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February 28, 2020

Mr. Brian Sadowski
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**Re: 2019 Annual Periodic Review Report
Cherry Farm Site (NYSDEC Site No. 9-15-063)
River Road Site (NYSDEC Site No. 9-15-031)
4100 River Road, Tonawanda, New York 14150
File No. 442205**

Dear Mr. Sadowski:

On behalf of the Potentially Responsible Parties Group (PRP Group) of Honeywell International Inc. and Niagara Mohawk Power Corp. d/b/a National Grid, Groundwater & Environmental Services, Inc. (GES) is pleased to submit the attached Periodic Review Report (PRR). The report was prepared in accordance with the PRR General Guidance document provided by New York State Department of Environmental Conservation (NYSDEC) and documents the implementation of and compliance with site management requirements for the site. The reporting period encompasses January 1, 2019 through December 31, 2019.

If you have any questions, please contact Thomas Palmer at (800) 287-7857 (ext. 4346).

Sincerely,

A handwritten signature in blue ink, appearing to read 'Thomas Palmer', with a stylized flourish at the end.

Thomas Palmer
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Cherry Farm/River Road Potentially Responsible Parties Group

2019 Annual Periodic Review Report

Cherry Farm/River Road Site

4100 River Road, Tonawanda, New York 14150

NYSDEC Site No. 9-15-063 and 9-15-031

February 28, 2020

File No. 442205xx



2019 Annual Periodic Review Report

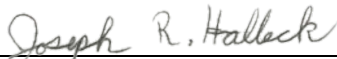
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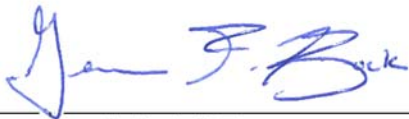
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Acronyms

BOD	Biochemical Oxygen Demand
Class GA	Ambient Groundwater
DTP	Depth to Product
DTW	Depth to Water
ESG	Environmental Service Group, Inc.
gpm	Gallons per minute
GES	Groundwater & Environmental Services, Inc.
LNAPL	Light non-aqueous phase liquids
µg/L	Micrograms per liter
NYSDEC	New York State Department of Environmental Conservation
OM&M	Operations, Maintenance, and Monitoring
Parsons	Parsons Corporation
PCBs	Polychlorinated biphenyls
pH	Potential of hydrogen
PPE	Personal protective equipment
PRP	Potential Responsible Parties
PRR	2019 Annual Periodic Review Report
PVC	Polyvinyl chloride
QA/QC	Quality assurance/quality control
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
SDA	Sediment disposal area
Site	Cherry Farm/River Road Site
SVOCs	Semi-volatile organic compounds
TAL	Target analyte list
TCL	Target compound list
TestAmerica	TestAmerica Laboratories, Inc.
TOC	Top of casing
TOGS 1.1.1	NYSDEC Technical and Operation Guidance Series 1.1.1
TPH	Total petroleum hydrocarbons
TSS	Total suspended solids
USACOE	United States Army Corp of Engineers
VOCs	Volatile organic compounds
WQSG	Water Quality Standards/Guidance Values

Executive Summary

Introduction

This 2019 Annual Periodic Review Report (PRR) for the Cherry Farms/River Road Site (Site) summarizes the monitoring and maintenance activities conducted at the Site from January 1 through December 31, 2019. The work was conducted as part of the required post-construction operations, maintenance, and monitoring (OM&M) program. The goals of the OM&M program are to monitor and evaluate groundwater and surface water quality and to monitor and maintain the integrity of the landfill remedy (which includes the cap and groundwater collection/treatment systems), offshore barrier islands, and shoreline wetlands.

Program Methodology

In accordance with the procedures outlined in the updated OM&M manual (dated June 2017), annual sampling includes sampling of the collection trench sumps in the shallow aquifer and monitoring wells in the intermediate/deep aquifer, including former recovery wells RW-4 and RW-5. Beginning in 2017, monitoring wells MW-1, MW-2, MW-3, and MW-7 are only sampled every two years (during even numbered years). Therefore, these monitoring wells were not sampled during the second quarter of 2019 sampling event. The OM&M manual prescribes that the season during which samples are collected will be varied and that the sampling events should be separated by a minimum of two quarters and a maximum of four quarters. For this reason, the sampling event was conducted in the second quarter (June) of 2019.

The collection trench sump samples were analyzed for target compound list (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), TCL pesticides/polychlorinated biphenyls (PCBs), and target analyte list (TAL) metals and cyanide. The monitoring well samples in the intermediate/deep aquifer were analyzed for TCL VOCs, TCL SVOCs, and TCL PCBs. Analytical results were compared to the ambient groundwater (Class GA) Water Quality Standards/Guidance Values (WQSG), found in NYSDEC Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1). Surface water was not present in any of the surface water sampling locations during the sampling events or Site inspections in 2019.

Water level monitoring was conducted on a quarterly basis and included the monitoring wells, former recovery wells, sumps, and observation wells. The water level data from the monitoring wells and former recovery wells were used to construct hydrographs to evaluate hydraulic gradient and to construct groundwater contour maps. Groundwater contour maps and hydrographs are discussed in *Section 3* and included in **Figures 3.3a-d**, **Figures 3.4a-d**, and **Figures 3.5a-c**.

Informal cap/Site inspections were completed during the reporting period by GES on a monthly basis in conjunction with routine Site visits. Formal inspections performed on a quarterly basis inspect the cap and Site for excessive debris, litter and waste, loss of vegetative cover, integrity of the drainage system, condition of access roads, gates, and fencing, integrity of groundwater



monitoring and observation wells, and integrity of the cover system. The NYSDEC attended the quarterly site inspection on May 6, 2019.

Maintenance was performed on various components of the groundwater extraction and treatment system throughout the year. The maintenance operations were performed either as part of scheduled preventive maintenance or as necessary to maintain system compliance.

In accordance with the Town of Tonawanda Industrial Sewer Connection Permit for the Site, GES collected monthly and semi-annual treatment system samples for laboratory analyses. Monthly analyses include PCBs, potential of hydrogen (pH), and total petroleum hydrocarbons (TPH). Semi-annual analyses also include biochemical oxygen demand (BOD), total suspended solids (TSS), total cyanide, total phosphorus, and total arsenic. The analytical results assist in determining if the treatment system is operating in accordance with the Discharge Limitations and Monitoring Requirements outlined in the discharge permit located in **Appendix D**.

GES, on behalf of the PRP group, developed a work plan to excavate and replace the previously reported occluded portion of the S-4 line which was approved by the NYSDEC on June 12, 2019. On September 9, 2019 S-4 line replacement commenced. Line replacement was performed section by section until scaling was not impeding the flow of water from the sump to the building. The line section that was not replaced was cleaned using a jetting device prior to connection with the new piping. Following S-4 line replacement the pump and in sump plumbing were replaced and the sump operation resumed on September 20, 2019.

Additionally, in order to reduce the volume of chemical utilized by the treatment system and increase safety of system operation, a *Chemical Reduction Plan* was submitted to the local sewer authority and the NYSDEC on October 20, 2019. Following approval of the plan by all parties, the stepped approach to reduce chemical usage at the treatment system was initiated in November 2019. All discharge samples collected from the system during the increase in operational pH of the system indicated that discharge is within permitted limits. The system is functioning normally under the new, higher operational pH conditions.

Descriptions of significant non-routine maintenance operations performed between January 1 and December 31, 2019 are provided in **Table 2.3**.

Monitoring Summary

Intermediate/Deep Groundwater Sampling – Second Quarter 2019

VOC analytes were not detected in concentrations exceeding Class GA WQSG in any intermediate/deep groundwater samples from MW-6 or RW-5. VOC analytes detected in concentrations exceeding Class GA WQSG in MW-4, MW-5, and RW-4 and are summarized below:

- Benzene concentrations exceeded in MW-4 at 5.5 micrograms per liter (µg/L), MW-5 at 6.9 µg/L, and RW-4 at 6.0 µg/L.

SVOCs and PCBs were not detected at or above the Class GA WQSG in any of the groundwater samples collected in the second quarter 2019 sampling event.

Shallow Groundwater Sampling – Second Quarter 2019

VOCs were not detected in concentrations exceeding Class GA WQSG in samples collected in the second quarter 2019 sampling event.

SVOC analytes were not detected in concentrations exceeding Class GA WQSG in samples S-2, S-3, or S-4. SVOC analytes were detected in concentrations exceeding Class GA WQSG in S-1 and are summarized below:

- 2,4-dimethylphenol concentrations exceeded in S-1 at 2.5 µg/L

Pesticides were not detected in concentrations exceeding Class GA WQSG in samples collected in the second quarter 2019 sampling event.

PCBs were not detected in concentrations exceeding Class GA WQSG in samples collected in the second quarter 2019 sampling event.

Concentrations of the metals iron, manganese, and sodium exceeded Class GA WQSG in one or more samples. The following shows Class GA WQSG exceedances:

- Iron concentrations exceeded in S-1 at 2,900 µg/L, S-2 at 630 µg/L and S-3 at 1,800 µg/L;
- Manganese concentration exceeded in S-1 at 1,000 µg/L
- Sodium concentrations exceeded in S-1 at 47,900 µg/L, S-2 at 134,000 µg/L, and S-3 at 163,000 µg/L

Concentrations of the resource conservation and recovery act (RCRA)-8 listed metals were below Class GA WQSG in all shallow groundwater samples collected in the second quarter 2019 sampling event.

Surface Water Sampling

Surface water was not present in any of the surface water sampling locations during the second quarter 2019 sampling events.

Water Level Monitoring

Quarterly water level monitoring was completed on March 25, June 24, September 30, and December 16, 2019. Water table elevations for the monitoring wells, observation wells, and sumps were predominantly lower than the water elevation of the Niagara River for the reporting period. This is contrary to historical trends for the monitoring wells, observation wells, and sumps. Further review of water elevations, site activities, and discussion of potential staff gauge elevation issues are in *Section 3.4, 4.1, and 4.2.*



Semi-Annual Cap Inspections

GES performed formal cap inspections quarterly in 2019. The NYSDEC attended the quarterly cap inspections on May 6, 2019. There were no deficiencies noted during the inspections.

System Effectiveness

During system operation, the average flow rate for 2019 was approximately 7.10 gallons per minute (gpm), which is higher when compared to the average flow rate for 2018 (5.99 gpm). The system up-time for 2019 was approximately 97%. Approximately 3,613,048 gallons of groundwater were treated and discharged to the Town of Tonawanda Wastewater Treatment Facility during 2019. Based on the annual sampling data from the remedial system sumps and the total gallons treated and discharged by the system in 2019, approximately 0.018 pounds of VOCs, 0.063 pounds of SVOCs, 0.001 pounds of pesticides, and 0.000 pounds of PCBs were removed in 2019. No surface overflows were observed from the trench during the reporting period.

1 Introduction

This 2019 Annual Periodic Review Report (PRR) for the Cherry Farms/River Road Site (Site) summarizes the monitoring and maintenance activities conducted at the Site from January 1 through December 31, 2019. The work was conducted as part of the required post-construction operations, maintenance, and monitoring (OM&M) program. The goals of the OM&M program are to monitor and evaluate groundwater and surface water quality and to monitor and maintain the integrity of the landfill remedy (which includes the cap and groundwater collection/treatment systems), offshore barrier islands, and shoreline wetlands.

The OM&M program follows procedures specified in the OM&M manual developed by Parsons Corporation (Parsons) of Williamsville, New York. The OM&M manual was revised by Parsons on September 6, 2006, to reflect New York State Department of Environmental Conservation (NYSDEC) approved changes, including elimination of nine (9) extraction wells, and reduction in the sampling and analysis program. The OM&M manual was subsequently updated by Groundwater & Environmental Services, Inc. (GES) in June of 2017 with the latest NYSDEC-approved update.

Presently, the environmental monitoring system for groundwater and surface water includes the following:

- The intermediate/deep groundwater monitoring wells and RW-4 and RW-5 to evaluate hydraulic gradient and groundwater quality of the intermediate/deep groundwater;
- Observation wells OW-1 through OW-9 to measure the hydraulic gradient of shallow groundwater, as it enters the shallow collection trench;
- Sumps S-1 through S-4, located in the shallow collection trench, to assess the shallow groundwater quality, and to collect LNAPL, if present; and
- Surface water sampling points SW-1 through SW-3 to assess surface water quality, if present.

In 2017, the NYSDEC approved reduction in sampling of monitoring wells MW-1, MW-2, MW-3, and MW-7 to occur every two years (in even numbered years).

2 Site Overview

2.1 Site Background

The Cherry Farms/River Road Site (Site) is located in a mixed industrial/commercial area of the Town of Tonawanda, New York. A Site location map is provided as **Figure 1**. The River Road Site occupies approximately 23 acres, located along the Niagara River south of the Grand Island Bridge. The Cherry Farm Site is an approximate 56-acre parcel located immediately north of the River Road Site. A Site map depicting the two parcels is provided as **Figure 2**. The two sites were, at one time, part of a larger property owned by Wickwire-Spencer Steel Company. Due to the common history, former common ownership, and similar remedial programs, NYSDEC and Potential Responsible Parties (PRP) group agreed to combine the remedial program at the two sites.

The Cherry Farm and River Road Sites were used for the disposal of waste from steel manufacturing processes from approximately 1908 to 1963. From 1963 until approximately 1970, the area was operated as a landfill for disposal of industrial wastes from the facilities in the area. The waste disposed of included fly ash, bottom ash, slag, sludge, liquid boiler cleaning waste, concrete rubble, and miscellaneous waste fill.

The remedial measures implemented for the Site were in accordance with the combined Record of Decision (NYSDEC, 1994). The remedial design for the combined properties included the following:

- Consolidation of wastes and installation of permeable and impermeable barriers over the wastes;
- Stabilization and habitat enhancements of the shoreline along the Niagara River, including installation of wooded and wetland areas;
- Removal and consolidation of contaminated sediments located within on-site drainage ditches;
- Installation of soil covers to support vegetation;
- Installation and operation of groundwater extraction wells (intermediate/deep zone) and a groundwater collection trench (shallow zone);
- Collection and disposal of light non-aqueous phase liquids (LNAPL) present in the groundwater on the River Road Site;
- Treatment of groundwater and subsequent discharge to the Town of Tonawanda Wastewater Treatment Facility; and
- Removal of river sediments impacted by the site and subsequent placement in an on-site sediment disposal area (SDA).

The remediation was substantially completed by December 1998, with follow up wetland plantings and final grading/seeding of the SDA in 1999.

2.2 Groundwater Extraction System Background

A groundwater extraction system, which began operating on August 18, 1997, was installed as part of the Site Remedial Action Plan (RAP). The extraction system consisted of eleven (11) recovery wells used to pump groundwater from the intermediate/deep aquifer, and a groundwater extraction trench which collected shallow groundwater and any associated LNAPL. Groundwater collected from the recovery wells and extraction trench was treated on-site, and discharged to the Town of Tonawanda Wastewater Treatment Facility. As part of the remedial construction, seven (7) groundwater monitoring wells were installed in upgradient (MW-1 and MW-2) and downgradient (MW-3 through MW-7) locations (**Figure 2**). The upgradient monitoring wells were installed to provide representative samples of groundwater from areas expected to be outside the influence of the landfill. The downgradient wells were designed to detect releases from the landfill during the operation of the groundwater extraction system.

Nine (9) observation wells (OW-1 through OW-9) were installed to monitor the hydraulic gradient of shallow groundwater and LNAPL in the vicinity of the shallow collection trench. The observation wells are hydraulically upgradient of the collection trench, at the locations shown on **Figure 2**. They were located and constructed to provide hydraulic data needed to confirm adequate performance of the shallow collection trench.

In October 2002, the intermediate/deep groundwater extraction system was turned off in order to complete a Groundwater Upwelling Study. The study was conducted by Parsons and was completed in December 2003. The study successfully quantified and characterized the chemical concentrations of the groundwater that are upwelling from the Site to the Niagara River. Based on the results, Parsons recommended discontinued operation of the intermediate/deep groundwater extraction system as it would not have an adverse impact on the quality of the groundwater upwelling to the Niagara River.

In November 2004, NYSDEC approved the decommissioning of portions of the extraction system. This included the decommissioning of extraction wells RW-1, RW-2, RW-3, RW-6, RW-7, RW-8, RW-9, RW-10, and RW-11. This work was completed in July 2005. Extraction wells RW-4 and RW-5 were left in place as monitoring wells. The shallow collection trench still operates and treated water continues to be discharged to the Town of Tonawanda Wastewater Treatment Facility.

Presently, the environmental monitoring system for groundwater and surface water includes the following:

- The intermediate/deep groundwater monitoring wells and RW-4 and RW-5 to evaluate hydraulic gradient and groundwater quality of the intermediate/deep groundwater;
- Observation wells OW-1 through OW-9 to measure the hydraulic gradient of shallow groundwater, as it enters the shallow collection trench;
- Sumps S-1 through S-4, located in the shallow collection trench, to assess the shallow groundwater quality, and to collect LNAPL, if present; and
- Surface water sampling points SW-1 through SW-3 to assess surface water quality, if present.



Sampling and analysis of groundwater from the upgradient and downgradient monitoring wells was performed quarterly for the first year of operation and reduced to semi-annually from 1998 through 2004. Starting in 2005 groundwater sampling was reduced to a rotating annual sampling schedule of once every three quarters. In 2017, the NYSDEC approved reduction in sampling of monitoring wells MW-1, MW-2, MW-3, and MW-7 to occur every two years (in even numbered years).

3 Program Methodology

3.1 Institutional and Engineering Controls

The following is a list of institutional and engineering controls set forth in the Record of Decision for the Site:

Cherry Farm	River Road
Fencing/Access Control	Fencing/Access Control
Cover System	Cover System
Groundwater Collection/Treatment System	Groundwater Collection/Treatment System
Monitoring Plan	Monitoring Plan
OM&M Plan	OM&M Plan
Leachate Collection	Leachate Collection
Building Use Restriction	
Land Use Restriction	

As provided in previous PRRs and Annual Reports, **Table 2.1** and **Table 2.1a** provide brief descriptions of the controls for each site based on GES' and the PRP Group's understanding of the controls, the monitoring program and frequency, and notation of any deficiencies/corrective measures for the reporting period. The completed Institutional and Engineering Controls Certification Form for each site are provided in **Appendix E**.

3.2 Groundwater Quality Monitoring

The monitoring wells and sumps were sampled in accordance with the OM&M manual. Groundwater quality in the intermediate/deep zone was monitored at five (5) locations, including three (3) monitoring wells (MW-4 through MW-6) and two (2) former recovery wells (RW-4 and RW-5). The shallow groundwater quality was monitored at the four (4) sumps (S-1 through S-4) located in the collection trench. The monitoring wells and sumps were sampled on June 26, and 27, 2019. Note that the OM&M manual indicates that each year, the season during which samples are collected will be varied and sampling events should be separated by a minimum of two quarters, and a maximum of four quarters. For this reason, a sampling event was conducted in the second quarter of 2019. Sample results from 2019 are summarized in *Section 4*. Complete results, including quality assurance/quality control (QA/QC) sample results, are provided in **Appendix A**. Analytical summaries of all monitoring performed from 1997 through 2019 are provided in **Appendix B**.

The collection trench sump samples were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides/PCBs, and TAL metals, and cyanide. The monitoring well samples in the intermediate/deep aquifer were analyzed for TCL VOCs, TCL SVOCs, and Total PCBs.

Associated QA/QC samples were collected, including one (1) field duplicate, one (1) matrix spike, one (1) matrix spike duplicate, and two (2) trip blanks. The purge water and decontamination water were contained and treated in the on-site water treatment plant.

Following collection, the samples were packed in ice and delivered to an approved laboratory in accordance with chain-of-custody procedures. Groundwater sample analyses were performed by TestAmerica Laboratories, Inc. (TestAmerica) of Amherst, New York.

3.3 Surface Water Quality Monitoring

There was no surface water in any of the surface water sampling points during the 2019 sampling event. Surface water has not been observed on-site since 2007.

3.4 Water Level Monitoring

Quarterly groundwater level monitoring was completed on March 25, June 24, September 30, and December 16, 2019. In addition to the water level measurements, the thickness of LNAPL, if present, was measured and recorded. An oil/water interface probe was used to measure depth to product (DTP) and depth to water (DTW) levels with an accuracy of approximately ± 0.01 feet. Groundwater elevation data for the reporting period are provided in **Table 2.2**. The contour maps and hydrographs are discussed in *Section 4*. A historical water level database is provided in **Appendix B**.

On March 12, 2019 MW-4 was repaired by cutting off the cracked top portion of the polyvinyl chloride (PVC) riser and a new piece of riser was attached with a coupling. During the March 25, 2019 quarterly gauging event the elevation of the Niagara River at the staff gauge had to be estimated due to damage to the staff gauge caused by ice flow down the Niagara River. Following the repairs to the staff gauge and MW-4, a licensed surveyor was contracted to survey the on-site wells. On June 7, 2019 all on-site wells were located and measured for top of casing (TOC) elevation by Nussbaumer & Clarke, Inc. of Buffalo, NY. The new survey data was used for all groundwater elevation data and associated groundwater contour maps and hydrographs.

Groundwater levels were measured at each of the following locations:

- The intermediate/deep groundwater monitoring wells are MW-1 through MW-7, RW-4, and RW-5. The water level data collected from the monitoring wells is used to construct groundwater contour maps for the Site. The hydrographs (**Figures 3.4a** through **3.4d**) provide a comparison of water levels in the monitoring/recovery wells and the water level of the river as well as a graphical representation of the groundwater hydraulic gradient.
- Continuing in 2019, periodic groundwater gauging took place at select wells OW-1, OW-2, MW-4, MW-5, RW-4, and RW-5, to help confirm the pattern to the anomalous readings previously reported for MW-4 and RW-5. Field note review shows that the road box for MW-4 and the vault for RW-5 were both found flooded repeatedly during periods of high elevation readings. Periodic gauging data is included in **Appendix F**.

- Further review of the groundwater elevation data (**Table 2.2**) after the survey of the wells shows a clear pattern of elevated groundwater elevations at deep wells RW-4 and RW-5 compared to the intermediate monitoring wells (MW-1 through MW-7). The well construction and installation is significantly different between the MWs and RWs and is the most likely cause of the anomalous groundwater elevation readings. Therefore, groundwater elevation data from RW-4 and RW-5 was not used to generate groundwater contours in 2019 (**Figures 3.3a through 3.3d**).
- Observation wells (OW-1 through OW-9) were installed to measure the hydraulic gradient of shallow groundwater. The hydrographs constructed from the data are used to show that the shallow groundwater is flowing towards the Niagara River, which is ultimately intercepted by the shallow collection trench. The hydrographs (**Figures 3.5b and 3.5c**) provide a comparison of water levels in the observation wells and the water level of the river.
- Sumps S-1 through S-4 were installed to assess shallow groundwater quality and to collect LNAPL, if present. The hydrograph (**Figure 3.5a**) provides a comparison of the water levels in the sumps and the water level in the river.

3.5 Cap Inspection and Maintenance Activities

During the reporting period, routine cap/Site inspections were completed by GES on a monthly basis, in conjunction with the routine Site visits. A formal cap inspection was completed quarterly. The NYSDEC attended the quarterly inspection on May 6, 2019. The cap and Site are inspected for excessive debris, litter and waste; loss of vegetative cover; integrity of the drainage system; condition of access roads, gates, and fencing; integrity of groundwater monitoring and observation wells; and integrity of the cover system.

During the routine monthly inspections and quarterly cap inspections, there was no evidence of damage to the fencing, access gates, signage, or treatment building. The monitoring and observation wells and interceptor trench sumps were observed to be in good condition. There was no evidence of damage to the cover system or notation of excessive debris/litter.

As part of the maintenance activities, the wooded upland and wetland habitats were inspected routinely. In general, the constructed shoreline vegetation is continuing to grow and propagate. Wildlife usage of the created habitats is readily apparent. The cap is mowed annually, after August 15th, to prevent disturbing on-Site nesting bird populations.

3.6 Groundwater Collection/Treatment System OM&M

In accordance with the Town of Tonawanda Industrial Sewer Connection Permit for the Site, GES collects monthly and semi-annual treatment system samples for laboratory analyses. Treatment system samples are collected from the sump influent and prior to discharge to the Town (ML-2). Monthly analyses include PCBs, pH, and TPH. Semi-annual analyses include BOD, TSS, total cyanide, total phosphorus, and total arsenic. Additionally, a monthly sample is collected from between the two (2) carbon units and analyzed for PCBs to monitor the effectiveness of the carbon



treatment. Treatment system analytical results for 2019 and a copy of the Industrial Sewer Connection Permit for 2017 through 2019 are provided in **Appendix D**.

Maintenance was performed on various components of the groundwater treatment system throughout the year. The maintenance operations were either scheduled preventive maintenance, or as necessary to maintain system compliance.

GES, on behalf of the PRP group, developed a work plan to excavate and replace the previously reported occluded portion of the S-4 line. Once the work plan was completed it was submitted and approved by the NYSDEC on June 12, 2019. On September 9, 2019 S-4 line replacement commenced. Line replacement was performed section by section until a point came where the scaling was not impeding the flow of water from the sump to the building. The line section that was not replaced was cleaned using a jetting device prior to connection with the new piping. Following S-4 line replacement the pump and in sump plumbing were replaced and the sump operation resumed on September 20, 2019.

All removed pipe was placed on poly sheeting and staged onsite for proper disposal. The line extending from S-4 was excavated from the sump towards the building. All removed subsurface material was reinstalled within the S-4 pipe trench per the approved work plan. No soil was disposed of off-site as part of these activities.

Additionally, in order to reduce the volume of chemical utilized by the treatment system and increase safety of the system operation, a *Chemical Reduction Plan* was submitted to the local sewer authority and the NYSDEC on October 20, 2019. Following approval of the plan by all parties, the stepped approach to reduce chemical usage at the treatment system was initiated in November 2019. All discharge samples collected from the system during the increase in operational pH of the system indicated that discharge is within permitted limits. The system is functioning normally under the new, higher operational pH conditions.

Descriptions of significant non-routine maintenance operations performed between January 1 and December 31, 2019 are provided in **Table 2.3**.

3.7 Waste

One (1) 55-gallon drum of personal protective equipment (PPE)/solids were generated at the Site in 2019. Four (4) 55-gallon drums containing spent carbon from partial carbon change out activities conducted in 2019 were generated. The five (5) 55-gallon drums were collected for transport and disposal on January 8, 2020. Disposal was completed by The Environmental Service Group, Inc. (ESG) of Tonawanda, New York and the spent carbon was transported to American Recyclers Company disposal facility in Tonawanda, New York, while the caustic and PPE/solids were transported to Environmental Enterprises, Inc. disposal facility in Cincinnati, Ohio. The waste manifests will be included in the 2020 PRR due to the collection and disposal having taken place in 2020.

Pipe waste generated during the S-4 line replacement work was wrapped in poly sheeting and scale was sampled for waste profiling. The approximately five (5) cubic yards of pipe/scale waste



and associated poly sheeting was loaded into a roll off dumpster on January 30, 2020 and transported by Empire Building Diagnostics to Allied Waste Niagara Falls Landfill, LLC disposal facility in Niagara Falls, NY. The waste manifests will be included in the 2020 PRR due to the collection and disposal having taken place in 2020.

4 Monitoring Summary

4.1 Groundwater Quality

Annual sampling conducted on June 26 and 27, 2019, included the collection of groundwater samples from monitoring wells to assess intermediate/deep groundwater quality and from the sumps located in the shallow collection trench to assess shallow groundwater quality. Groundwater samples were collected from five (5) groundwater monitoring wells (MW-4 through MW-6, RW-4, and RW-5) and four (4) sumps (S-1 through S-4).

The 2019 intermediate/deep groundwater and the shallow groundwater analytical data are summarized in **Table 3.1** and **Table 3.2** providing detected compounds only. A groundwater analytical data table providing complete results for all wells sampled during the June 2019 groundwater sampling events is included in **Appendix A**. Groundwater sample results were compared to the Class GA WQSG found in NYSDEC TOGS 1.1.1. The complete laboratory reports for the current reporting period are also provided in **Appendix A**. Historically detected compounds for all samples collected to date are summarized in **Appendix B**, and are arranged by sampling location to facilitate comparison of concentrations at each sampling point over time. Concentration and trend graphs for monitoring well samples are provided for VOCs (**Figure 3.1a** and **3.2a**), SVOCs (**Figure 3.1b** and **3.2b**), and PCBs (**Figure 3.1c** and **3.2c**), respectively. Concentration and trend graphs for the sump samples are provided for VOCs (**Figure 3.1d** and **3.2d**), SVOCs (**Figure 3.1e** and **3.2e**), PCBs (**Figure 3.1f** and **3.2f**), pesticides (**Figure 3.1g** and **3.2g**), and 8-RCRA Metals (**Figure 3.1h** and **3.2h**), respectively. Copies of the groundwater sampling logs are provided in **Appendix C**.

4.1.1 Intermediate/Deep Groundwater Quality

Intermediate/Deep Groundwater Sampling – June 2019

In the intermediate/deep groundwater samples from MW-6, and RW-5, groundwater concentrations did not exceed Class GA WQSG for any VOCs. Benzene was the only VOC detected at a concentration exceeding Class GA WQSG at 5.5 µg/L in MW-4, 6.9 µg/L in MW-5, and 6.0 µg/L in RW-4.

SVOCs and PCBs were not detected at or above the Class GA WQSG in any sample collected in the second quarter 2019 sampling event.

Intermediate/Deep Groundwater Trends – 2019

Total VOC concentration trends at the intermediate wells sampled in 2019 (MW-4 through MW-6) are either stable or decreasing based on all historic data. Although the slope of the total VOC concentration trends at the deep wells (RW-4 and RW-5) appears to be positive based on all historic data, a Mann-Kendall statistical analysis of the historic total VOC data from RW-4 indicates that there is “no trend” (RW-4: S = 27, Confidence Factor 83.5%); and that total VOC data from RW-5 indicates the concentration is “decreasing” (RW-5 S = -50, Confidence Factor 96.9%) based on groundwater data since August 2005. Additionally, VOC concentrations at RW-

5 have been below Class GA WQSG since the November 2014 sampling event and concentrations at RW-4 only exceed Class GA WQSC for benzene.

SVOCs and PCBs were not detected at or above the Class GA WQSG in any sampled intermediate or deep well during 2019. Total SVOC concentration trends are generally stable or decreasing. Total PCB concentration trends are generally stable.

4.1.2 Shallow Groundwater Quality

Shallow Groundwater Sampling – June 2019

VOCs were not detected in concentrations exceeding Class GA WQSG in samples collected in the second quarter 2019 sampling event.

SVOC analytes were not detected in concentrations exceeding Class GA WQSG in samples S-2, S-3, or S-4. SVOC analytes were detected in concentrations exceeding Class GA WQSG in S-1 and are summarized below:

- 2,4-dimethylphenol concentrations exceed in S-1 at 2.5 µg/L

Pesticides were not detected in concentrations exceeding Class GA WQSG in samples collected in the second quarter 2019 sampling event.

PCBs were not detected in concentrations exceeding Class GA WQSG in samples collected in the second quarter 2019 sampling event.

Concentrations of the metals iron, manganese, and sodium exceeded Class GA WQSG in one or more samples. The following shows Class GA WQSG exceedances:

- Iron concentrations exceeded in S-1 at 2,900 µg/L, S-2 at 630 µg/L, and in S-3 at 1,800 µg/L;
- Manganese concentration exceeded in S-1 at 1,000 µg/L; and,
- Sodium concentrations exceeded in S-1 at 47,900 µg/L, S-2 at 134,000 µg/L, and S-3 at 163,000 µg/L.

Concentrations of the RCRA-8 listed metals were below Class GA WQSG in all shallow groundwater samples collected in the second quarter 2019 sampling event.

Shallow Groundwater Trends – 2019

VOCs were not detected in concentrations exceeding Class GA WQSG in any samples collected in the second quarter 2019 sampling event. Total VOC concentration trends are generally stable or decreasing with the exception of S-4. Although the slope of the total VOC concentration trends at S-4 appears to be positive based on all historic data, a Mann-Kendall statistical analysis of the historic total VOC data from S-4 indicates that there is “no trend” (S-4: S = 4, Confidence Factor 54.5%) based on groundwater data since August 2005.

Detected SVOC concentrations and total SVOC concentrations are within the normal, historical variation of SVOC detections/concentrations for these monitoring points. Total SVOC concentration trends are generally stable or decreasing based on historic data.

Pesticides were not detected in concentrations exceeding Class GA WQSG in any sample collected in 2019. Total pesticide concentration trends are stable or decreasing or stable for all sumps.

PCB detection concentrations and total PCB concentrations are within the normal, historical variation of PCB detections/concentrations for monitoring points S-1, S-2, S-3, and S-4. Total PCB concentration trends are generally stable or decreasing for all sumps.

Detected metal concentrations are consistent with historical trends. Iron, manganese, and sodium exceeded in one or more shallow groundwater sample.

RCRA-8 metals were below Class GA WQSG in all sump samples collected in 2019. Total RCRA-8 metals concentration trends are stable or decreasing for all sumps.

4.1.3 Surface Water Quality

Surface water was not present at sampling location SW-1, SW-2, or SW-3 during the June 2019 sampling event. A summary of historically detected compounds in surface water is provided in **Appendix B**.

4.1.4 Intermediate/Deep Groundwater Flow

Intermediate/deep zone groundwater contour maps were developed based on the March 25 (**Figure 3.3a**), June 24 (**Figure 3.3b**), September 30 (**Figure 3.3c**), and December 16 (**Figure 3.3d**), 2019 water level data. Variations in flow direction are observed across the Site between the quarterly monitoring events. In addition, the staff gauge was damaged by heavy ice flows throughout the winter months, which resulted in inconsistent water level readings. However, as has been consistently observed, the flow direction is primarily to the west, towards the Niagara River. Contrary to historical trends, river elevation was consistently at a higher elevation than the intermediate/deep groundwater elevations, indicating an issue with the staff gauge.

On March 12, 2019 monitoring well MW-4 was repaired by cutting off the cracked top portion of the PVC riser and a new piece of riser was attached with a coupling. The well elevation was measured using a laser level and other on-site wells for reference on March 14, 2019. During the March 25, 2019 quarterly gauging event the elevation of the Niagara River at the staff gauge had to be estimated due to damage to the staff gauge caused by ice flow down the Niagara River. Following the repairs to the staff gauge and MW-4, a licensed surveyor was contracted to survey the on-site wells. On June 7, 2019 all on-site wells were located and measured for TOC elevation by Nussbaumer & Clarke, Inc. of Buffalo, NY. The new survey data was used for all groundwater elevation data and associated groundwater contour maps and hydrographs for 2019.

Continuing in 2019, periodic groundwater gauging took place at select wells OW 1, OW-2, MW-4, MW-5, RW-4, and RW-5, to help confirm the pattern to the anomalous readings previously reported for MW-4 and RW-5. Field note review shows that the road box for MW-4 and the vault for RW-5 were both found flooded repeatedly during periods of high elevation readings. Further review of the groundwater elevation data (**Table 2.2**) after the survey of the wells shows a clear pattern of higher groundwater elevations at RW-4 and RW-5 when compared to the elevations

observed from the monitoring wells (MW-1 through MW-7). The recovery well construction and installation is significantly different between the MWs and RWs and is the most likely cause of the anomalous groundwater elevation readings. Therefore, the groundwater elevation data for RW-4 and RW-5 was not used for the generation of the groundwater contour maps for 2019 (**Figures 3.3a through 3.3d**) and will not be utilized for contour maps in the future.

The 2019 quarterly groundwater elevation data is provided in **Table 2.2** and hydrographs, with groundwater elevation data from 2015 to 2019, are provided in **Figures 3.4a-d**. Historical water level data and hydrographs for the monitoring wells are provided in **Appendix B**.

Historic water table elevations for the nine (9) monitoring wells have generally been higher than the surface water elevation of the Niagara River; however, groundwater elevations from 2019 did not follow that trend. Reviewing gauging data and site activities it is suspected that there is a discrepancy in the elevation of the site staff gauge, or that the gauge has shifted since the survey was completed. The staff gauge will be inspected and resurveyed if necessary in the spring of 2020 to confirm the source of the anomalous readings.

4.2 Effectiveness of the Shallow Collection Trench

4.2.1 System Description

The shallow collection trench consists of a series of four (4) shallow trenches comprised of a granular drainage material (silica filter sand), and lined with an impermeable geomembrane on the downgradient (river side) trench wall. The collection trench was reportedly modeled and designed without the trench membrane barrier. The barrier was subsequently added to minimize, but not eliminate, the rate of groundwater contribution from the Niagara River into the shallow collection trench. The system was designed as a groundwater sink to capture shallow groundwater and LNAPL. Four (4) sumps, located within the trench, pump groundwater into a conveyance pipeline. This pipeline conveys the groundwater to the on-site treatment plant for processing and discharge.

The groundwater treatment facility is located on the River Road portion of the Site (**Figure 2**). The groundwater treatment system includes oil/water separation, flow equalization, pH adjustment, and granular activated carbon filtration.

Nine (9) observation wells were installed to monitor groundwater elevations and hydraulic gradients in the vicinity of the trenches. Six (6) observation wells (OW-1, OW-3, OW-4, OW-6, OW-7, and OW-8) were installed adjacent to the trench system on the upgradient side. Observation wells OW-2 and OW-5 were installed further upgradient, at 14 feet (elevation) above the trench. OW-9 was installed 15 feet above the trench, adjacent to the former SDA.

4.2.2 System Effectiveness

During system operation, the average flow rate for 2019 was approximately 7.10 gpm, which is higher when compared to the average flow rate for 2018 (5.99 gpm). The system up-time for 2019 was approximately 97%. Aside from normal down-time for routine maintenance checks, other issues that caused additional down-time were the replacement of the S-4 plumbing, electrical

repairs to S-1 pump and controls, and the replacement of pH probes. Approximately 3,613,048 gallons of groundwater were treated and discharged to the Town of Tonawanda Wastewater Treatment Facility during 2019. Based on the annual sampling data from the remedial system sumps and the total gallons treated and discharged by the system in 2019, approximately 0.018 pounds of VOCs, 0.063 pounds of SVOCs, 0.001 pounds of pesticides, and 0.000 pounds of PCBs were removed in 2019. Groundwater samples from S-4 were not utilized to calculate recovery by the system in 2019 as S-4 was only operational in the fourth quarter of 2019. Mass removal data is provided in **Table 3.3**. No surface overflows were observed from the trench during the reporting period.

The 2019 groundwater elevation data are provided in **Table 2.2**. Hydrographs for the sumps (**Figure 3.5a**) and shallow observation wells (**Figures 3.5b** and **3.5c**) provide groundwater elevation trends and a comparison with the level of the Niagara River for the last five years. Historical water level data and hydrographs for the sumps and observation wells, from 1997 to the present, are provided in **Appendix B**.

Water table elevations for the nine (9) observation wells and the four (4) sumps in 2019 were anomalously lower than the Niagara River elevation. Historic water table elevations for the nine (9) observation wells and four (4) sumps have generally been higher than the surface water elevation of the Niagara River. Reviewing gauging data and site activities it is suspected that there is a discrepancy in the elevation of the site staff gauge or that the gauge has shifted since the survey was completed. The staff gauge will be inspected and resurveyed if necessary in the spring of 2020.

5 Summary, Conclusion and Recommendations

The objective of the post-construction monitoring program is to monitor and evaluate the Site groundwater quality, surface water quality, and the effectiveness of the cap and shallow extraction system. The primary conclusions derived from the monitoring program are summarized below.

5.1 June 2019 Intermediate/Deep Aquifer

In the intermediate/deep groundwater samples from MW-6 and RW-5, groundwater concentrations did not exceed Class GA WQSG for any VOCs. Benzene was the only VOC detected at a concentration exceeding Class GA WQSG at 5.5 µg/L in MW-4, 6.9 µg/L in MW-5, and 6.0 µg/L in RW-4.

- Benzene concentrations in MW-4, MW-5, and RW-5 was consistent with historical trends.
- SVOCs and PCBs were not detected at or above the Class GA WQSG in any sample collected in the second quarter 2019 sampling event.

5.2 June 2019 Shallow Groundwater

- VOCs were not detected in concentrations exceeding Class GA WQSG in shallow samples collected in the second quarter 2019 sampling event.
- SVOC analytes were not detected in concentrations exceeding Class GA WQSG in S-2, S-3, or S-4. SVOC analytes were detected in concentrations exceeding Class GA WQSG in S-1: 2,4-dimethylphenol at 2.5 µg/L. SVOC concentrations are within the normal, historical variation of SVOC detections/concentrations for the shallow monitoring points.
- Pesticides were not detected in concentrations exceeding Class GA WQSG in shallow samples collected in the second quarter 2019 sampling event.
- PCBs were not detected in concentrations exceeding Class GA WQSG in shallow samples collected in the second quarter 2019 sampling event.
- Concentrations of the metals iron, manganese, and sodium exceeded Class GA WQSG in one or more samples. The following shows Class GA WQSG exceedances: iron (S-1 at 2,900 µg/L, S-2 at 630 µg/L, and S-3 at 1,800 µg/L), manganese (S-1 at 1,000 µg/L), and sodium (S-1 at 47,900 µg/L, S-2 at 134,000 µg/L, and S-3 at 163,000 µg/L).
- Concentrations of the RCRA-8 listed metals were below Class GA WQSG in all shallow groundwater samples collected in the second quarter 2019 sampling event.

5.3 Other Conclusions/Recommendations

- There was no surface water present in any of the surface water sampling points at the time of the June 2019 sampling event.



