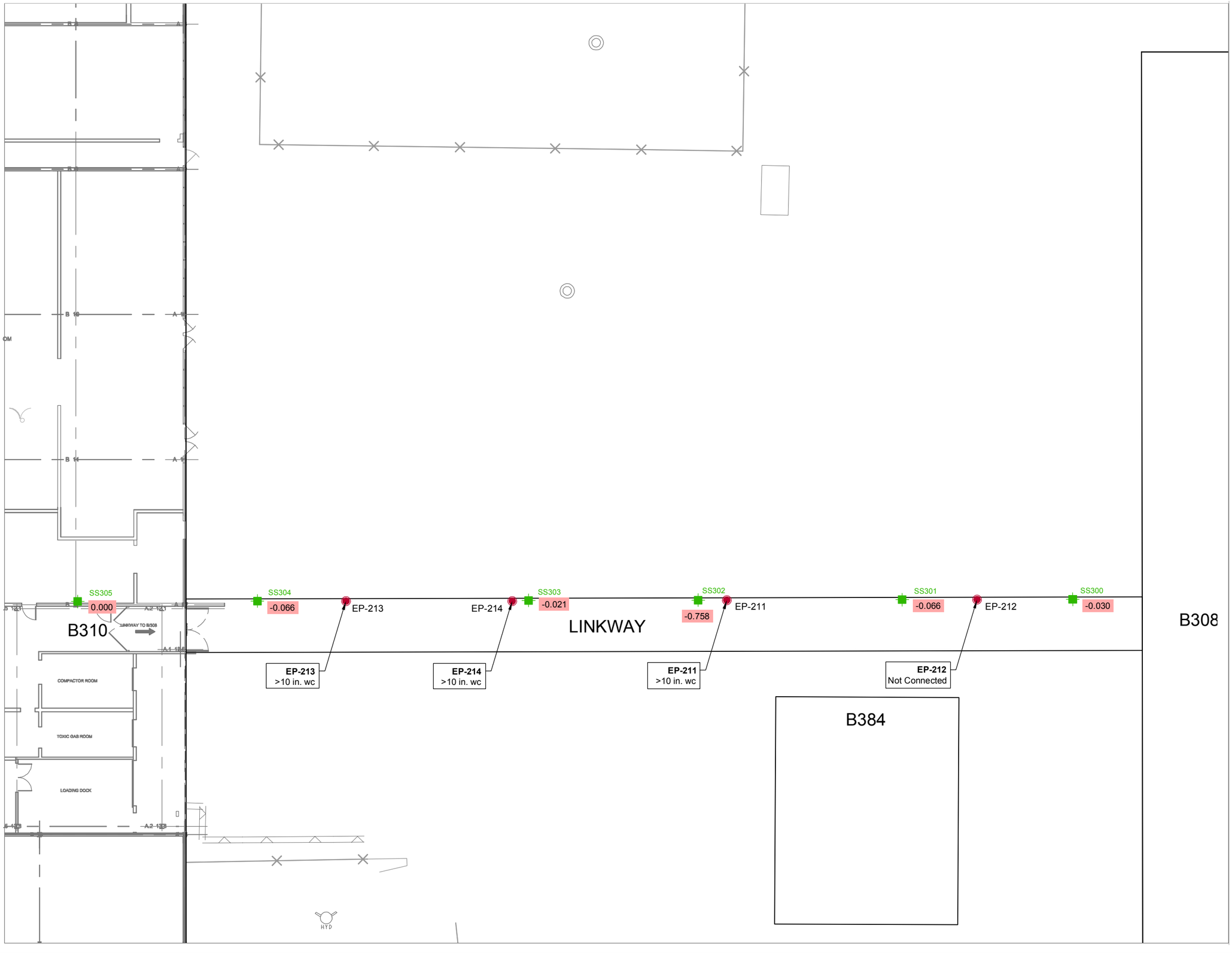
Drawn By: E. Wright
Designed By: J. Flood
Reviewed By: J. Sanborn
Project No: 2999.06
Date: May 2018

Figure Narrative

This figure shows the applied vacuum to the extraction ports and observed subslab pressure response for the three fans operating simultaneously on December 13, 2017.

Note

Magnehelic gauges on extraction ports have a range of 0 to 10 inches water column (in. wc.). >10 in. wc. indicates that the vacuum was observed to be greater than the range of the instrument.