- Based on the water elevation of the water table elevation in the intermediate/deep and shallow monitoring well network, groundwater flow continues to be generally to the west, towards the Niagara River.
- Groundwater elevation data, when compared to the elevation of the Niagara River, suggests a surveying issue or a problem with the site staff gauge. A replacement staff gauge that is less likely to be affected by ice flows on the river will be evaluated in 2020.
- There were no deficiencies noted during GES' quarterly cap inspections.
- Routine monthly Site inspections and quarterly cap inspections shall continue to confirm that the engineering controls remains effective.
- During system operation, the average flow rate for 2019 was approximately 7.10 gpm, which is lower when compared to the average flow rate for 2017 (5.99 gpm). The system up-time for 2019 was approximately 97%. Approximately 3,613,048 gallons of groundwater were treated and discharged to the Town of Tonawanda Wastewater Treatment Facility during 2019. Based on the annual sampling data from the remedial system sumps and the total gallons treated and discharged by the system in 2019, approximately 0.018 pounds of VOCs, 0.063 pounds of SVOCs, 0.001 pounds of pesticides, and 0.000 pounds of PCBs were removed in 2019. No surface overflows were observed from the trench during the reporting period.
- Monthly analytical discharge data for the reporting period indicates that the treatment system had been operating/discharging in accordance with the Town of Tonawanda sewer discharge permit. The signed permit is included in **Appendix D**.
- In September 2019, the S-4 line was excavated and replaced with new piping. Line jetting was used to clean the sections of pipe entering the sump and the building. Work was performed in accordance with *Work Plan for Sump 4 Conveyance Line Excavation and Replacement*, dated May 11, 2019. The system has operated with sumps 1, 2, 3, and 4 operating normally since the line was replaced. The repair work has remedied the problem and newly installed clean-outs will be used to access the line for preventative maintenance moving forward.
- In November 2019, the chemical reduction plan was implemented in order to reduce the volume of chemical utilized by the treatment system and increase safety of the system operation. Work was performed in accordance with Chemical Reduction Plan, dated October 20, 2019. Monthly adjustments were made until January, 2020 when the targeted pH of 4.0 was achieved. All discharge samples collected from the system during the increase in operational pH of the system indicated that discharge is within permitted limits. The system is functioning normally under the new, higher operational pH conditions.
- The United States Army Corps of Engineers (USACOE) has identified the Site as a potential location for enhanced shoreline restoration. This is being directed by the USACOE who is exploring funding opportunities for this work.



- Routine system operation and maintenance shall continue to ensure that the system discharge remains in compliance with the sewer discharge permit.
- PRRs will be submitted on an annual basis.

5.4 Request for Change to the Groundwater Sampling Program

On behalf of the Potentially Responsible Parties Group (PRP Group) of Honeywell International Inc. and Niagara Mohawk Power Corp. d/b/a National Grid, GES is requesting approval for a reduction in the analysis list for the monitoring wells sampled on an every three (3) quarter basis at the Site.

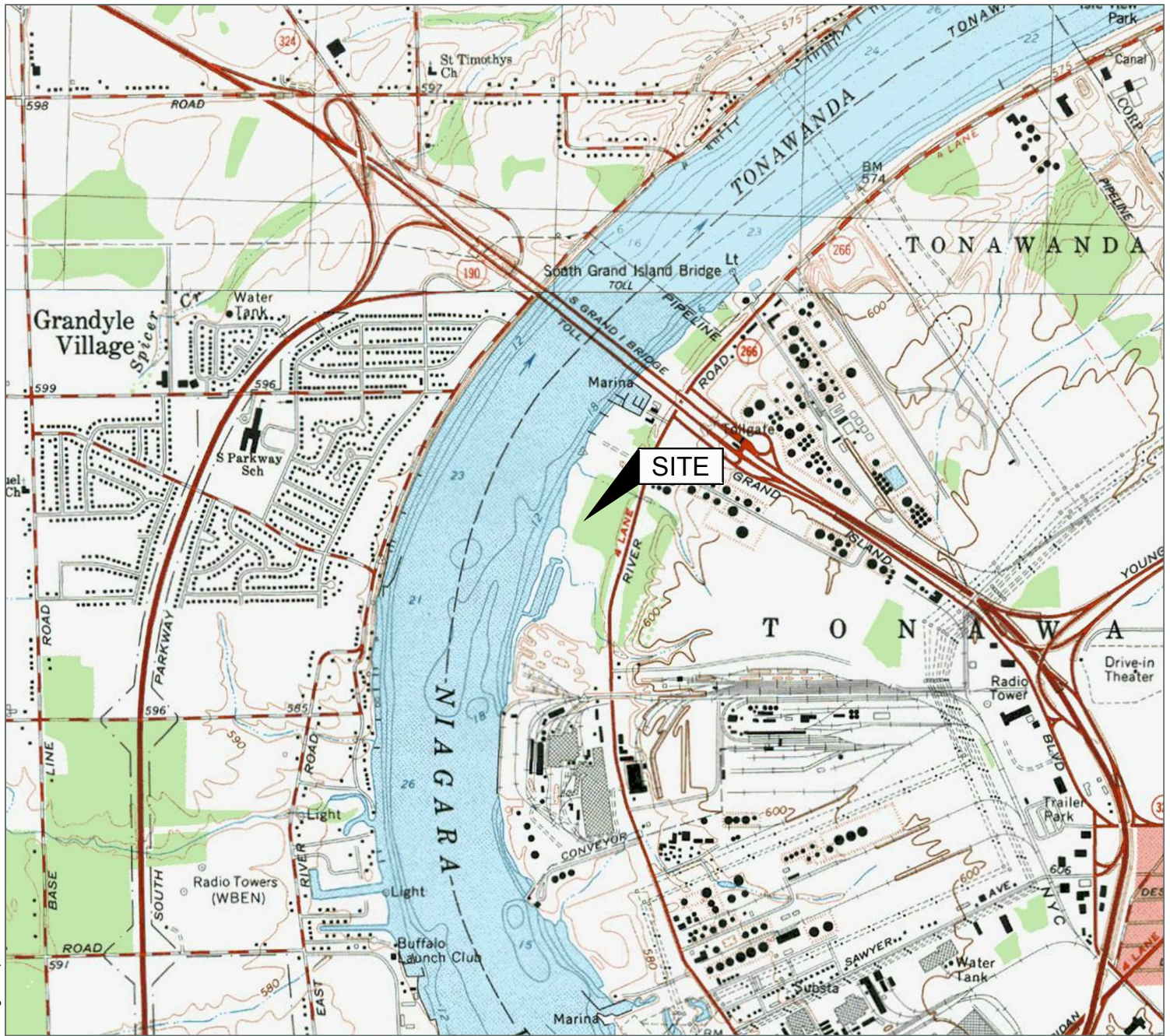
Based on recent and historic groundwater sampling activities, GES proposes the discontinuation of the analysis of groundwater samples collected from the site monitoring wells and recovery wells for PCBs.

- Analytical data for the intermediate/deep wells has been ND for PCBs since 1997 for all samples collected. The data suggests that the PCB contamination is restricted to the shallow water collection sumps and that further sampling of the intermediate/deep wells provides no new data relative to site contaminants.

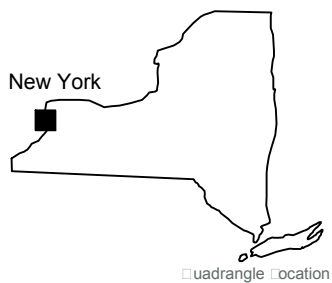
Groundwater samples for the shallow water sumps would continue to be monitored for PCBs during all groundwater sampling events.



Figures



Source:
 USGS 7.5 Minute Series
 Topographic Quadrangle, 1965
 Buffalo NW, New York
 Contour Interval = 10'



Site Location Map

Cherry Farm
 (River Road Site)
 4100 River Road
 Tonawanda, New York

Drawn
 W.G.S.
 Designed
 J.K.C
 Approved
 T.P



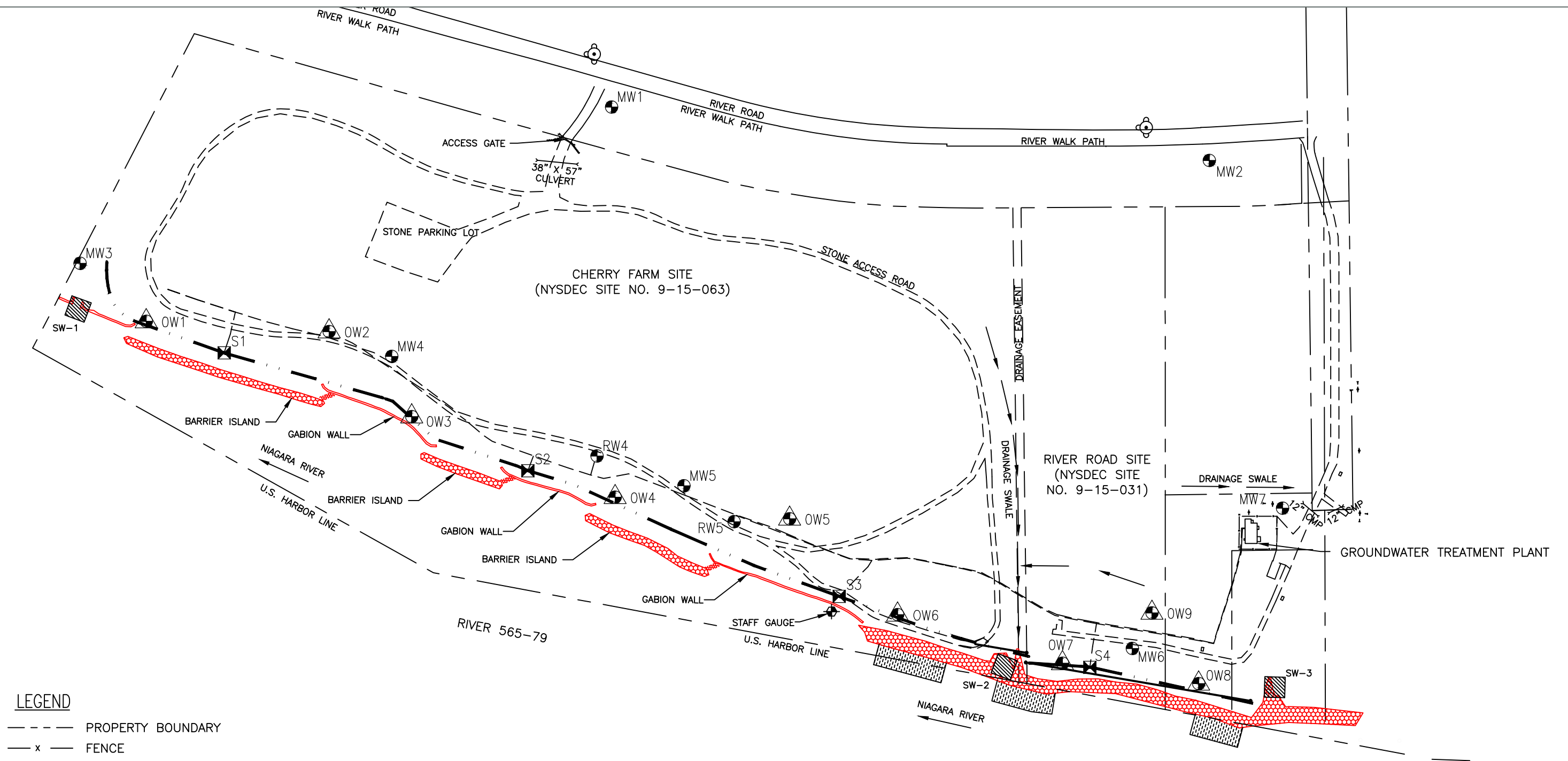
Scale In Feet



Groundwater & Environmental Services, Inc.

Date
 5/15/19
 Figure
 1

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- LEGEND**
- PROPERTY BOUNDARY
 - x - FENCE
 - ☒ TRENCH SUMP
 - MONITORING WELL
 - ▲ OBSERVATION WELL
 - . - SHALLOW GROUNDWATER TRENCH
 - - - GROUNDWATER CONVEYANCE PIPING

Site Map	
Cherry Farm (River Road Site) 4100 River Road Tonawanda, New York	
Drawn W.G.S. Designed J.K.C. Approved T.P.	Date 2/4/19 Figure 2
Scale In Feet 0 250 GES Groundwater & Environmental Services, Inc.	