Legend

- SS300 — Subslab vapor monitoring port
- EP-211 — Subslab vapor extraction port
- -0.066 — Observed pressure differential between the subslab and room (in. wc). Negative values indicate subslab pressure is less than indoor air pressure.
- **EP-214** / in. wc — Extraction port Applied vacuum

N

10' 5' 0 10' 20' Feet

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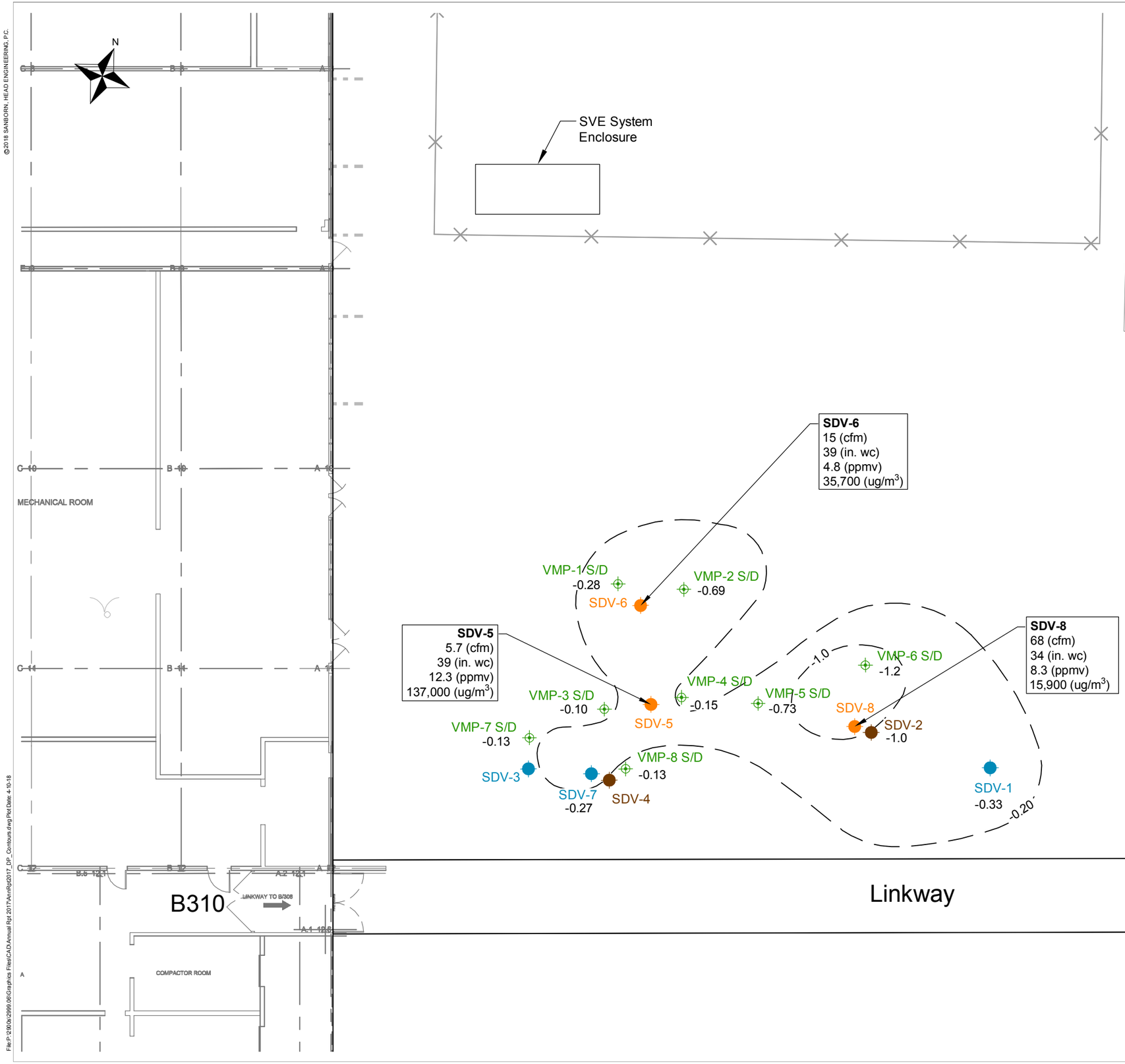