Figure 3.1a

Monitoring Well Concentrations - Total VOCs

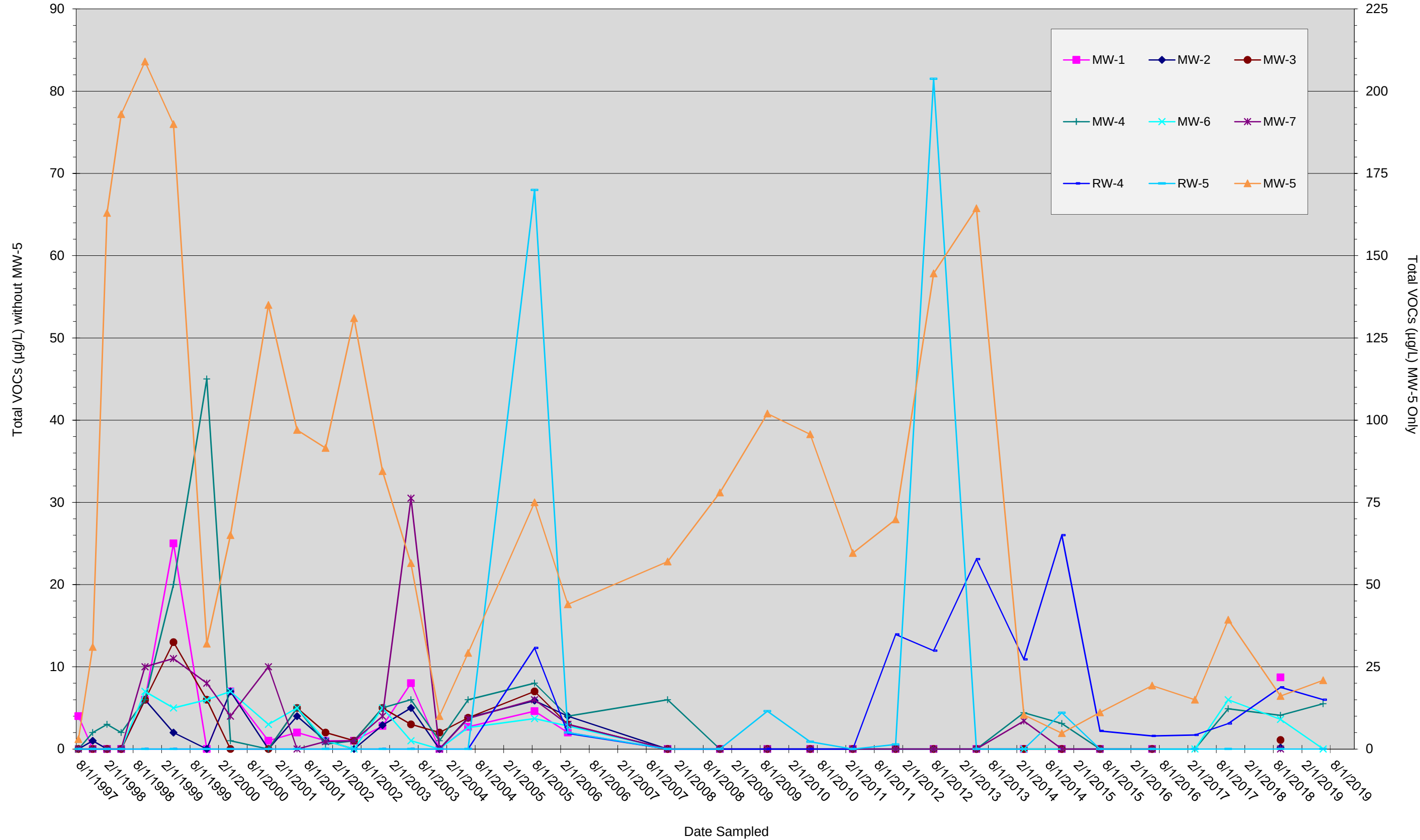




Figure 3.1b

Monitoring Well Concentrations - Total SVOCs

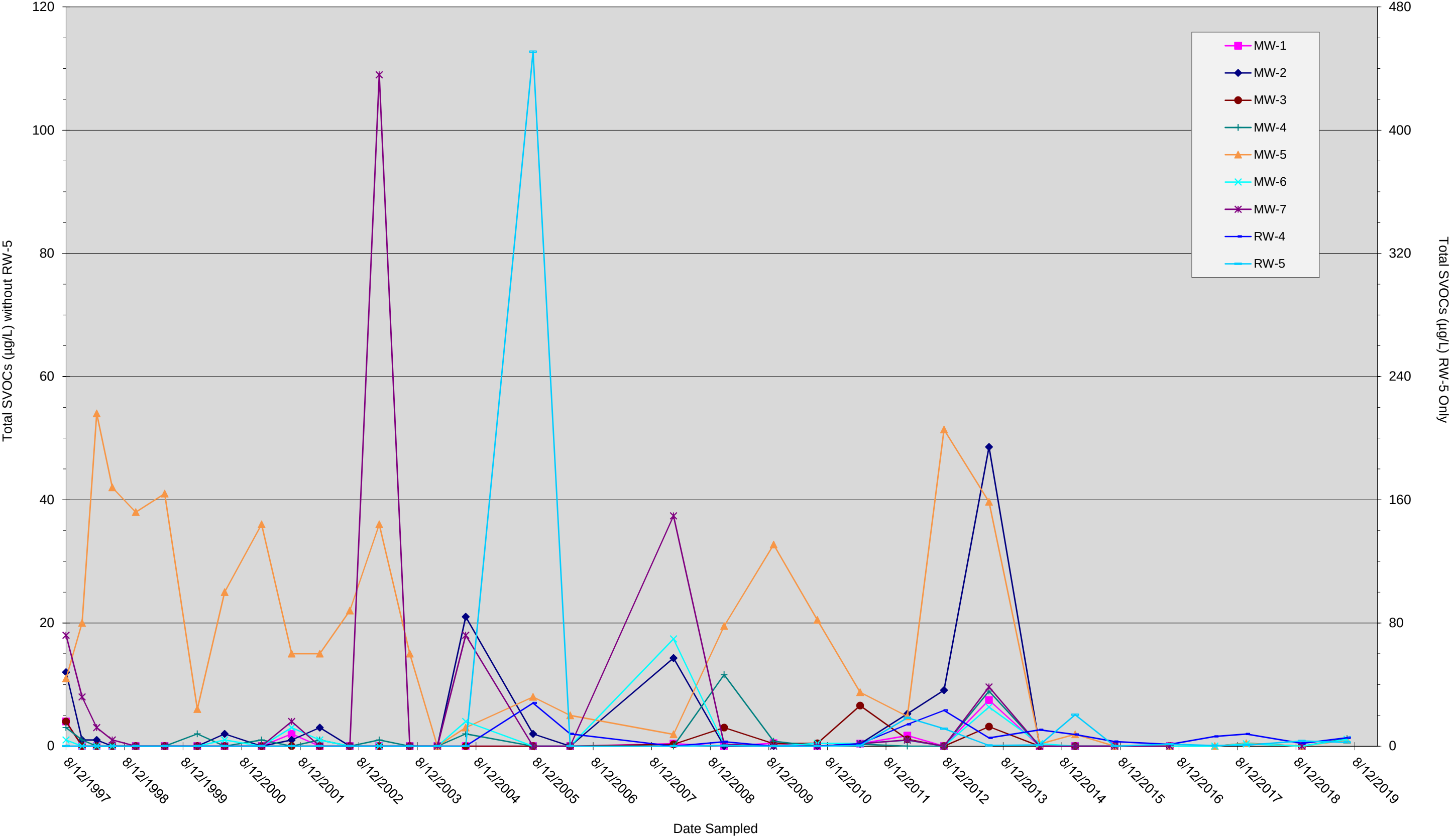


Figure 3.1c

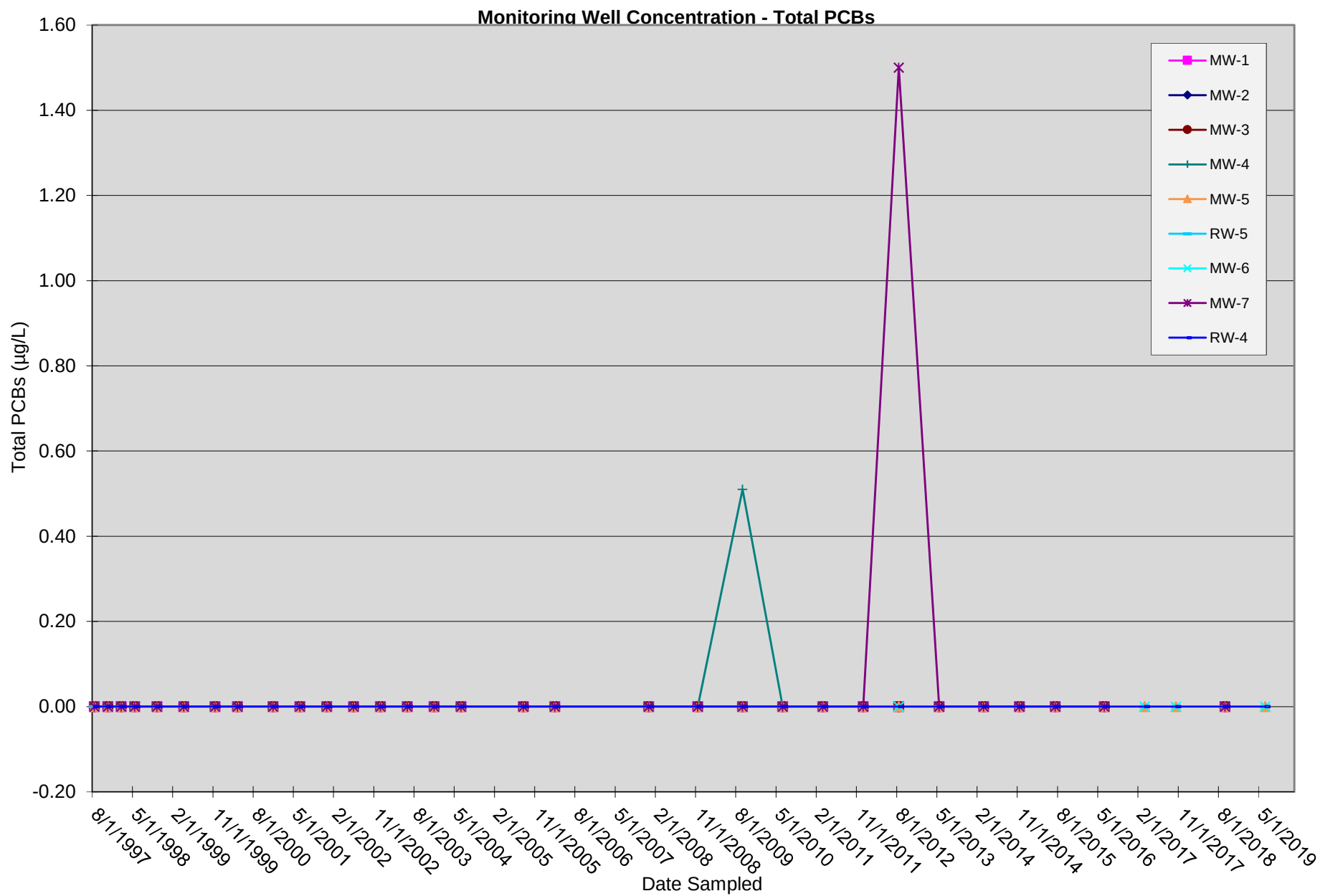


Figure 3.1d

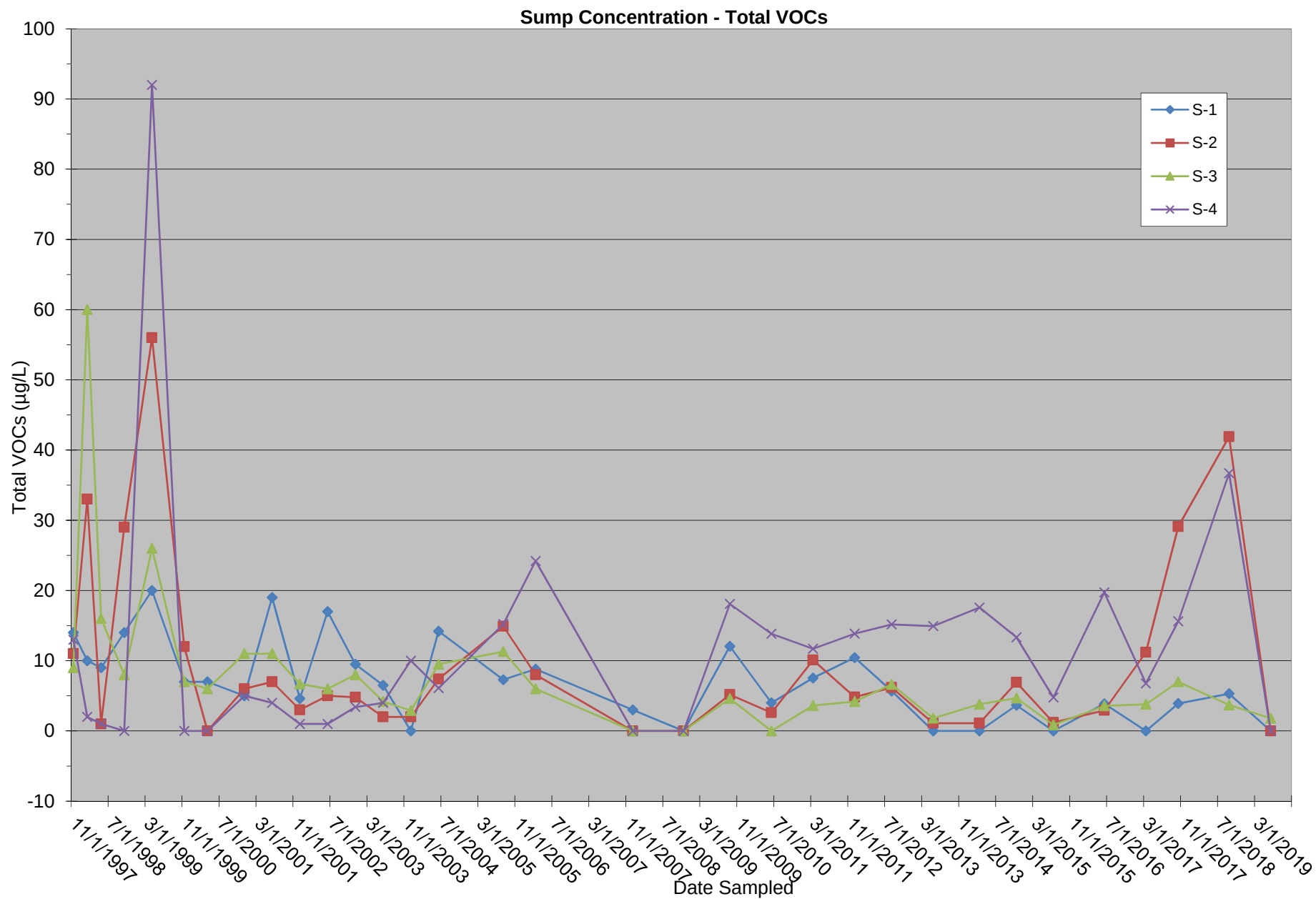




Figure 3.1e

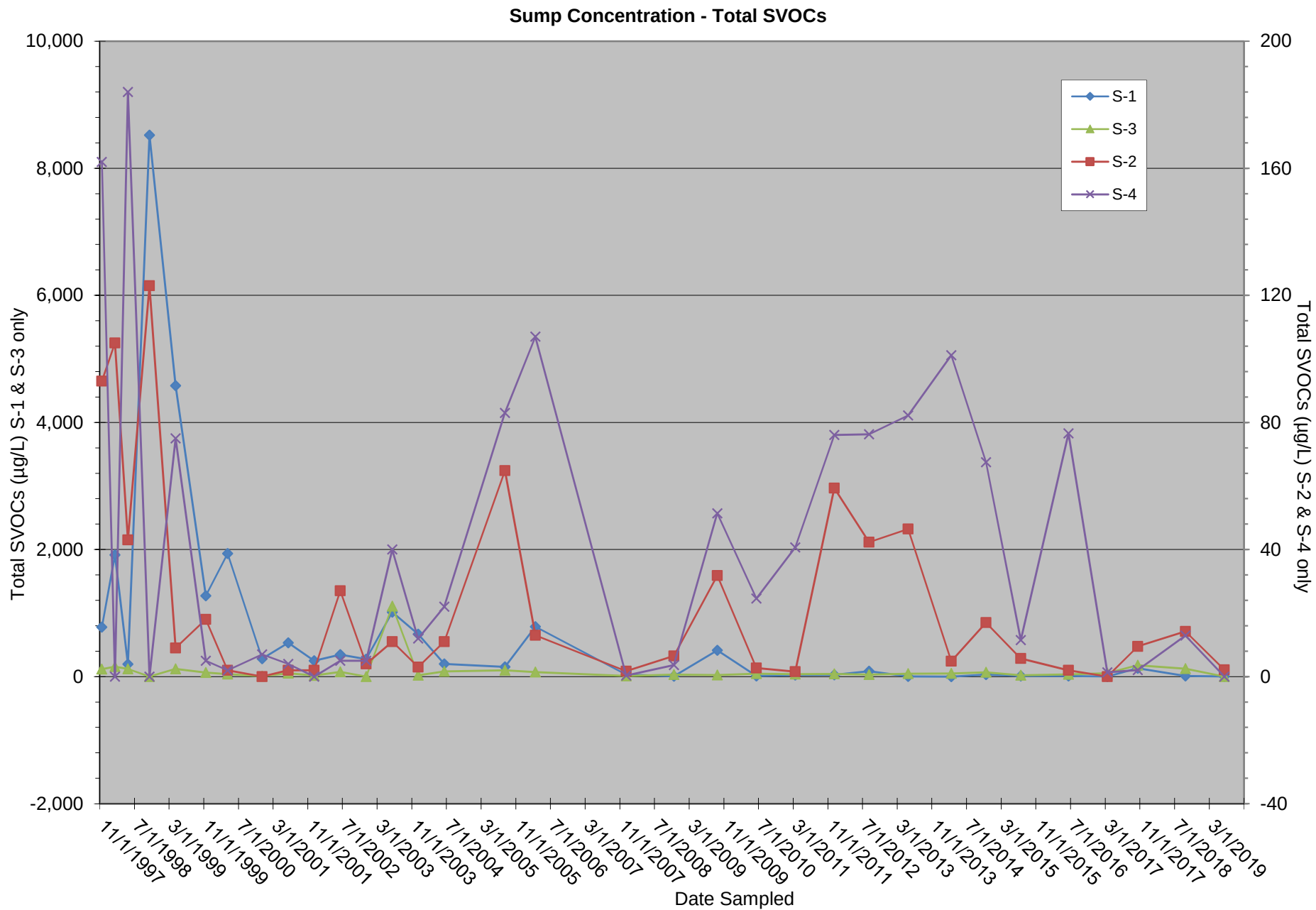


Figure 3.1f

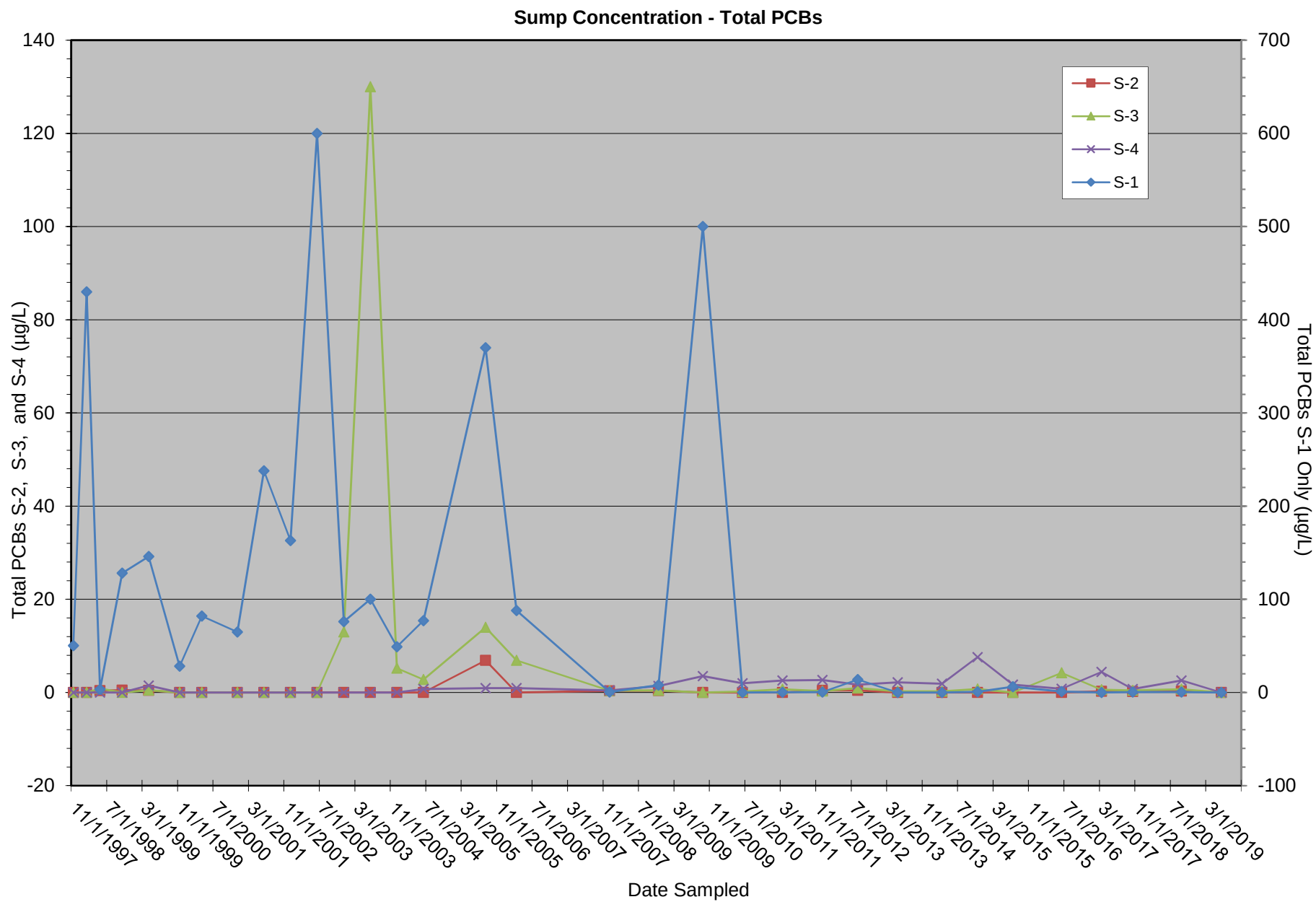


Figure 3.1g

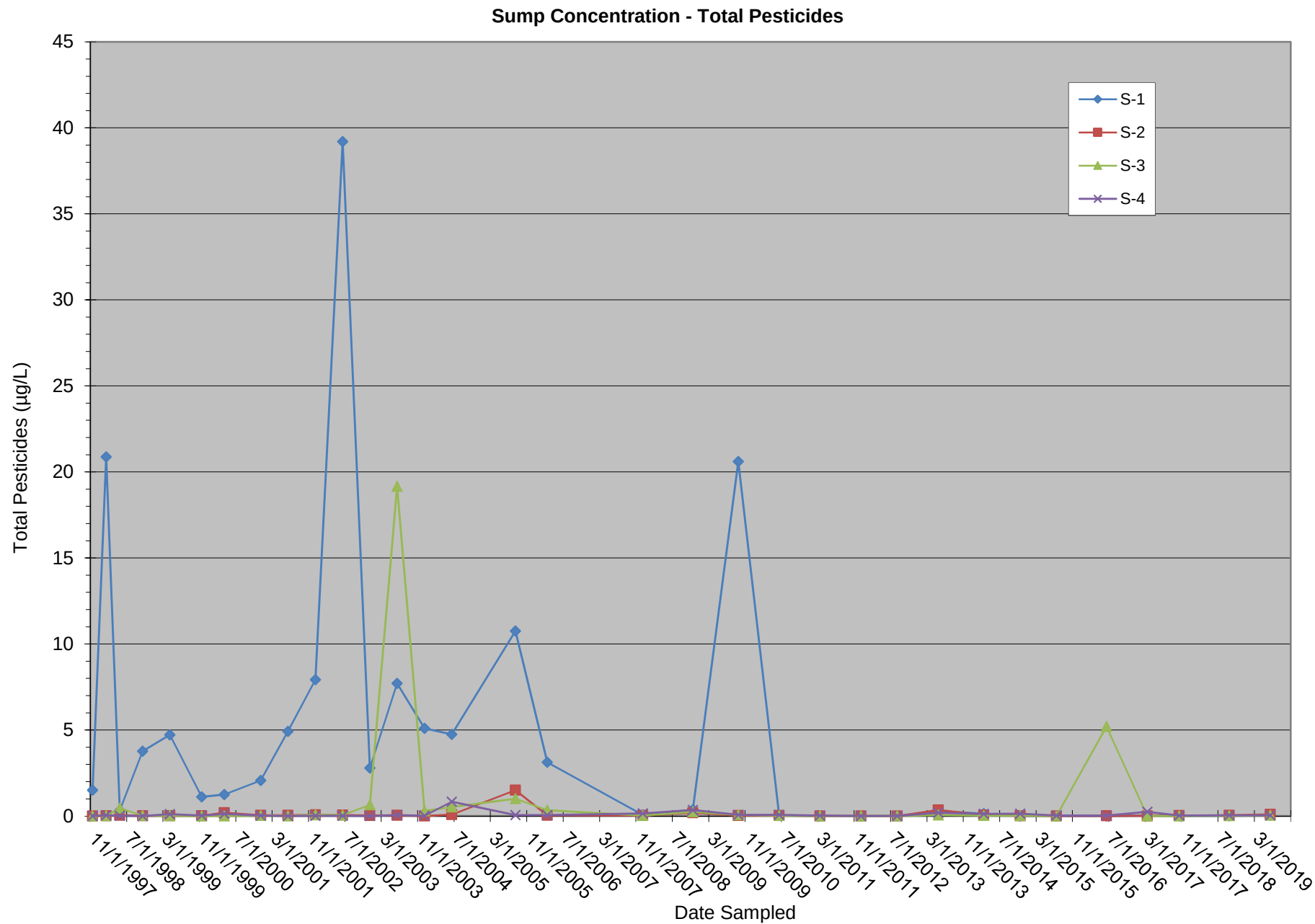


Figure 3.1h

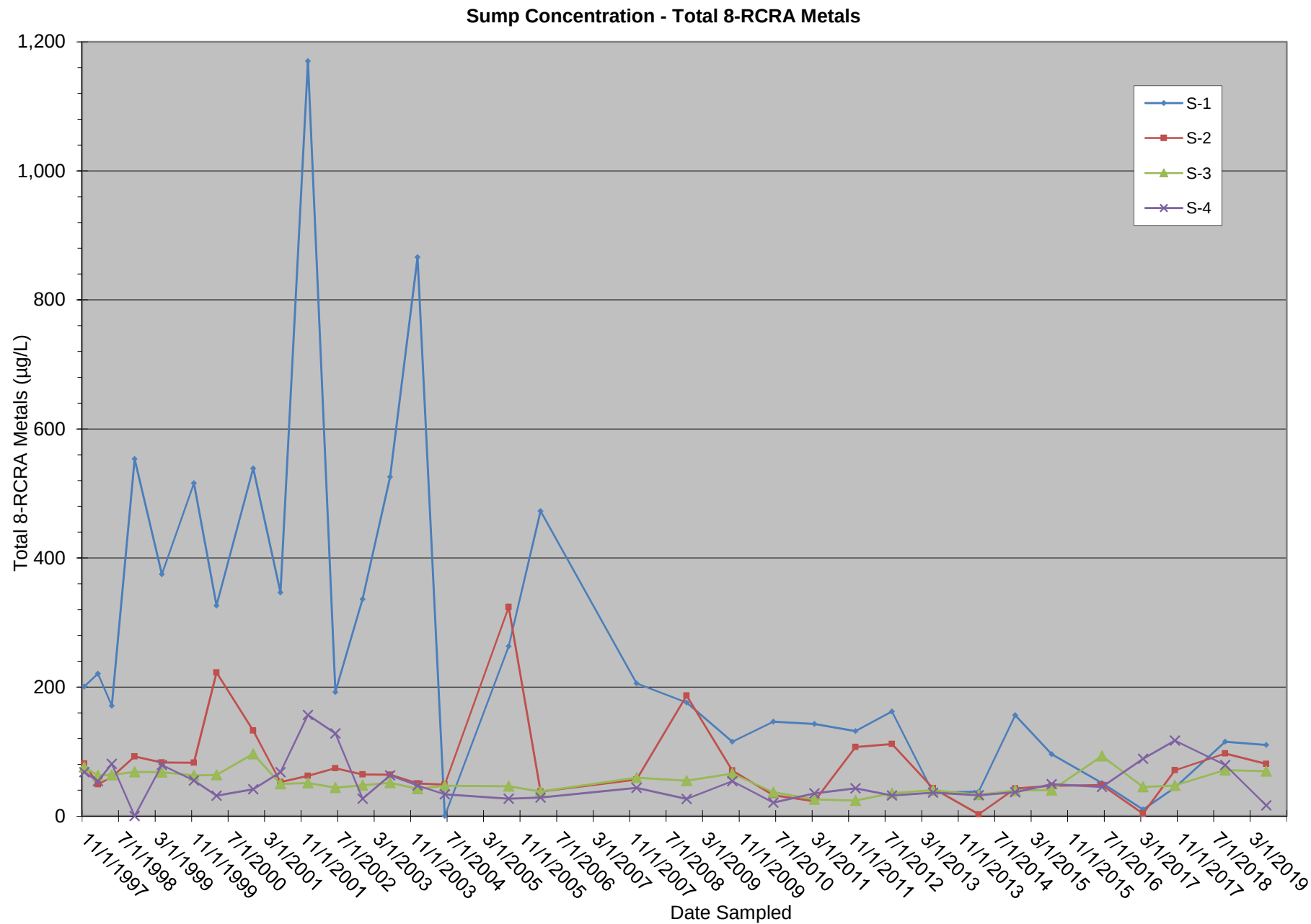




Figure 3.2a

Monitoring Well Trends - Total VOCs

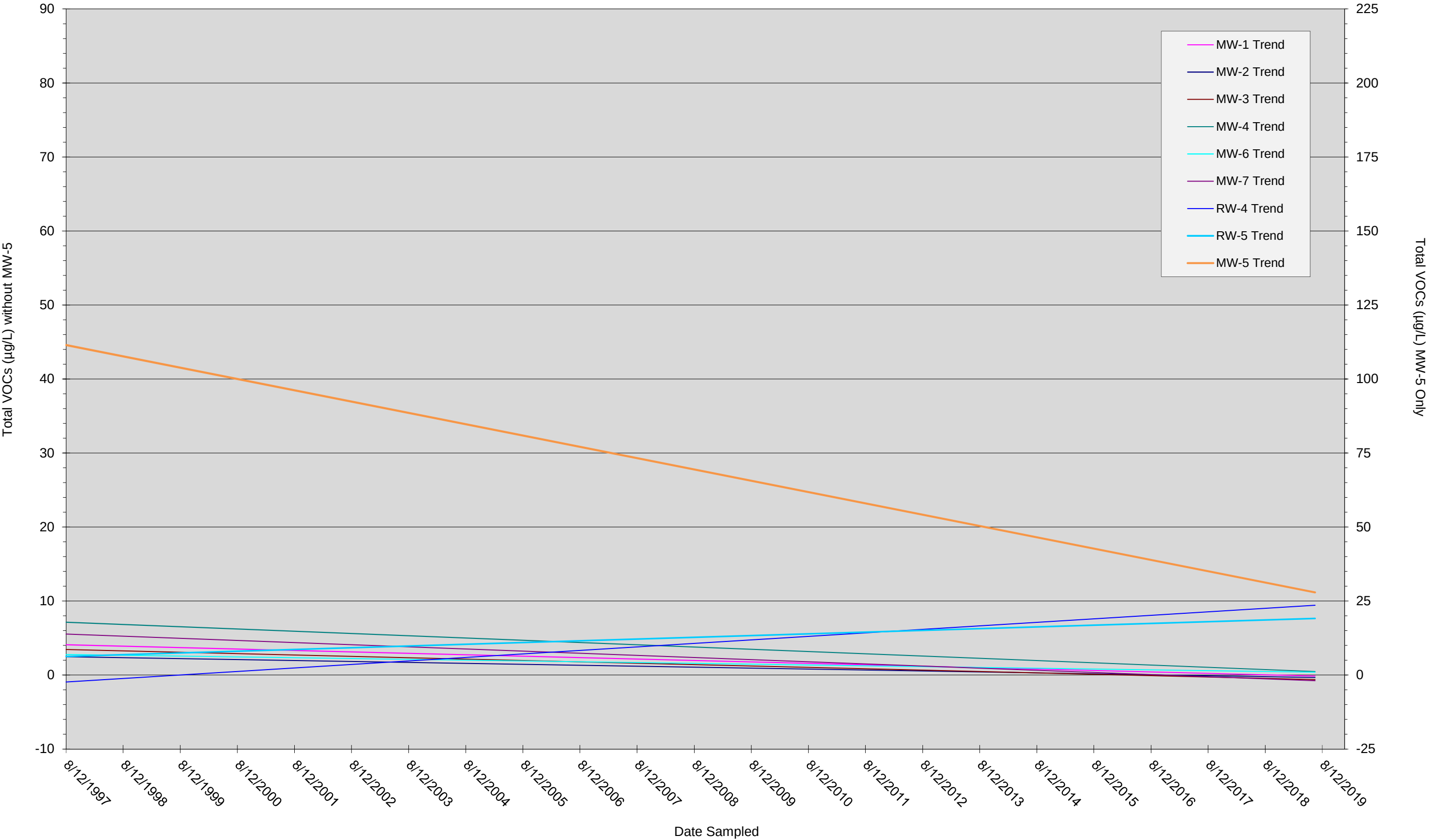




Figure 3.2b

Monitoring Well Trends - Total SVOCs

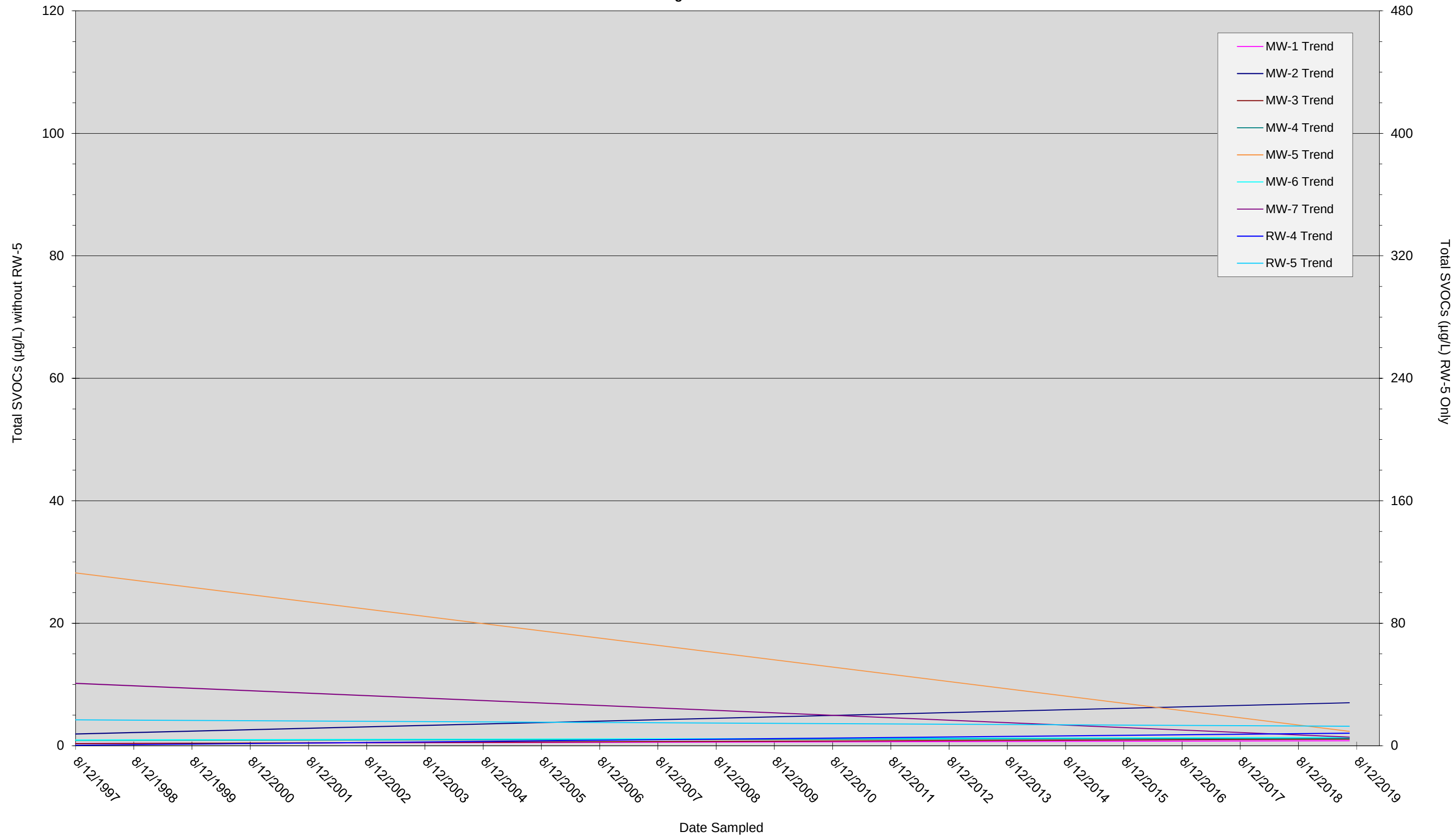
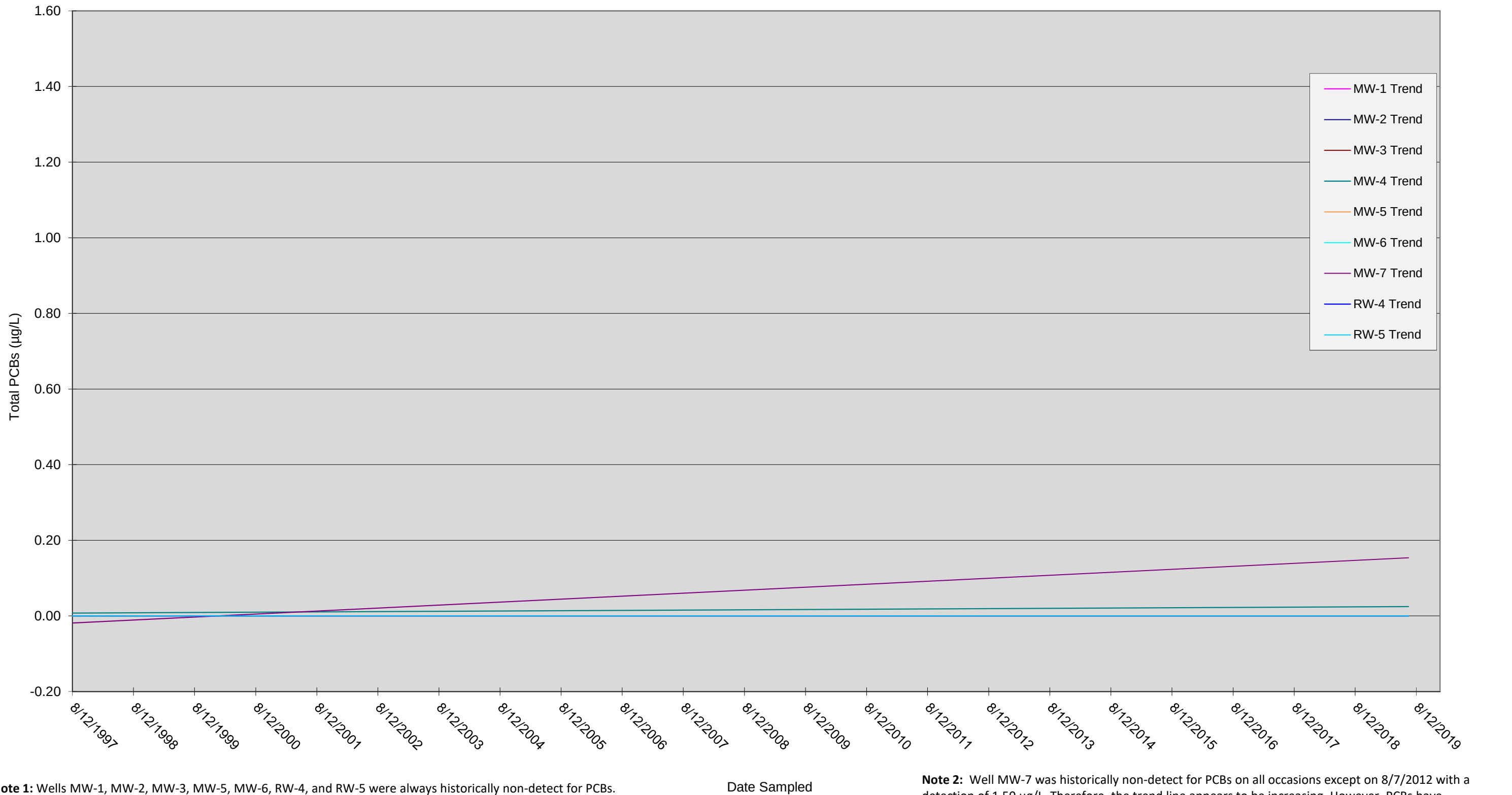




Figure 3.2c

Monitoring Well Trend - Total PCBs



Note 1: Wells MW-1, MW-2, MW-3, MW-5, MW-6, RW-4, and RW-5 were always historically non-detect for PCBs. Therefore, the trend line is identical for all wells along the X-axis are the individual trend lines are not visible.

Note 2: Well MW-7 was historically non-detect for PCBs on all occasions except on 8/7/2012 with a detection of 1.50 µg/L. Therefore, the trend line appears to be increasing. However, PCBs have remained below detection limits since the 8/7/2012 sampling event.



Figure 3.2d

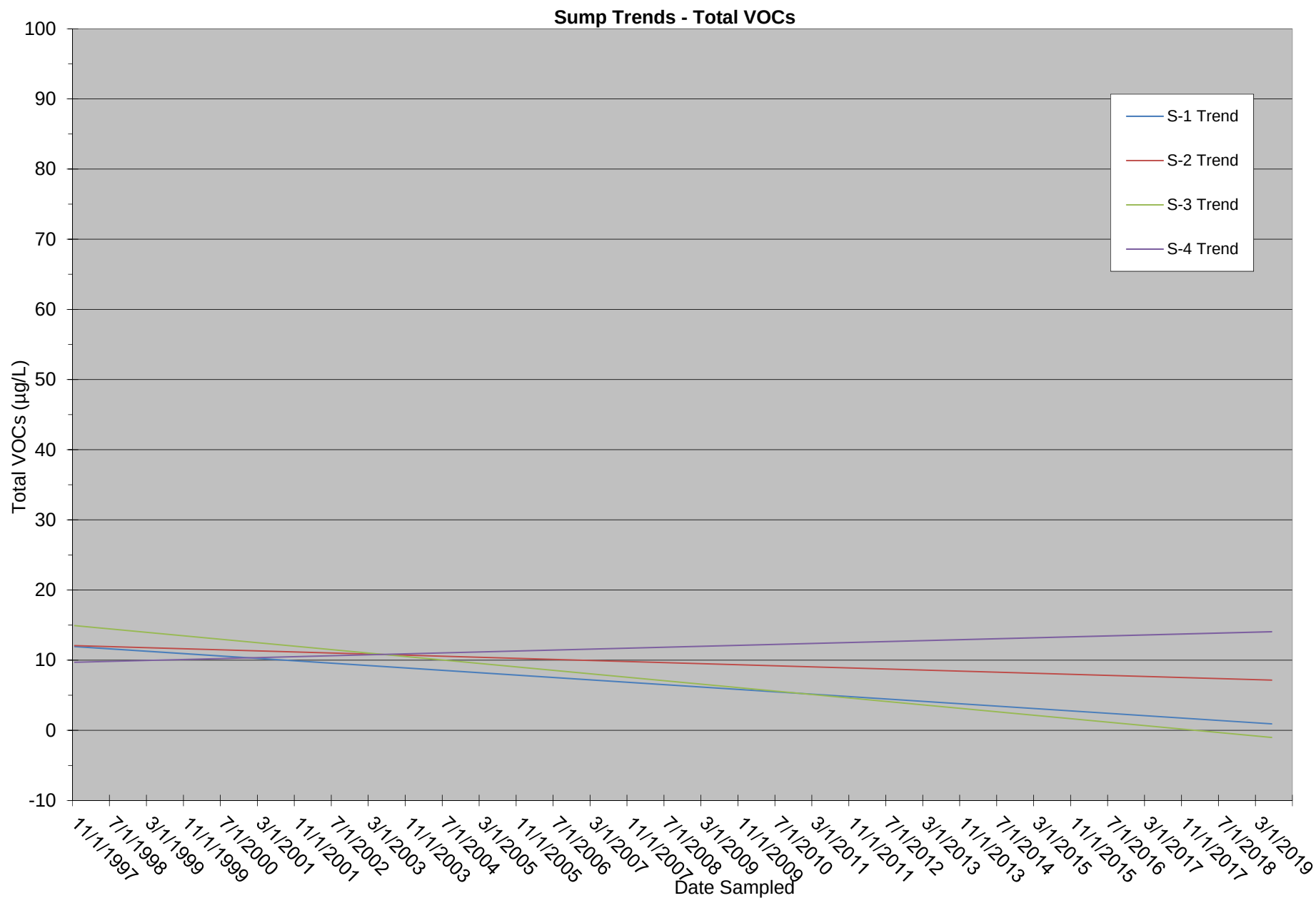




Figure 3.2e

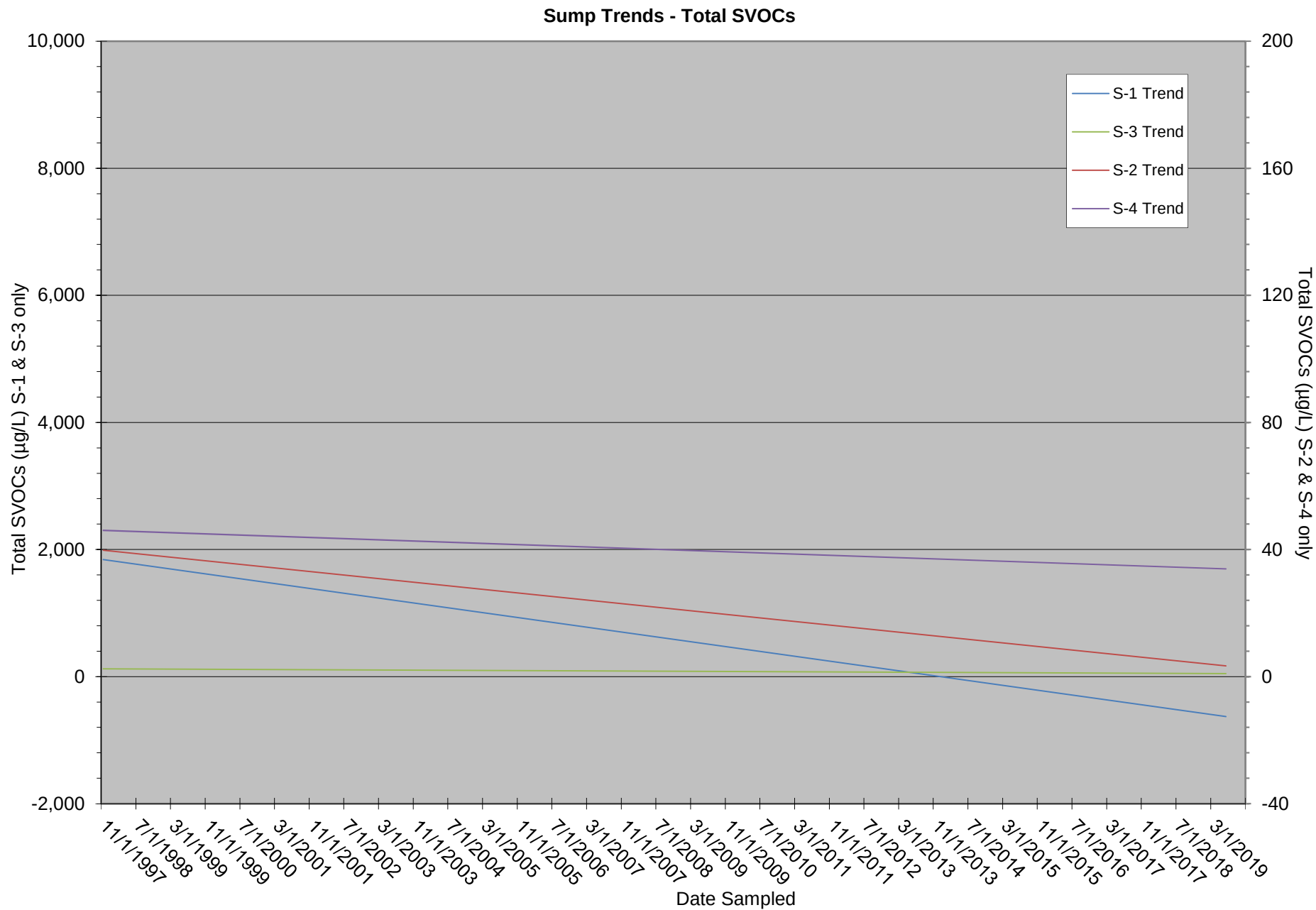


Figure 3.2f

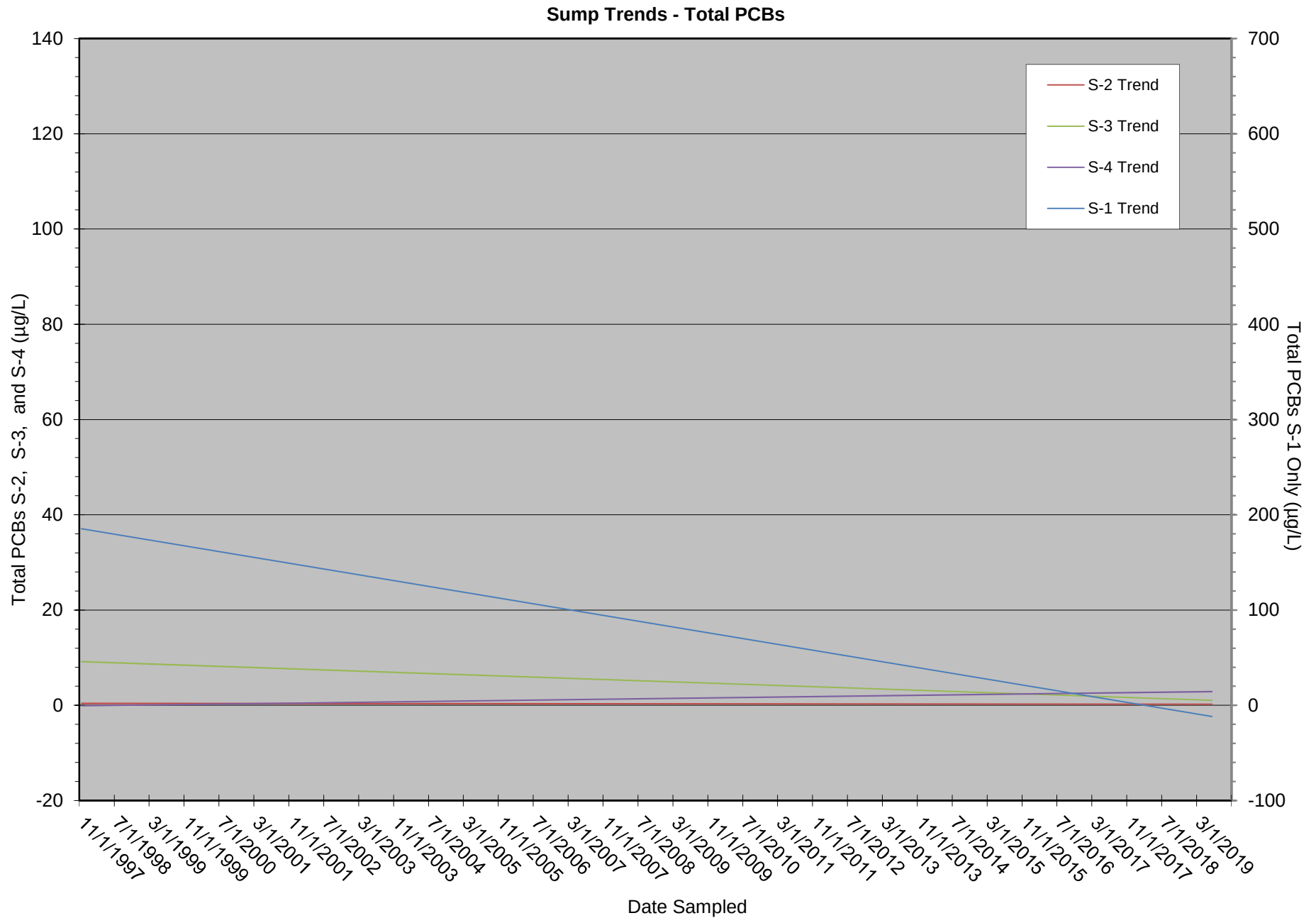
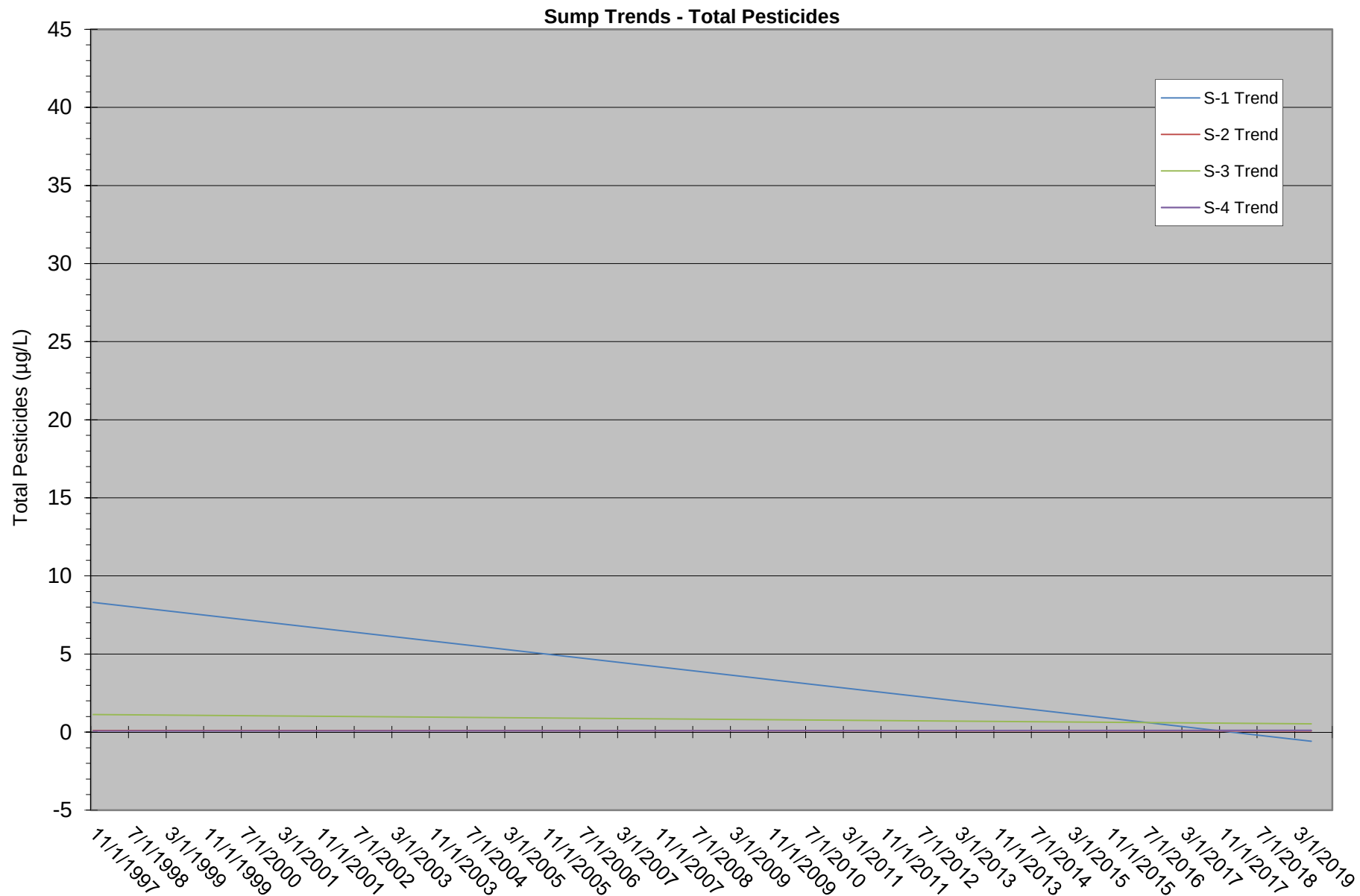




Figure 3.2g

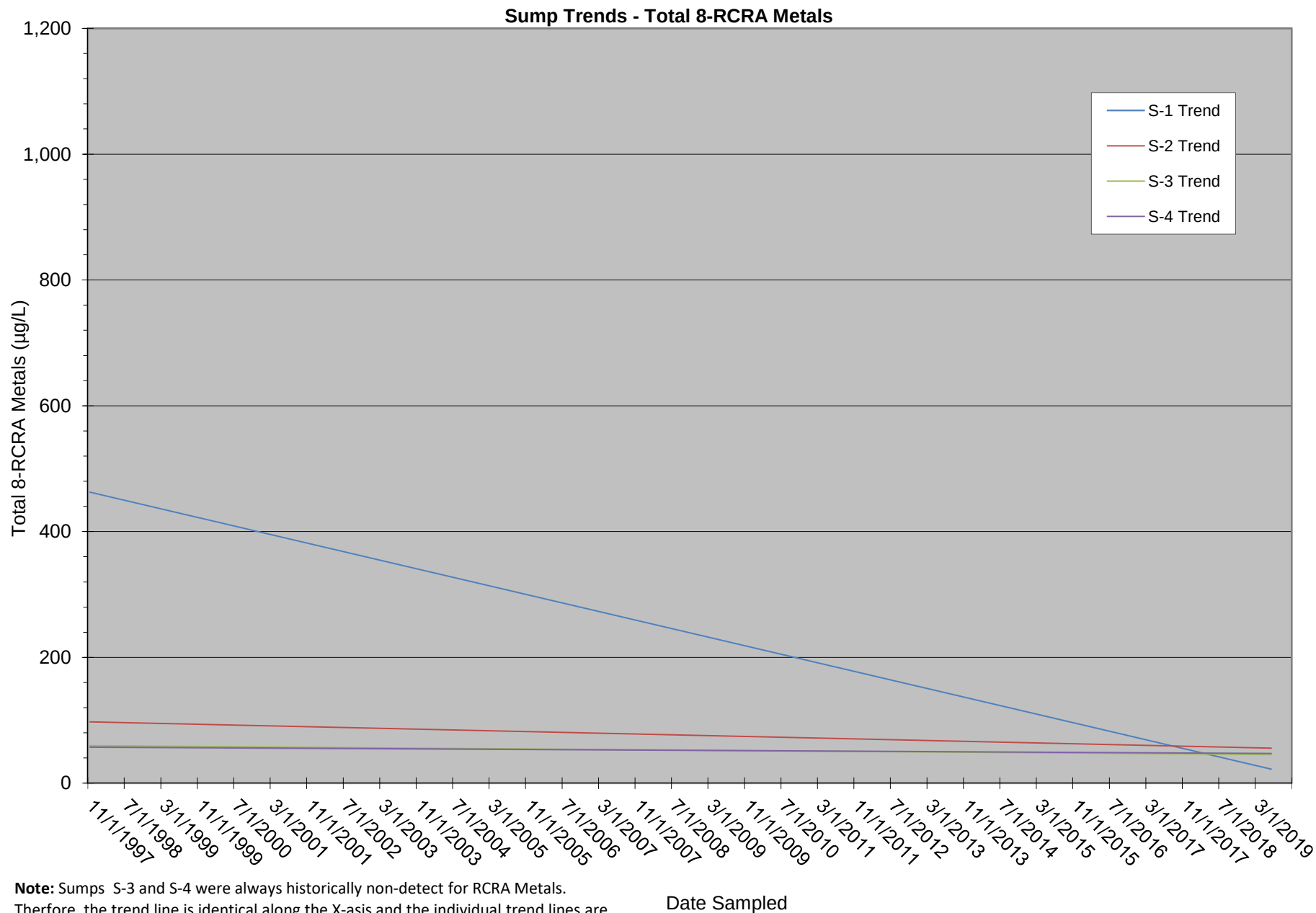


Note: Sumps S-2 and S-4 were always historically non-detect for Pesticides. Therefore, the trend line is identical along the X-axis and the individual trend lines are not visible.

Date Sampled

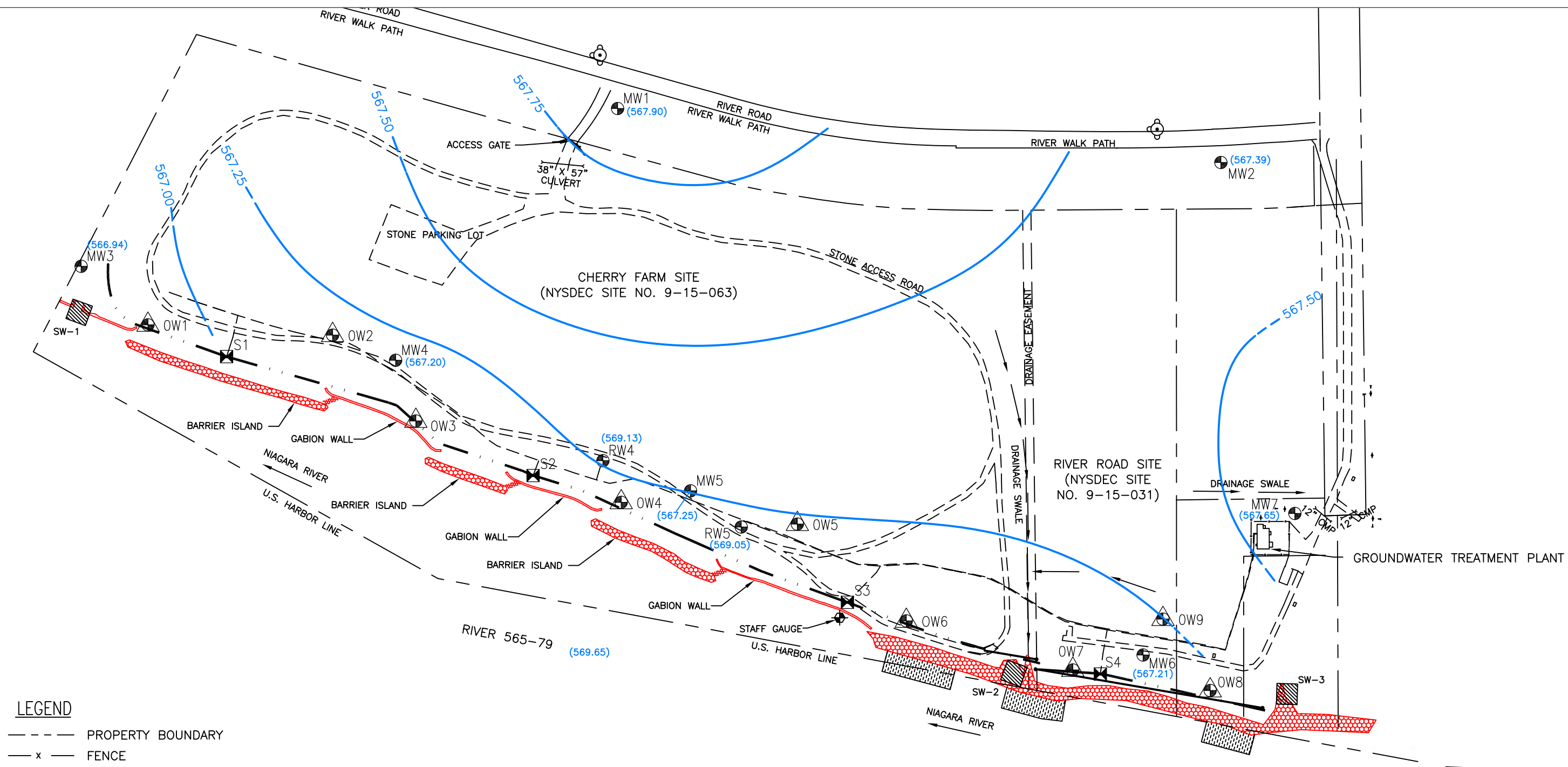


Figure 3.2h



Note: Sumps S-3 and S-4 were always historically non-detect for RCRA Metals. Therefore, the trend line is identical along the X-axis and the individual trend lines are not visible.

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LEGEND

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- ☒ TRENCH SUMP
- ⊕ MONITORING WELL
- ⚠ OBSERVATION WELL
- . - SHALLOW GROUNDWATER TRENCH
- - - GROUNDWATER CONVEYANCE PIPING
- (569.65) GROUNDWATER ELEVATION (feet NGVD)
- ~ GROUNDWATER CONTOUR (feet NGVD)
DASHED WHERE INFERRED
- NGVD NATIONAL GEODETIC VERTICAL DATUM 1929
- NOT MEASURED

NOTE:
RW4 AND RW5 WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.

Groundwater Contour Map
June 24, 2019

Cherry Farm
(River Road Site)
4100 River Road
Tonawanda, New York

Drawn
W.G.S.
Designed
J.T.
Approved
T.P.

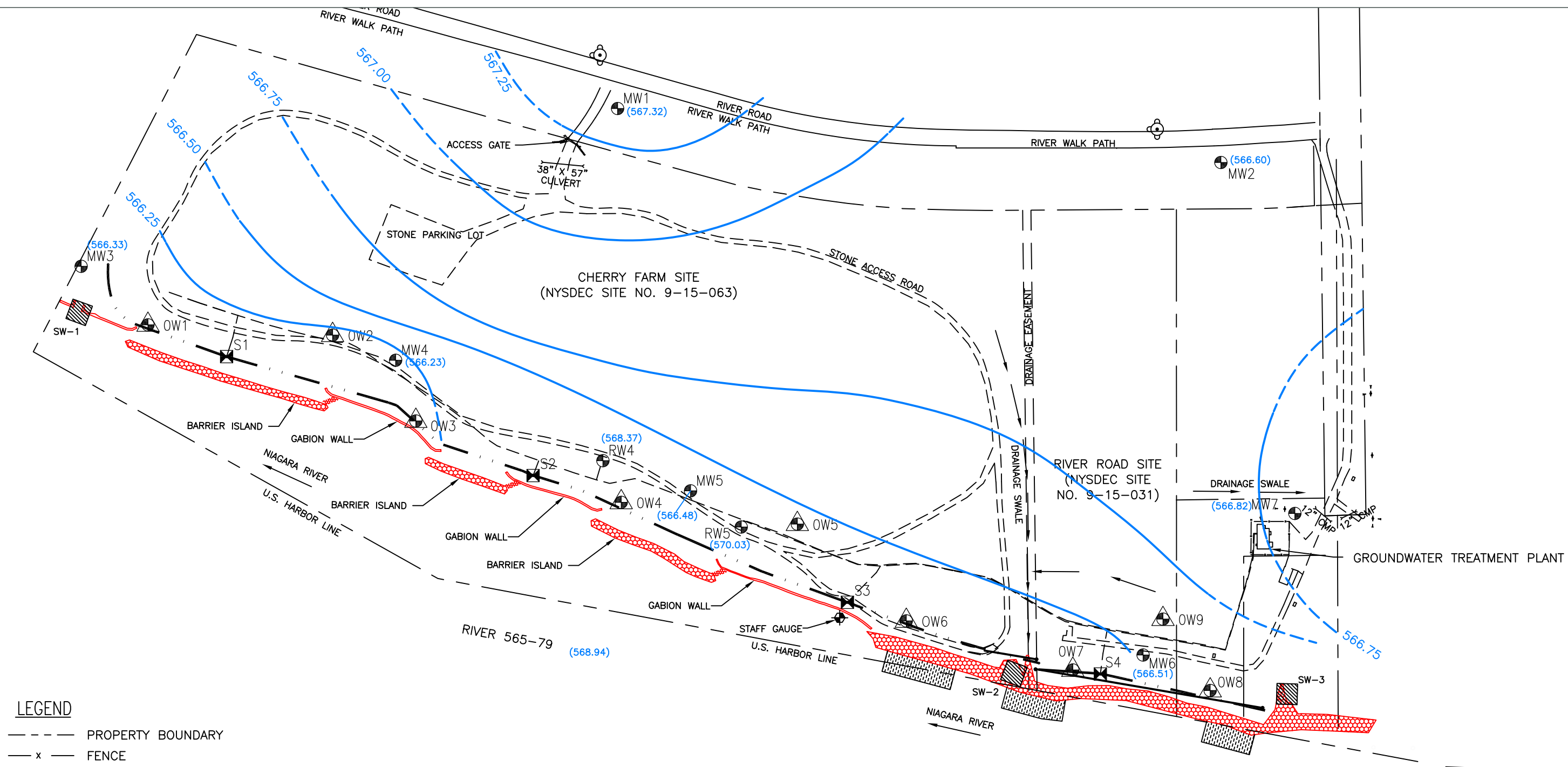
Date
2/10/20
Figure
3.3b

Scale In Feet
0 250



Groundwater & Environmental Services, Inc.

M:\Graphics\09000-Buffalo\Misc\Cherry Farms\Tonawanda\Cherry Farms (Tonawanda) SM.dwg, B250 sm, WIShea



Groundwater Contour Map
September 30, 2019

Cherry Farm
(River Road Site)
4100 River Road
Tonawanda, New York

Drawn
W.G.S.
Designed
C.M.
Approved
T.P.