Figure 6

Extent of Subsurface Depressurization 5 Ft Depth Area A SVE System

Vapor Intrusion Assessment
2017 Annual Report

Former IBM East Fishkill Facility
Hopewell Junction, New York

Drawn By: E. Wright
Designed By: J. Corsello
Reviewed By: J. Sanborn / D. Shea
Project No: 2999.06
Date: May 2018

Figure Narrative

This figure shows measurements of differential pressure between ambient air and subsurface soil vapor in units of inches of water column (in. wc), and the measurements recorded at each extraction well. Measurements were collected from a depth of 5 feet during system shutdown on November 8, 2017. Negative values indicate subsurface pressures less than ambient air pressure, or under vacuum, at the time of recording.

The contours represent the inferred apparent vacuum conditions observed on November 8, 2017. Actual vacuum conditions include components of vertical flow and are likely more complex than shown. Other interpretations are possible.

Legend

- SDV-2 — Small diameter vapor well (2-in.) not connected to the pilot SVE system
- SDV-5 — Small diameter vapor well connected to the pilot SVE system currently in operation (screened 7.5 to 10 ft bgs)
- SDV-3 — Small diameter vapor well connected to the pilot SVE system currently not in operation (screened 7.5 to 10 ft bgs)
- VMP-1 S/D — Multi-level vapor monitoring point (S = 5 ft bgs, D = 10 ft bgs)
- -0.26 — Differential pressure measurement (in. wc)
- **SDV-5** / 5.7 (cfm) / 39 (in. wc) / 12.3 (ppmv) / 137,000 (ug/m3) — Extraction port; Flow rate (cu. ft. per min.); Vacuum (extraction port); Total VOC concentration measured with PID; PCE concentration (SUMMA can grab sample)
- -1.0 — Differential pressure contour (inches of water column). Dashed where inferred.

Feet
8' 4' 0 8' 16'

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Figure 7

Extent of Subsurface Depressurization 10 Ft Depth Area A SVE System

Vapor Intrusion Assessment
2017 Annual Report

Former IBM East Fishkill Facility
Hopewell Junction, New York

Drawn By: E. Wright
Designed By: J. Corsello
Reviewed By: J. Sanborn / D. Shea
Project No: 2999.06
Date: May 2018

Figure Narrative

This figure shows measurements of differential pressure between ambient air and subsurface soil vapor in units of inches of water column (in. wc), and the measurements recorded at each extraction well. Measurements were collected from a depth of 10 feet during system shutdown on November 8, 2017. Negative values indicate subsurface pressures less than ambient air pressure, or under vacuum, at the time of recording.

The contours represent the inferred apparent vacuum conditions observed on November 8, 2017. Actual vacuum conditions include components of vertical flow and are likely more complex than shown. Other interpretations are possible.

Legend

- SDV-2 — Small diameter vapor well (2-in.) not connected to the pilot SVE system
- SDV-5 — Small diameter vapor well connected to the pilot SVE system currently in operation (screened 7.5 to 10 ft bgs)
- SDV-3 — Small diameter vapor well connected to the pilot SVE system currently not in operation (screened 7.5 to 10 ft bgs)
- VMP-1 S/D — Multi-level vapor monitoring point (S = 5 ft bgs, D = 10 ft bgs)
- -0.48 — Differential pressure measurement (in. wc)
- **SDV-5** / 5.7 (cfm) / 39 (in. wc) / 12.3 (ppmv) / 137,000 (ug/m^3) — Extraction port; Flow rate (cu. ft. per min.); Vacuum (extraction port); Total VOC concentration measured with PID; PCE concentration (SUMMA can grab sample)
- -1.0 — Differential pressure contour (inches of water column). Dashed where inferred.

Feet
8' 4' 0 8' 16'

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Figure 8

Extent of Subslab Depressurization

Building 330C
Vapor Intrusion Assessment
2017 Annual Report

Former IBM East Fishkill Facility
Hopewell Junction, New York

Drawn By:	E. Wright
Designed By:	J. Flood
Reviewed By:	J. Sanborn
Project No:	2999.06
Date:	May 2018

Figure Narrative

This figure shows measurements of differential pressure between indoor air and subslab vapor in units of inches of water column (in. wc), and the measurements recorded at each extraction point on December 13, 2017. Negative values indicate subslab pressures less than indoor air pressure, or under vacuum, at the time of recording.