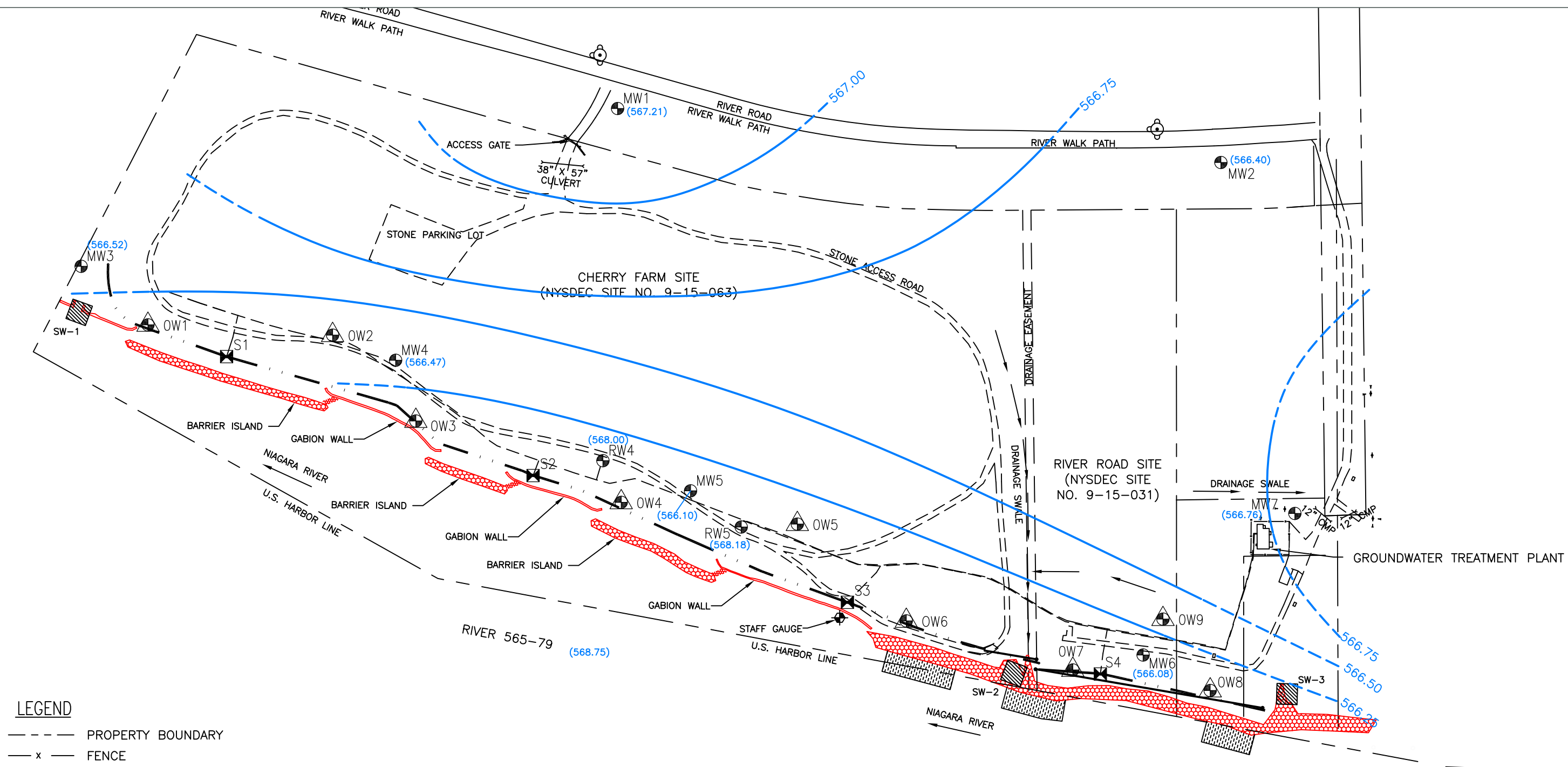
Date
2/10/20
Figure
3.3c



Scale In Feet
0 250



M:\Graphics\09000-Buffalo\Misc\Cherry Farms (Tonawanda)\SM.dwg, B250 sm, WIShea



LEGEND

- PROPERTY BOUNDARY
- x - FENCE
- ☒ TRENCH SUMP
- ⊕ MONITORING WELL
- ⚠ OBSERVATION WELL
- . - SHALLOW GROUNDWATER TRENCH
- - - GROUNDWATER CONVEYANCE PIPING
- (568.75) GROUNDWATER ELEVATION (feet NGVD)
- ~ GROUNDWATER CONTOUR (feet NGVD)
DASHED WHERE INFERRED
- NGVD NATIONAL GEODETIC VERTICAL DATUM 1929
- NOT MEASURED

NOTE:

RW4 AND RW5 WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.

Groundwater Contour Map
December 16, 2019

Cherry Farm
(River Road Site)
4100 River Road
Tonawanda, New York

Drawn
W.G.S.
Designed
C.M.
Approved
T.P.

Date
2/10/20
Figure
3.3d



Scale In Feet
0 250





Figure 3.4a

Monitoring Well Hydrograph (2015-2019) MW-1, MW-2, MW-3, and Staff Gauge

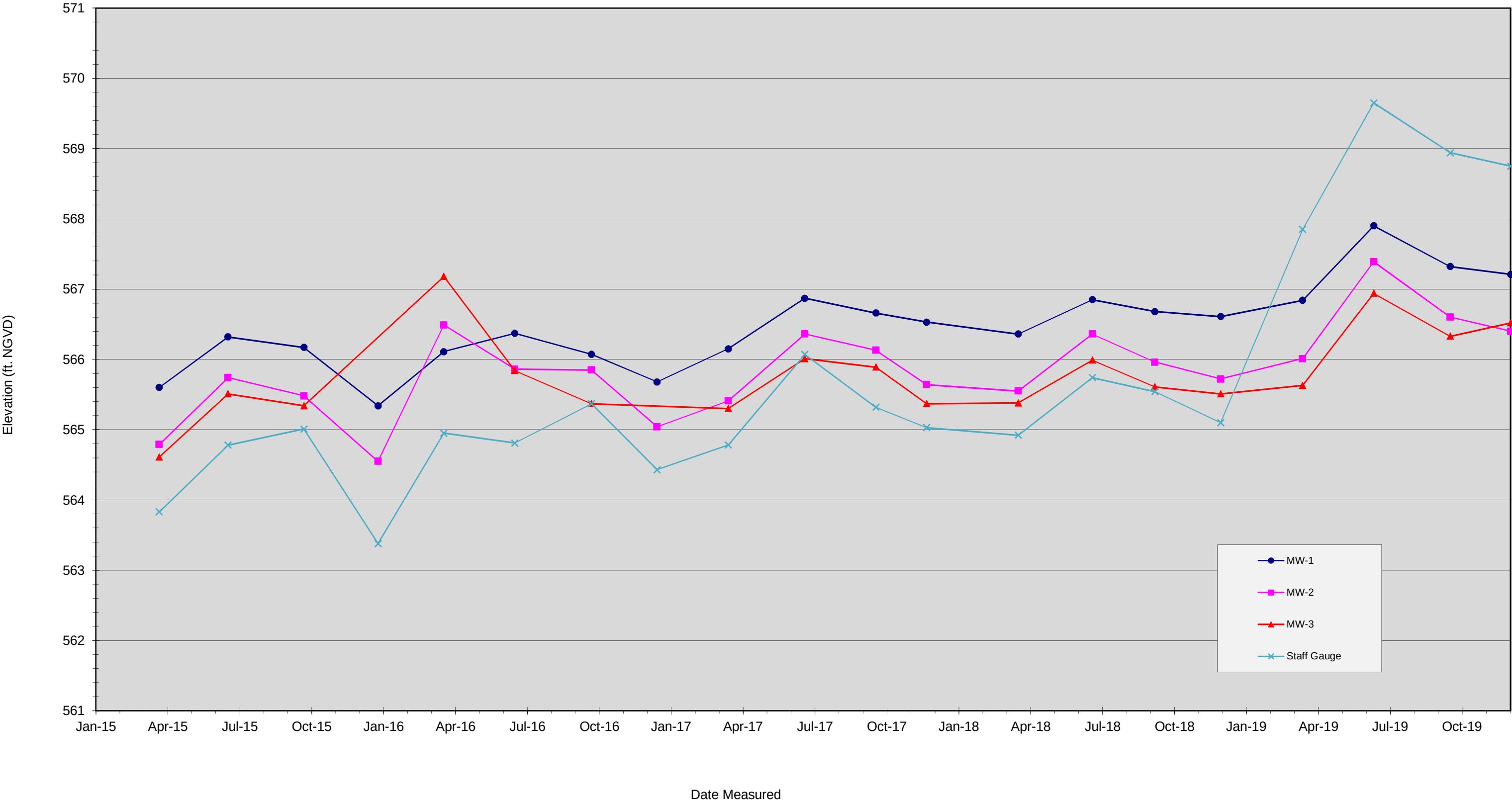




Figure 3.4b

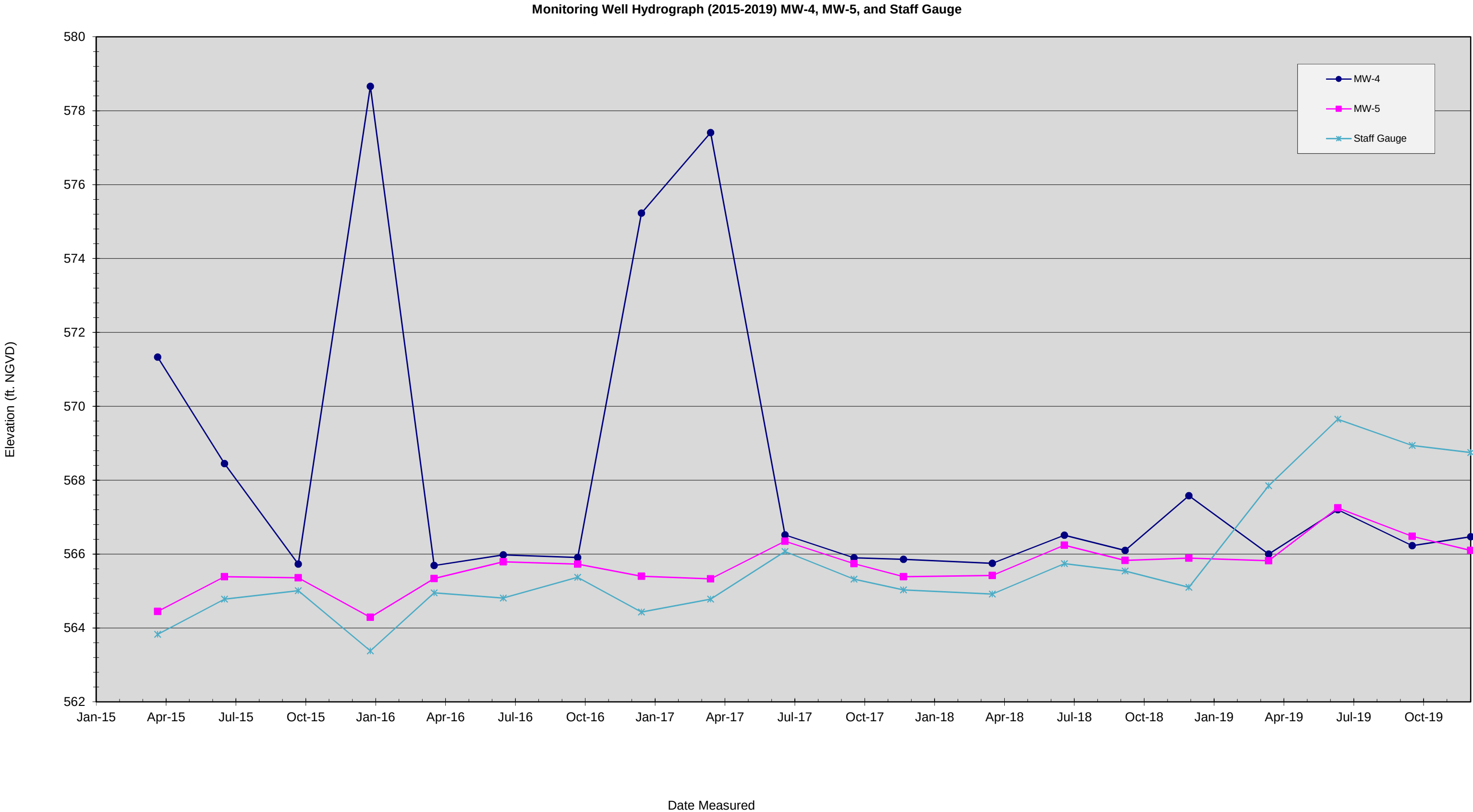




Figure 3.4c

Monitoring Well Hydrograph (2015-2019) MW-6, MW-7, and Staff Gauge

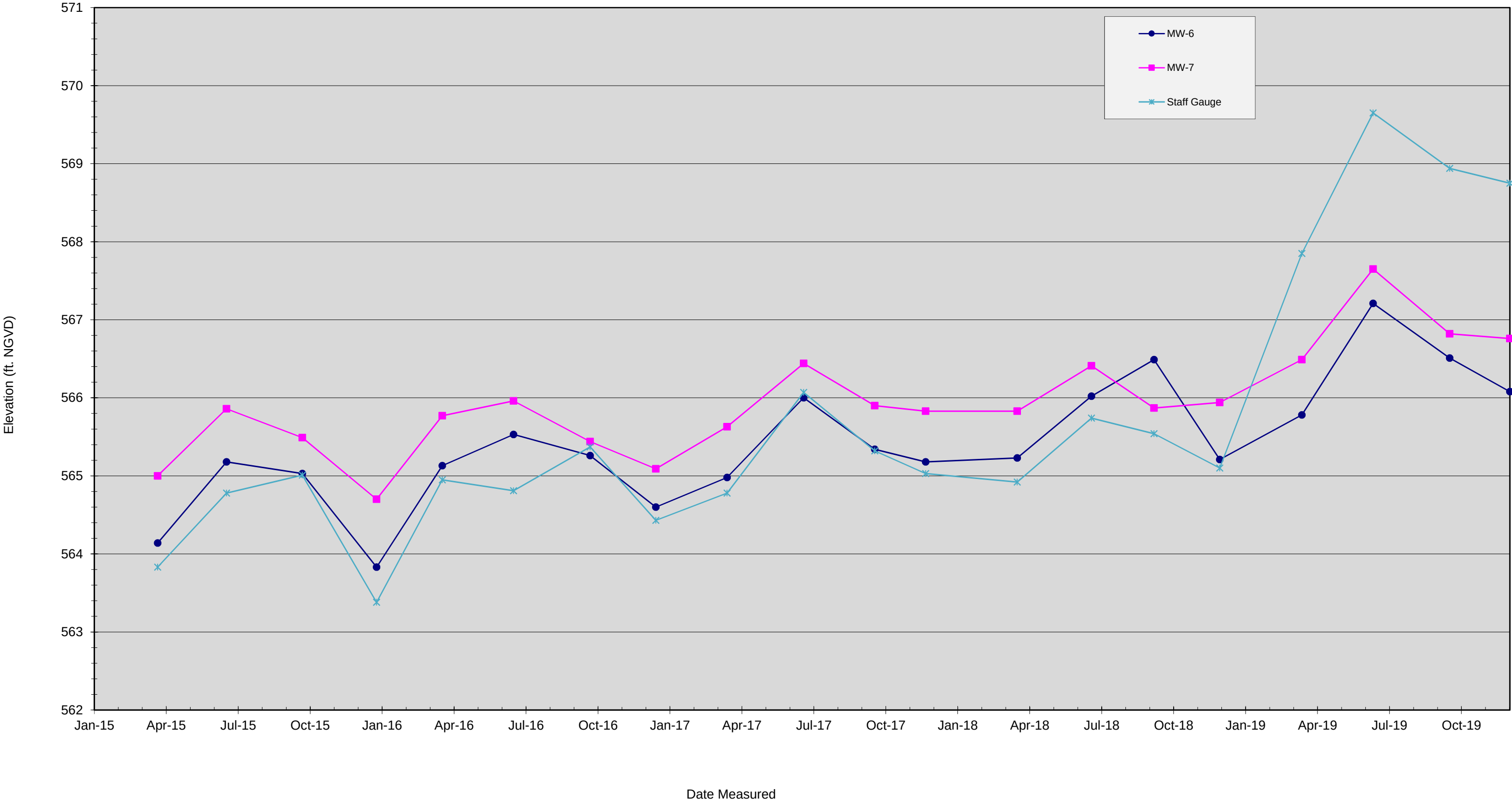




Figure 3.4d

Monitoring Well Hydrograph (2015-2019) RW-4, RW-5, and Staff Gauge

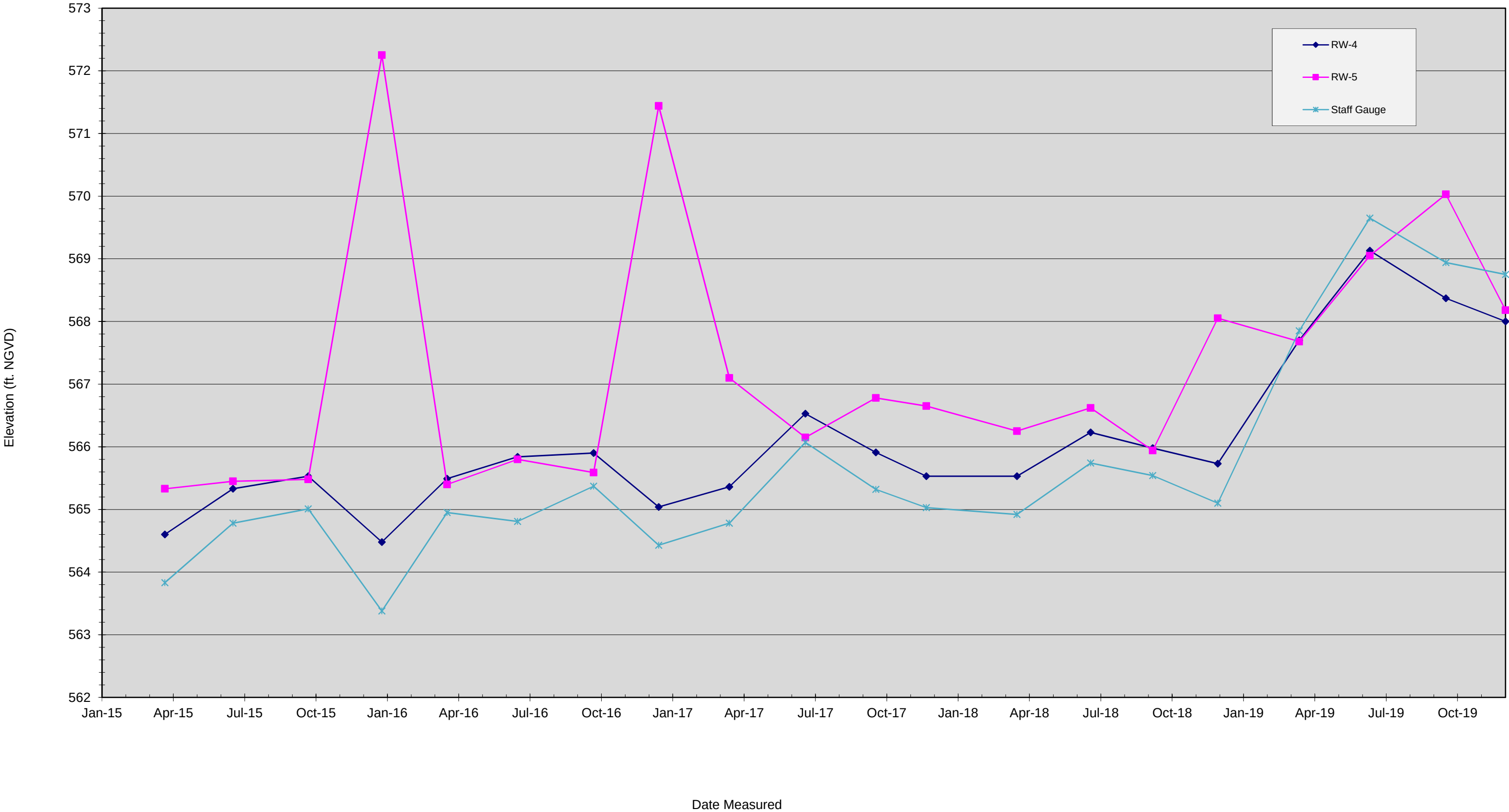




Figure 3.5a

Sump Hydrograph (2015-2019) S-1, S-2, S-3, S-4, and Staff Gauge

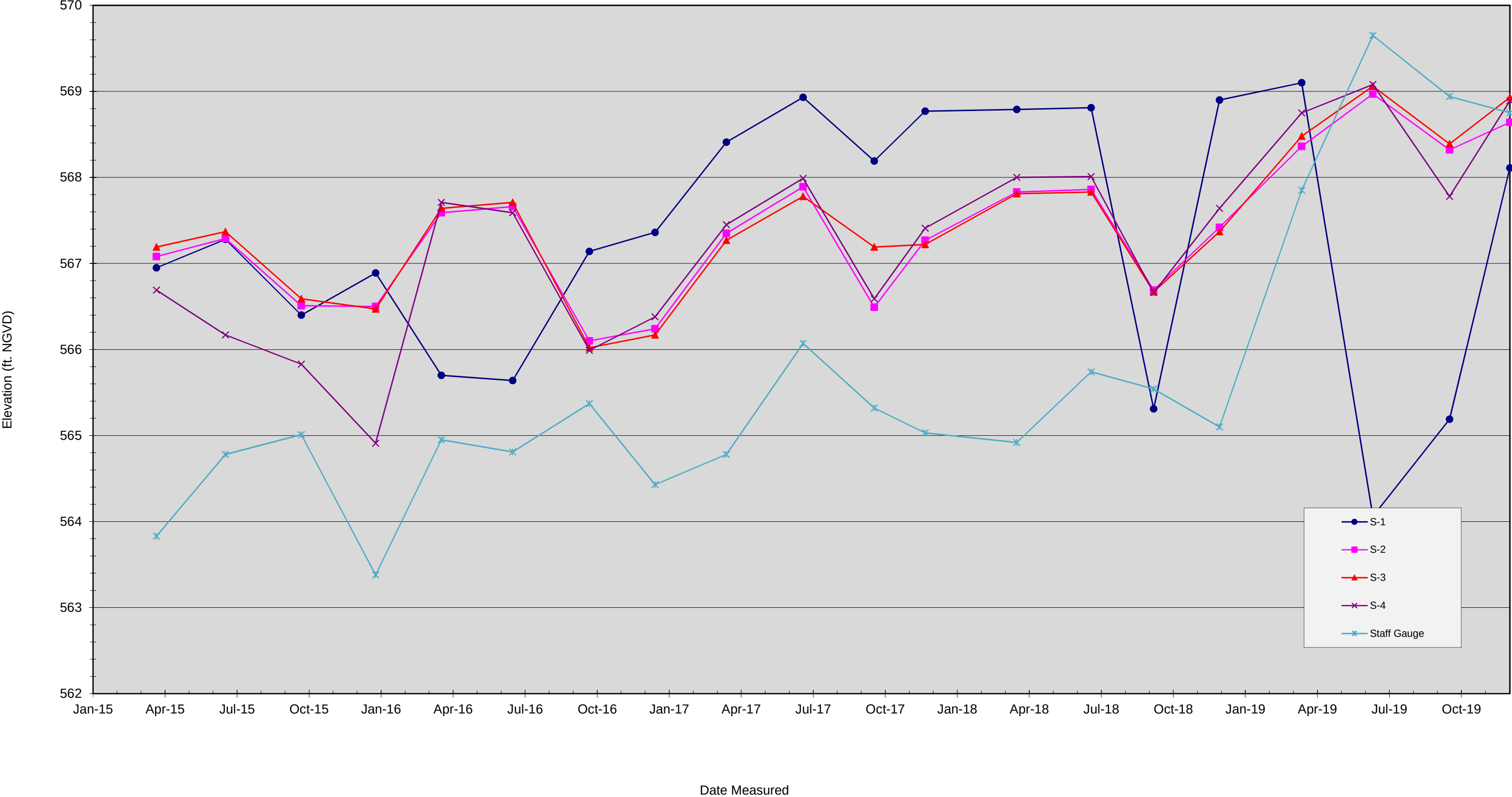




Figure 3.5b

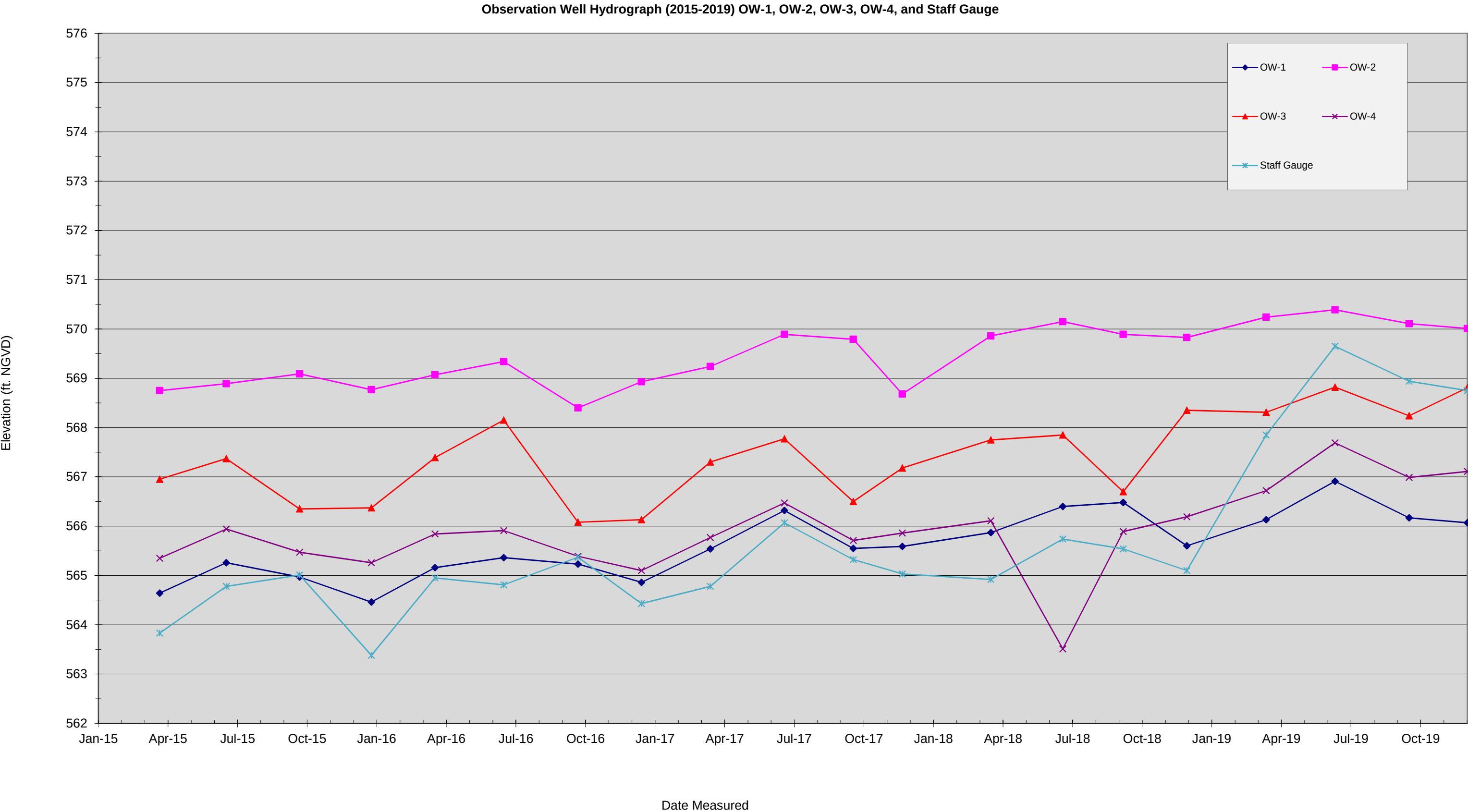
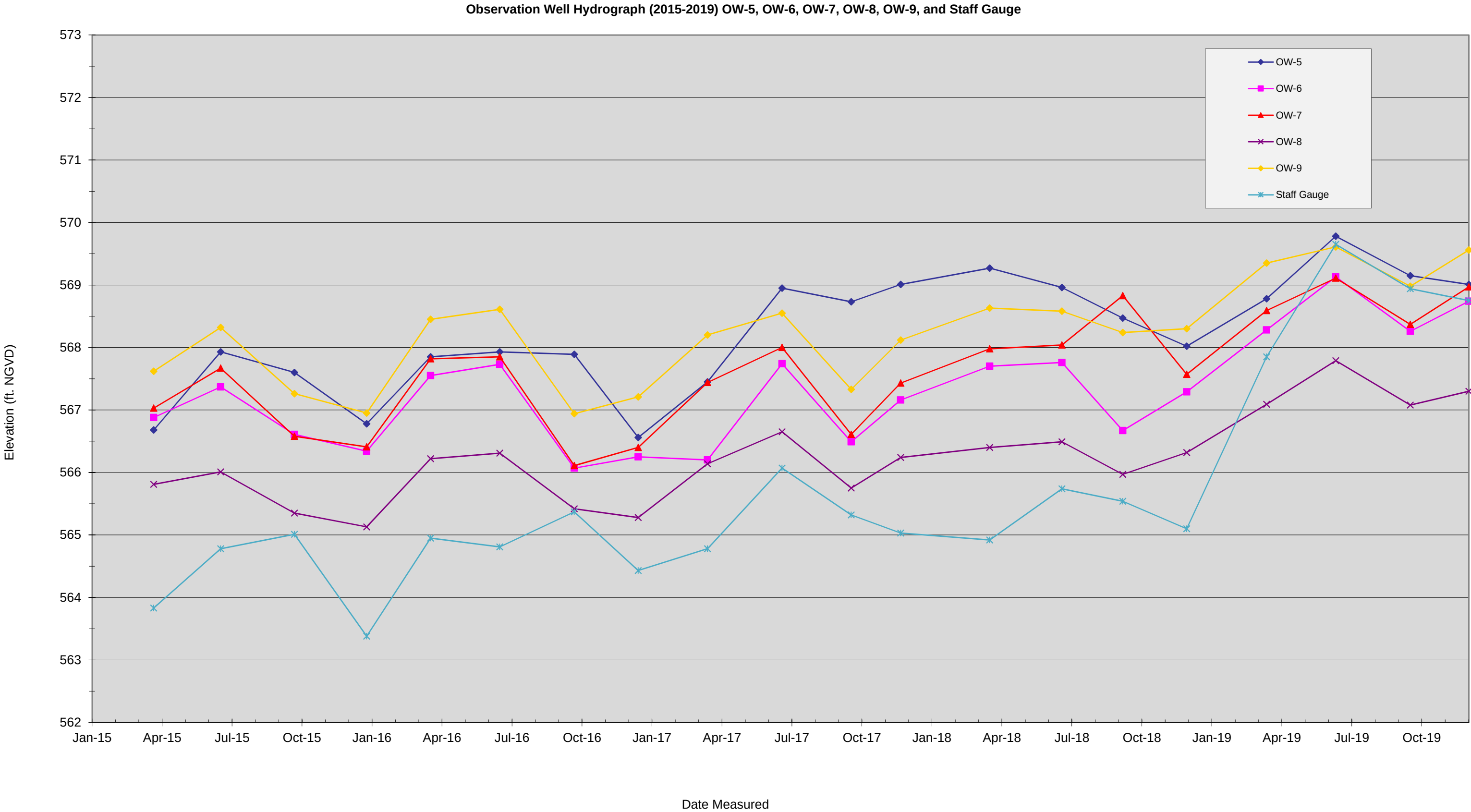




Figure 3.5c





Tables



Table 2.1

Institutional and Engineering Controls Summary
Cherry Farm

Controls for Cherry Farm	Description	Monitoring Program	Monitoring Frequency	Deficiencies	Corrective Measures
Building Use Restriction	Restrictions on building construction/use to prevent activities that would intrude into wastes or otherwise diminish the effectiveness of the cap/remedy.	Monitored during routine site visits and cap inspections.	Weekly and Semi-Annually	None Noted	NA
Land Use Restriction	Restrictions on land use to prevent activities that would intrude into wastes or otherwise diminish the effectiveness of the remedy.	Monitored during routine site visits and cap inspections.	Weekly and Semi-Annually	None Noted	NA
Monitoring Plan	A long-term monitoring program was instituted since hazardous waste remains untreated on site. The program monitors the effectiveness of the remedy and allows for evaluation of the need for continued shallow groundwater collection and treatment.	Water level measurements of groundwater monitoring wells, observation wells, sumps, and the Niagara River. Shallow and deep groundwater sampling of groundwater monitoring wells, sumps, and surface water.	Quarterly water level measurements and annual groundwater sampling.	None Noted	NA
O&M Plan	The O&M program includes post-remedial construction activities that will be conducted to ensure the effectiveness of the shallow groundwater collection system and surface water management program. The program describes groundwater and surface water monitoring, cover and drainage system inspections, reporting requirements and emergency response procedures. It also includes standard operating procedures for operation of the shallow groundwater collection and treatment system.	Monitored during routine site visits.	O&M Plan and SOPs are reviewed/ updated annually.	None Noted	NA

Table 2.1

Institutional and Engineering Controls Summary
Cherry Farm

Controls for Cherry Farm	Description	Monitoring Program	Monitoring Frequency	Deficiencies	Corrective Measures
Cover System	A clay cap, approximately six inches thick, had been installed in the 1970's by NMPC when they purchased the site. A variance was granted for the use of a permeable cover in the Amended ROD, dated 1993. This included the installation of a barrier layer over the site to prevent intrusion into wastes by people or wildlife; and the installation of a soil cover to further separate potentially exposed people and wildlife and to serve as a vegetative support layer.	Monitored during routine site visits and cap inspections.	Weekly and Semi-Annually	None Noted	NA
Fencing/Access Control	To maintain integrity of the cover system, access to the site will be restricted by maintaining a locked gate at the site entrance. As stated in the Amended ROD, dated 1993, fencing would not be installed around the site as part of the remedy.	Monitored during routine site visits and cap inspections.	Weekly and Semi-Annually	None Noted	NA
Leachate Collection	Leachate collection to be accomplished through shallow groundwater collection trench and subsequent treatment via OWS/carbon treatment.	Monitored during routine gauging and sampling of monitoring wells and sumps.	Quarterly gauging and Annual sampling	None Noted	NA
Groundwater Treatment System	The on-site treatment of shallow groundwater, collected via collection trench, and discharged to local publicly owned treatment works. Shallow groundwater collection and treatment would be required indefinitely unless contaminant concentrations are sufficiently reduced through natural attenuation.	Monitored during routine site visits and with the collection and analyses of treatment system discharge samples. Sampling is completed in accordance with the site specific discharge permit.	Weekly and Monthly	None Noted	NA



Table 2.1a

Institutional and Engineering Controls Summary
River Road

Controls for River Road	Description	Monitoring Program	Monitoring Frequency	Deficiencies	Corrective Measures
Fencing/Access Control	Partial fence to control site access. Chain link fence is located along the eastern property boundary and is restricted by a locked gate at the site entrance.	Monitored during routine site visits and cap inspections.	Weekly and Semi-Annually	None Noted	NA
Cover System	The site is covered by a partly permeable and partly low permeability cover. The low permeability cover is located over the LNAPL plume, which is located along in the western portion of the site, between the southern property boundary and the Cherry Farm cap. The purpose of the caps is to minimize penetration by burrowing animals and provide adequate protection against erosion.	Monitored during routine site visits and cap inspections.	Weekly and Semi-Annually	None Noted	NA
Monitoring Plan	A long-term monitoring program was instituted since hazardous waste remains untreated on site. The program monitors the effectiveness of the remedy and allows for evaluation of the need for continued shallow groundwater collection and treatment.	Water level measurements of groundwater monitoring wells, observation wells, sumps, and the Niagara River. Shallow and deep groundwater sampling of groundwater monitoring wells, sumps, and surface water.	Quarterly water level measurements and annual groundwater sampling.	None Noted	NA
O&M Plan	The O&M program includes post-remedial construction activities that will be conducted to ensure the effectiveness of the shallow groundwater collection system and surface water management program. The program describes groundwater and surface water monitoring, cover and drainage system inspections, reporting requirements and emergency response procedures. It also includes standard operating procedures for operation of the shallow groundwater collection and treatment system.	Monitored during routine site visits.	O&M Plan and SOPs are reviewed/updated annually.	None Noted	NA
Leachate Collection	Leachate collection to be accomplished through shallow groundwater collection trench and subsequent treatment via OWS/carbon treatment.	Monitored during routine gauging and sampling of monitoring wells and sumps.	Quarterly gauging and Annual sampling	None Noted	NA
Groundwater Treatment System	The on-site treatment of shallow groundwater, collected via collection trench, and discharged to local publicly owned treatment works. Shallow groundwater collection and treatment would be required indefinitely unless contaminant concentrations are sufficiently reduced through natural attenuation.	Monitored during routine site visits and with the collection and analyses of treatment system discharge samples. Sampling is completed in accordance with the site specific discharge permit.	Weekly and Monthly	None Noted	NA



Table 2.2
2019 Groundwater Elevation Summary

WELL NAME	WELL DIAMETER	03/25/19 ELEVATION	06/24/19 ELEVATION	09/30/19 ELEVATION	12/16/19 ELEVATION
		(FEET)	(FEET)	(FEET)	(FEET)
MW-1	2"	566.84	567.90	567.32	567.21
MW-2	2"	566.01	567.39	566.60	566.40
MW-3	2"	565.63	566.94	566.33	566.52
MW-4	2"	566.00	567.20	566.23	566.47
MW-5	2"	565.82	567.25	566.48	566.10
MW-6	2"	565.78	567.21	566.51	566.08
MW-7	2"	566.49	567.65	566.82	566.76
OW-1	1 1/2"	566.13	566.91	566.17	566.07
OW-2	1 1/2"	570.24	570.39	570.11	570.01
OW-3	1 1/2"	568.31	568.82	568.24	568.81
OW-4	1 1/2"	566.72	567.69	566.99	567.11
OW-5	1 1/2"	568.78	569.78	569.15	569.01
OW-6	1 1/2"	568.28	569.13	568.26	568.74
OW-7	1 1/2"	568.59	569.11	568.37	568.97
OW-8	1 1/2"	567.09	567.79	567.08	567.30
OW-9	1 1/2"	569.35	569.61	568.98	569.56
RW-4	8"	567.70	569.13	568.37	568.00
RW-5	8"	567.68	569.05	570.03	568.18
S-1	vault	569.10	564.06	565.19	568.11
S-2	vault	568.36	568.97	568.32	568.64
S-3	vault	568.48	569.06	568.39	568.93
S-4	vault	568.75	569.08	567.78	568.89
SG	NA	567.85	569.65	568.94	568.75

Notes:

NA = Not applicable

NM = Not Measured

SG = Staff Gauge

Table 2.3
Non-Routine Maintenance Summary

Date	Non-Routine Maintenance Item
January 2019	• Emergency lighting repairs/battery replacement. • Water service hotbox repairs (frozen line due to power service failure).
February 2019	• Muriatic acid was added to the line from S-4 to dissolve accumulated mineral deposits that had caused a reduced flow from the sumps. • Apply air pressure to S-4 line to assist acid flushing. • Replacement of water service flowmeter. • Repair and certification of water service back flow preventer. • Acid mixer relay replacement.
March 2019	Repair of MW-4 due to crack at top of PVC riser that was allowing water to seep in.
April 2019	• Muriatic acid was added to the line from S-4 to dissolve accumulated mineral deposits that had caused a reduced flow from the sumps. • Apply air pressure to S-4 line to assist acid flushing. • Replacement of corroded pipe clamps and supports. • S-1 motor wiring repair and motor replacement.
May 2019	Replacement of corroded plumbing fitting at S-1 pump.
June 2019	• Muriatic acid was added to the line from S-3 to dissolve accumulated mineral deposits that had caused a reduced flow from the sumps. • Apply air pressure to S-3 line to assist acid flushing. Survey of site wells and sumps.
July 2019	Apply air and water pressure to S-4 line to assist acid flushing.

Table 2.3
Non-Routine Maintenance Summary

Date	Non-Routine Maintenance Item
August 2019	- Partial carbon change due to increasing pressure on carbon 1 vessel. - System down due to low pH alarm. - pH probe replaced.
September 2019	- Excavation and replacement of forced main from S-4 to treatment building. - Plumbing replacement of S-4 line inside building. S-4 restarted on 9/4/2019. - Muriatic acid was added to the line from S-3 to dissolve accumulated mineral deposits that had caused a reduced flow from the sumps. - Apply air pressure to S-3 line to assist acid flushing.
October 2019	- Pipe clamp and support replacement. - Sensaphone telemetry box replacement.
November 2019	- Replacement of water supply hotbox and associated electrical service. - Heat exchanger replacement due to leak. - Installation of glycol tank and pump to maximize heating system efficiency. - Muriatic acid was added to the line from S-3 to dissolve accumulated mineral deposits that had caused a reduced flow from the sumps. - Apply air pressure to S-3 line to assist acid flushing. - Operational pH of the system raised from 2.0 to 2.5.
December 2019	- Partial carbon change due to increasing pressure on carbon 1 vessel. - Flow meter annual calibration. - Muriatic acid was added to the line from S-4 to dissolve accumulated mineral deposits that had caused a reduced flow from the sumps. - Apply air pressure to S-4 line to assist acid flushing. - Operational pH of the system raised from 2.5 to 3.0.

Table 3.1

2019 Detected Compound Summary
Monitoring Well Samples

Cherry Farm/River Road June 2019 Monitoring Well Sampling Detections	NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: UNITS:	MW-4 480-155595-1 17.00 TA 480-155595 WATER 6/26/2019	MW-5 480-155595-2 17.25 TA 480-155595 WATER 6/26/2019	MW-6 480-155595-3 19.15 TA 480-155595 WATER 6/26/2019	DUP (MW-6) 480-155595-10 19.15 TA 480-155595 WATER 6/26/2019	RW-4 480-155595-4 14.75 TA 480-155595 WATER 6/27/2019	RW-5 480-155595-5 15.12 TA 480-155595 WATER 6/27/2019
COMPOUND								
VOLATILES								
1,1-Dichloroethane	5	(µg/L)	ND	ND	ND	1.6 (J)	ND	ND
Acetone	50 (G)	(µg/L)	ND	14 (J)	ND	ND	ND	ND
Benzene	1	(µg/L)	5.5	6.9	ND	ND	6.0	ND
SEMIVOLATILES								
2,4-Dimethylphenol	1	(µg/L)	ND	ND	ND	ND	ND	1.0 (J)
Anthracene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	0.37 (J)
Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	0.26 (J)	ND
Phenanthrene	50 (G)	(µg/L)	1.2 (JB)	0.98 (JB)	1.1 (JB)	0.98 (JB)	1.1 (JB)	1.1 (JB)

Notes:

µg/L = micrograms per liter

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold values exceed the NYSDEC Class GA groundwater standard/guidance value.

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

(J) = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

(B) = Compound was found in the blank and sample.

Table 3.2

2019 Detected Compound Summary
Sump Samples

Cherry Farm/River Road June 2019 Sump Sampling Detections	NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled:	S-1 480-155595-6 8.42 TA 480-155595 WATER 6/27/2019	S-2 480-155595-7 3.45 TA 480-155595 WATER 6/27/2019	S-3 480-155595-8 3.50 TA 480-155595 WATER 6/26/2019	S-4 480-155595-9 3.11 TA 480-155595 WATER 6/26/2019
COMPOUND		UNITS:				
VOLATILES						
1,1-Dichloroethane	5	(µg/L)	ND	ND	1.8 (J)	ND
SEMIVOLATILES						
2,4,5-Trichlorophenol	NS	(µg/L)	ND	0.89 (J)	ND	ND
2,4-Dimethylphenol	1	(µg/L)	2.5 (J)	ND	ND	ND
Anthracene	50 (G)	(µg/L)	0.41 (J)	ND	ND	ND
Carbazole	NS	(µg/L)	0.31 (J)	ND	ND	ND
Phenanthrene	50 (G)	(µg/L)	1.0 (JB)	1.2 (JB)	ND	ND
PESTICIDES						
4,4'-DDE	0.2	(µg/L)	0.017 (J)	ND	ND	ND
delta-BHC		(µg/L)	0.022 (JB)	0.015 (JB)	ND	ND
Endosulfan I	NS	(µg/L)	ND	ND	0.019 (J)	ND
Endrin ketone	5	(µg/L)	ND	0.014 (J)	0.021 (J)	0.022 (J)
gamma-Chlordane	0.05	(µg/L)	ND	0.049 (JB)	ND	ND
Heptachlor	0.04	(µg/L)	ND	0.018 (J)	ND	0.016 (J)
INORGANICS						
Aluminum	NS	(µg/L)	ND	180 (J)	270	220
Barium	1,000	(µg/L)	110	70	66	15
Calcium	NS	(µg/L)	49,700	96,700	73,800	49,700
Chromium	50	(µg/L)	ND	11	ND	1.4 (J)
Copper	200	(µg/L)	ND	3.9 (J)	2.7 (J)	10
Iron	300	(µg/L)	2,900	630	1,800	260
Lead	25	(µg/L)	ND	ND	3.5 (J)	ND
Magnesium	35,000 (G)	(µg/L)	13,400	300	2,800	5,500
Manganese	300	(µg/L)	1,000	18	110	89
Nickel	100	(µg/L)	ND	4.0 (J)	ND	14
Potassium	NS	(µg/L)	14,700	48,400	52,300	14,900
Sodium	20,000	(µg/L)	47,900	134,000	163,000	5,000
Vanadium	NS	(µg/L)	ND	6.1	6.1	1.8 (J)
Zinc	2,000 (G)	(µg/L)	4.7 (JB)	65 (B)	50 (B)	14 (B)
Cyanide	200	(µg/L)	ND	46 (*)	58 (*)	9.4 (J*)

Notes:

µg/L = micrograms per liter

NYSDEC (J)une 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold values exceed the NYSDEC Class GA groundwater standard/guidance value.

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

(J) = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

(B) = Compound was found in the blank and sample.

(*) = Compound was found in the blank and sample.

Table 3.3

Total 2019 Contaminant Mass Removal

Sum of Analytical Concentrations	S-1	S-2	S-3	S-4	Average Influent Concentration ⁽¹⁾	2019 Total Plant Flow	Total Removed
Units	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(lbs)
Date	06/26/19	06/26/19	06/26/19	06/26/19			
Total VOCs	0.00	0.00	1.80	0.00	0.60	3,613,048	0.018
Total SVOCs	4.22	2.09	0.00	0.00	2.10	3,613,048	0.063
Total Pesticides	0.04	0.10	0.00	0.04	0.05	3,613,048	0.001
Total PCBs	0.00	0.00	0.00	0.00	0.00	3,613,048	0.000

NOTES:

⁽¹⁾ Sump 4 (S-4) was only operational and contributing water to the system from September 20, 2019 through December 30, 2019. Therefore, the average influent concentration for 2019 is the average of S-1, S-2, and S-3 only to be more representative of total mass removed for the year.

VOCs = volatile organic compounds

SVOCs = semi-volatile organic compounds

PCBs = polychlorinated biphenyls

ND = compound was analyzed for, but not detected at or above the reporting limit

µg/L = micrograms per liter

gal = gallons

lbs = pounds

g = grams

$$\text{Total Removed (lbs)} = \frac{\text{Influent Concentration (}\mu\text{g)}}{\text{(L)}} \times \text{Flow (gal)} \times \frac{3.7854 \text{ (L)}}{1 \text{ (gal)}} \times \frac{1 \text{ (g)}}{1,000,000 \text{ (}\mu\text{g)}} \times \frac{0.0022 \text{ (lbs)}}{1 \text{ (g)}}$$



Appendix A-1 – June 2019 Analytical Data

Appendix A-1

2019 Analytical Data Sump Samples RCRA 8 Metals

Cherry Farm/River Road June 2019 Sump Sampling EPA Method 6010C	NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled:	S-1 480-155595-6 8.42 TA 480-155595 WATER 6/27/2019	S-2 480-155595-7 3.45 TA 480-155595 WATER 6/27/2019	S-3 480-155595-8 3.50 TA 480-155595 WATER 6/26/2019	S-4 480-155595-9 3.11 TA 480-155595 WATER 6/26/2019
COMPOUND		UNITS:				
RCRA 8 Metals						
Arsenic	25	(µg/L)	ND	ND	ND	ND
Barium	1,000	(µg/L)	110	70	66	15
Cadmium	10	(µg/L)	ND	ND	ND	ND
Chromium	50	(µg/L)	ND	11	ND	1.4 (J)
Lead	25	(µg/L)	ND	ND	3.5 (J)	ND
Mercury	0.7	(µg/L)	ND	ND	ND	ND
Selenium	10	(µg/L)	ND	ND	ND	ND
Silver	50	(µg/L)	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold values exceed the NYSDEC Class GA groundwater standard/guidance value.

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

(J) = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

Appendix A-1

2019 Analytical Data Sump Samples Inorganics

Cherry Farm/River Road June 2019 Sump Sampling EPA Method 6010C	NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled:	S-1 480-155595-6 8.42 TA 480-155595 WATER 6/27/2019	S-2 480-155595-7 3.45 TA 480-155595 WATER 6/27/2019	S-3 480-155595-8 3.50 TA 480-155595 WATER 6/26/2019	S-4 480-155595-9 3.11 TA 480-155595 WATER 6/26/2019
COMPOUND		UNITS:				
INORGANICS						
Aluminum	NS	(µg/L)	ND	180 (J)	270	220
Antimony	3	(µg/L)	ND	ND	ND	ND
Arsenic	25	(µg/L)	ND	ND	ND	ND
Barium	1,000	(µg/L)	110	70	66	15
Beryllium	3 (G)	(µg/L)	ND	ND	ND	ND
Cadmium	5	(µg/L)	ND	ND	ND	ND
Calcium	NS	(µg/L)	49,700	96,700	73,800	49,700
Chromium	50	(µg/L)	ND	11	ND	1.4 (J)
Cobalt	NS	(µg/L)	ND	ND	ND	ND
Copper	200	(µg/L)	ND	3.9 (J)	2.7 (J)	10
Iron	300	(µg/L)	2,900	630	1,800	260
Lead	25	(µg/L)	ND	ND	3.5 (J)	ND
Magnesium	35,000 (G)	(µg/L)	13,400	300	2,800	5,500
Manganese	300	(µg/L)	1,000	18	110	89
Mercury	0.7	(µg/L)	ND	ND	ND	ND
Nickel	100	(µg/L)	ND	4.0 (J)	ND	14
Potassium	NS	(µg/L)	14,700	48,400	52,300	14,900
Selenium	10	(µg/L)	ND	ND	ND	ND
Silver	50	(µg/L)	ND	ND	ND	ND
Sodium	20,000	(µg/L)	47,900	134,000	163,000	5,000
Thallium	0.5 (G)	(µg/L)	ND	ND	ND	ND
Vanadium	NS	(µg/L)	ND	6.1	6.1	1.8 (J)
Zinc	2,000 (G)	(µg/L)	4.7 (JB)	65 (B)	50 (B)	14 (B)
Cyanide	200	(µg/L)	ND	46 (*)	58 (*)	9.4 (J*)

Notes:

µg/L = micrograms per liter

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold values exceed the NYSDEC Class GA groundwater standard/guidance value.

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

(J) = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

(B) = Compound was found in the blank and sample.

(*) = LCS or LCSD is outside acceptance limits. ISTD Response or retention time outside acceptable limits.

Appendix A-1

2019 Analytical Data Sump Samples Pesticides and Polychlorinated Biphenyls

Cherry Farm/River Road June 2019 Sump Sampling EPA Method 8081B EPA Method 8082A	NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled:	S-1 480-155595-6 8.42 TA 480-155595 WATER 6/27/2019	S-2 480-155595-7 3.45 TA 480-155595 WATER 6/27/2019	S-3 480-155595-8 3.50 TA 480-155595 WATER 6/26/2019	S-4 480-155595-9 3.11 TA 480-155595 WATER 6/26/2019
COMPOUND		UNITS:				
PESTICIDES						
4,4'-DDD	0.3	(µg/L)	ND	ND	ND	ND
4,4'-DDE	0.2	(µg/L)	0.017 (J)	ND	ND	ND
4,4'-DDT	0.2	(µg/L)	ND	ND	ND	ND
Aldrin	NS	(µg/L)	ND	ND	ND	ND
alpha-BHC	0.01	(µg/L)	ND	ND	ND	ND
alpha-Chlordane	0.05	(µg/L)	ND	ND	ND	ND
beta-BHC	0.04	(µg/L)	ND	ND	ND	ND
delta-BHC	0.04	(µg/L)	0.022 (JB)	0.015 (JB)	ND	ND
Dieldrin	0.004	(µg/L)	ND	ND	ND	ND
Endosulfan I	NS	(µg/L)	ND	ND	0.019 (J)	ND
Endosulfan II	NS	(µg/L)	ND	ND	ND	ND
Endosulfan sulfate	NS	(µg/L)	ND	ND	ND	ND
Endrin	NS	(µg/L)	ND	ND	ND	ND
Endrin aldehyde	5	(µg/L)	ND	ND	ND	ND
Endrin ketone	5	(µg/L)	ND	0.014 (J)	0.021 (J)	0.022 (J)
gamma-BHC (Lindane)	0.05	(µg/L)	ND	ND	ND	ND
gamma-Chlordane	0.05	(µg/L)	ND	0.049 (JB)	ND	ND
Heptachlor	0.04	(µg/L)	ND	0.018 (J)	ND	0.016 (J)
Heptachlor epoxide	0.03	(µg/L)	ND	ND	ND	ND
Methoxychlor	35	(µg/L)	ND	ND	ND	ND
Toxaphene	0.06	(µg/L)	ND	ND	ND	ND
PCBs						
Aroclor 1016	Sum of all PCBs is <0.09	(µg/L)	ND	ND	ND	ND
Aroclor 1221		(µg/L)	ND	ND	ND	ND
Aroclor 1232		(µg/L)	ND	ND	ND	ND
Aroclor 1242		(µg/L)	ND	ND	ND	ND
Aroclor 1248		(µg/L)	ND	ND	ND	ND
Aroclor 1254		(µg/L)	ND	ND	ND	ND
Aroclor 1260		(µg/L)	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold values exceed the NYSDEC Class GA groundwater standard/guidance value.

NS = No Standard

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

(J) = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

(B) = Compound was found in the blank and sample.

Appendix A-1

2019 Analytical Data Sump Samples Semi-Volatile Organic Compounds

Cherry Farm/River Road June 2019 Sump Sampling EPA Method 8270D	NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled:	S-1 480-155595-6 8.42 TA WATER 6/27/2019	S-2 480-155595-7 3.45 TA WATER 6/27/2019	S-3 480-155595-8 3.50 TA WATER 6/26/2019	S-4 480-155595-9 3.11 TA WATER 6/26/2019
COMPOUND		UNITS:				
SEMIVOLATILES						
1,2,4-Trichlorobenzene	5	(µg/L)	ND	ND	ND	ND
1,2-Dichlorobenzene	3	(µg/L)	ND	ND	ND	ND
1,3-Dichlorobenzene	3	(µg/L)	ND	ND	ND	ND
1,4-Dichlorobenzene	3	(µg/L)	ND	ND	ND	ND
2,4,5-Trichlorophenol	NS	(µg/L)	ND	0.89 (J)	ND	ND
2,4,6-Trichlorophenol	NS	(µg/L)	ND	ND	ND	ND
2,4-Dichlorophenol	1	(µg/L)	ND	ND	ND	ND
2,4-Dimethylphenol	1	(µg/L)	2.5 (J)	ND	ND	ND
2,4-Dinitrophenol	10 (G)	(µg/L)	ND	ND	ND	ND
2,4-Dinitrotoluene	5	(µg/L)	ND	ND	ND	ND
2,6-Dinitrotoluene	5	(µg/L)	ND	ND	ND	ND
2-Chloronaphthalene	10 (G)	(µg/L)	ND	ND	ND	ND
2-Chlorophenol	NS	(µg/L)	ND	ND	ND	ND
2-Methylnaphthalene	NS	(µg/L)	ND	ND	ND	ND
2-Methylphenol	1	(µg/L)	ND	ND	ND	ND
2-Nitroaniline	5	(µg/L)	ND	ND	ND	ND
2-Nitrophenol	1	(µg/L)	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	(µg/L)	ND	ND	ND	ND
3-Nitroaniline	5	(µg/L)	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	1	(µg/L)	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NS	(µg/L)	ND	ND	ND	ND
4-Chloro-3-methylphenol	1	(µg/L)	ND	ND	ND	ND
4-Chloroaniline	5	(µg/L)	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NS	(µg/L)	ND	ND	ND	ND
4-Methylphenol	1	(µg/L)	ND	ND	ND	ND
4-Nitroaniline	5	(µg/L)	ND	ND	ND	ND
4-Nitrophenol	1	(µg/L)	ND	ND	ND	ND
Acenaphthene	20 (G)	(µg/L)	ND	ND	ND	ND
Acenaphthylene	NS	(µg/L)	ND	ND	ND	ND
Anthracene	50 (G)	(µg/L)	0.41 (J)	ND	ND	ND
Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND
Benzo[a]pyrene	NS	(µg/L)	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NYSDEC (J)une 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold values exceed the NYSDEC Class GA groundwater standard/guidance value.

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

(J) = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value

(*) = LCS or LCSD is outside acceptance limits. ISTD Response or retention time outside acceptable limits.

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2019 Analytical Data Sump Samples Semi-Volatile Organic Compounds

Cherry Farm/River Road June 2019 Sump Sampling EPA Method 8270D	NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled:	S-1 480-155595-6 8.42 TA 480-155595 WATER 6/27/2019	S-2 480-155595-7 3.45 TA 480-155595 WATER 6/27/2019	S-3 480-155595-8 3.50 TA 480-155595 WATER 6/26/2019	S-4 480-155595-9 3.11 TA 480-155595 WATER 6/26/2019
COMPOUND		UNITS:				
Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND
Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND
Benzo[k]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	5	(µg/L)	ND	ND	ND	ND
Bis(2-chloroethyl)ether	1	(µg/L)	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	5	(µg/L)	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	(µg/L)	ND	ND	ND	ND
Butyl benzyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND
Carbazole	NS	(µg/L)	0.31 (J)	ND	ND	ND
Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND
Dibenz[a,h]anthracene	NS	(µg/L)	ND	ND	ND	ND
Dibenzofuran	NS	(µg/L)	ND	ND	ND	ND
Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND
Dimethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND
Di-n-butyl phthalate	50	(µg/L)	ND	ND	ND	ND
Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND
Fluoranthene	50 (G)	(µg/L)	ND	ND	ND	ND
Fluorene	50 (G)	(µg/L)	ND	ND	ND	ND
Hexachlorobenzene	0.04	(µg/L)	ND	ND	ND	ND
Hexachlorobutadiene	0.5	(µg/L)	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	(µg/L)	ND	ND	ND	ND
Hexachloroethane	5	(µg/L)	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND
Isophorone	50 (G)	(µg/L)	ND	ND	ND	ND
Naphthalene	10 (G)	(µg/L)	ND	ND	ND	ND
Nitrobenzene	0.4	(µg/L)	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	NS	(µg/L)	ND	ND	ND	ND
N-Nitrosodiphenylamine	50 (G)	(µg/L)	ND	ND	ND	ND
Pentachlorophenol	5	(µg/L)	ND	ND	ND	ND
Phenanthrene	50 (G)	(µg/L)	1.0 (JB)	1.2 (JB)	ND	ND
Phenol	1	(µg/L)	ND	ND	ND	ND
Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold values exceed the NYSDEC Class GA groundwater standard/guidance value.

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

(J) = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value

(B) = Compound was found in the blank and sample.

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2019 Analytical Data Sump Samples Volatile Organic Compounds

Cherry Farm/River Road June 2019 Sump Sampling EPA Method 8260C	NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled:	S-1	S-2	S-3	S-4
			480-155595-6	480-155595-7	480-155595-8	480-155595-9
			8.42	3.45	3.50	3.11
			TA	TA	TA	TA
			480-155595	480-155595	480-155595	480-155595
			WATER	WATER	WATER	WATER
			6/27/2019	6/27/2019	6/26/2019	6/26/2019
COMPOUND		UNITS:				
VOLATILES						
1,1,1-Trichloroethane	5	(µg/L)	ND (*)	ND (*)	ND (*)	ND (*)
1,1,2,2-Tetrachloroethane	5	(µg/L)	ND	ND	ND	ND
1,1,2-Trichloroethane	1	(µg/L)	ND	ND	ND	ND
1,1-Dichloroethane	5	(µg/L)	ND	ND	1.8 (J)	ND
1,1-Dichloroethene	5	(µg/L)	ND	ND	ND	ND
1,2-Dichloroethane	0.5	(µg/L)	ND	ND	ND	ND
1,2-Dichloroethene, Total	NS	(µg/L)	ND	ND	ND	ND
1,2-Dichloropropane	1	(µg/L)	ND (*)	ND (*)	ND (*)	ND (*)
2-Butanone	50 (G)	(µg/L)	ND	ND	ND	ND
2-Hexanone	50 (G)	(µg/L)	ND	ND	ND	ND
4-Methyl-2-pentanone	NS	(µg/L)	ND	ND	ND	ND
Acetone	50 (G)	(µg/L)	ND	ND	ND	ND
Benzene	1	(µg/L)	ND	ND	ND	ND
Bromodichloromethane	50 (G)	(µg/L)	ND	ND	ND	ND
Bromoform	50 (G)	(µg/L)	ND	ND	ND	ND
Bromomethane	5	(µg/L)	ND	ND	ND	ND
Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND
Carbon Tetrachloride	5	(µg/L)	ND	ND	ND	ND
Chlorobenzene	5	(µg/L)	ND	ND	ND	ND
Chloroethane	5	(µg/L)	ND	ND	ND	ND
Chloroform	7	(µg/L)	ND	ND	ND	ND
Chloromethane	5	(µg/L)	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	(µg/L)	ND	ND	ND	ND
Dibromochloromethane	50 (G)	(µg/L)	ND	ND	ND	ND
Ethylbenzene	5	(µg/L)	ND	ND	ND	ND
Methylene Chloride	5	(µg/L)	ND	ND	ND	ND
Styrene	5	(µg/L)	ND	ND	ND	ND
Tetrachloroethene	5	(µg/L)	ND	ND	ND	ND
Toluene	5	(µg/L)	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	(µg/L)	ND	ND	ND	ND
Trichloroethene	5	(µg/L)	ND	ND	ND	ND
Vinyl chloride	2	(µg/L)	ND	ND	ND	ND
Xylenes, total	5	(µg/L)	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold values exceed the NYSDEC Class GA groundwater standard/guidance value.

NM = Not Measured

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

(J) = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit. The concentration is an approximate value.

(*) = LCS or LCSD is outside acceptance limits. ISTD Response or retention time outside acceptable limits.

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2019 Analytical Data Monitoring Well Samples Semi-Volatile Organic Compounds

Cherry Farm/River Road June 2019 Monitoring Well Sampling EPA Method 8270D	NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled:	MW-4 480-155595-1 17.00 TA 480-155595 WATER 6/26/2019	MW-5 480-155595-2 17.25 TA 480-155595 WATER 6/26/2019	MW-6 480-155595-3 19.15 TA 480-155595 WATER 6/26/2019	DUP (MW-6) 480-155595-10 19.15 TA 480-155595 WATER 6/26/2019	RW-4 480-155595-4 14.75 TA 480-155595 WATER 6/26/2019	RW-5 480-155595-5 15.12 TA 480-155595 WATER 6/27/2019
COMPOUND		UNITS:						
SEMIVOLATILES								
1,2,4-Trichlorobenzene	5	(µg/L)	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	(µg/L)	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	(µg/L)	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	(µg/L)	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NS	(µg/L)	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	1	(µg/L)	ND	ND	ND	ND	ND	1.0 (J)
2,4-Dinitrophenol	10 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	(µg/L)	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	(µg/L)	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	10 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
2-Chlorophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NS	(µg/L)	ND	ND	ND	ND	ND	ND
2-Methylphenol	1	(µg/L)	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	(µg/L)	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	(µg/L)	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	(µg/L)	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	1	(µg/L)	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NS	(µg/L)	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1	(µg/L)	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	(µg/L)	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NS	(µg/L)	ND	ND	ND	ND	ND	ND
4-Methylphenol	1	(µg/L)	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	(µg/L)	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND
Acenaphthene	20 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Acenaphthylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND
Anthracene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	0.37 (J)
Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	NS	(µg/L)	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold values exceed the NYSDEC Class GA groundwater standard/guidance value.

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

(J) = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

(B) = Compound was found in the blank and sample.

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2019 Analytical Data Monitoring Well Samples Semi-Volatile Organic Compounds

Cherry Farm/River Road June 2019 Monitoring Well Sampling EPA Method 8270D	NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled:	MW-4 480-155595-1 17.00 TA 480-155595 WATER 6/26/2019	MW-5 480-155595-2 17.25 TA 480-155595 WATER 6/26/2019	MW-6 480-155595-3 19.15 TA 480-155595 WATER 6/26/2019	DUP (MW-6) 480-155595-10 19.15 TA 480-155595 WATER 6/26/2019	RW-4 480-155595-4 14.75 TA 480-155595 WATER 6/26/2019	RW-5 480-155595-5 15.12 TA 480-155595 WATER 6/27/2019
COMPOUND		UNITS:						
Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	5	(µg/L)	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	1	(µg/L)	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	5	(µg/L)	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	(µg/L)	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Carbazole	NS	(µg/L)	ND	ND	ND	ND	ND	ND
Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Dibenz[a,h]anthracene	NS	(µg/L)	ND	ND	ND	ND	ND	ND
Dibenzofuran	NS	(µg/L)	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	0.26 (J)	ND
Dimethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	(µg/L)	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Fluoranthene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Fluorene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	(µg/L)	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	(µg/L)	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	(µg/L)	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	(µg/L)	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Isophorone	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Naphthalene	10 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Nitrobenzene	0.4	(µg/L)	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	NS	(µg/L)	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Pentachlorophenol	5	(µg/L)	ND	ND	ND	ND	ND	ND
Phenanthrene	50 (G)	(µg/L)	1.2 (JB)	0.98 (JB)	1.1 (JB)	0.98 (JB)	1.1 (JB)	1.1 (JB)
Phenol	1	(µg/L)	ND	ND	ND	ND	ND	ND
Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold values exceed the NYSDEC Class GA groundwater standard/guidance value.

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

(J) = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

(B) = Compound was found in the blank and sample.

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2019 Analytical Data Monitoring Well Samples Volatile Organic Compounds

Cherry Farm/River Road June 2019 Monitoring Well Sampling EPA Method 8260C	NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled:	MW-4 480-155595-1 17.00 TA 480-155595 WATER 6/26/2019	MW-5 480-155595-2 17.25 TA 480-155595 WATER 6/26/2019	MW-6 480-155595-3 19.15 TA 480-155595 WATER 6/26/2019	DUP (MW-6) 480-155595-10 19.15 TA 480-155595 WATER 6/26/2019	RW-4 480-155595-4 14.75 TA 480-155595 WATER 6/27/2019	RW-5 480-155595-5 15.12 TA 480-155595 WATER 6/27/2019
COMPOUND		UNITS:						
VOLATILES								
1,1,1-Trichloroethane	5	(µg/L)	ND (*)	ND (*)	ND (*)	ND (*)	ND (*)	ND (*)
1,1,2,2-Tetrachloroethane	5	(µg/L)	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	(µg/L)	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	(µg/L)	ND	ND	ND	1.6 (J)	ND	ND
1,1-Dichloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	(µg/L)	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene, Total	NS	(µg/L)	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	(µg/L)	ND (*)	ND (*)	ND (*)	ND (*)	ND (*)	ND (*)
2-Butanone	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
2-Hexanone	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NS	(µg/L)	ND	ND	ND	ND	ND	ND
Acetone	50 (G)	(µg/L)	ND	14 (J)	ND	ND	ND	ND
Benzene	1	(µg/L)	5.5	6.9	ND	ND	6.0	ND
Bromodichloromethane	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Bromoform	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Bromomethane	5	(µg/L)	ND	ND	ND	ND	ND	ND
Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	(µg/L)	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	(µg/L)	ND	ND	ND	ND	ND	ND
Chloroethane	5	(µg/L)	ND	ND	ND	ND	ND	ND
Chloroform	7	(µg/L)	ND	ND	ND	ND	ND	ND
Chloromethane	5	(µg/L)	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	(µg/L)	ND	ND	ND	ND	ND	ND
Dibromochloromethane	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	(µg/L)	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	(µg/L)	ND	ND	ND	ND	ND	ND
Styrene	5	(µg/L)	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND
Toluene	5	(µg/L)	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	(µg/L)	ND	ND	ND	ND	ND	ND
Trichloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	(µg/L)	ND	ND	ND	ND	ND	ND
Xylenes, total	5	(µg/L)	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold values exceed the NYSDEC Class GA groundwater standard/guidance value.

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

(J) = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

(*) = LCS or LCSD is outside acceptance limits.

Appendix A-1

2019 Analytical Data Monitoring Well Samples Polychlorinated Biphenyls

Cherry Farm/River Road June 2019 Monitoring Well Sampling EPA Method 8082A	NYSDEC	Sample ID:	MW-4	MW-5	MW-6	DUP (MW-6)	RW-4	RW-5
	Class GA	Lab Sample ID:	480-155595-1	480-155595-2	480-155595-3	480-155595-10	480-155595-4	480-155595-5
	Groundwater	Depth:	17.00	17.25	19.15	19.15	14.75	15.12
	Standards/ Guidance Values	Source:	TA	TA	TA	TA	TA	TA
		SDG:	480-155595	480-155595	480-155595	480-155595	480-155595	480-155595
		Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
		Sampled:	6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/27/2019
	COMPOUND	UNITS:						
	Polychlorinated Biphenyls							
Aroclor 1016	Sum of all PCBs is <0.09	(µg/L)	ND	ND	ND	ND	ND	ND
Aroclor 1221		(µg/L)	ND	ND	ND	ND	ND	ND
Aroclor 1232		(µg/L)	ND	ND	ND	ND	ND	ND
Aroclor 1242		(µg/L)	ND	ND	ND	ND	ND	ND
Aroclor 1248		(µg/L)	ND	ND	ND	ND	ND	ND
Aroclor 1254		(µg/L)	ND	ND	ND	ND	ND	ND
Aroclor 1260		(µg/L)	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

ND = Indicates compound was analyzed for, but not detected at or above the detection limit.

Bold values exceed the NYSDEC Class GA groundwater standard/guidance value.



Appendix A-2 – June 2019 Laboratory Analytical Data Packages

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

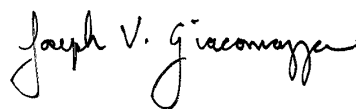
Laboratory Job ID: 480-155595-1

Client Project/Site: Cherry Farms Annual GW Sample

For:

Groundwater & Environmental Services Inc
415 Lawrence Bell Drive
Suite 6
Williamsville, New York 14221

Attn: Thomas Palmer



Authorized for release by:

7/16/2019 10:20:24 AM

Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager
(484)685-0864
orlette.johnson@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Job ID: 480-155595-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-155595-1

Comments

No additional comments.

Receipt

The samples were received on 6/27/2019 2:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.7° C, 4.3° C and 4.9° C.

GC/MS VOA

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-4 (480-155595-1), MW-5 (480-155595-2), MW-6 (480-155595-3), MW-6 (480-155595-3[MS]), MW-6 (480-155595-3[MSD]), RW-4 (480-155595-4), RW-5 (480-155595-5), S-1 (480-155595-6), S-2 (480-155595-7), S-3 (480-155595-8), S-4 (480-155595-9) and DUP (480-155595-10). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-480669 recovered above the upper control limit for 1,1,1-Trichloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-4 (480-155595-1), MW-5 (480-155595-2), MW-6 (480-155595-3), RW-4 (480-155595-4), RW-5 (480-155595-5), S-1 (480-155595-6), S-2 (480-155595-7), S-3 (480-155595-8), S-4 (480-155595-9) and DUP (480-155595-10).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-480669 recovered outside control limits for the following analytes: 1,1,1-Trichloroethane and 1,2-Dichloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: S-3 (480-155595-8) and S-4 (480-155595-9). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: RW-5 (480-155595-5) and S-2 (480-155595-7). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8081B: The continuing calibration verification (CCV) associated with batch 480-481067 recovered above the upper control limit for Endosulfan sulfate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: S-1 (480-155595-6), S-2 (480-155595-7), S-3 (480-155595-8) and S-4 (480-155595-9).

Method(s) 8082A: The following samples are associated with a continuing calibration verification (CCV 480-481474/5 and 480-481474/31) that had recoveries for the surrogate Decachlorobiphenyl that were below acceptance limits: MW-4 (480-155595-1), MW-5 (480-155595-2), MW-6 (480-155595-3), RW-4 (480-155595-4), RW-5 (480-155595-5), S-1 (480-155595-6), S-2 (480-155595-7), S-3 (480-155595-8), S-4 (480-155595-9) and DUP (480-155595-10). The secondary surrogate Tetrachloro-m-xylene is within limits. Therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Case Narrative

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Job ID: 480-155595-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method(s) 335.4, 9012B: The LCS and LCSD recovered outside the acceptable method limits of 90-110%. The LCS recovery was 88 % and the LCSD recovery was 85%.

S-2 (480-155595-7), S-3 (480-155595-8) and S-4 (480-155595-9)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-480814.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: MW-4

Lab Sample ID: 480-155595-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.5		4.0	1.6	ug/L	4		8260C	Total/NA
Phenanthrene	1.2	J B	5.0	0.44	ug/L	1		8270D	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 480-155595-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	J	40	12	ug/L	4		8260C	Total/NA
Benzene	6.9		4.0	1.6	ug/L	4		8260C	Total/NA
Phenanthrene	0.98	J B	5.0	0.44	ug/L	1		8270D	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 480-155595-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	1.1	J B	5.3	0.47	ug/L	1		8270D	Total/NA

Client Sample ID: RW-4

Lab Sample ID: 480-155595-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.0		4.0	1.6	ug/L	4		8260C	Total/NA
Diethyl phthalate	0.26	J	5.0	0.22	ug/L	1		8270D	Total/NA
Phenanthrene	1.1	J B	5.0	0.44	ug/L	1		8270D	Total/NA

Client Sample ID: RW-5

Lab Sample ID: 480-155595-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dimethylphenol	1.0	J	5.0	0.50	ug/L	1		8270D	Total/NA
Anthracene	0.37	J	5.0	0.28	ug/L	1		8270D	Total/NA
Phenanthrene	1.1	J B	5.0	0.44	ug/L	1		8270D	Total/NA

Client Sample ID: S-1

Lab Sample ID: 480-155595-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dimethylphenol	2.5	J	5.0	0.50	ug/L	1		8270D	Total/NA
Anthracene	0.41	J	5.0	0.28	ug/L	1		8270D	Total/NA
Carbazole	0.31	J	5.0	0.30	ug/L	1		8270D	Total/NA
Phenanthrene	1.0	J B	5.0	0.44	ug/L	1		8270D	Total/NA
4,4'-DDE	0.017	J	0.052	0.012	ug/L	1		8081B	Total/NA
delta-BHC	0.022	J B	0.052	0.010	ug/L	1		8081B	Total/NA
Barium	0.11		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	49.7		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	2.9		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	13.4		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.0		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	14.7		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	47.9		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0047	J B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: S-2

Lab Sample ID: 480-155595-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4,5-Trichlorophenol	0.89	J	5.0	0.48	ug/L	1		8270D	Total/NA
Phenanthrene	1.2	J B	5.0	0.44	ug/L	1		8270D	Total/NA
delta-BHC	0.015	J B	0.050	0.010	ug/L	1		8081B	Total/NA
Endrin ketone	0.014	J	0.050	0.012	ug/L	1		8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-2 (Continued)

Lab Sample ID: 480-155595-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-Chlordane	0.049	J B	0.050	0.011	ug/L	1		8081B	Total/NA
Heptachlor	0.018	J	0.050	0.0085	ug/L	1		8081B	Total/NA
Aluminum	0.18	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.070		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	96.7		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.011		0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.0039	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.63		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	0.30		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.018		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0040	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	48.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	134		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0061		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.065	B	0.010	0.0015	mg/L	1		6010C	Total/NA
Cyanide, Total	0.046	*	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: S-3

Lab Sample ID: 480-155595-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.8	J	4.0	1.5	ug/L	4		8260C	Total/NA
Endosulfan I	0.019	J	0.050	0.011	ug/L	1		8081B	Total/NA
Endrin ketone	0.021	J	0.050	0.012	ug/L	1		8081B	Total/NA
Aluminum	0.27		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.066		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	73.8		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0027	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	1.8		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0035	J	0.0050	0.0030	mg/L	1		6010C	Total/NA
Magnesium	2.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.11		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	52.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	163		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0061		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.050	B	0.010	0.0015	mg/L	1		6010C	Total/NA
Cyanide, Total	0.058	*	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: S-4

Lab Sample ID: 480-155595-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Endrin ketone	0.022	J	0.050	0.012	ug/L	1		8081B	Total/NA
Heptachlor	0.016	J	0.050	0.0085	ug/L	1		8081B	Total/NA
Aluminum	0.22		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.015		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	49.7		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0014	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.010		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.26		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	5.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.089		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.014		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	14.9		0.50	0.10	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-4 (Continued)

Lab Sample ID: 480-155595-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	5.0		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0018	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.14	B	0.010	0.0015	mg/L	1		6010C	Total/NA
Cyanide, Total	0.0094	J *	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: DUP

Lab Sample ID: 480-155595-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.6	J	4.0	1.5	ug/L	4		8260C	Total/NA
Phenanthrene	0.98	J B	5.0	0.44	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: MW-4

Lab Sample ID: 480-155595-1

Date Collected: 06/26/19 14:00

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	4.0	3.3	ug/L			07/03/19 11:57	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			07/03/19 11:57	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/03/19 11:57	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			07/03/19 11:57	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/03/19 11:57	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/03/19 11:57	4
1,2-Dichloroethene, Total	ND		8.0	3.2	ug/L			07/03/19 11:57	4
1,2-Dichloropropane	ND	*	4.0	2.9	ug/L			07/03/19 11:57	4
2-Butanone (MEK)	ND		40	5.3	ug/L			07/03/19 11:57	4
2-Hexanone	ND		20	5.0	ug/L			07/03/19 11:57	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			07/03/19 11:57	4
Acetone	ND		40	12	ug/L			07/03/19 11:57	4
Benzene	5.5		4.0	1.6	ug/L			07/03/19 11:57	4
Bromoform	ND		4.0	1.0	ug/L			07/03/19 11:57	4
Bromomethane	ND		4.0	2.8	ug/L			07/03/19 11:57	4
Carbon disulfide	ND		4.0	0.76	ug/L			07/03/19 11:57	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/03/19 11:57	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/03/19 11:57	4
Dibromochloromethane	ND		4.0	1.3	ug/L			07/03/19 11:57	4
Chloroethane	ND		4.0	1.3	ug/L			07/03/19 11:57	4
Chloroform	ND		4.0	1.4	ug/L			07/03/19 11:57	4
Chloromethane	ND		4.0	1.4	ug/L			07/03/19 11:57	4
Bromodichloromethane	ND		4.0	1.6	ug/L			07/03/19 11:57	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/03/19 11:57	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/03/19 11:57	4
Tetrachloroethene	ND		4.0	1.4	ug/L			07/03/19 11:57	4
Toluene	ND		4.0	2.0	ug/L			07/03/19 11:57	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			07/03/19 11:57	4
Trichloroethene	ND		4.0	1.8	ug/L			07/03/19 11:57	4
Vinyl chloride	ND		4.0	3.6	ug/L			07/03/19 11:57	4
Xylenes, Total	ND		8.0	2.6	ug/L			07/03/19 11:57	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			07/03/19 11:57	4
Styrene	ND		4.0	2.9	ug/L			07/03/19 11:57	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		07/03/19 11:57	4
4-Bromofluorobenzene (Surr)	86		73 - 120		07/03/19 11:57	4
Toluene-d8 (Surr)	93		80 - 120		07/03/19 11:57	4
Dibromofluoromethane (Surr)	90		75 - 123		07/03/19 11:57	4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		07/03/19 14:34	07/11/19 22:34	1
1,2,4-Trichlorobenzene	ND		10	0.44	ug/L		07/03/19 14:34	07/11/19 22:34	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/11/19 22:34	1
1,2-Dichlorobenzene	ND		10	0.40	ug/L		07/03/19 14:34	07/11/19 22:34	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		07/03/19 14:34	07/11/19 22:34	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		07/03/19 14:34	07/11/19 22:34	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		07/03/19 14:34	07/11/19 22:34	1
1,3-Dichlorobenzene	ND		10	0.48	ug/L		07/03/19 14:34	07/11/19 22:34	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: MW-4

Lab Sample ID: 480-155595-1

Date Collected: 06/26/19 14:00

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/11/19 22:34	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		07/03/19 14:34	07/11/19 22:34	1
1,4-Dichlorobenzene	ND		10	0.46	ug/L		07/03/19 14:34	07/11/19 22:34	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 22:34	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		07/03/19 14:34	07/11/19 22:34	1
2-Chlorophenol	ND		5.0	0.53	ug/L		07/03/19 14:34	07/11/19 22:34	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		07/03/19 14:34	07/11/19 22:34	1
2-Methylphenol	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 22:34	1
2-Nitroaniline	ND		10	0.42	ug/L		07/03/19 14:34	07/11/19 22:34	1
2-Nitrophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/11/19 22:34	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 22:34	1
3-Nitroaniline	ND		10	0.48	ug/L		07/03/19 14:34	07/11/19 22:34	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		07/03/19 14:34	07/11/19 22:34	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		07/03/19 14:34	07/11/19 22:34	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		07/03/19 14:34	07/11/19 22:34	1
4-Chloroaniline	ND		5.0	0.59	ug/L		07/03/19 14:34	07/11/19 22:34	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		07/03/19 14:34	07/11/19 22:34	1
4-Methylphenol	ND		10	0.36	ug/L		07/03/19 14:34	07/11/19 22:34	1
4-Nitroaniline	ND		10	0.25	ug/L		07/03/19 14:34	07/11/19 22:34	1
4-Nitrophenol	ND		10	1.5	ug/L		07/03/19 14:34	07/11/19 22:34	1
Acenaphthene	ND		5.0	0.41	ug/L		07/03/19 14:34	07/11/19 22:34	1
Acenaphthylene	ND		5.0	0.38	ug/L		07/03/19 14:34	07/11/19 22:34	1
Anthracene	ND		5.0	0.28	ug/L		07/03/19 14:34	07/11/19 22:34	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/11/19 22:34	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/11/19 22:34	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/11/19 22:34	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		07/03/19 14:34	07/11/19 22:34	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		07/03/19 14:34	07/11/19 22:34	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		07/03/19 14:34	07/11/19 22:34	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 22:34	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		07/03/19 14:34	07/11/19 22:34	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		07/03/19 14:34	07/11/19 22:34	1
Carbazole	ND		5.0	0.30	ug/L		07/03/19 14:34	07/11/19 22:34	1
Chrysene	ND		5.0	0.33	ug/L		07/03/19 14:34	07/11/19 22:34	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		07/03/19 14:34	07/11/19 22:34	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		07/03/19 14:34	07/11/19 22:34	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		07/03/19 14:34	07/11/19 22:34	1
Dibenzofuran	ND		10	0.51	ug/L		07/03/19 14:34	07/11/19 22:34	1
Diethyl phthalate	ND		5.0	0.22	ug/L		07/03/19 14:34	07/11/19 22:34	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		07/03/19 14:34	07/11/19 22:34	1
Fluoranthene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 22:34	1
Fluorene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/11/19 22:34	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		07/03/19 14:34	07/11/19 22:34	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		07/03/19 14:34	07/11/19 22:34	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		07/03/19 14:34	07/11/19 22:34	1
Hexachloroethane	ND		5.0	0.59	ug/L		07/03/19 14:34	07/11/19 22:34	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/11/19 22:34	1
Isophorone	ND		5.0	0.43	ug/L		07/03/19 14:34	07/11/19 22:34	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		07/03/19 14:34	07/11/19 22:34	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: MW-4