The -0.004 in wc contour represents the inferred apparent extent of subslab vacuum response. Actual vacuum conditions include components of vertical flow and are likely more complex than shown. Other interpretations are possible.

Legend

- Subslab Vapor Monitoring Port
- Subslab Vapor Extraction Port
- Subslab Vapor Suction Pit
- -0.004 — Differential pressure contour (inches of water column). Dashed where inferred.
- **EP3012/3015** — Extraction Port
  - in. wc — Applied Vacuum (extraction port) inches of water column (in. wc)
  - scfm — Flow Rate (std. cu. ft. per min.)
- -0.005 — Observed pressure differential between the subslab and room (in. wc). Negative values indicate subslab pressure is less than indoor air pressure.

Feet
40 20 0 40 80

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Figure 9

Summary of 8-Hour Confirmatory Sampling Results (PCE and TCE)

Building 330D
Vapor Intrusion Assessment
2017 Annual Report
Former IBM East Fishkill Facility
Hopewell Junction, New York

Drawn By:	E. Wright
Designed By:	J. Corsello
Reviewed By:	J. Sanborn / D. Shea
Project No:	2999.06
Date:	May 2018

Figure Narrative

This figure shows tetrachloroethene (PCE) and trichloroethene (TCE) results for indoor air sampling of occupied portions of the first floor of B330D in December 2015 (pre-startup of VE5 and VE6) and March 2017 (post-startup of VE5 and VE6). The results of the last historical sampling event are also shown for comparison at each location where subsequent samples were collected. "NS" indicates that the location has not been sampled previously. All samples were collected as 8-hour time-weighted-average samples using 6-L SUMMA canisters. Results are shown in micrograms per cubic meter (µg/m ^{3}). Refer to Table 2 of this report for further details on the HVAC operating conditions in B330D.

Legend

- Indoor Air Location
- Ambient Air Location
- AC-83 — HVAC Zone and Designation
- IA AY-43 / 4.7 / <0.17 / 19 / 0.22 / 1.4 / 0.48 — Control Point Name; PCE/TCE (Historical Confirmatory Sample-Date Varies); PCE/TCE (December 17, 2015 Confirmatory Sample); PCE/TCE (March 17, 2017 Confirmatory Sample)
- NS — Not Sampled
- HVAC Zones Off During Testing
- Routinely Occupied Area

Feet
30 15 0 30 60

SANBORN HEAD ENGINEERING

APPENDIX A

LIMITATIONS

APPENDIX A
SHPC LIMITATIONS

1. The findings and conclusions described in this report are based in part on the data obtained from a finite number of samples from widely spaced locations. The figures are intended to depict inferred conditions during a given period of time, consistent with available information. The actual conditions will vary from that shown, both spatially and temporally. Other interpretations are possible. The nature and extent of variations between sampling locations may not become evident until further investigation is initiated. If variations or other latent conditions then appear evident, it may be necessary to re-evaluate the conclusions of this report.

2. Quantitative laboratory testing was performed by others as part of the investigation as noted within the report. Where such analyses have been conducted by an outside laboratory, unless otherwise stated in the report, SHPC has relied upon the data provided, and has not conducted an independent evaluation of the reliability of these data. It must be noted that additional compounds not searched for during the current study may be present in vapor and indoor air at the site. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their distribution within the vapor and indoor air may occur due to the passage of time, seasonal water table fluctuations, recharge events, and other factors.

3. This report has been prepared for the exclusive use of the IBM Corporation for specific application to the former IBM East Fishkill facility in accordance with generally accepted hydrogeologic and engineering practices. No warranty, expressed or implied, is made. The contents of this report should not be relied on by any other party without the express written consent of SHPC.

4. In preparing this report, SHPC has endeavored to conform to generally accepted practices of other consultants undertaking similar studies at the same time and in the same geographical area. SHPC has attempted to observe a degree of care and skill generally exercised by the technical community under similar circumstances and conditions.

APPENDIX B

HVAC CONDITIONS

Table B.1
Original and Adjusted AHU Settings
Building B310
Former IBM East Fishkill Facility
Hopewell Junction, New York

AC Unit	Area Served	Original HVAC Settings Prior to Adjustments (Note 2)						Adjusted HVAC Settings (Notes 3 and 4)						
		Operating Schedule	Outside Air (OA) Flow Rate	Return Air (RA) Flow Rate	Total Supply Air Flow Rate	OA Economizer	OA Damper Position	Future Occupancy	Operating Schedule	OA Flow Rate	RA Flow Rate	Total Supply Air Flow Rate	OA Economizer	OA Damper Position
HVAC-1	Model Shop	24/7	4,522	28,502	33,024	No	10% open	6	24/7	4,522	28,502	33,024	No	10% open
AC-4	Vacant Space	Unknown	7,242	30,390	37,632	Unknown	10% open	0	Off					
AC-7	Labs/Offices/Corridor/Vacant Space	24/7	522	12,074	12,596	No	5% open	4	24/7	5,580	7,086	12,666	No	100% open
AC-11	Archives/Vacant Space	24/7	3,925	18,545	22,470	No	20% open	1	24/7	1,708	19,328	21,036	No	25% open
AC-13	Vacant Labs/Corridor/ Archives/Vacant Offices	24/7	10,790	3,025	13,815	No	80% open	Hallway passerby	24/7	1,285	12,096	13,381	No	0% open
AC-15	Vacant Space/corridors	Off						0	Off					
AC-21	Model Shop/Corridor	24/7	4,259	12,661	16,920	No	20% open	Occ	24/7	8,975	NM	NM	No	40% open (Note 11)
AC-23	Vacant Space	NA	8,740	29,245	37,985	NA	20% open	0	Off					
AC-24	Vacant Labs/Corridor	Off						0	Off					
AC-25	Archives (currently served by AC-34)	Off						0	Off					
AC-26	Fab Shop/Vacant Space	NA	4,433	7,259	11,692	NA	20% open	0	Off					
AC-27	Vacant Space	NA	0	7,872	7,872	NA	0% open	0	Off					
AC-29	Vacant Space\Decom Labs	NA	503	13,178	13,681	NA	0% open	0	Off					
AC-30	Unoccupied Lab with Equipment/Vacant Space/Corridor	NA	12,592	10,832	23,424	NA	NA	0	Off					
AC-31	Vacant Space	Off							Off					
AC-32	FLUOR Shop/Storage Area	NA	16,098	0	16,098	NA	100% open	0	Off					
AC-33	Archives (currently served by AC-34)	Off						0	Off					
AC-34	Offices/Vacant Labs/Corridor/Archive	24/7	1,895	33,332	35,227	No	10% open	3	24/7	11,267	22,257	33,524	No	45% open
AC-35	Vacant Labs/corridor	Off						0	Off					
AC-36	Vacant Labs/corridor	Off						0	Off					
AC-37	Vacant Labs/corridor	Off						0	Off					
AC-38	Vacant Space	Off						0	Off					
AC-39	Loading Dock/Facilities Mechanical Room	Off						0	Off					
AC-40	Vacant Space	Off						0	Off					

Notes
1. The information in this table was provided to IBM and Sanborn, Head Engineering, PC (SHPC) by Global Foundries (GF). Flow rates are based on reports prepared by GF's contractor, US Test.
2. Original flow rates and damper positions are based on a US Test report dated 12/30/2014.
3. Adjusted flow rates and damper positions for AC-7, AC-11, AC-13, and AC-34 are based on a US Test report dated 10/30/2015.
4. Adjusted OA flow rate for AC-21 is based on an email from US Test dated April 22, 2016.
5. Operating schedules, economizer information, and certain OA damper positions were provided verbally or via email to SHPC by GF.
6. Flow rates are provided in cubic feet per minute (cfm).
7. "Occ" = occupied; specific number of occupants not provided by GF.
8. Shaded rows indicate the HVAC zones for which the adjusted HVAC settings are different than the original HVAC settings based on GF's requested changes.
9. NA indicates that the information is not available.
10. NM indicates that this parameter was not measured by US Test.
11. The adjusted OA damper position was visually estimated by Fluor staff.