Lab Sample ID: 480-155595-1

Date Collected: 06/26/19 14:00

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		07/03/19 14:34	07/11/19 22:34	1
Naphthalene	ND		5.0	0.76	ug/L		07/03/19 14:34	07/11/19 22:34	1
Nitrobenzene	ND		5.0	0.29	ug/L		07/03/19 14:34	07/11/19 22:34	1
Pentachlorophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/11/19 22:34	1
Phenanthrene	1.2	J B	5.0	0.44	ug/L		07/03/19 14:34	07/11/19 22:34	1
Phenol	ND		5.0	0.39	ug/L		07/03/19 14:34	07/11/19 22:34	1
Pyrene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/11/19 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	94		41 - 120	07/03/19 14:34	07/11/19 22:34	1
2-Fluorobiphenyl	93		48 - 120	07/03/19 14:34	07/11/19 22:34	1
2-Fluorophenol	64		35 - 120	07/03/19 14:34	07/11/19 22:34	1
Nitrobenzene-d5	91		46 - 120	07/03/19 14:34	07/11/19 22:34	1
p-Terphenyl-d14	65		59 - 136	07/03/19 14:34	07/11/19 22:34	1
Phenol-d5	46		22 - 120	07/03/19 14:34	07/11/19 22:34	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:11	1
PCB-1221	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:11	1
PCB-1232	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:11	1
PCB-1242	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:11	1
PCB-1248	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:11	1
PCB-1254	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 16:11	1
PCB-1260	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	38		19 - 120	07/05/19 08:16	07/10/19 16:11	1
Tetrachloro-m-xylene	54		39 - 121	07/05/19 08:16	07/10/19 16:11	1

Client Sample ID: MW-5

Lab Sample ID: 480-155595-2

Date Collected: 06/26/19 13:30

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	4.0	3.3	ug/L			07/03/19 12:21	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			07/03/19 12:21	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/03/19 12:21	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			07/03/19 12:21	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/03/19 12:21	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/03/19 12:21	4
1,2-Dichloroethene, Total	ND		8.0	3.2	ug/L			07/03/19 12:21	4
1,2-Dichloropropane	ND	*	4.0	2.9	ug/L			07/03/19 12:21	4
2-Butanone (MEK)	ND		40	5.3	ug/L			07/03/19 12:21	4
2-Hexanone	ND		20	5.0	ug/L			07/03/19 12:21	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			07/03/19 12:21	4
Acetone	14	J	40	12	ug/L			07/03/19 12:21	4
Benzene	6.9		4.0	1.6	ug/L			07/03/19 12:21	4
Bromoform	ND		4.0	1.0	ug/L			07/03/19 12:21	4
Bromomethane	ND		4.0	2.8	ug/L			07/03/19 12:21	4

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: MW-5

Lab Sample ID: 480-155595-2

Date Collected: 06/26/19 13:30

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		4.0	0.76	ug/L			07/03/19 12:21	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/03/19 12:21	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/03/19 12:21	4
Dibromochloromethane	ND		4.0	1.3	ug/L			07/03/19 12:21	4
Chloroethane	ND		4.0	1.3	ug/L			07/03/19 12:21	4
Chloroform	ND		4.0	1.4	ug/L			07/03/19 12:21	4
Chloromethane	ND		4.0	1.4	ug/L			07/03/19 12:21	4
Bromodichloromethane	ND		4.0	1.6	ug/L			07/03/19 12:21	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/03/19 12:21	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/03/19 12:21	4
Tetrachloroethene	ND		4.0	1.4	ug/L			07/03/19 12:21	4
Toluene	ND		4.0	2.0	ug/L			07/03/19 12:21	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			07/03/19 12:21	4
Trichloroethene	ND		4.0	1.8	ug/L			07/03/19 12:21	4
Vinyl chloride	ND		4.0	3.6	ug/L			07/03/19 12:21	4
Xylenes, Total	ND		8.0	2.6	ug/L			07/03/19 12:21	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			07/03/19 12:21	4
Styrene	ND		4.0	2.9	ug/L			07/03/19 12:21	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		07/03/19 12:21	4
4-Bromofluorobenzene (Surr)	85		73 - 120		07/03/19 12:21	4
Toluene-d8 (Surr)	92		80 - 120		07/03/19 12:21	4
Dibromofluoromethane (Surr)	98		75 - 123		07/03/19 12:21	4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		07/03/19 14:34	07/11/19 23:03	1
1,2,4-Trichlorobenzene	ND		10	0.44	ug/L		07/03/19 14:34	07/11/19 23:03	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/11/19 23:03	1
1,2-Dichlorobenzene	ND		10	0.40	ug/L		07/03/19 14:34	07/11/19 23:03	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		07/03/19 14:34	07/11/19 23:03	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		07/03/19 14:34	07/11/19 23:03	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		07/03/19 14:34	07/11/19 23:03	1
1,3-Dichlorobenzene	ND		10	0.48	ug/L		07/03/19 14:34	07/11/19 23:03	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/11/19 23:03	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		07/03/19 14:34	07/11/19 23:03	1
1,4-Dichlorobenzene	ND		10	0.46	ug/L		07/03/19 14:34	07/11/19 23:03	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 23:03	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		07/03/19 14:34	07/11/19 23:03	1
2-Chlorophenol	ND		5.0	0.53	ug/L		07/03/19 14:34	07/11/19 23:03	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		07/03/19 14:34	07/11/19 23:03	1
2-Methylphenol	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 23:03	1
2-Nitroaniline	ND		10	0.42	ug/L		07/03/19 14:34	07/11/19 23:03	1
2-Nitrophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/11/19 23:03	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 23:03	1
3-Nitroaniline	ND		10	0.48	ug/L		07/03/19 14:34	07/11/19 23:03	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		07/03/19 14:34	07/11/19 23:03	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		07/03/19 14:34	07/11/19 23:03	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		07/03/19 14:34	07/11/19 23:03	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: MW-5

Lab Sample ID: 480-155595-2

Date Collected: 06/26/19 13:30

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		5.0	0.59	ug/L		07/03/19 14:34	07/11/19 23:03	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		07/03/19 14:34	07/11/19 23:03	1
4-Methylphenol	ND		10	0.36	ug/L		07/03/19 14:34	07/11/19 23:03	1
4-Nitroaniline	ND		10	0.25	ug/L		07/03/19 14:34	07/11/19 23:03	1
4-Nitrophenol	ND		10	1.5	ug/L		07/03/19 14:34	07/11/19 23:03	1
Acenaphthene	ND		5.0	0.41	ug/L		07/03/19 14:34	07/11/19 23:03	1
Acenaphthylene	ND		5.0	0.38	ug/L		07/03/19 14:34	07/11/19 23:03	1
Anthracene	ND		5.0	0.28	ug/L		07/03/19 14:34	07/11/19 23:03	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/11/19 23:03	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/11/19 23:03	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/11/19 23:03	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		07/03/19 14:34	07/11/19 23:03	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		07/03/19 14:34	07/11/19 23:03	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		07/03/19 14:34	07/11/19 23:03	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 23:03	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		07/03/19 14:34	07/11/19 23:03	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		07/03/19 14:34	07/11/19 23:03	1
Carbazole	ND		5.0	0.30	ug/L		07/03/19 14:34	07/11/19 23:03	1
Chrysene	ND		5.0	0.33	ug/L		07/03/19 14:34	07/11/19 23:03	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		07/03/19 14:34	07/11/19 23:03	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		07/03/19 14:34	07/11/19 23:03	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		07/03/19 14:34	07/11/19 23:03	1
Dibenzofuran	ND		10	0.51	ug/L		07/03/19 14:34	07/11/19 23:03	1
Diethyl phthalate	ND		5.0	0.22	ug/L		07/03/19 14:34	07/11/19 23:03	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		07/03/19 14:34	07/11/19 23:03	1
Fluoranthene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 23:03	1
Fluorene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/11/19 23:03	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		07/03/19 14:34	07/11/19 23:03	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		07/03/19 14:34	07/11/19 23:03	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		07/03/19 14:34	07/11/19 23:03	1
Hexachloroethane	ND		5.0	0.59	ug/L		07/03/19 14:34	07/11/19 23:03	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/11/19 23:03	1
Isophorone	ND		5.0	0.43	ug/L		07/03/19 14:34	07/11/19 23:03	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		07/03/19 14:34	07/11/19 23:03	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		07/03/19 14:34	07/11/19 23:03	1
Naphthalene	ND		5.0	0.76	ug/L		07/03/19 14:34	07/11/19 23:03	1
Nitrobenzene	ND		5.0	0.29	ug/L		07/03/19 14:34	07/11/19 23:03	1
Pentachlorophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/11/19 23:03	1
Phenanthrene	0.98	J B	5.0	0.44	ug/L		07/03/19 14:34	07/11/19 23:03	1
Phenol	ND		5.0	0.39	ug/L		07/03/19 14:34	07/11/19 23:03	1
Pyrene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/11/19 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	103		41 - 120	07/03/19 14:34	07/11/19 23:03	1
2-Fluorobiphenyl	89		48 - 120	07/03/19 14:34	07/11/19 23:03	1
2-Fluorophenol	76		35 - 120	07/03/19 14:34	07/11/19 23:03	1
Nitrobenzene-d5	84		46 - 120	07/03/19 14:34	07/11/19 23:03	1
p-Terphenyl-d14	66		59 - 136	07/03/19 14:34	07/11/19 23:03	1
Phenol-d5	57		22 - 120	07/03/19 14:34	07/11/19 23:03	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: MW-5

Lab Sample ID: 480-155595-2

Date Collected: 06/26/19 13:30

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.54	0.19	ug/L		07/05/19 08:16	07/10/19 16:24	1
PCB-1221	ND		0.54	0.19	ug/L		07/05/19 08:16	07/10/19 16:24	1
PCB-1232	ND		0.54	0.19	ug/L		07/05/19 08:16	07/10/19 16:24	1
PCB-1242	ND		0.54	0.19	ug/L		07/05/19 08:16	07/10/19 16:24	1
PCB-1248	ND		0.54	0.19	ug/L		07/05/19 08:16	07/10/19 16:24	1
PCB-1254	ND		0.54	0.27	ug/L		07/05/19 08:16	07/10/19 16:24	1
PCB-1260	ND		0.54	0.27	ug/L		07/05/19 08:16	07/10/19 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	33		19 - 120	07/05/19 08:16	07/10/19 16:24	1
Tetrachloro-m-xylene	58		39 - 121	07/05/19 08:16	07/10/19 16:24	1

Client Sample ID: MW-6

Lab Sample ID: 480-155595-3

Date Collected: 06/26/19 09:30

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	4.0	3.3	ug/L			07/03/19 12:45	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			07/03/19 12:45	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/03/19 12:45	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			07/03/19 12:45	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/03/19 12:45	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/03/19 12:45	4
1,2-Dichloroethene, Total	ND		8.0	3.2	ug/L			07/03/19 12:45	4
1,2-Dichloropropane	ND	*	4.0	2.9	ug/L			07/03/19 12:45	4
2-Butanone (MEK)	ND		40	5.3	ug/L			07/03/19 12:45	4
2-Hexanone	ND		20	5.0	ug/L			07/03/19 12:45	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			07/03/19 12:45	4
Acetone	ND		40	12	ug/L			07/03/19 12:45	4
Benzene	ND		4.0	1.6	ug/L			07/03/19 12:45	4
Bromoform	ND		4.0	1.0	ug/L			07/03/19 12:45	4
Bromomethane	ND		4.0	2.8	ug/L			07/03/19 12:45	4
Carbon disulfide	ND		4.0	0.76	ug/L			07/03/19 12:45	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/03/19 12:45	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/03/19 12:45	4
Dibromochloromethane	ND		4.0	1.3	ug/L			07/03/19 12:45	4
Chloroethane	ND		4.0	1.3	ug/L			07/03/19 12:45	4
Chloroform	ND		4.0	1.4	ug/L			07/03/19 12:45	4
Chloromethane	ND		4.0	1.4	ug/L			07/03/19 12:45	4
Bromodichloromethane	ND		4.0	1.6	ug/L			07/03/19 12:45	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/03/19 12:45	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/03/19 12:45	4
Tetrachloroethene	ND		4.0	1.4	ug/L			07/03/19 12:45	4
Toluene	ND		4.0	2.0	ug/L			07/03/19 12:45	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			07/03/19 12:45	4
Trichloroethene	ND		4.0	1.8	ug/L			07/03/19 12:45	4
Vinyl chloride	ND		4.0	3.6	ug/L			07/03/19 12:45	4
Xylenes, Total	ND		8.0	2.6	ug/L			07/03/19 12:45	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			07/03/19 12:45	4

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: MW-6

Lab Sample ID: 480-155595-3

Date Collected: 06/26/19 09:30

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		4.0	2.9	ug/L			07/03/19 12:45	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					07/03/19 12:45	4
4-Bromofluorobenzene (Surr)	86		73 - 120					07/03/19 12:45	4
Toluene-d8 (Surr)	93		80 - 120					07/03/19 12:45	4
Dibromofluoromethane (Surr)	99		75 - 123					07/03/19 12:45	4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.3	0.55	ug/L		07/03/19 14:34	07/11/19 22:06	1
1,2,4-Trichlorobenzene	ND		11	0.47	ug/L		07/03/19 14:34	07/11/19 22:06	1
2,4,5-Trichlorophenol	ND		5.3	0.51	ug/L		07/03/19 14:34	07/11/19 22:06	1
1,2-Dichlorobenzene	ND		11	0.43	ug/L		07/03/19 14:34	07/11/19 22:06	1
2,4,6-Trichlorophenol	ND		5.3	0.65	ug/L		07/03/19 14:34	07/11/19 22:06	1
2,4-Dichlorophenol	ND		5.3	0.54	ug/L		07/03/19 14:34	07/11/19 22:06	1
2,4-Dimethylphenol	ND		5.3	0.53	ug/L		07/03/19 14:34	07/11/19 22:06	1
1,3-Dichlorobenzene	ND		11	0.51	ug/L		07/03/19 14:34	07/11/19 22:06	1
2,4-Dinitrophenol	ND		11	2.4	ug/L		07/03/19 14:34	07/11/19 22:06	1
2,4-Dinitrotoluene	ND		5.3	0.48	ug/L		07/03/19 14:34	07/11/19 22:06	1
1,4-Dichlorobenzene	ND		11	0.49	ug/L		07/03/19 14:34	07/11/19 22:06	1
2,6-Dinitrotoluene	ND		5.3	0.43	ug/L		07/03/19 14:34	07/11/19 22:06	1
2-Chloronaphthalene	ND		5.3	0.49	ug/L		07/03/19 14:34	07/11/19 22:06	1
2-Chlorophenol	ND		5.3	0.56	ug/L		07/03/19 14:34	07/11/19 22:06	1
2-Methylnaphthalene	ND		5.3	0.64	ug/L		07/03/19 14:34	07/11/19 22:06	1
2-Methylphenol	ND		5.3	0.43	ug/L		07/03/19 14:34	07/11/19 22:06	1
2-Nitroaniline	ND		11	0.45	ug/L		07/03/19 14:34	07/11/19 22:06	1
2-Nitrophenol	ND		5.3	0.51	ug/L		07/03/19 14:34	07/11/19 22:06	1
3,3'-Dichlorobenzidine	ND		5.3	0.43	ug/L		07/03/19 14:34	07/11/19 22:06	1
3-Nitroaniline	ND		11	0.51	ug/L		07/03/19 14:34	07/11/19 22:06	1
4,6-Dinitro-2-methylphenol	ND		11	2.3	ug/L		07/03/19 14:34	07/11/19 22:06	1
4-Bromophenyl phenyl ether	ND		5.3	0.48	ug/L		07/03/19 14:34	07/11/19 22:06	1
4-Chloro-3-methylphenol	ND		5.3	0.48	ug/L		07/03/19 14:34	07/11/19 22:06	1
4-Chloroaniline	ND		5.3	0.63	ug/L		07/03/19 14:34	07/11/19 22:06	1
4-Chlorophenyl phenyl ether	ND		5.3	0.37	ug/L		07/03/19 14:34	07/11/19 22:06	1
4-Methylphenol	ND		11	0.38	ug/L		07/03/19 14:34	07/11/19 22:06	1
4-Nitroaniline	ND		11	0.27	ug/L		07/03/19 14:34	07/11/19 22:06	1
4-Nitrophenol	ND		11	1.6	ug/L		07/03/19 14:34	07/11/19 22:06	1
Acenaphthene	ND		5.3	0.44	ug/L		07/03/19 14:34	07/11/19 22:06	1
Acenaphthylene	ND		5.3	0.40	ug/L		07/03/19 14:34	07/11/19 22:06	1
Anthracene	ND		5.3	0.30	ug/L		07/03/19 14:34	07/11/19 22:06	1
Benzo[a]anthracene	ND		5.3	0.38	ug/L		07/03/19 14:34	07/11/19 22:06	1
Benzo[a]pyrene	ND		5.3	0.50	ug/L		07/03/19 14:34	07/11/19 22:06	1
Benzo[b]fluoranthene	ND		5.3	0.36	ug/L		07/03/19 14:34	07/11/19 22:06	1
Benzo[g,h,i]perylene	ND		5.3	0.37	ug/L		07/03/19 14:34	07/11/19 22:06	1
Benzo[k]fluoranthene	ND		5.3	0.78	ug/L		07/03/19 14:34	07/11/19 22:06	1
Bis(2-chloroethoxy)methane	ND		5.3	0.37	ug/L		07/03/19 14:34	07/11/19 22:06	1
Bis(2-chloroethyl)ether	ND		5.3	0.43	ug/L		07/03/19 14:34	07/11/19 22:06	1
Bis(2-ethylhexyl) phthalate	ND		5.3	2.3	ug/L		07/03/19 14:34	07/11/19 22:06	1
Butyl benzyl phthalate	ND		5.3	1.1	ug/L		07/03/19 14:34	07/11/19 22:06	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: MW-6

Lab Sample ID: 480-155595-3

Date Collected: 06/26/19 09:30

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		5.3	0.32	ug/L		07/03/19 14:34	07/11/19 22:06	1
Chrysene	ND		5.3	0.35	ug/L		07/03/19 14:34	07/11/19 22:06	1
Di-n-butyl phthalate	ND		5.3	0.33	ug/L		07/03/19 14:34	07/11/19 22:06	1
Di-n-octyl phthalate	ND		5.3	0.50	ug/L		07/03/19 14:34	07/11/19 22:06	1
Dibenz(a,h)anthracene	ND		5.3	0.45	ug/L		07/03/19 14:34	07/11/19 22:06	1
Dibenzofuran	ND		11	0.54	ug/L		07/03/19 14:34	07/11/19 22:06	1
Diethyl phthalate	ND		5.3	0.23	ug/L		07/03/19 14:34	07/11/19 22:06	1
Dimethyl phthalate	ND		5.3	0.38	ug/L		07/03/19 14:34	07/11/19 22:06	1
Fluoranthene	ND		5.3	0.43	ug/L		07/03/19 14:34	07/11/19 22:06	1
Fluorene	ND		5.3	0.38	ug/L		07/03/19 14:34	07/11/19 22:06	1
Hexachlorobenzene	ND		5.3	0.54	ug/L		07/03/19 14:34	07/11/19 22:06	1
Hexachlorobutadiene	ND		5.3	0.72	ug/L		07/03/19 14:34	07/11/19 22:06	1
Hexachlorocyclopentadiene	ND		5.3	0.63	ug/L		07/03/19 14:34	07/11/19 22:06	1
Hexachloroethane	ND		5.3	0.63	ug/L		07/03/19 14:34	07/11/19 22:06	1
Indeno[1,2,3-cd]pyrene	ND		5.3	0.50	ug/L		07/03/19 14:34	07/11/19 22:06	1
Isophorone	ND		5.3	0.46	ug/L		07/03/19 14:34	07/11/19 22:06	1
N-Nitrosodi-n-propylamine	ND		5.3	0.57	ug/L		07/03/19 14:34	07/11/19 22:06	1
N-Nitrosodiphenylamine	ND		5.3	0.54	ug/L		07/03/19 14:34	07/11/19 22:06	1
Naphthalene	ND		5.3	0.81	ug/L		07/03/19 14:34	07/11/19 22:06	1
Nitrobenzene	ND		5.3	0.31	ug/L		07/03/19 14:34	07/11/19 22:06	1
Pentachlorophenol	ND		11	2.3	ug/L		07/03/19 14:34	07/11/19 22:06	1
Phenanthrene	1.1	J B	5.3	0.47	ug/L		07/03/19 14:34	07/11/19 22:06	1
Phenol	ND		5.3	0.41	ug/L		07/03/19 14:34	07/11/19 22:06	1
Pyrene	ND		5.3	0.36	ug/L		07/03/19 14:34	07/11/19 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	106		41 - 120	07/03/19 14:34	07/11/19 22:06	1
2-Fluorobiphenyl	98		48 - 120	07/03/19 14:34	07/11/19 22:06	1
2-Fluorophenol	84		35 - 120	07/03/19 14:34	07/11/19 22:06	1
Nitrobenzene-d5	91		46 - 120	07/03/19 14:34	07/11/19 22:06	1
p-Terphenyl-d14	82		59 - 136	07/03/19 14:34	07/11/19 22:06	1
Phenol-d5	63		22 - 120	07/03/19 14:34	07/11/19 22:06	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 15:33	1
PCB-1221	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 15:33	1
PCB-1232	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 15:33	1
PCB-1242	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 15:33	1
PCB-1248	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 15:33	1
PCB-1254	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 15:33	1
PCB-1260	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	41		19 - 120	07/05/19 08:16	07/10/19 15:33	1
Tetrachloro-m-xylene	60		39 - 121	07/05/19 08:16	07/10/19 15:33	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: RW-4

Lab Sample ID: 480-155595-4

Date Collected: 06/27/19 13:00

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	4.0	3.3	ug/L			07/03/19 13:09	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			07/03/19 13:09	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/03/19 13:09	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			07/03/19 13:09	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/03/19 13:09	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/03/19 13:09	4
1,2-Dichloroethene, Total	ND		8.0	3.2	ug/L			07/03/19 13:09	4
1,2-Dichloropropane	ND	*	4.0	2.9	ug/L			07/03/19 13:09	4
2-Butanone (MEK)	ND		40	5.3	ug/L			07/03/19 13:09	4
2-Hexanone	ND		20	5.0	ug/L			07/03/19 13:09	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			07/03/19 13:09	4
Acetone	ND		40	12	ug/L			07/03/19 13:09	4
Benzene	6.0		4.0	1.6	ug/L			07/03/19 13:09	4
Bromoform	ND		4.0	1.0	ug/L			07/03/19 13:09	4
Bromomethane	ND		4.0	2.8	ug/L			07/03/19 13:09	4
Carbon disulfide	ND		4.0	0.76	ug/L			07/03/19 13:09	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/03/19 13:09	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/03/19 13:09	4
Dibromochloromethane	ND		4.0	1.3	ug/L			07/03/19 13:09	4
Chloroethane	ND		4.0	1.3	ug/L			07/03/19 13:09	4
Chloroform	ND		4.0	1.4	ug/L			07/03/19 13:09	4
Chloromethane	ND		4.0	1.4	ug/L			07/03/19 13:09	4
Bromodichloromethane	ND		4.0	1.6	ug/L			07/03/19 13:09	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/03/19 13:09	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/03/19 13:09	4
Tetrachloroethene	ND		4.0	1.4	ug/L			07/03/19 13:09	4
Toluene	ND		4.0	2.0	ug/L			07/03/19 13:09	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			07/03/19 13:09	4
Trichloroethene	ND		4.0	1.8	ug/L			07/03/19 13:09	4
Vinyl chloride	ND		4.0	3.6	ug/L			07/03/19 13:09	4
Xylenes, Total	ND		8.0	2.6	ug/L			07/03/19 13:09	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			07/03/19 13:09	4
Styrene	ND		4.0	2.9	ug/L			07/03/19 13:09	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		07/03/19 13:09	4
4-Bromofluorobenzene (Surr)	85		73 - 120		07/03/19 13:09	4
Toluene-d8 (Surr)	92		80 - 120		07/03/19 13:09	4
Dibromofluoromethane (Surr)	97		75 - 123		07/03/19 13:09	4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		07/03/19 14:34	07/11/19 23:32	1
1,2,4-Trichlorobenzene	ND		10	0.44	ug/L		07/03/19 14:34	07/11/19 23:32	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/11/19 23:32	1
1,2-Dichlorobenzene	ND		10	0.40	ug/L		07/03/19 14:34	07/11/19 23:32	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		07/03/19 14:34	07/11/19 23:32	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		07/03/19 14:34	07/11/19 23:32	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		07/03/19 14:34	07/11/19 23:32	1
1,3-Dichlorobenzene	ND		10	0.48	ug/L		07/03/19 14:34	07/11/19 23:32	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: RW-4

Lab Sample ID: 480-155595-4

Date Collected: 06/27/19 13:00

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/11/19 23:32	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		07/03/19 14:34	07/11/19 23:32	1
1,4-Dichlorobenzene	ND		10	0.46	ug/L		07/03/19 14:34	07/11/19 23:32	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 23:32	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		07/03/19 14:34	07/11/19 23:32	1
2-Chlorophenol	ND		5.0	0.53	ug/L		07/03/19 14:34	07/11/19 23:32	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		07/03/19 14:34	07/11/19 23:32	1
2-Methylphenol	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 23:32	1
2-Nitroaniline	ND		10	0.42	ug/L		07/03/19 14:34	07/11/19 23:32	1
2-Nitrophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/11/19 23:32	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 23:32	1
3-Nitroaniline	ND		10	0.48	ug/L		07/03/19 14:34	07/11/19 23:32	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		07/03/19 14:34	07/11/19 23:32	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		07/03/19 14:34	07/11/19 23:32	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		07/03/19 14:34	07/11/19 23:32	1
4-Chloroaniline	ND		5.0	0.59	ug/L		07/03/19 14:34	07/11/19 23:32	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		07/03/19 14:34	07/11/19 23:32	1
4-Methylphenol	ND		10	0.36	ug/L		07/03/19 14:34	07/11/19 23:32	1
4-Nitroaniline	ND		10	0.25	ug/L		07/03/19 14:34	07/11/19 23:32	1
4-Nitrophenol	ND		10	1.5	ug/L		07/03/19 14:34	07/11/19 23:32	1
Acenaphthene	ND		5.0	0.41	ug/L		07/03/19 14:34	07/11/19 23:32	1
Acenaphthylene	ND		5.0	0.38	ug/L		07/03/19 14:34	07/11/19 23:32	1
Anthracene	ND		5.0	0.28	ug/L		07/03/19 14:34	07/11/19 23:32	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/11/19 23:32	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/11/19 23:32	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/11/19 23:32	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		07/03/19 14:34	07/11/19 23:32	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		07/03/19 14:34	07/11/19 23:32	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		07/03/19 14:34	07/11/19 23:32	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 23:32	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		07/03/19 14:34	07/11/19 23:32	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		07/03/19 14:34	07/11/19 23:32	1
Carbazole	ND		5.0	0.30	ug/L		07/03/19 14:34	07/11/19 23:32	1
Chrysene	ND		5.0	0.33	ug/L		07/03/19 14:34	07/11/19 23:32	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		07/03/19 14:34	07/11/19 23:32	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		07/03/19 14:34	07/11/19 23:32	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		07/03/19 14:34	07/11/19 23:32	1
Dibenzofuran	ND		10	0.51	ug/L		07/03/19 14:34	07/11/19 23:32	1
Diethyl phthalate	0.26	J	5.0	0.22	ug/L		07/03/19 14:34	07/11/19 23:32	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		07/03/19 14:34	07/11/19 23:32	1
Fluoranthene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 23:32	1
Fluorene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/11/19 23:32	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		07/03/19 14:34	07/11/19 23:32	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		07/03/19 14:34	07/11/19 23:32	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		07/03/19 14:34	07/11/19 23:32	1
Hexachloroethane	ND		5.0	0.59	ug/L		07/03/19 14:34	07/11/19 23:32	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/11/19 23:32	1
Isophorone	ND		5.0	0.43	ug/L		07/03/19 14:34	07/11/19 23:32	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		07/03/19 14:34	07/11/19 23:32	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: RW-4

Lab Sample ID: 480-155595-4

Date Collected: 06/27/19 13:00

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		07/03/19 14:34	07/11/19 23:32	1
Naphthalene	ND		5.0	0.76	ug/L		07/03/19 14:34	07/11/19 23:32	1
Nitrobenzene	ND		5.0	0.29	ug/L		07/03/19 14:34	07/11/19 23:32	1
Pentachlorophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/11/19 23:32	1
Phenanthrene	1.1	J B	5.0	0.44	ug/L		07/03/19 14:34	07/11/19 23:32	1
Phenol	ND		5.0	0.39	ug/L		07/03/19 14:34	07/11/19 23:32	1
Pyrene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/11/19 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	109		41 - 120	07/03/19 14:34	07/11/19 23:32	1
2-Fluorobiphenyl	92		48 - 120	07/03/19 14:34	07/11/19 23:32	1
2-Fluorophenol	77		35 - 120	07/03/19 14:34	07/11/19 23:32	1
Nitrobenzene-d5	88		46 - 120	07/03/19 14:34	07/11/19 23:32	1
p-Terphenyl-d14	77		59 - 136	07/03/19 14:34	07/11/19 23:32	1
Phenol-d5	57		22 - 120	07/03/19 14:34	07/11/19 23:32	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:37	1
PCB-1221	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:37	1
PCB-1232	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:37	1
PCB-1242	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:37	1
PCB-1248	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:37	1
PCB-1254	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 16:37	1
PCB-1260	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	30		19 - 120	07/05/19 08:16	07/10/19 16:37	1
Tetrachloro-m-xylene	61		39 - 121	07/05/19 08:16	07/10/19 16:37	1

Client Sample ID: RW-5

Lab Sample ID: 480-155595-5

Date Collected: 06/27/19 14:10

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	4.0	3.3	ug/L			07/03/19 13:32	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			07/03/19 13:32	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/03/19 13:32	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			07/03/19 13:32	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/03/19 13:32	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/03/19 13:32	4
1,2-Dichloroethene, Total	ND		8.0	3.2	ug/L			07/03/19 13:32	4
1,2-Dichloropropane	ND	*	4.0	2.9	ug/L			07/03/19 13:32	4
2-Butanone (MEK)	ND		40	5.3	ug/L			07/03/19 13:32	4
2-Hexanone	ND		20	5.0	ug/L			07/03/19 13:32	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			07/03/19 13:32	4
Acetone	ND		40	12	ug/L			07/03/19 13:32	4
Benzene	ND		4.0	1.6	ug/L			07/03/19 13:32	4
Bromoform	ND		4.0	1.0	ug/L			07/03/19 13:32	4
Bromomethane	ND		4.0	2.8	ug/L			07/03/19 13:32	4

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: RW-5

Lab Sample ID: 480-155595-5

Date Collected: 06/27/19 14:10

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		4.0	0.76	ug/L			07/03/19 13:32	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/03/19 13:32	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/03/19 13:32	4
Dibromochloromethane	ND		4.0	1.3	ug/L			07/03/19 13:32	4
Chloroethane	ND		4.0	1.3	ug/L			07/03/19 13:32	4
Chloroform	ND		4.0	1.4	ug/L			07/03/19 13:32	4
Chloromethane	ND		4.0	1.4	ug/L			07/03/19 13:32	4
Bromodichloromethane	ND		4.0	1.6	ug/L			07/03/19 13:32	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/03/19 13:32	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/03/19 13:32	4
Tetrachloroethene	ND		4.0	1.4	ug/L			07/03/19 13:32	4
Toluene	ND		4.0	2.0	ug/L			07/03/19 13:32	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			07/03/19 13:32	4
Trichloroethene	ND		4.0	1.8	ug/L			07/03/19 13:32	4
Vinyl chloride	ND		4.0	3.6	ug/L			07/03/19 13:32	4
Xylenes, Total	ND		8.0	2.6	ug/L			07/03/19 13:32	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			07/03/19 13:32	4
Styrene	ND		4.0	2.9	ug/L			07/03/19 13:32	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		07/03/19 13:32	4
4-Bromofluorobenzene (Surr)	79		73 - 120		07/03/19 13:32	4
Toluene-d8 (Surr)	95		80 - 120		07/03/19 13:32	4
Dibromofluoromethane (Surr)	107		75 - 123		07/03/19 13:32	4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		07/03/19 14:34	07/12/19 00:01	1
1,2,4-Trichlorobenzene	ND		10	0.44	ug/L		07/03/19 14:34	07/12/19 00:01	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/12/19 00:01	1
1,2-Dichlorobenzene	ND		10	0.40	ug/L		07/03/19 14:34	07/12/19 00:01	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		07/03/19 14:34	07/12/19 00:01	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		07/03/19 14:34	07/12/19 00:01	1
2,4-Dimethylphenol	1.0	J	5.0	0.50	ug/L		07/03/19 14:34	07/12/19 00:01	1
1,3-Dichlorobenzene	ND		10	0.48	ug/L		07/03/19 14:34	07/12/19 00:01	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/12/19 00:01	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		07/03/19 14:34	07/12/19 00:01	1
1,4-Dichlorobenzene	ND		10	0.46	ug/L		07/03/19 14:34	07/12/19 00:01	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:01	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		07/03/19 14:34	07/12/19 00:01	1
2-Chlorophenol	ND		5.0	0.53	ug/L		07/03/19 14:34	07/12/19 00:01	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		07/03/19 14:34	07/12/19 00:01	1
2-Methylphenol	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:01	1
2-Nitroaniline	ND		10	0.42	ug/L		07/03/19 14:34	07/12/19 00:01	1
2-Nitrophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/12/19 00:01	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:01	1
3-Nitroaniline	ND		10	0.48	ug/L		07/03/19 14:34	07/12/19 00:01	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		07/03/19 14:34	07/12/19 00:01	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		07/03/19 14:34	07/12/19 00:01	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		07/03/19 14:34	07/12/19 00:01	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: RW-5

Lab Sample ID: 480-155595-5

Date Collected: 06/27/19 14:10

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		5.0	0.59	ug/L		07/03/19 14:34	07/12/19 00:01	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		07/03/19 14:34	07/12/19 00:01	1
4-Methylphenol	ND		10	0.36	ug/L		07/03/19 14:34	07/12/19 00:01	1
4-Nitroaniline	ND		10	0.25	ug/L		07/03/19 14:34	07/12/19 00:01	1
4-Nitrophenol	ND		10	1.5	ug/L		07/03/19 14:34	07/12/19 00:01	1
Acenaphthene	ND		5.0	0.41	ug/L		07/03/19 14:34	07/12/19 00:01	1
Acenaphthylene	ND		5.0	0.38	ug/L		07/03/19 14:34	07/12/19 00:01	1
Anthracene	0.37	J	5.0	0.28	ug/L		07/03/19 14:34	07/12/19 00:01	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/12/19 00:01	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/12/19 00:01	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/12/19 00:01	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		07/03/19 14:34	07/12/19 00:01	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		07/03/19 14:34	07/12/19 00:01	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		07/03/19 14:34	07/12/19 00:01	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:01	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		07/03/19 14:34	07/12/19 00:01	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		07/03/19 14:34	07/12/19 00:01	1
Carbazole	ND		5.0	0.30	ug/L		07/03/19 14:34	07/12/19 00:01	1
Chrysene	ND		5.0	0.33	ug/L		07/03/19 14:34	07/12/19 00:01	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		07/03/19 14:34	07/12/19 00:01	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		07/03/19 14:34	07/12/19 00:01	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		07/03/19 14:34	07/12/19 00:01	1
Dibenzofuran	ND		10	0.51	ug/L		07/03/19 14:34	07/12/19 00:01	1
Diethyl phthalate	ND		5.0	0.22	ug/L		07/03/19 14:34	07/12/19 00:01	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		07/03/19 14:34	07/12/19 00:01	1
Fluoranthene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:01	1
Fluorene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/12/19 00:01	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		07/03/19 14:34	07/12/19 00:01	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		07/03/19 14:34	07/12/19 00:01	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		07/03/19 14:34	07/12/19 00:01	1
Hexachloroethane	ND		5.0	0.59	ug/L		07/03/19 14:34	07/12/19 00:01	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/12/19 00:01	1
Isophorone	ND		5.0	0.43	ug/L		07/03/19 14:34	07/12/19 00:01	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		07/03/19 14:34	07/12/19 00:01	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		07/03/19 14:34	07/12/19 00:01	1
Naphthalene	ND		5.0	0.76	ug/L		07/03/19 14:34	07/12/19 00:01	1
Nitrobenzene	ND		5.0	0.29	ug/L		07/03/19 14:34	07/12/19 00:01	1
Pentachlorophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/12/19 00:01	1
Phenanthrene	1.1	J B	5.0	0.44	ug/L		07/03/19 14:34	07/12/19 00:01	1
Phenol	ND		5.0	0.39	ug/L		07/03/19 14:34	07/12/19 00:01	1
Pyrene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/12/19 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	93		41 - 120	07/03/19 14:34	07/12/19 00:01	1
2-Fluorobiphenyl	90		48 - 120	07/03/19 14:34	07/12/19 00:01	1
2-Fluorophenol	79		35 - 120	07/03/19 14:34	07/12/19 00:01	1
Nitrobenzene-d5	85		46 - 120	07/03/19 14:34	07/12/19 00:01	1
p-Terphenyl-d14	55	X	59 - 136	07/03/19 14:34	07/12/19 00:01	1
Phenol-d5	60		22 - 120	07/03/19 14:34	07/12/19 00:01	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: RW-5

Lab Sample ID: 480-155595-5

Date Collected: 06/27/19 14:10

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:50	1
PCB-1221	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:50	1
PCB-1232	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:50	1
PCB-1242	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:50	1
PCB-1248	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 16:50	1
PCB-1254	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 16:50	1
PCB-1260	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	46		19 - 120	07/05/19 08:16	07/10/19 16:50	1
Tetrachloro-m-xylene	64		39 - 121	07/05/19 08:16	07/10/19 16:50	1

Client Sample ID: S-1

Lab Sample ID: 480-155595-6

Date Collected: 06/27/19 10:15

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	4.0	3.3	ug/L			07/03/19 13:56	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			07/03/19 13:56	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/03/19 13:56	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			07/03/19 13:56	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/03/19 13:56	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/03/19 13:56	4
1,2-Dichloroethene, Total	ND		8.0	3.2	ug/L			07/03/19 13:56	4
1,2-Dichloropropane	ND	*	4.0	2.9	ug/L			07/03/19 13:56	4
2-Butanone (MEK)	ND		40	5.3	ug/L			07/03/19 13:56	4
2-Hexanone	ND		20	5.0	ug/L			07/03/19 13:56	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			07/03/19 13:56	4
Acetone	ND		40	12	ug/L			07/03/19 13:56	4
Benzene	ND		4.0	1.6	ug/L			07/03/19 13:56	4
Bromoform	ND		4.0	1.0	ug/L			07/03/19 13:56	4
Bromomethane	ND		4.0	2.8	ug/L			07/03/19 13:56	4
Carbon disulfide	ND		4.0	0.76	ug/L			07/03/19 13:56	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/03/19 13:56	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/03/19 13:56	4
Dibromochloromethane	ND		4.0	1.3	ug/L			07/03/19 13:56	4
Chloroethane	ND		4.0	1.3	ug/L			07/03/19 13:56	4
Chloroform	ND		4.0	1.4	ug/L			07/03/19 13:56	4
Chloromethane	ND		4.0	1.4	ug/L			07/03/19 13:56	4
Bromodichloromethane	ND		4.0	1.6	ug/L			07/03/19 13:56	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/03/19 13:56	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/03/19 13:56	4
Tetrachloroethene	ND		4.0	1.4	ug/L			07/03/19 13:56	4
Toluene	ND		4.0	2.0	ug/L			07/03/19 13:56	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			07/03/19 13:56	4
Trichloroethene	ND		4.0	1.8	ug/L			07/03/19 13:56	4
Vinyl chloride	ND		4.0	3.6	ug/L			07/03/19 13:56	4
Xylenes, Total	ND		8.0	2.6	ug/L			07/03/19 13:56	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			07/03/19 13:56	4