Table B.2
Original and Adjusted AHU Settings
Building 330C
Former IBM East Fishkill Facility
Hopewell Junction, NY

AC Unit	Services	Original HVAC Settings Prior to 2015/2016 Adjustments (Notes 2 and 3)						Adjusted HVAC Settings During Apr 2016 Testing (Note 4)						
		Operating Schedule	Outside Air (OA) Flow Rate	Return Air (RA) Flow Rate	Total Supply Air Flow Rate	OA Economizer	OA Damper Position	Current Occupancy	Operating Schedule	OA Flow Rate	RA Flow Rate	Total Supply Air Flow Rate	OA Economizer	OA Damper Position
AC-1	Offices/Corridors	M-F 6am-7pm	27,104	4,576	31,680	No	80% open	11	M-F 6am-7pm	5,460	26,297	31,757	No	5% open
AC-4	South Shop/labs	24/7	18,725	20,275	39,000	Yes	40% open (min)	2	24/7	4,409	34,102	38,511	Yes	10% open (min)
AC-5	Handled by AC-6	Off						0	Off					
AC-6	Corridors/laser lab/NEXX Tool Lab	24/7	16,250	0	16,250	No	50% open	Occ	24/7	16,250	0	16,250	No	50% open
AC-7(A)	NEXX Tool Lab	24/7	18,430	19,491	37,921	No	20% open	Occ	24/7	9,438	16,973	26,411	No	10% open
AB-7(B)	Unoccupied	NA (new zone) - split off from AC-7(A) during initial adjustments (Note 9)						0	Off					
AC-9	"Laser" Labs/corridors/offices	24/7	12,118	10,562	22,680	No	50% open	0	Off					
AC-10	Former truck dock	Off						0	Off					
AC-10(A)	Hydrogen tanks room	24/7	0	8,374	8,374	No	0% open	0	24/7	0	8,374	8,374	No	0% open
AC-11	Occupied Lab	24/7	1,793	42,335	44,128	No	Fed from AC-13	Occ	24/7	1,793	42,335	44,128	No	Fed from AC-13
AC-13	Emagin Clean Room	24/7	27,491	2,965	30,456	No	75% open	55	24/7	27,491	2,965	30,456	No	75% open
HVAC-15	Former tank room	24/7	0	8,900	8,900	No	0% open	0	24/7	0	8,900	8,900	No	0% open
AC-26	Unoccupied Labs/emagin	24/7	5,110	39,634	44,744	No	10% open	0	Off					
AC-40	Unoccupied Lab	Off						0	Off					
AC-41	Occupied Lab	24/7	1,152	12,720	13,872	No	10% open	1	24/7	1,152	12,720	13,872	No	10% open
AC-42/ RCU-111	Breakroom/lab	24/7	36,960	0	36,960	No	100% open	2	24/7	26,048	0	26,048	No	100% open
AC-50	Baseline	Off						0	Off					
AC-51	Unoccupied Lab	24/7	2,752	0	2,752	No	100% open	0	Off					
AC-54	Unoccupied labs/storage	Off						0	Off					
AC-55	Unoccupied labs/storage	Off						0	Off					
AC-56	Demo'd space	24/7	850	21,070	21,920	No	10% open	0	Off					
AC-57	Demo'd space	Off						0	Off					
AC-58	Reliability Lab	24/7	14,038	7,170	21,208	No	100% open	7	24/7	14,284	14,136	28,420	No	80% open
AC-90	Unoccupied Labs/emagin	24/7	16,285	4,739	21,024	Yes	20% open (min) 50% open (meas)	5	24/7	3,026	28,294	31,320	Yes	5% open (min)
AC-91	Unoccupied Labs/emagin	24/7	21,578	0	21,578	Yes	20% open (min) 100% open (meas)	5	24/7	3,560	14,746	18,306	Yes	20% open (min)
AC-93	Unoccupied labs/small emagin office	24/7	1,115	8,997	10,112	No	100% open	5	24/7	2,389	5,665	8,054	No	100% open
AC-99	Demo'd space	24/7	4,734	0	4,734	No	100% open	0	Off					
AC-100	Demo'd space	24/7	4,032	0	4,032	No	100% open	0	Off					
AC-101	Unoccupied Lab	Off						0	Off					
AC-102	Unoccupied Lab	24/7	11,560	15,550	27,110	No	25% open	0	Off					
AC-103	Unoccupied Lab	24/7	168	2,290	2,458	No	0% open	0	Off					
AC-104	Unoccupied Lab	Off						0	Off					