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-1

Lab Sample ID: 480-155595-6

Date Collected: 06/27/19 10:15

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		4.0	2.9	ug/L			07/03/19 13:56	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					07/03/19 13:56	4
4-Bromofluorobenzene (Surr)	85		73 - 120					07/03/19 13:56	4
Toluene-d8 (Surr)	92		80 - 120					07/03/19 13:56	4
Dibromofluoromethane (Surr)	100		75 - 123					07/03/19 13:56	4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		07/03/19 14:34	07/12/19 00:30	1
1,2,4-Trichlorobenzene	ND		10	0.44	ug/L		07/03/19 14:34	07/12/19 00:30	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/12/19 00:30	1
1,2-Dichlorobenzene	ND		10	0.40	ug/L		07/03/19 14:34	07/12/19 00:30	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		07/03/19 14:34	07/12/19 00:30	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		07/03/19 14:34	07/12/19 00:30	1
2,4-Dimethylphenol	2.5	J	5.0	0.50	ug/L		07/03/19 14:34	07/12/19 00:30	1
1,3-Dichlorobenzene	ND		10	0.48	ug/L		07/03/19 14:34	07/12/19 00:30	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/12/19 00:30	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		07/03/19 14:34	07/12/19 00:30	1
1,4-Dichlorobenzene	ND		10	0.46	ug/L		07/03/19 14:34	07/12/19 00:30	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:30	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		07/03/19 14:34	07/12/19 00:30	1
2-Chlorophenol	ND		5.0	0.53	ug/L		07/03/19 14:34	07/12/19 00:30	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		07/03/19 14:34	07/12/19 00:30	1
2-Methylphenol	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:30	1
2-Nitroaniline	ND		10	0.42	ug/L		07/03/19 14:34	07/12/19 00:30	1
2-Nitrophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/12/19 00:30	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:30	1
3-Nitroaniline	ND		10	0.48	ug/L		07/03/19 14:34	07/12/19 00:30	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		07/03/19 14:34	07/12/19 00:30	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		07/03/19 14:34	07/12/19 00:30	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		07/03/19 14:34	07/12/19 00:30	1
4-Chloroaniline	ND		5.0	0.59	ug/L		07/03/19 14:34	07/12/19 00:30	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		07/03/19 14:34	07/12/19 00:30	1
4-Methylphenol	ND		10	0.36	ug/L		07/03/19 14:34	07/12/19 00:30	1
4-Nitroaniline	ND		10	0.25	ug/L		07/03/19 14:34	07/12/19 00:30	1
4-Nitrophenol	ND		10	1.5	ug/L		07/03/19 14:34	07/12/19 00:30	1
Acenaphthene	ND		5.0	0.41	ug/L		07/03/19 14:34	07/12/19 00:30	1
Acenaphthylene	ND		5.0	0.38	ug/L		07/03/19 14:34	07/12/19 00:30	1
Anthracene	0.41	J	5.0	0.28	ug/L		07/03/19 14:34	07/12/19 00:30	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/12/19 00:30	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/12/19 00:30	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/12/19 00:30	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		07/03/19 14:34	07/12/19 00:30	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		07/03/19 14:34	07/12/19 00:30	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		07/03/19 14:34	07/12/19 00:30	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:30	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		07/03/19 14:34	07/12/19 00:30	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		07/03/19 14:34	07/12/19 00:30	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-1

Lab Sample ID: 480-155595-6

Date Collected: 06/27/19 10:15

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	0.31	J	5.0	0.30	ug/L		07/03/19 14:34	07/12/19 00:30	1
Chrysene	ND		5.0	0.33	ug/L		07/03/19 14:34	07/12/19 00:30	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		07/03/19 14:34	07/12/19 00:30	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		07/03/19 14:34	07/12/19 00:30	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		07/03/19 14:34	07/12/19 00:30	1
Dibenzofuran	ND		10	0.51	ug/L		07/03/19 14:34	07/12/19 00:30	1
Diethyl phthalate	ND		5.0	0.22	ug/L		07/03/19 14:34	07/12/19 00:30	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		07/03/19 14:34	07/12/19 00:30	1
Fluoranthene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:30	1
Fluorene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/12/19 00:30	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		07/03/19 14:34	07/12/19 00:30	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		07/03/19 14:34	07/12/19 00:30	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		07/03/19 14:34	07/12/19 00:30	1
Hexachloroethane	ND		5.0	0.59	ug/L		07/03/19 14:34	07/12/19 00:30	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/12/19 00:30	1
Isophorone	ND		5.0	0.43	ug/L		07/03/19 14:34	07/12/19 00:30	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		07/03/19 14:34	07/12/19 00:30	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		07/03/19 14:34	07/12/19 00:30	1
Naphthalene	ND		5.0	0.76	ug/L		07/03/19 14:34	07/12/19 00:30	1
Nitrobenzene	ND		5.0	0.29	ug/L		07/03/19 14:34	07/12/19 00:30	1
Pentachlorophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/12/19 00:30	1
Phenanthrene	1.0	J B	5.0	0.44	ug/L		07/03/19 14:34	07/12/19 00:30	1
Phenol	ND		5.0	0.39	ug/L		07/03/19 14:34	07/12/19 00:30	1
Pyrene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/12/19 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	104		41 - 120	07/03/19 14:34	07/12/19 00:30	1
2-Fluorobiphenyl	98		48 - 120	07/03/19 14:34	07/12/19 00:30	1
2-Fluorophenol	87		35 - 120	07/03/19 14:34	07/12/19 00:30	1
Nitrobenzene-d5	93		46 - 120	07/03/19 14:34	07/12/19 00:30	1
p-Terphenyl-d14	61		59 - 136	07/03/19 14:34	07/12/19 00:30	1
Phenol-d5	64		22 - 120	07/03/19 14:34	07/12/19 00:30	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.052	0.0096	ug/L		07/03/19 14:42	07/08/19 15:58	1
4,4'-DDE	0.017	J	0.052	0.012	ug/L		07/03/19 14:42	07/08/19 15:58	1
4,4'-DDT	ND		0.052	0.011	ug/L		07/03/19 14:42	07/08/19 15:58	1
Aldrin	ND		0.052	0.0084	ug/L		07/03/19 14:42	07/08/19 15:58	1
alpha-BHC	ND		0.052	0.0080	ug/L		07/03/19 14:42	07/08/19 15:58	1
cis-Chlordane	ND		0.052	0.015	ug/L		07/03/19 14:42	07/08/19 15:58	1
beta-BHC	ND		0.052	0.026	ug/L		07/03/19 14:42	07/08/19 15:58	1
delta-BHC	0.022	J B	0.052	0.010	ug/L		07/03/19 14:42	07/08/19 15:58	1
Dieldrin	ND		0.052	0.010	ug/L		07/03/19 14:42	07/08/19 15:58	1
Endosulfan I	ND		0.052	0.011	ug/L		07/03/19 14:42	07/08/19 15:58	1
Endosulfan II	ND		0.052	0.013	ug/L		07/03/19 14:42	07/08/19 15:58	1
Endosulfan sulfate	ND		0.052	0.016	ug/L		07/03/19 14:42	07/08/19 15:58	1
Endrin	ND		0.052	0.014	ug/L		07/03/19 14:42	07/08/19 15:58	1
Endrin aldehyde	ND		0.052	0.017	ug/L		07/03/19 14:42	07/08/19 15:58	1
Endrin ketone	ND		0.052	0.013	ug/L		07/03/19 14:42	07/08/19 15:58	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-1

Lab Sample ID: 480-155595-6

Date Collected: 06/27/19 10:15

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		0.052	0.0083	ug/L		07/03/19 14:42	07/08/19 15:58	1
trans-Chlordane	ND		0.052	0.011	ug/L		07/03/19 14:42	07/08/19 15:58	1
Heptachlor	ND		0.052	0.0089	ug/L		07/03/19 14:42	07/08/19 15:58	1
Heptachlor epoxide	ND		0.052	0.0077	ug/L		07/03/19 14:42	07/08/19 15:58	1
Methoxychlor	ND		0.052	0.015	ug/L		07/03/19 14:42	07/08/19 15:58	1
Toxaphene	ND		0.52	0.13	ug/L		07/03/19 14:42	07/08/19 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	42		20 - 120	07/03/19 14:42	07/08/19 15:58	1
Tetrachloro-m-xylene	92		44 - 120	07/03/19 14:42	07/08/19 15:58	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:03	1
PCB-1221	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:03	1
PCB-1232	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:03	1
PCB-1242	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:03	1
PCB-1248	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:03	1
PCB-1254	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 17:03	1
PCB-1260	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	33		19 - 120	07/05/19 08:16	07/10/19 17:03	1
Tetrachloro-m-xylene	63		39 - 121	07/05/19 08:16	07/10/19 17:03	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/05/19 07:47	07/05/19 18:24	1
Antimony	ND		0.020	0.0068	mg/L		07/05/19 07:47	07/05/19 18:24	1
Arsenic	ND		0.010	0.0056	mg/L		07/05/19 07:47	07/05/19 18:24	1
Barium	0.11		0.0020	0.00070	mg/L		07/05/19 07:47	07/05/19 18:24	1
Beryllium	ND		0.0020	0.00030	mg/L		07/05/19 07:47	07/05/19 18:24	1
Cadmium	ND		0.0010	0.00050	mg/L		07/05/19 07:47	07/05/19 18:24	1
Calcium	49.7		0.50	0.10	mg/L		07/05/19 07:47	07/05/19 18:24	1
Chromium	ND		0.0040	0.0010	mg/L		07/05/19 07:47	07/05/19 18:24	1
Cobalt	ND		0.0040	0.00063	mg/L		07/05/19 07:47	07/05/19 18:24	1
Copper	ND		0.010	0.0016	mg/L		07/05/19 07:47	07/05/19 18:24	1
Iron	2.9		0.050	0.019	mg/L		07/05/19 07:47	07/05/19 18:24	1
Lead	ND		0.0050	0.0030	mg/L		07/05/19 07:47	07/05/19 18:24	1
Magnesium	13.4		0.20	0.043	mg/L		07/05/19 07:47	07/05/19 18:24	1
Manganese	1.0		0.0030	0.00040	mg/L		07/05/19 07:47	07/05/19 18:24	1
Nickel	ND		0.010	0.0013	mg/L		07/05/19 07:47	07/05/19 18:24	1
Potassium	14.7		0.50	0.10	mg/L		07/05/19 07:47	07/05/19 18:24	1
Selenium	ND		0.015	0.0087	mg/L		07/05/19 07:47	07/05/19 18:24	1
Silver	ND		0.0030	0.0017	mg/L		07/05/19 07:47	07/05/19 18:24	1
Sodium	47.9		1.0	0.32	mg/L		07/05/19 07:47	07/05/19 18:24	1
Thallium	ND		0.020	0.010	mg/L		07/05/19 07:47	07/05/19 18:24	1
Vanadium	ND		0.0050	0.0015	mg/L		07/05/19 07:47	07/05/19 18:24	1
Zinc	0.0047	J B	0.010	0.0015	mg/L		07/05/19 07:47	07/05/19 18:24	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-1

Lab Sample ID: 480-155595-6

Date Collected: 06/27/19 10:15

Matrix: Water

Date Received: 06/27/19 14:55

Method: 7470A_ASP - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/05/19 11:55	07/05/19 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		07/09/19 13:58	07/10/19 13:14	1

Client Sample ID: S-2

Lab Sample ID: 480-155595-7

Date Collected: 06/26/19 14:45

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	4.0	3.3	ug/L			07/03/19 14:20	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			07/03/19 14:20	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/03/19 14:20	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			07/03/19 14:20	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/03/19 14:20	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/03/19 14:20	4
1,2-Dichloroethene, Total	ND		8.0	3.2	ug/L			07/03/19 14:20	4
1,2-Dichloropropane	ND	*	4.0	2.9	ug/L			07/03/19 14:20	4
2-Butanone (MEK)	ND		40	5.3	ug/L			07/03/19 14:20	4
2-Hexanone	ND		20	5.0	ug/L			07/03/19 14:20	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			07/03/19 14:20	4
Acetone	ND		40	12	ug/L			07/03/19 14:20	4
Benzene	ND		4.0	1.6	ug/L			07/03/19 14:20	4
Bromoform	ND		4.0	1.0	ug/L			07/03/19 14:20	4
Bromomethane	ND		4.0	2.8	ug/L			07/03/19 14:20	4
Carbon disulfide	ND		4.0	0.76	ug/L			07/03/19 14:20	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/03/19 14:20	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/03/19 14:20	4
Dibromochloromethane	ND		4.0	1.3	ug/L			07/03/19 14:20	4
Chloroethane	ND		4.0	1.3	ug/L			07/03/19 14:20	4
Chloroform	ND		4.0	1.4	ug/L			07/03/19 14:20	4
Chloromethane	ND		4.0	1.4	ug/L			07/03/19 14:20	4
Bromodichloromethane	ND		4.0	1.6	ug/L			07/03/19 14:20	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/03/19 14:20	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/03/19 14:20	4
Tetrachloroethene	ND		4.0	1.4	ug/L			07/03/19 14:20	4
Toluene	ND		4.0	2.0	ug/L			07/03/19 14:20	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			07/03/19 14:20	4
Trichloroethene	ND		4.0	1.8	ug/L			07/03/19 14:20	4
Vinyl chloride	ND		4.0	3.6	ug/L			07/03/19 14:20	4
Xylenes, Total	ND		8.0	2.6	ug/L			07/03/19 14:20	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			07/03/19 14:20	4
Styrene	ND		4.0	2.9	ug/L			07/03/19 14:20	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		07/03/19 14:20	4
4-Bromofluorobenzene (Surr)	88		73 - 120		07/03/19 14:20	4
Toluene-d8 (Surr)	92		80 - 120		07/03/19 14:20	4

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-2

Lab Sample ID: 480-155595-7

Date Collected: 06/26/19 14:45

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		75 - 123		07/03/19 14:20	4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		07/03/19 14:34	07/12/19 00:58	1
1,2,4-Trichlorobenzene	ND		10	0.44	ug/L		07/03/19 14:34	07/12/19 00:58	1
2,4,5-Trichlorophenol	0.89	J	5.0	0.48	ug/L		07/03/19 14:34	07/12/19 00:58	1
1,2-Dichlorobenzene	ND		10	0.40	ug/L		07/03/19 14:34	07/12/19 00:58	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		07/03/19 14:34	07/12/19 00:58	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		07/03/19 14:34	07/12/19 00:58	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		07/03/19 14:34	07/12/19 00:58	1
1,3-Dichlorobenzene	ND		10	0.48	ug/L		07/03/19 14:34	07/12/19 00:58	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/12/19 00:58	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		07/03/19 14:34	07/12/19 00:58	1
1,4-Dichlorobenzene	ND		10	0.46	ug/L		07/03/19 14:34	07/12/19 00:58	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:58	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		07/03/19 14:34	07/12/19 00:58	1
2-Chlorophenol	ND		5.0	0.53	ug/L		07/03/19 14:34	07/12/19 00:58	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		07/03/19 14:34	07/12/19 00:58	1
2-Methylphenol	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:58	1
2-Nitroaniline	ND		10	0.42	ug/L		07/03/19 14:34	07/12/19 00:58	1
2-Nitrophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/12/19 00:58	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:58	1
3-Nitroaniline	ND		10	0.48	ug/L		07/03/19 14:34	07/12/19 00:58	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		07/03/19 14:34	07/12/19 00:58	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		07/03/19 14:34	07/12/19 00:58	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		07/03/19 14:34	07/12/19 00:58	1
4-Chloroaniline	ND		5.0	0.59	ug/L		07/03/19 14:34	07/12/19 00:58	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		07/03/19 14:34	07/12/19 00:58	1
4-Methylphenol	ND		10	0.36	ug/L		07/03/19 14:34	07/12/19 00:58	1
4-Nitroaniline	ND		10	0.25	ug/L		07/03/19 14:34	07/12/19 00:58	1
4-Nitrophenol	ND		10	1.5	ug/L		07/03/19 14:34	07/12/19 00:58	1
Acenaphthene	ND		5.0	0.41	ug/L		07/03/19 14:34	07/12/19 00:58	1
Acenaphthylene	ND		5.0	0.38	ug/L		07/03/19 14:34	07/12/19 00:58	1
Anthracene	ND		5.0	0.28	ug/L		07/03/19 14:34	07/12/19 00:58	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/12/19 00:58	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/12/19 00:58	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/12/19 00:58	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		07/03/19 14:34	07/12/19 00:58	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		07/03/19 14:34	07/12/19 00:58	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		07/03/19 14:34	07/12/19 00:58	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:58	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		07/03/19 14:34	07/12/19 00:58	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		07/03/19 14:34	07/12/19 00:58	1
Carbazole	ND		5.0	0.30	ug/L		07/03/19 14:34	07/12/19 00:58	1
Chrysene	ND		5.0	0.33	ug/L		07/03/19 14:34	07/12/19 00:58	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		07/03/19 14:34	07/12/19 00:58	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		07/03/19 14:34	07/12/19 00:58	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		07/03/19 14:34	07/12/19 00:58	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-2

Lab Sample ID: 480-155595-7

Date Collected: 06/26/19 14:45

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		10	0.51	ug/L		07/03/19 14:34	07/12/19 00:58	1
Diethyl phthalate	ND		5.0	0.22	ug/L		07/03/19 14:34	07/12/19 00:58	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		07/03/19 14:34	07/12/19 00:58	1
Fluoranthene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 00:58	1
Fluorene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/12/19 00:58	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		07/03/19 14:34	07/12/19 00:58	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		07/03/19 14:34	07/12/19 00:58	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		07/03/19 14:34	07/12/19 00:58	1
Hexachloroethane	ND		5.0	0.59	ug/L		07/03/19 14:34	07/12/19 00:58	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/12/19 00:58	1
Isophorone	ND		5.0	0.43	ug/L		07/03/19 14:34	07/12/19 00:58	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		07/03/19 14:34	07/12/19 00:58	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		07/03/19 14:34	07/12/19 00:58	1
Naphthalene	ND		5.0	0.76	ug/L		07/03/19 14:34	07/12/19 00:58	1
Nitrobenzene	ND		5.0	0.29	ug/L		07/03/19 14:34	07/12/19 00:58	1
Pentachlorophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/12/19 00:58	1
Phenanthrene	1.2	J B	5.0	0.44	ug/L		07/03/19 14:34	07/12/19 00:58	1
Phenol	ND		5.0	0.39	ug/L		07/03/19 14:34	07/12/19 00:58	1
Pyrene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/12/19 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	121	X	41 - 120	07/03/19 14:34	07/12/19 00:58	1
2-Fluorobiphenyl	102		48 - 120	07/03/19 14:34	07/12/19 00:58	1
2-Fluorophenol	84		35 - 120	07/03/19 14:34	07/12/19 00:58	1
Nitrobenzene-d5	95		46 - 120	07/03/19 14:34	07/12/19 00:58	1
p-Terphenyl-d14	86		59 - 136	07/03/19 14:34	07/12/19 00:58	1
Phenol-d5	62		22 - 120	07/03/19 14:34	07/12/19 00:58	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		07/03/19 14:42	07/08/19 16:23	1
4,4'-DDE	ND		0.050	0.012	ug/L		07/03/19 14:42	07/08/19 16:23	1
4,4'-DDT	ND		0.050	0.011	ug/L		07/03/19 14:42	07/08/19 16:23	1
Aldrin	ND		0.050	0.0081	ug/L		07/03/19 14:42	07/08/19 16:23	1
alpha-BHC	ND		0.050	0.0077	ug/L		07/03/19 14:42	07/08/19 16:23	1
cis-Chlordane	ND		0.050	0.015	ug/L		07/03/19 14:42	07/08/19 16:23	1
beta-BHC	ND		0.050	0.025	ug/L		07/03/19 14:42	07/08/19 16:23	1
delta-BHC	0.015	J B	0.050	0.010	ug/L		07/03/19 14:42	07/08/19 16:23	1
Dieldrin	ND		0.050	0.0098	ug/L		07/03/19 14:42	07/08/19 16:23	1
Endosulfan I	ND		0.050	0.011	ug/L		07/03/19 14:42	07/08/19 16:23	1
Endosulfan II	ND		0.050	0.012	ug/L		07/03/19 14:42	07/08/19 16:23	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		07/03/19 14:42	07/08/19 16:23	1
Endrin	ND		0.050	0.014	ug/L		07/03/19 14:42	07/08/19 16:23	1
Endrin aldehyde	ND		0.050	0.016	ug/L		07/03/19 14:42	07/08/19 16:23	1
Endrin ketone	0.014	J	0.050	0.012	ug/L		07/03/19 14:42	07/08/19 16:23	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		07/03/19 14:42	07/08/19 16:23	1
trans-Chlordane	0.049	J B	0.050	0.011	ug/L		07/03/19 14:42	07/08/19 16:23	1
Heptachlor	0.018	J	0.050	0.0085	ug/L		07/03/19 14:42	07/08/19 16:23	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		07/03/19 14:42	07/08/19 16:23	1
Methoxychlor	ND		0.050	0.014	ug/L		07/03/19 14:42	07/08/19 16:23	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-2

Lab Sample ID: 480-155595-7

Date Collected: 06/26/19 14:45

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		0.50	0.12	ug/L		07/03/19 14:42	07/08/19 16:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	61		20 - 120				07/03/19 14:42	07/08/19 16:23	1
Tetrachloro-m-xylene	87		44 - 120				07/03/19 14:42	07/08/19 16:23	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:15	1
PCB-1221	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:15	1
PCB-1232	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:15	1
PCB-1242	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:15	1
PCB-1248	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:15	1
PCB-1254	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 17:15	1
PCB-1260	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	43		19 - 120				07/05/19 08:16	07/10/19 17:15	1
Tetrachloro-m-xylene	69		39 - 121				07/05/19 08:16	07/10/19 17:15	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.18	J	0.20	0.060	mg/L		07/05/19 07:47	07/05/19 18:28	1
Antimony	ND		0.020	0.0068	mg/L		07/05/19 07:47	07/05/19 18:28	1
Arsenic	ND		0.010	0.0056	mg/L		07/05/19 07:47	07/05/19 18:28	1
Barium	0.070		0.0020	0.00070	mg/L		07/05/19 07:47	07/05/19 18:28	1
Beryllium	ND		0.0020	0.00030	mg/L		07/05/19 07:47	07/05/19 18:28	1
Cadmium	ND		0.0010	0.00050	mg/L		07/05/19 07:47	07/05/19 18:28	1
Calcium	96.7		0.50	0.10	mg/L		07/05/19 07:47	07/05/19 18:28	1
Chromium	0.011		0.0040	0.0010	mg/L		07/05/19 07:47	07/05/19 18:28	1
Cobalt	ND		0.0040	0.00063	mg/L		07/05/19 07:47	07/05/19 18:28	1
Copper	0.0039	J	0.010	0.0016	mg/L		07/05/19 07:47	07/05/19 18:28	1
Iron	0.63		0.050	0.019	mg/L		07/05/19 07:47	07/05/19 18:28	1
Lead	ND		0.0050	0.0030	mg/L		07/05/19 07:47	07/05/19 18:28	1
Magnesium	0.30		0.20	0.043	mg/L		07/05/19 07:47	07/05/19 18:28	1
Manganese	0.018		0.0030	0.00040	mg/L		07/05/19 07:47	07/05/19 18:28	1
Nickel	0.0040	J	0.010	0.0013	mg/L		07/05/19 07:47	07/05/19 18:28	1
Potassium	48.4		0.50	0.10	mg/L		07/05/19 07:47	07/05/19 18:28	1
Selenium	ND		0.015	0.0087	mg/L		07/05/19 07:47	07/05/19 18:28	1
Silver	ND		0.0030	0.0017	mg/L		07/05/19 07:47	07/05/19 18:28	1
Sodium	134		1.0	0.32	mg/L		07/05/19 07:47	07/05/19 18:28	1
Thallium	ND		0.020	0.010	mg/L		07/05/19 07:47	07/05/19 18:28	1
Vanadium	0.0061		0.0050	0.0015	mg/L		07/05/19 07:47	07/05/19 18:28	1
Zinc	0.065	B	0.010	0.0015	mg/L		07/05/19 07:47	07/05/19 18:28	1

Method: 7470A_ASP - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/05/19 11:55	07/05/19 14:33	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-2

Lab Sample ID: 480-155595-7

Date Collected: 06/26/19 14:45

Matrix: Water

Date Received: 06/27/19 14:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.046	*	0.010	0.0050	mg/L		07/08/19 15:08	07/09/19 11:55	1

Client Sample ID: S-3

Lab Sample ID: 480-155595-8

Date Collected: 06/26/19 15:30

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	4.0	3.3	ug/L			07/03/19 14:44	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			07/03/19 14:44	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/03/19 14:44	4
1,1-Dichloroethane	1.8	J	4.0	1.5	ug/L			07/03/19 14:44	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/03/19 14:44	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/03/19 14:44	4
1,2-Dichloroethene, Total	ND		8.0	3.2	ug/L			07/03/19 14:44	4
1,2-Dichloropropane	ND	*	4.0	2.9	ug/L			07/03/19 14:44	4
2-Butanone (MEK)	ND		40	5.3	ug/L			07/03/19 14:44	4
2-Hexanone	ND		20	5.0	ug/L			07/03/19 14:44	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			07/03/19 14:44	4
Acetone	ND		40	12	ug/L			07/03/19 14:44	4
Benzene	ND		4.0	1.6	ug/L			07/03/19 14:44	4
Bromoform	ND		4.0	1.0	ug/L			07/03/19 14:44	4
Bromomethane	ND		4.0	2.8	ug/L			07/03/19 14:44	4
Carbon disulfide	ND		4.0	0.76	ug/L			07/03/19 14:44	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/03/19 14:44	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/03/19 14:44	4
Dibromochloromethane	ND		4.0	1.3	ug/L			07/03/19 14:44	4
Chloroethane	ND		4.0	1.3	ug/L			07/03/19 14:44	4
Chloroform	ND		4.0	1.4	ug/L			07/03/19 14:44	4
Chloromethane	ND		4.0	1.4	ug/L			07/03/19 14:44	4
Bromodichloromethane	ND		4.0	1.6	ug/L			07/03/19 14:44	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/03/19 14:44	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/03/19 14:44	4
Tetrachloroethene	ND		4.0	1.4	ug/L			07/03/19 14:44	4
Toluene	ND		4.0	2.0	ug/L			07/03/19 14:44	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			07/03/19 14:44	4
Trichloroethene	ND		4.0	1.8	ug/L			07/03/19 14:44	4
Vinyl chloride	ND		4.0	3.6	ug/L			07/03/19 14:44	4
Xylenes, Total	ND		8.0	2.6	ug/L			07/03/19 14:44	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			07/03/19 14:44	4
Styrene	ND		4.0	2.9	ug/L			07/03/19 14:44	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		07/03/19 14:44	4
4-Bromofluorobenzene (Surr)	82		73 - 120		07/03/19 14:44	4
Toluene-d8 (Surr)	90		80 - 120		07/03/19 14:44	4
Dibromofluoromethane (Surr)	101		75 - 123		07/03/19 14:44	4

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-3

Lab Sample ID: 480-155595-8

Date Collected: 06/26/19 15:30

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		07/03/19 14:34	07/12/19 01:27	5
1,2,4-Trichlorobenzene	ND		50	2.2	ug/L		07/03/19 14:34	07/12/19 01:27	5
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		07/03/19 14:34	07/12/19 01:27	5
1,2-Dichlorobenzene	ND		50	2.0	ug/L		07/03/19 14:34	07/12/19 01:27	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		07/03/19 14:34	07/12/19 01:27	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		07/03/19 14:34	07/12/19 01:27	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		07/03/19 14:34	07/12/19 01:27	5
1,3-Dichlorobenzene	ND		50	2.4	ug/L		07/03/19 14:34	07/12/19 01:27	5
2,4-Dinitrophenol	ND		50	11	ug/L		07/03/19 14:34	07/12/19 01:27	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		07/03/19 14:34	07/12/19 01:27	5
1,4-Dichlorobenzene	ND		50	2.3	ug/L		07/03/19 14:34	07/12/19 01:27	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		07/03/19 14:34	07/12/19 01:27	5
2-Chloronaphthalene	ND		25	2.3	ug/L		07/03/19 14:34	07/12/19 01:27	5
2-Chlorophenol	ND		25	2.7	ug/L		07/03/19 14:34	07/12/19 01:27	5
2-Methylnaphthalene	ND		25	3.0	ug/L		07/03/19 14:34	07/12/19 01:27	5
2-Methylphenol	ND		25	2.0	ug/L		07/03/19 14:34	07/12/19 01:27	5
2-Nitroaniline	ND		50	2.1	ug/L		07/03/19 14:34	07/12/19 01:27	5
2-Nitrophenol	ND		25	2.4	ug/L		07/03/19 14:34	07/12/19 01:27	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		07/03/19 14:34	07/12/19 01:27	5
3-Nitroaniline	ND		50	2.4	ug/L		07/03/19 14:34	07/12/19 01:27	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		07/03/19 14:34	07/12/19 01:27	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		07/03/19 14:34	07/12/19 01:27	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		07/03/19 14:34	07/12/19 01:27	5
4-Chloroaniline	ND		25	3.0	ug/L		07/03/19 14:34	07/12/19 01:27	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		07/03/19 14:34	07/12/19 01:27	5
4-Methylphenol	ND		50	1.8	ug/L		07/03/19 14:34	07/12/19 01:27	5
4-Nitroaniline	ND		50	1.3	ug/L		07/03/19 14:34	07/12/19 01:27	5
4-Nitrophenol	ND		50	7.6	ug/L		07/03/19 14:34	07/12/19 01:27	5
Acenaphthene	ND		25	2.1	ug/L		07/03/19 14:34	07/12/19 01:27	5
Acenaphthylene	ND		25	1.9	ug/L		07/03/19 14:34	07/12/19 01:27	5
Anthracene	ND		25	1.4	ug/L		07/03/19 14:34	07/12/19 01:27	5
Benzo[a]anthracene	ND		25	1.8	ug/L		07/03/19 14:34	07/12/19 01:27	5
Benzo[a]pyrene	ND		25	2.4	ug/L		07/03/19 14:34	07/12/19 01:27	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		07/03/19 14:34	07/12/19 01:27	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		07/03/19 14:34	07/12/19 01:27	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		07/03/19 14:34	07/12/19 01:27	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		07/03/19 14:34	07/12/19 01:27	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		07/03/19 14:34	07/12/19 01:27	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		07/03/19 14:34	07/12/19 01:27	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		07/03/19 14:34	07/12/19 01:27	5
Carbazole	ND		25	1.5	ug/L		07/03/19 14:34	07/12/19 01:27	5
Chrysene	ND		25	1.7	ug/L		07/03/19 14:34	07/12/19 01:27	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		07/03/19 14:34	07/12/19 01:27	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		07/03/19 14:34	07/12/19 01:27	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		07/03/19 14:34	07/12/19 01:27	5
Dibenzofuran	ND		50	2.6	ug/L		07/03/19 14:34	07/12/19 01:27	5
Diethyl phthalate	ND		25	1.1	ug/L		07/03/19 14:34	07/12/19 01:27	5
Dimethyl phthalate	ND		25	1.8	ug/L		07/03/19 14:34	07/12/19 01:27	5
Fluoranthene	ND		25	2.0	ug/L		07/03/19 14:34	07/12/19 01:27	5

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-3

Lab Sample ID: 480-155595-8

Date Collected: 06/26/19 15:30

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		25	1.8	ug/L		07/03/19 14:34	07/12/19 01:27	5
Hexachlorobenzene	ND		25	2.6	ug/L		07/03/19 14:34	07/12/19 01:27	5
Hexachlorobutadiene	ND		25	3.4	ug/L		07/03/19 14:34	07/12/19 01:27	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		07/03/19 14:34	07/12/19 01:27	5
Hexachloroethane	ND		25	3.0	ug/L		07/03/19 14:34	07/12/19 01:27	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		07/03/19 14:34	07/12/19 01:27	5
Isophorone	ND		25	2.2	ug/L		07/03/19 14:34	07/12/19 01:27	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		07/03/19 14:34	07/12/19 01:27	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		07/03/19 14:34	07/12/19 01:27	5
Naphthalene	ND		25	3.8	ug/L		07/03/19 14:34	07/12/19 01:27	5
Nitrobenzene	ND		25	1.5	ug/L		07/03/19 14:34	07/12/19 01:27	5
Pentachlorophenol	ND		50	11	ug/L		07/03/19 14:34	07/12/19 01:27	5
Phenanthrene	ND		25	2.2	ug/L		07/03/19 14:34	07/12/19 01:27	5
Phenol	ND		25	2.0	ug/L		07/03/19 14:34	07/12/19 01:27	5
Pyrene	ND		25	1.7	ug/L		07/03/19 14:34	07/12/19 01:27	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	105		41 - 120	07/03/19 14:34	07/12/19 01:27	5
2-Fluorobiphenyl	96		48 - 120	07/03/19 14:34	07/12/19 01:27	5
2-Fluorophenol	76		35 - 120	07/03/19 14:34	07/12/19 01:27	5
Nitrobenzene-d5	85		46 - 120	07/03/19 14:34	07/12/19 01:27	5
p-Terphenyl-d14	87		59 - 136	07/03/19 14:34	07/12/19 01:27	5
Phenol-d5	56		22 - 120	07/03/19 14:34	07/12/19 01:27	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		07/03/19 14:42	07/08/19 16:49	1
4,4'-DDE	ND		0.050	0.012	ug/L		07/03/19 14:42	07/08/19 16:49	1
4,4'-DDT	ND		0.050	0.011	ug/L		07/03/19 14:42	07/08/19 16:49	1
Aldrin	ND		0.050	0.0081	ug/L		07/03/19 14:42	07/08/19 16:49	1
alpha-BHC	ND		0.050	0.0077	ug/L		07/03/19 14:42	07/08/19 16:49	1
cis-Chlordane	ND		0.050	0.015	ug/L		07/03/19 14:42	07/08/19 16:49	1
beta-BHC	ND		0.050	0.025	ug/L		07/03/19 14:42	07/08/19 16:49	1
delta-BHC	ND		0.050	0.010	ug/L		07/03/19 14:42	07/08/19 16:49	1
Dieldrin	ND		0.050	0.0098	ug/L		07/03/19 14:42	07/08/19 16:49	1
Endosulfan I	0.019	J	0.050	0.011	ug/L		07/03/19 14:42	07/08/19 16:49	1
Endosulfan II	ND		0.050	0.012	ug/L		07/03/19 14:42	07/08/19 16:49	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		07/03/19 14:42	07/08/19 16:49	1
Endrin	ND		0.050	0.014	ug/L		07/03/19 14:42	07/08/19 16:49	1
Endrin aldehyde	ND		0.050	0.016	ug/L		07/03/19 14:42	07/08/19 16:49	1
Endrin ketone	0.021	J	0.050	0.012	ug/L		07/03/19 14:42	07/08/19 16:49	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		07/03/19 14:42	07/08/19 16:49	1
trans-Chlordane	ND		0.050	0.011	ug/L		07/03/19 14:42	07/08/19 16:49	1
Heptachlor	ND		0.050	0.0085	ug/L		07/03/19 14:42	07/08/19 16:49	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		07/03/19 14:42	07/08/19 16:49	1
Methoxychlor	ND		0.050	0.014	ug/L		07/03/19 14:42	07/08/19 16:49	1
Toxaphene	ND		0.50	0.12	ug/L		07/03/19 14:42	07/08/19 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		20 - 120	07/03/19 14:42	07/08/19 16:49	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-3

Lab Sample ID: 480-155595-8

Date Collected: 06/26/19 15:30

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	104		44 - 120	07/03/19 14:42	07/08/19 16:49	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52	0.18	ug/L		07/05/19 08:16	07/10/19 17:28	1
PCB-1221	ND		0.52	0.18	ug/L		07/05/19 08:16	07/10/19 17:28	1
PCB-1232	ND		0.52	0.18	ug/L		07/05/19 08:16	07/10/19 17:28	1
PCB-1242	ND		0.52	0.18	ug/L		07/05/19 08:16	07/10/19 17:28	1
PCB-1248	ND		0.52	0.18	ug/L		07/05/19 08:16	07/10/19 17:28	1
PCB-1254	ND		0.52	0.26	ug/L		07/05/19 08:16	07/10/19 17:28	1
PCB-1260	ND		0.52	0.26	ug/L		07/05/19 08:16	07/10/19 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	37		19 - 120	07/05/19 08:16	07/10/19 17:28	1
Tetrachloro-m-xylene	72		39 - 121	07/05/19 08:16	07/10/19 17:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.27		0.20	0.060	mg/L		07/05/19 07:47	07/05/19 18:32	1
Antimony	ND		0.020	0.0068	mg/L		07/05/19 07:47	07/05/19 18:32	1
Arsenic	ND		0.010	0.0056	mg/L		07/05/19 07:47	07/05/19 18:32	1
Barium	0.066		0.0020	0.00070	mg/L		07/05/19 07:47	07/05/19 18:32	1
Beryllium	ND		0.0020	0.00030	mg/L		07/05/19 07:47	07/05/19 18:32	1
Cadmium	ND		0.0010	0.00050	mg/L		07/05/19 07:47	07/05/19 18:32	1
Calcium	73.8		0.50	0.10	mg/L		07/05/19 07:47	07/05/19 18:32	1
Chromium	ND		0.0040	0.0010	mg/L		07/05/19 07:47	07/05/19 18:32	1
Cobalt	ND		0.0040	0.00063	mg/L		07/05/19 07:47	07/05/19 18:32	1
Copper	0.0027	J	0.010	0.0016	mg/L		07/05/19 07:47	07/05/19 18:32	1
Iron	1.8		0.050	0.019	mg/L		07/05/19 07:47	07/05/19 18:32	1
Lead	0.0035	J	0.0050	0.0030	mg/L		07/05/19 07:47	07/05/19 18:32	1
Magnesium	2.8		0.20	0.043	mg/L		07/05/19 07:47	07/05/19 18:32	1
Manganese	0.11		0.0030	0.00040	mg/L		07/05/19 07:47	07/05/19 18:32	1
Nickel	ND		0.010	0.0013	mg/L		07/05/19 07:47	07/05/19 18:32	1
Potassium	52.3		0.50	0.10	mg/L		07/05/19 07:47	07/05/19 18:32	1
Selenium	ND		0.015	0.0087	mg/L		07/05/19 07:47	07/05/19 18:32	1
Silver	ND		0.0030	0.0017	mg/L		07/05/19 07:47	07/05/19 18:32	1
Sodium	163		1.0	0.32	mg/L		07/05/19 07:47	07/05/19 18:32	1
Thallium	ND		0.020	0.010	mg/L		07/05/19 07:47	07/05/19 18:32	1
Vanadium	0.0061		0.0050	0.0015	mg/L		07/05/19 07:47	07/05/19 18:32	1
Zinc	0.050	B	0.010	0.0015	mg/L		07/05/19 07:47	07/05/19 18:32	1

Method: 7470A_ASP - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/05/19 11:55	07/05/19 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.058	*	0.010	0.0050	mg/L		07/08/19 15:08	07/09/19 11:59	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-4

Lab Sample ID: 480-155595-9

Date Collected: 06/26/19 11:00

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	4.0	3.3	ug/L			07/03/19 15:08	4
1,1,1,2-Tetrachloroethane	ND		4.0	0.84	ug/L			07/03/19 15:08	4
1,1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/03/19 15:08	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			07/03/19 15:08	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/03/19 15:08	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/03/19 15:08	4
1,2-Dichloroethene, Total	ND		8.0	3.2	ug/L			07/03/19 15:08	4
1,2-Dichloropropane	ND	*	4.0	2.9	ug/L			07/03/19 15:08	4
2-Butanone (MEK)	ND		40	5.3	ug/L			07/03/19 15:08	4
2-Hexanone	ND		20	5.0	ug/L			07/03/19 15:08	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			07/03/19 15:08	4
Acetone	ND		40	12	ug/L			07/03/19 15:08	4
Benzene	ND		4.0	1.6	ug/L			07/03/19 15:08	4
Bromoform	ND		4.0	1.0	ug/L			07/03/19 15:08	4
Bromomethane	ND		4.0	2.8	ug/L			07/03/19 15:08	4
Carbon disulfide	ND		4.0	0.76	ug/L			07/03/19 15:08	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/03/19 15:08	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/03/19 15:08	4
Dibromochloromethane	ND		4.0	1.3	ug/L			07/03/19 15:08	4
Chloroethane	ND		4.0	1.3	ug/L			07/03/19 15:08	4
Chloroform	ND		4.0	1.4	ug/L			07/03/19 15:08	4
Chloromethane	ND		4.0	1.4	ug/L			07/03/19 15:08	4
Bromodichloromethane	ND		4.0	1.6	ug/L			07/03/19 15:08	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/03/19 15:08	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/03/19 15:08	4
Tetrachloroethene	ND		4.0	1.4	ug/L			07/03/19 15:08	4
Toluene	ND		4.0	2.0	ug/L			07/03/19 15:08	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			07/03/19 15:08	4
Trichloroethene	ND		4.0	1.8	ug/L			07/03/19 15:08	4
Vinyl chloride	ND		4.0	3.6	ug/L			07/03/19 15:08	4
Xylenes, Total	ND		8.0	2.6	ug/L			07/03/19 15:08	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			07/03/19 15:08	4
Styrene	ND		4.0	2.9	ug/L			07/03/19 15:08	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		07/03/19 15:08	4
4-Bromofluorobenzene (Surr)	81		73 - 120		07/03/19 15:08	4
Toluene-d8 (Surr)	90		80 - 120		07/03/19 15:08	4
Dibromofluoromethane (Surr)	104		75 - 123		07/03/19 15:08	4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		07/03/19 14:34	07/12/19 01:55	5
1,2,4-Trichlorobenzene	ND		50	2.2	ug/L		07/03/19 14:34	07/12/19 01:55	5
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		07/03/19 14:34	07/12/19 01:55	5
1,2-Dichlorobenzene	ND		50	2.0	ug/L		07/03/19 14:34	07/12/19 01:55	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		07/03/19 14:34	07/12/19 01:55	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		07/03/19 14:34	07/12/19 01:55	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		07/03/19 14:34	07/12/19 01:55	5
1,3-Dichlorobenzene	ND		50	2.4	ug/L		07/03/19 14:34	07/12/19 01:55	5