Notes
1. The information in this table was provided to IBM and Sanborn, Head Engineering, PC (SHPC) by Global Foundries (GF). Flow rates are based on reports prepared by GF's contractor, US Test.
2. With the exception of AC-11, original HVAC flow rates are based on an Excel file titled, "AC Shutdown - Master ListR1.xls" that GF sent to IBM and SHPC on August 14, 2015.
3. Original HVAC flow rates for AC-11 were provided in a US Test report dated 9/25/15.
4. The flow rates and OA damper positions for the adjusted HVAC settings are based on US Test Reports dated 11/18/2015 and 4/8/2016.
5. Operating schedules, economizer information, and certain OA damper positions were provided verbally or via email to SHPC by GF.
6. Flow rates are provided in cubic feet per minute (cfm).
7. "Occ" = occupied; specific number of occupants not provided by GF.
8. Shaded rows indicate the HVAC zones for which the adjusted HVAC settings are different than the original HVAC settings based on GF's requested changes.
9. AC-7 was split into two new zones (AC-7(A) and AC-7(B)) prior to November 2015 testing. AC-7(B) was blanked off so that no supply air feeds that area.
10. The original OA damper position for AC-7A was provided in a US Test report dated 7/16/2015.
11. A portion of AC-9 (laser lab) was reconfigured to become part of AC-6 prior to November 2015 testing.

TABLE B.3
Current AHU Settings
Building 322
Former IBM East Fishkill Facility
Hopewell Junction, NY

Air Handling Unit (AHU) ID	Current Settings			
	Occupancy	Operating Schedule	Outside Air (OA) Damper Position	OA Flow Rate (cfm)
AC-4	Unoccupied	On	80% Open	3,693
AC-6	Unoccupied	On	10% Open	13,390
AC-8	Occupied	On	20% Open	7,746
AC-9	Unoccupied	On	90% Open	2,214

Notes:

1. Current OA damper positions and flow rates are based on measurements conducted by US Test in June 2015. Measurements were included in a spreadsheet titled "HVAC Management for VI Mitigation R7 - 7-16-15" provided to Sanborn, Head Engineering, PC (SHPC) by Global Foundries.

Table B.4
Original and Adjusted AHU Settings
Building 330D First Floor
Former IBM East Fishkill Facility
Hopewell Junction, NY

AC Unit	Area Use	Original HVAC Settings Prior to Nov/Dec 2015 Adjustments (Note 2)							Adjusted HVAC Settings Based on Nov/Dec 2015 Testing (Notes 3 and 4)						
		Current Occupancy (Note 7)	Operating Schedule (Note 9)	Outside Air (OA) Flow Rate	Return Air (RA) Flow Rate	Total Supply Air Flow Rate	OA Economizer (Note 9)	OA Damper Position (Note 9)	Future Occupancy (Note 7)	Operating Schedule (Note 9)	OA Flow Rate (Note 8)	RA Flow Rate	Total Supply Air Flow Rate	OA Economizer (Note 9)	OA Damper Position (Note 9)
AC-5B2,6B1	Labs/Unoccupied Lab	Occ	24/7	27,744	0	27,744	No	100% open	Occ	24/7	26,370	0	26,370	No	100% open
AC-6A2	Offices	30	24/7	360	7,040	7,400	No	0% open	30	24/7	360	7,040	7,400	No	0% open
AC-8-2	Labs and Offices	27	24/7	14,975	18,905	33,880	Yes	85% open (min)	27	24/7	14,975	18,905	33,880	Yes	85% open (min)
AC-12	Offices/Unoccupied Labs	Occ	24/7	11,440	7,497	18,937	No	45% open	0	Off					
AC-13	Offices/Unoccupied Labs	32	24/7	12,664	15,224	27,888	No	40% open	32	24/7	11,871	15,595	27,466	No	75% open
AC-15	Labs and Offices	11	24/7	10,368	15,328	25,696	Yes	30% open (min)	11	24/7	10,368	15,328	25,696	Yes	30% open (min)
AC-25	Executive Offices/Lobbies	Occ	6am-630pm 7days	34,397	3,823	38,220	Yes	30% open (min)	Occ	6am-630pm 7days	34,397	3,823	38,220	Yes	30% open (min)
AC-60	Cleaning Personnel/ Unoccupied Area	0	6 AM - 6 PM On	35,470	3,002	38,472	No	50% open	0	Off					
AC-61 (Note 5)	Off	0	Off						0	Off					
AC-71	Tool Shop	Occ	5 AM - 5 PM On	7,683	3,806	11,489	Yes	20% open (min)	0	5 AM - 5 PM On	8,211	3,125	11,336	Yes	20% open (min)
AC-72,82	Unoccupied Lab/Refeed Corridor	Occ	24/7	8,803	0	8,803	No	NA	0	Off					
AC-79	Unoccupied Lab	0	24/7	7,080	0	7,080	No	100% open	0	24/7	7,585	0	7,585	No	100% open
AC-83	Lab and Unoccupied Lab	2	6AM - 4:30 PM On	17,859	3,741	21,600	No	28% open	2	6AM - 4:30 PM On	18,165	7,435	25,600	No	40% open

Notes
1. The information in this table was provided to IBM and Sanborn, Head Engineering, PC (SHPC) by Global Foundries (GF). Flow rates are based on reports prepared by GF's contractor, US Test.
2. Original HVAC flow rates are based on an Excel file titled, "AC Shutdown - Master ListR1.xls" that GF sent to IBM and SHPC on August 14, 2015.
3. With the exception of AC-83, the flow rates and OA damper positions for the adjusted HVAC settings are based on a US Test Report dated 11/18/2015.
4. The flow rates and OA damper position for the AC-83 adjusted HVAC settings are based on an email from GF dated 11/20/2015.
5. The area formerly served by AC-61 was being supplied by AC-60 under the original conditions.
6. Flow rates are provided in cubic feet per minute (cfm).
7. "Occ" = occupied; specific number of occupants not provided by GF.
8. Shaded rows indicate the HVAC zones that were adjusted prior to testing. Zones that were marginally adjusted to within 10% of their original settings are not shaded.
9. Operating schedule and economizer information/minimum OA damper positions were updated based on a call with GF on 12/7/2015 and an email from GF dated 12/15/2015.

Table B.5
Original and Adjusted AHU Settings
Building 338
Former IBM East Fishkill Facility
Hopewell Junction, NY

Air Handling Unit (AHU) ID	Original (Baseline) Settings (Note 1)				Adjusted Settings (Note 2)			
	Occupancy	Operating Schedule	Outside Air (OA) Damper Position	OA Flow Rate (cfm)	Occupancy	Operating Schedule	OA Damper Position	OA Flow Rate (cfm)
AC-1	Unoccupied	24/7	50% open	4,092	Unoccupied	Off	Off	Off
AC-2	Unoccupied	24/7	20% open	3,689	Unoccupied	Off	Off	Off
AC-3A	Unoccupied	24/7	10% open	3,755	Unoccupied	Off	Off	Off
AC-3B	Unoccupied	Off	Off	Off	Unoccupied	Off	Off	Off
AC-3C	Unoccupied	Off	Off	Off	Unoccupied	Off	Off	Off
AC-4A	Unoccupied	Off	Off	Off	Unoccupied	Off	Off	Off
AC-4B	Unoccupied	Off	Off	Off	Unoccupied	Off	Off	Off
AC-4C	Unoccupied	24/7	10% open	4,212	Unoccupied	Off	Off	Off
AC-4D	Unoccupied	24/7	10% open	5,219	Unoccupied	Off	Off	Off
AC-4E	Unoccupied	Off	Off	Off	Unoccupied	Off	Off	Off

Notes:
1. Original OA damper positions and flow rates are based on measurements conducted by US Test in April and June 2015. With the exception of AC-2, measurements were included in a US Test Report dated 4/9/2015 and provided to Sanborn, Head Engineering, PC (SHPC) via email on 4/25/2015. The measurements for AC-2 were included in a spreadsheet dated 7/17/2015 that was provided to SHPC via email on 7/28/2015.
2. Global Foundries elected to turn off all HVAC units in December 2016 because the building had been completely vacated before that time (including contractors).
3. The AC-3A through 3D, and AC-4A through AC-4D designations represent multiple air handling units serving the same area.
4. Shaded rows indicate HVAC zones that were adjusted.
5. cfm = cubic feet per minute