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-4

Lab Sample ID: 480-155595-9

Date Collected: 06/26/19 11:00

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		50	11	ug/L		07/03/19 14:34	07/12/19 01:55	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		07/03/19 14:34	07/12/19 01:55	5
1,4-Dichlorobenzene	ND		50	2.3	ug/L		07/03/19 14:34	07/12/19 01:55	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		07/03/19 14:34	07/12/19 01:55	5
2-Chloronaphthalene	ND		25	2.3	ug/L		07/03/19 14:34	07/12/19 01:55	5
2-Chlorophenol	ND		25	2.7	ug/L		07/03/19 14:34	07/12/19 01:55	5
2-Methylnaphthalene	ND		25	3.0	ug/L		07/03/19 14:34	07/12/19 01:55	5
2-Methylphenol	ND		25	2.0	ug/L		07/03/19 14:34	07/12/19 01:55	5
2-Nitroaniline	ND		50	2.1	ug/L		07/03/19 14:34	07/12/19 01:55	5
2-Nitrophenol	ND		25	2.4	ug/L		07/03/19 14:34	07/12/19 01:55	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		07/03/19 14:34	07/12/19 01:55	5
3-Nitroaniline	ND		50	2.4	ug/L		07/03/19 14:34	07/12/19 01:55	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		07/03/19 14:34	07/12/19 01:55	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		07/03/19 14:34	07/12/19 01:55	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		07/03/19 14:34	07/12/19 01:55	5
4-Chloroaniline	ND		25	3.0	ug/L		07/03/19 14:34	07/12/19 01:55	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		07/03/19 14:34	07/12/19 01:55	5
4-Methylphenol	ND		50	1.8	ug/L		07/03/19 14:34	07/12/19 01:55	5
4-Nitroaniline	ND		50	1.3	ug/L		07/03/19 14:34	07/12/19 01:55	5
4-Nitrophenol	ND		50	7.6	ug/L		07/03/19 14:34	07/12/19 01:55	5
Acenaphthene	ND		25	2.1	ug/L		07/03/19 14:34	07/12/19 01:55	5
Acenaphthylene	ND		25	1.9	ug/L		07/03/19 14:34	07/12/19 01:55	5
Anthracene	ND		25	1.4	ug/L		07/03/19 14:34	07/12/19 01:55	5
Benzo[a]anthracene	ND		25	1.8	ug/L		07/03/19 14:34	07/12/19 01:55	5
Benzo[a]pyrene	ND		25	2.4	ug/L		07/03/19 14:34	07/12/19 01:55	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		07/03/19 14:34	07/12/19 01:55	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		07/03/19 14:34	07/12/19 01:55	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		07/03/19 14:34	07/12/19 01:55	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		07/03/19 14:34	07/12/19 01:55	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		07/03/19 14:34	07/12/19 01:55	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		07/03/19 14:34	07/12/19 01:55	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		07/03/19 14:34	07/12/19 01:55	5
Carbazole	ND		25	1.5	ug/L		07/03/19 14:34	07/12/19 01:55	5
Chrysene	ND		25	1.7	ug/L		07/03/19 14:34	07/12/19 01:55	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		07/03/19 14:34	07/12/19 01:55	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		07/03/19 14:34	07/12/19 01:55	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		07/03/19 14:34	07/12/19 01:55	5
Dibenzofuran	ND		50	2.6	ug/L		07/03/19 14:34	07/12/19 01:55	5
Diethyl phthalate	ND		25	1.1	ug/L		07/03/19 14:34	07/12/19 01:55	5
Dimethyl phthalate	ND		25	1.8	ug/L		07/03/19 14:34	07/12/19 01:55	5
Fluoranthene	ND		25	2.0	ug/L		07/03/19 14:34	07/12/19 01:55	5
Fluorene	ND		25	1.8	ug/L		07/03/19 14:34	07/12/19 01:55	5
Hexachlorobenzene	ND		25	2.6	ug/L		07/03/19 14:34	07/12/19 01:55	5
Hexachlorobutadiene	ND		25	3.4	ug/L		07/03/19 14:34	07/12/19 01:55	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		07/03/19 14:34	07/12/19 01:55	5
Hexachloroethane	ND		25	3.0	ug/L		07/03/19 14:34	07/12/19 01:55	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		07/03/19 14:34	07/12/19 01:55	5
Isophorone	ND		25	2.2	ug/L		07/03/19 14:34	07/12/19 01:55	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		07/03/19 14:34	07/12/19 01:55	5

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-4

Lab Sample ID: 480-155595-9

Date Collected: 06/26/19 11:00

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		07/03/19 14:34	07/12/19 01:55	5
Naphthalene	ND		25	3.8	ug/L		07/03/19 14:34	07/12/19 01:55	5
Nitrobenzene	ND		25	1.5	ug/L		07/03/19 14:34	07/12/19 01:55	5
Pentachlorophenol	ND		50	11	ug/L		07/03/19 14:34	07/12/19 01:55	5
Phenanthrene	ND		25	2.2	ug/L		07/03/19 14:34	07/12/19 01:55	5
Phenol	ND		25	2.0	ug/L		07/03/19 14:34	07/12/19 01:55	5
Pyrene	ND		25	1.7	ug/L		07/03/19 14:34	07/12/19 01:55	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	98		41 - 120	07/03/19 14:34	07/12/19 01:55	5
2-Fluorobiphenyl	97		48 - 120	07/03/19 14:34	07/12/19 01:55	5
2-Fluorophenol	82		35 - 120	07/03/19 14:34	07/12/19 01:55	5
Nitrobenzene-d5	85		46 - 120	07/03/19 14:34	07/12/19 01:55	5
p-Terphenyl-d14	79		59 - 136	07/03/19 14:34	07/12/19 01:55	5
Phenol-d5	57		22 - 120	07/03/19 14:34	07/12/19 01:55	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		07/03/19 14:42	07/08/19 17:14	1
4,4'-DDE	ND		0.050	0.012	ug/L		07/03/19 14:42	07/08/19 17:14	1
4,4'-DDT	ND		0.050	0.011	ug/L		07/03/19 14:42	07/08/19 17:14	1
Aldrin	ND		0.050	0.0081	ug/L		07/03/19 14:42	07/08/19 17:14	1
alpha-BHC	ND		0.050	0.0077	ug/L		07/03/19 14:42	07/08/19 17:14	1
cis-Chlordane	ND		0.050	0.015	ug/L		07/03/19 14:42	07/08/19 17:14	1
beta-BHC	ND		0.050	0.025	ug/L		07/03/19 14:42	07/08/19 17:14	1
delta-BHC	ND		0.050	0.010	ug/L		07/03/19 14:42	07/08/19 17:14	1
Dieldrin	ND		0.050	0.0098	ug/L		07/03/19 14:42	07/08/19 17:14	1
Endosulfan I	ND		0.050	0.011	ug/L		07/03/19 14:42	07/08/19 17:14	1
Endosulfan II	ND		0.050	0.012	ug/L		07/03/19 14:42	07/08/19 17:14	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		07/03/19 14:42	07/08/19 17:14	1
Endrin	ND		0.050	0.014	ug/L		07/03/19 14:42	07/08/19 17:14	1
Endrin aldehyde	ND		0.050	0.016	ug/L		07/03/19 14:42	07/08/19 17:14	1
Endrin ketone	0.022	J	0.050	0.012	ug/L		07/03/19 14:42	07/08/19 17:14	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		07/03/19 14:42	07/08/19 17:14	1
trans-Chlordane	ND		0.050	0.011	ug/L		07/03/19 14:42	07/08/19 17:14	1
Heptachlor	0.016	J	0.050	0.0085	ug/L		07/03/19 14:42	07/08/19 17:14	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		07/03/19 14:42	07/08/19 17:14	1
Methoxychlor	ND		0.050	0.014	ug/L		07/03/19 14:42	07/08/19 17:14	1
Toxaphene	ND		0.50	0.12	ug/L		07/03/19 14:42	07/08/19 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	46		20 - 120	07/03/19 14:42	07/08/19 17:14	1
Tetrachloro-m-xylene	90		44 - 120	07/03/19 14:42	07/08/19 17:14	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:41	1
PCB-1221	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:41	1
PCB-1232	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:41	1
PCB-1242	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:41	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-4

Lab Sample ID: 480-155595-9

Date Collected: 06/26/19 11:00

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 17:41	1
PCB-1254	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 17:41	1
PCB-1260	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 17:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	36		19 - 120				07/05/19 08:16	07/10/19 17:41	1
Tetrachloro-m-xylene	60		39 - 121				07/05/19 08:16	07/10/19 17:41	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.22		0.20	0.060	mg/L		07/05/19 07:47	07/05/19 18:36	1
Antimony	ND		0.020	0.0068	mg/L		07/05/19 07:47	07/05/19 18:36	1
Arsenic	ND		0.010	0.0056	mg/L		07/05/19 07:47	07/05/19 18:36	1
Barium	0.015		0.0020	0.00070	mg/L		07/05/19 07:47	07/05/19 18:36	1
Beryllium	ND		0.0020	0.00030	mg/L		07/05/19 07:47	07/05/19 18:36	1
Cadmium	ND		0.0010	0.00050	mg/L		07/05/19 07:47	07/05/19 18:36	1
Calcium	49.7		0.50	0.10	mg/L		07/05/19 07:47	07/05/19 18:36	1
Chromium	0.0014	J	0.0040	0.0010	mg/L		07/05/19 07:47	07/05/19 18:36	1
Cobalt	ND		0.0040	0.00063	mg/L		07/05/19 07:47	07/05/19 18:36	1
Copper	0.010		0.010	0.0016	mg/L		07/05/19 07:47	07/05/19 18:36	1
Iron	0.26		0.050	0.019	mg/L		07/05/19 07:47	07/05/19 18:36	1
Lead	ND		0.0050	0.0030	mg/L		07/05/19 07:47	07/05/19 18:36	1
Magnesium	5.5		0.20	0.043	mg/L		07/05/19 07:47	07/05/19 18:36	1
Manganese	0.089		0.0030	0.00040	mg/L		07/05/19 07:47	07/05/19 18:36	1
Nickel	0.014		0.010	0.0013	mg/L		07/05/19 07:47	07/05/19 18:36	1
Potassium	14.9		0.50	0.10	mg/L		07/05/19 07:47	07/05/19 18:36	1
Selenium	ND		0.015	0.0087	mg/L		07/05/19 07:47	07/05/19 18:36	1
Silver	ND		0.0030	0.0017	mg/L		07/05/19 07:47	07/05/19 18:36	1
Sodium	5.0		1.0	0.32	mg/L		07/05/19 07:47	07/05/19 18:36	1
Thallium	ND		0.020	0.010	mg/L		07/05/19 07:47	07/05/19 18:36	1
Vanadium	0.0018	J	0.0050	0.0015	mg/L		07/05/19 07:47	07/05/19 18:36	1
Zinc	0.14	B	0.010	0.0015	mg/L		07/05/19 07:47	07/05/19 18:36	1

Method: 7470A_ASP - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/05/19 11:55	07/05/19 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0094	J *	0.010	0.0050	mg/L		07/08/19 15:08	07/09/19 12:00	1

Client Sample ID: DUP

Lab Sample ID: 480-155595-10

Date Collected: 06/26/19 00:00

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	4.0	3.3	ug/L			07/03/19 15:32	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			07/03/19 15:32	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/03/19 15:32	4
1,1-Dichloroethane	1.6	J	4.0	1.5	ug/L			07/03/19 15:32	4

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: DUP

Lab Sample ID: 480-155595-10

Date Collected: 06/26/19 00:00

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/03/19 15:32	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/03/19 15:32	4
1,2-Dichloroethene, Total	ND		8.0	3.2	ug/L			07/03/19 15:32	4
1,2-Dichloropropane	ND	*	4.0	2.9	ug/L			07/03/19 15:32	4
2-Butanone (MEK)	ND		40	5.3	ug/L			07/03/19 15:32	4
2-Hexanone	ND		20	5.0	ug/L			07/03/19 15:32	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			07/03/19 15:32	4
Acetone	ND		40	12	ug/L			07/03/19 15:32	4
Benzene	ND		4.0	1.6	ug/L			07/03/19 15:32	4
Bromoform	ND		4.0	1.0	ug/L			07/03/19 15:32	4
Bromomethane	ND		4.0	2.8	ug/L			07/03/19 15:32	4
Carbon disulfide	ND		4.0	0.76	ug/L			07/03/19 15:32	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/03/19 15:32	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/03/19 15:32	4
Dibromochloromethane	ND		4.0	1.3	ug/L			07/03/19 15:32	4
Chloroethane	ND		4.0	1.3	ug/L			07/03/19 15:32	4
Chloroform	ND		4.0	1.4	ug/L			07/03/19 15:32	4
Chloromethane	ND		4.0	1.4	ug/L			07/03/19 15:32	4
Bromodichloromethane	ND		4.0	1.6	ug/L			07/03/19 15:32	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/03/19 15:32	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/03/19 15:32	4
Tetrachloroethene	ND		4.0	1.4	ug/L			07/03/19 15:32	4
Toluene	ND		4.0	2.0	ug/L			07/03/19 15:32	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			07/03/19 15:32	4
Trichloroethene	ND		4.0	1.8	ug/L			07/03/19 15:32	4
Vinyl chloride	ND		4.0	3.6	ug/L			07/03/19 15:32	4
Xylenes, Total	ND		8.0	2.6	ug/L			07/03/19 15:32	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			07/03/19 15:32	4
Styrene	ND		4.0	2.9	ug/L			07/03/19 15:32	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120					07/03/19 15:32	4
4-Bromofluorobenzene (Surr)	88		73 - 120					07/03/19 15:32	4
Toluene-d8 (Surr)	93		80 - 120					07/03/19 15:32	4
Dibromofluoromethane (Surr)	105		75 - 123					07/03/19 15:32	4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		07/03/19 14:34	07/12/19 02:23	1
1,2,4-Trichlorobenzene	ND		10	0.44	ug/L		07/03/19 14:34	07/12/19 02:23	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/12/19 02:23	1
1,2-Dichlorobenzene	ND		10	0.40	ug/L		07/03/19 14:34	07/12/19 02:23	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		07/03/19 14:34	07/12/19 02:23	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		07/03/19 14:34	07/12/19 02:23	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		07/03/19 14:34	07/12/19 02:23	1
1,3-Dichlorobenzene	ND		10	0.48	ug/L		07/03/19 14:34	07/12/19 02:23	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/12/19 02:23	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		07/03/19 14:34	07/12/19 02:23	1
1,4-Dichlorobenzene	ND		10	0.46	ug/L		07/03/19 14:34	07/12/19 02:23	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 02:23	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: DUP

Lab Sample ID: 480-155595-10

Date Collected: 06/26/19 00:00

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		5.0	0.46	ug/L		07/03/19 14:34	07/12/19 02:23	1
2-Chlorophenol	ND		5.0	0.53	ug/L		07/03/19 14:34	07/12/19 02:23	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		07/03/19 14:34	07/12/19 02:23	1
2-Methylphenol	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 02:23	1
2-Nitroaniline	ND		10	0.42	ug/L		07/03/19 14:34	07/12/19 02:23	1
2-Nitrophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/12/19 02:23	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 02:23	1
3-Nitroaniline	ND		10	0.48	ug/L		07/03/19 14:34	07/12/19 02:23	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		07/03/19 14:34	07/12/19 02:23	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		07/03/19 14:34	07/12/19 02:23	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		07/03/19 14:34	07/12/19 02:23	1
4-Chloroaniline	ND		5.0	0.59	ug/L		07/03/19 14:34	07/12/19 02:23	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		07/03/19 14:34	07/12/19 02:23	1
4-Methylphenol	ND		10	0.36	ug/L		07/03/19 14:34	07/12/19 02:23	1
4-Nitroaniline	ND		10	0.25	ug/L		07/03/19 14:34	07/12/19 02:23	1
4-Nitrophenol	ND		10	1.5	ug/L		07/03/19 14:34	07/12/19 02:23	1
Acenaphthene	ND		5.0	0.41	ug/L		07/03/19 14:34	07/12/19 02:23	1
Acenaphthylene	ND		5.0	0.38	ug/L		07/03/19 14:34	07/12/19 02:23	1
Anthracene	ND		5.0	0.28	ug/L		07/03/19 14:34	07/12/19 02:23	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/12/19 02:23	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/12/19 02:23	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/12/19 02:23	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		07/03/19 14:34	07/12/19 02:23	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		07/03/19 14:34	07/12/19 02:23	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		07/03/19 14:34	07/12/19 02:23	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 02:23	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		07/03/19 14:34	07/12/19 02:23	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		07/03/19 14:34	07/12/19 02:23	1
Carbazole	ND		5.0	0.30	ug/L		07/03/19 14:34	07/12/19 02:23	1
Chrysene	ND		5.0	0.33	ug/L		07/03/19 14:34	07/12/19 02:23	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		07/03/19 14:34	07/12/19 02:23	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		07/03/19 14:34	07/12/19 02:23	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		07/03/19 14:34	07/12/19 02:23	1
Dibenzofuran	ND		10	0.51	ug/L		07/03/19 14:34	07/12/19 02:23	1
Diethyl phthalate	ND		5.0	0.22	ug/L		07/03/19 14:34	07/12/19 02:23	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		07/03/19 14:34	07/12/19 02:23	1
Fluoranthene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/12/19 02:23	1
Fluorene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/12/19 02:23	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		07/03/19 14:34	07/12/19 02:23	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		07/03/19 14:34	07/12/19 02:23	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		07/03/19 14:34	07/12/19 02:23	1
Hexachloroethane	ND		5.0	0.59	ug/L		07/03/19 14:34	07/12/19 02:23	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/12/19 02:23	1
Isophorone	ND		5.0	0.43	ug/L		07/03/19 14:34	07/12/19 02:23	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		07/03/19 14:34	07/12/19 02:23	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		07/03/19 14:34	07/12/19 02:23	1
Naphthalene	ND		5.0	0.76	ug/L		07/03/19 14:34	07/12/19 02:23	1
Nitrobenzene	ND		5.0	0.29	ug/L		07/03/19 14:34	07/12/19 02:23	1
Pentachlorophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/12/19 02:23	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: DUP

Lab Sample ID: 480-155595-10

Date Collected: 06/26/19 00:00

Matrix: Water

Date Received: 06/27/19 14:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.98	J B	5.0	0.44	ug/L		07/03/19 14:34	07/12/19 02:23	1
Phenol	ND		5.0	0.39	ug/L		07/03/19 14:34	07/12/19 02:23	1
Pyrene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/12/19 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	106		41 - 120				07/03/19 14:34	07/12/19 02:23	1
2-Fluorobiphenyl	96		48 - 120				07/03/19 14:34	07/12/19 02:23	1
2-Fluorophenol	80		35 - 120				07/03/19 14:34	07/12/19 02:23	1
Nitrobenzene-d5	89		46 - 120				07/03/19 14:34	07/12/19 02:23	1
p-Terphenyl-d14	71		59 - 136				07/03/19 14:34	07/12/19 02:23	1
Phenol-d5	60		22 - 120				07/03/19 14:34	07/12/19 02:23	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52	0.18	ug/L		07/05/19 08:16	07/10/19 17:54	1
PCB-1221	ND		0.52	0.18	ug/L		07/05/19 08:16	07/10/19 17:54	1
PCB-1232	ND		0.52	0.18	ug/L		07/05/19 08:16	07/10/19 17:54	1
PCB-1242	ND		0.52	0.18	ug/L		07/05/19 08:16	07/10/19 17:54	1
PCB-1248	ND		0.52	0.18	ug/L		07/05/19 08:16	07/10/19 17:54	1
PCB-1254	ND		0.52	0.26	ug/L		07/05/19 08:16	07/10/19 17:54	1
PCB-1260	ND		0.52	0.26	ug/L		07/05/19 08:16	07/10/19 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	41		19 - 120				07/05/19 08:16	07/10/19 17:54	1
Tetrachloro-m-xylene	66		39 - 121				07/05/19 08:16	07/10/19 17:54	1

Surrogate Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	TOL (80-120)	DBFM (75-123)
480-155595-1	MW-4	98	86	93	90
480-155595-2	MW-5	102	85	92	98
480-155595-3	MW-6	100	86	93	99
480-155595-3 MS	MW-6	94	90	100	94
480-155595-3 MSD	MW-6	94	96	97	91
480-155595-4	RW-4	101	85	92	97
480-155595-5	RW-5	111	79	95	107
480-155595-6	S-1	106	85	92	100
480-155595-7	S-2	113	88	92	109
480-155595-8	S-3	105	82	90	101
480-155595-9	S-4	108	81	90	104
480-155595-10	DUP	111	88	93	105
LCS 480-480669/5	Lab Control Sample	107	96	94	97
MB 480-480669/7	Method Blank	105	86	95	95
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
TOL = Toluene-d8 (Surr)					
DBFM = Dibromofluoromethane (Surr)					

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	TPHd14 (59-136)	PHL (22-120)
480-155595-1	MW-4	94	93	64	91	65	46
480-155595-2	MW-5	103	89	76	84	66	57
480-155595-3	MW-6	106	98	84	91	82	63
480-155595-3 MS	MW-6	110	96	79	97	68	63
480-155595-3 MSD	MW-6	110	94	80	94	71	66
480-155595-4	RW-4	109	92	77	88	77	57
480-155595-5	RW-5	93	90	79	85	55 X	60
480-155595-6	S-1	104	98	87	93	61	64
480-155595-7	S-2	121 X	102	84	95	86	62
480-155595-8	S-3	105	96	76	85	87	56
480-155595-9	S-4	98	97	82	85	79	57
480-155595-10	DUP	106	96	80	89	71	60
LCS 480-480813/2-A	Lab Control Sample	101	92	81	93	94	65
MB 480-480813/1-A	Method Blank	80	86	71	80	94	55
Surrogate Legend							
TBP = 2,4,6-Tribromophenol							
FBP = 2-Fluorobiphenyl							
2FP = 2-Fluorophenol							
NBZ = Nitrobenzene-d5							
TPHd14 = p-Terphenyl-d14							
PHL = Phenol-d5							

Surrogate Summary

Client: Groundwater & Environmental Services Inc

Job ID: 480-155595-1

Project/Site: Cherry Farms Annual GW Sample

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (20-120)	TCX1 (44-120)
480-155595-6	S-1	42	92
480-155595-7	S-2	61	87
480-155595-8	S-3	74	104
480-155595-9	S-4	46	90
LCS 480-480814/2-A	Lab Control Sample	48	82
LCSD 480-480814/3-A	Lab Control Sample Dup	44	83
MB 480-480814/1-A	Method Blank	51	81
Surrogate Legend			
DCBP = DCB Decachlorobiphenyl			
TCX = Tetrachloro-m-xylene			

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (19-120)	TCX2 (39-121)
480-155595-1	MW-4	38	54
480-155595-2	MW-5	33	58
480-155595-3	MW-6	41	60
480-155595-3 MS	MW-6	42	65
480-155595-3 MSD	MW-6	32	65
480-155595-4	RW-4	30	61
480-155595-5	RW-5	46	64
480-155595-6	S-1	33	63
480-155595-7	S-2	43	69
480-155595-8	S-3	37	72
480-155595-9	S-4	36	60
480-155595-10	DUP	41	66
LCS 480-480888/2-A	Lab Control Sample	31	59
MB 480-480888/1-A	Method Blank	38	62
Surrogate Legend			
DCBP = DCB Decachlorobiphenyl			
TCX = Tetrachloro-m-xylene			

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-480669/7

Matrix: Water

Analysis Batch: 480669

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/03/19 08:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/03/19 08:31	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/03/19 08:31	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/03/19 08:31	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/03/19 08:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/03/19 08:31	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			07/03/19 08:31	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/03/19 08:31	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/03/19 08:31	1
2-Hexanone	ND		5.0	1.2	ug/L			07/03/19 08:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/03/19 08:31	1
Acetone	ND		10	3.0	ug/L			07/03/19 08:31	1
Benzene	ND		1.0	0.41	ug/L			07/03/19 08:31	1
Bromoform	ND		1.0	0.26	ug/L			07/03/19 08:31	1
Bromomethane	ND		1.0	0.69	ug/L			07/03/19 08:31	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/03/19 08:31	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/03/19 08:31	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/03/19 08:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/03/19 08:31	1
Chloroethane	ND		1.0	0.32	ug/L			07/03/19 08:31	1
Chloroform	ND		1.0	0.34	ug/L			07/03/19 08:31	1
Chloromethane	ND		1.0	0.35	ug/L			07/03/19 08:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/03/19 08:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/03/19 08:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/03/19 08:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/03/19 08:31	1
Toluene	ND		1.0	0.51	ug/L			07/03/19 08:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/03/19 08:31	1
Trichloroethene	ND		1.0	0.46	ug/L			07/03/19 08:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/03/19 08:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/03/19 08:31	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/03/19 08:31	1
Styrene	ND		1.0	0.73	ug/L			07/03/19 08:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		07/03/19 08:31	1
4-Bromofluorobenzene (Surr)	86		73 - 120		07/03/19 08:31	1
Toluene-d8 (Surr)	95		80 - 120		07/03/19 08:31	1
Dibromofluoromethane (Surr)	95		75 - 123		07/03/19 08:31	1

Lab Sample ID: LCS 480-480669/5

Matrix: Water

Analysis Batch: 480669

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	32.3	*	ug/L		129	73 - 126
1,1,2,2-Tetrachloroethane	25.0	27.0		ug/L		108	76 - 120
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	76 - 122

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QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-480669/5

Matrix: Water

Analysis Batch: 480669

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	30.0		ug/L		120	77 - 120
1,1-Dichloroethene	25.0	29.1		ug/L		116	66 - 127
1,2-Dichloroethane	25.0	28.9		ug/L		116	75 - 120
1,2-Dichloropropane	25.0	30.5	*	ug/L		122	76 - 120
2-Butanone (MEK)	125	145		ug/L		116	57 - 140
2-Hexanone	125	140		ug/L		112	65 - 127
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	71 - 125
Acetone	125	151		ug/L		120	56 - 142
Benzene	25.0	29.9		ug/L		120	71 - 124
Bromoform	25.0	27.8		ug/L		111	61 - 132
Bromomethane	25.0	25.0		ug/L		100	55 - 144
Carbon disulfide	25.0	30.3		ug/L		121	59 - 134
Carbon tetrachloride	25.0	28.9		ug/L		116	72 - 134
Chlorobenzene	25.0	27.0		ug/L		108	80 - 120
Dibromochloromethane	25.0	25.0		ug/L		100	75 - 125
Chloroethane	25.0	25.1		ug/L		101	69 - 136
Chloroform	25.0	27.9		ug/L		112	73 - 127
Chloromethane	25.0	24.4		ug/L		97	68 - 124
Bromodichloromethane	25.0	28.8		ug/L		115	80 - 122
Ethylbenzene	25.0	28.2		ug/L		113	77 - 123
Methylene Chloride	25.0	28.1		ug/L		112	75 - 124
Tetrachloroethene	25.0	25.3		ug/L		101	74 - 122
Toluene	25.0	27.6		ug/L		111	80 - 122
trans-1,3-Dichloropropene	25.0	28.1		ug/L		113	80 - 120
Trichloroethene	25.0	29.7		ug/L		119	74 - 123
Vinyl chloride	25.0	25.7		ug/L		103	65 - 133
cis-1,3-Dichloropropene	25.0	29.3		ug/L		117	74 - 124
Styrene	25.0	26.0		ug/L		104	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Toluene-d8 (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	97		75 - 123

Lab Sample ID: 480-155595-3 MS

Matrix: Water

Analysis Batch: 480669

Client Sample ID: MW-6

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	*	100	118		ug/L		118	73 - 126
1,1,1,2-Tetrachloroethane	ND		100	117		ug/L		117	76 - 120
1,1,2-Trichloroethane	ND		100	115		ug/L		115	76 - 122
1,1-Dichloroethane	ND		100	113		ug/L		113	77 - 120
1,1-Dichloroethene	ND		100	108		ug/L		108	66 - 127
1,2-Dichloroethane	ND		100	110		ug/L		110	75 - 120
1,2-Dichloropropane	ND	*	100	113		ug/L		113	76 - 120
2-Butanone (MEK)	ND		500	521		ug/L		104	57 - 140

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-155595-3 MS

Matrix: Water

Analysis Batch: 480669

Client Sample ID: MW-6

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	ND		500	567		ug/L		113	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		500	514		ug/L		103	71 - 125
Acetone	ND		500	443		ug/L		89	56 - 142
Benzene	ND		100	111		ug/L		111	71 - 124
Bromoform	ND		100	114		ug/L		114	61 - 132
Bromomethane	ND		100	85.2		ug/L		85	55 - 144
Carbon disulfide	ND		100	110		ug/L		110	59 - 134
Carbon tetrachloride	ND		100	109		ug/L		109	72 - 134
Chlorobenzene	ND		100	110		ug/L		110	80 - 120
Dibromochloromethane	ND		100	106		ug/L		106	75 - 125
Chloroethane	ND		100	97.2		ug/L		97	69 - 136
Chloroform	ND		100	104		ug/L		104	73 - 127
Chloromethane	ND		100	96.0		ug/L		96	68 - 124
Bromodichloromethane	ND		100	107		ug/L		107	80 - 122
Ethylbenzene	ND		100	114		ug/L		114	77 - 123
Methylene Chloride	ND		100	105		ug/L		105	75 - 124
Tetrachloroethene	ND		100	101		ug/L		101	74 - 122
Toluene	ND		100	112		ug/L		112	80 - 122
trans-1,3-Dichloropropene	ND		100	112		ug/L		112	80 - 120
Trichloroethene	ND		100	105		ug/L		105	74 - 123
Vinyl chloride	ND		100	97.2		ug/L		97	65 - 133
cis-1,3-Dichloropropene	ND		100	102		ug/L		102	74 - 124
Styrene	ND		100	105		ug/L		105	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		77 - 120
4-Bromofluorobenzene (Surr)	90		73 - 120
Toluene-d8 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	94		75 - 123

Lab Sample ID: 480-155595-3 MSD

Matrix: Water

Analysis Batch: 480669

Client Sample ID: MW-6

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	*	100	117		ug/L		117	73 - 126	1	15
1,1,2,2-Tetrachloroethane	ND		100	112		ug/L		112	76 - 120	4	15
1,1,2-Trichloroethane	ND		100	107		ug/L		107	76 - 122	7	15
1,1-Dichloroethane	ND		100	107		ug/L		107	77 - 120	6	20
1,1-Dichloroethene	ND		100	109		ug/L		109	66 - 127	1	16
1,2-Dichloroethane	ND		100	107		ug/L		107	75 - 120	3	20
1,2-Dichloropropane	ND	*	100	108		ug/L		108	76 - 120	5	20
2-Butanone (MEK)	ND		500	486		ug/L		97	57 - 140	7	20
2-Hexanone	ND		500	562		ug/L		112	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	ND		500	517		ug/L		103	71 - 125	1	35
Acetone	ND		500	434		ug/L		87	56 - 142	2	15
Benzene	ND		100	106		ug/L		106	71 - 124	5	13
Bromoform	ND		100	112		ug/L		112	61 - 132	2	15

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QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-155595-3 MSD

Matrix: Water

Analysis Batch: 480669

Client Sample ID: MW-6

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND		100	81.4		ug/L		81	55 - 144	4	15
Carbon disulfide	ND		100	107		ug/L		107	59 - 134	3	15
Carbon tetrachloride	ND		100	111		ug/L		111	72 - 134	2	15
Chlorobenzene	ND		100	108		ug/L		108	80 - 120	2	25
Dibromochloromethane	ND		100	104		ug/L		104	75 - 125	2	15
Chloroethane	ND		100	91.2		ug/L		91	69 - 136	6	15
Chloroform	ND		100	101		ug/L		101	73 - 127	3	20
Chloromethane	ND		100	92.0		ug/L		92	68 - 124	4	15
Bromodichloromethane	ND		100	106		ug/L		106	80 - 122	1	15
Ethylbenzene	ND		100	114		ug/L		114	77 - 123	0	15
Methylene Chloride	ND		100	101		ug/L		101	75 - 124	3	15
Tetrachloroethene	ND		100	106		ug/L		106	74 - 122	5	20
Toluene	ND		100	112		ug/L		112	80 - 122	0	15
trans-1,3-Dichloropropene	ND		100	117		ug/L		117	80 - 120	4	15
Trichloroethene	ND		100	106		ug/L		106	74 - 123	1	16
Vinyl chloride	ND		100	93.1		ug/L		93	65 - 133	4	15
cis-1,3-Dichloropropene	ND		100	101		ug/L		101	74 - 124	0	15
Styrene	ND		100	108		ug/L		108	80 - 120	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Toluene-d8 (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	91		75 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-480813/1-A

Matrix: Water

Analysis Batch: 481710

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 480813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		07/03/19 14:34	07/11/19 20:12	1
1,2,4-Trichlorobenzene	ND		10	0.44	ug/L		07/03/19 14:34	07/11/19 20:12	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/11/19 20:12	1
1,2-Dichlorobenzene	ND		10	0.40	ug/L		07/03/19 14:34	07/11/19 20:12	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		07/03/19 14:34	07/11/19 20:12	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		07/03/19 14:34	07/11/19 20:12	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		07/03/19 14:34	07/11/19 20:12	1
1,3-Dichlorobenzene	ND		10	0.48	ug/L		07/03/19 14:34	07/11/19 20:12	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/11/19 20:12	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		07/03/19 14:34	07/11/19 20:12	1
1,4-Dichlorobenzene	ND		10	0.46	ug/L		07/03/19 14:34	07/11/19 20:12	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 20:12	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		07/03/19 14:34	07/11/19 20:12	1
2-Chlorophenol	ND		5.0	0.53	ug/L		07/03/19 14:34	07/11/19 20:12	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		07/03/19 14:34	07/11/19 20:12	1
2-Methylphenol	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 20:12	1
2-Nitroaniline	ND		10	0.42	ug/L		07/03/19 14:34	07/11/19 20:12	1

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QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-480813/1-A

Matrix: Water

Analysis Batch: 481710

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 480813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		5.0	0.48	ug/L		07/03/19 14:34	07/11/19 20:12	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 20:12	1
3-Nitroaniline	ND		10	0.48	ug/L		07/03/19 14:34	07/11/19 20:12	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		07/03/19 14:34	07/11/19 20:12	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		07/03/19 14:34	07/11/19 20:12	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		07/03/19 14:34	07/11/19 20:12	1
4-Chloroaniline	ND		5.0	0.59	ug/L		07/03/19 14:34	07/11/19 20:12	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		07/03/19 14:34	07/11/19 20:12	1
4-Methylphenol	ND		10	0.36	ug/L		07/03/19 14:34	07/11/19 20:12	1
4-Nitroaniline	ND		10	0.25	ug/L		07/03/19 14:34	07/11/19 20:12	1
4-Nitrophenol	ND		10	1.5	ug/L		07/03/19 14:34	07/11/19 20:12	1
Acenaphthene	ND		5.0	0.41	ug/L		07/03/19 14:34	07/11/19 20:12	1
Acenaphthylene	ND		5.0	0.38	ug/L		07/03/19 14:34	07/11/19 20:12	1
Anthracene	ND		5.0	0.28	ug/L		07/03/19 14:34	07/11/19 20:12	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/11/19 20:12	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/11/19 20:12	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/11/19 20:12	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		07/03/19 14:34	07/11/19 20:12	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		07/03/19 14:34	07/11/19 20:12	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		07/03/19 14:34	07/11/19 20:12	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 20:12	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		07/03/19 14:34	07/11/19 20:12	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		07/03/19 14:34	07/11/19 20:12	1
Carbazole	ND		5.0	0.30	ug/L		07/03/19 14:34	07/11/19 20:12	1
Chrysene	ND		5.0	0.33	ug/L		07/03/19 14:34	07/11/19 20:12	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		07/03/19 14:34	07/11/19 20:12	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		07/03/19 14:34	07/11/19 20:12	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		07/03/19 14:34	07/11/19 20:12	1
Dibenzofuran	ND		10	0.51	ug/L		07/03/19 14:34	07/11/19 20:12	1
Diethyl phthalate	ND		5.0	0.22	ug/L		07/03/19 14:34	07/11/19 20:12	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		07/03/19 14:34	07/11/19 20:12	1
Fluoranthene	ND		5.0	0.40	ug/L		07/03/19 14:34	07/11/19 20:12	1
Fluorene	ND		5.0	0.36	ug/L		07/03/19 14:34	07/11/19 20:12	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		07/03/19 14:34	07/11/19 20:12	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		07/03/19 14:34	07/11/19 20:12	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		07/03/19 14:34	07/11/19 20:12	1
Hexachloroethane	ND		5.0	0.59	ug/L		07/03/19 14:34	07/11/19 20:12	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		07/03/19 14:34	07/11/19 20:12	1
Isophorone	ND		5.0	0.43	ug/L		07/03/19 14:34	07/11/19 20:12	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		07/03/19 14:34	07/11/19 20:12	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		07/03/19 14:34	07/11/19 20:12	1
Naphthalene	ND		5.0	0.76	ug/L		07/03/19 14:34	07/11/19 20:12	1
Nitrobenzene	ND		5.0	0.29	ug/L		07/03/19 14:34	07/11/19 20:12	1
Pentachlorophenol	ND		10	2.2	ug/L		07/03/19 14:34	07/11/19 20:12	1
Phenanthrene	1.03	J	5.0	0.44	ug/L		07/03/19 14:34	07/11/19 20:12	1
Phenol	ND		5.0	0.39	ug/L		07/03/19 14:34	07/11/19 20:12	1
Pyrene	ND		5.0	0.34	ug/L		07/03/19 14:34	07/11/19 20:12	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-480813/1-A

Matrix: Water

Analysis Batch: 481710

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 480813

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	80		41 - 120	07/03/19 14:34	07/11/19 20:12	1
2-Fluorobiphenyl	86		48 - 120	07/03/19 14:34	07/11/19 20:12	1
2-Fluorophenol	71		35 - 120	07/03/19 14:34	07/11/19 20:12	1
Nitrobenzene-d5	80		46 - 120	07/03/19 14:34	07/11/19 20:12	1
p-Terphenyl-d14	94		59 - 136	07/03/19 14:34	07/11/19 20:12	1
Phenol-d5	55		22 - 120	07/03/19 14:34	07/11/19 20:12	1

Lab Sample ID: LCS 480-480813/2-A

Matrix: Water

Analysis Batch: 481710

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 480813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
bis (2-chloroisopropyl) ether	32.0	27.2		ug/L		85	21 - 136
1,2,4-Trichlorobenzene	32.0	27.9		ug/L		87	40 - 120
2,4,5-Trichlorophenol	32.0	32.5		ug/L		102	65 - 126
1,2-Dichlorobenzene	32.0	27.3		ug/L		85	49 - 120
2,4,6-Trichlorophenol	32.0	32.3		ug/L		101	64 - 120
2,4-Dichlorophenol	32.0	32.6		ug/L		102	63 - 120
2,4-Dimethylphenol	32.0	31.9		ug/L		100	47 - 120
1,3-Dichlorobenzene	32.0	26.9		ug/L		84	50 - 120
2,4-Dinitrophenol	64.0	72.4		ug/L		113	31 - 137
2,4-Dinitrotoluene	32.0	33.0		ug/L		103	69 - 120
1,4-Dichlorobenzene	32.0	26.5		ug/L		83	51 - 120
2,6-Dinitrotoluene	32.0	32.7		ug/L		102	68 - 120
2-Chloronaphthalene	32.0	29.0		ug/L		91	58 - 120
2-Chlorophenol	32.0	29.8		ug/L		93	48 - 120
2-Methylnaphthalene	32.0	29.5		ug/L		92	59 - 120
2-Methylphenol	32.0	29.7		ug/L		93	39 - 120
2-Nitroaniline	32.0	32.0		ug/L		100	54 - 127
2-Nitrophenol	32.0	33.5		ug/L		105	52 - 125
3,3'-Dichlorobenzidine	64.0	64.5		ug/L		101	49 - 135
3-Nitroaniline	32.0	28.0		ug/L		87	51 - 120
4,6-Dinitro-2-methylphenol	64.0	77.3		ug/L		121	46 - 136
4-Bromophenyl phenyl ether	32.0	31.5		ug/L		98	65 - 120
4-Chloro-3-methylphenol	32.0	32.4		ug/L		101	61 - 123
4-Chloroaniline	32.0	26.0		ug/L		81	30 - 120
4-Chlorophenyl phenyl ether	32.0	30.7		ug/L		96	62 - 120
4-Methylphenol	32.0	29.1		ug/L		91	29 - 131
4-Nitroaniline	32.0	32.3		ug/L		101	65 - 120
4-Nitrophenol	64.0	57.7		ug/L		90	45 - 120
Acenaphthene	32.0	30.6		ug/L		96	60 - 120
Acenaphthylene	32.0	30.9		ug/L		97	63 - 120
Anthracene	32.0	30.6		ug/L		96	67 - 120
Benzo[a]anthracene	32.0	31.0		ug/L		97	70 - 121
Benzo[a]pyrene	32.0	29.6		ug/L		93	60 - 123
Benzo[b]fluoranthene	32.0	34.0		ug/L		106	66 - 126
Benzo[g,h,i]perylene	32.0	32.8		ug/L		103	66 - 150
Benzo[k]fluoranthene	32.0	32.9		ug/L		103	65 - 124

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-480813/2-A

Matrix: Water

Analysis Batch: 481710

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 480813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	32.0	30.8		ug/L		96	50 - 128
Bis(2-chloroethyl)ether	32.0	29.9		ug/L		94	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	31.9		ug/L		100	63 - 139
Butyl benzyl phthalate	32.0	31.2		ug/L		97	70 - 129
Carbazole	32.0	32.0		ug/L		100	66 - 123
Chrysene	32.0	30.8		ug/L		96	69 - 120
Di-n-butyl phthalate	32.0	31.3		ug/L		98	69 - 131
Di-n-octyl phthalate	32.0	32.3		ug/L		101	63 - 140
Dibenz(a,h)anthracene	32.0	33.4		ug/L		104	65 - 135
Dibenzofuran	32.0	29.9		ug/L		93	66 - 120
Diethyl phthalate	32.0	32.4		ug/L		101	59 - 127
Dimethyl phthalate	32.0	31.3		ug/L		98	68 - 120
Fluoranthene	32.0	31.2		ug/L		98	69 - 126
Fluorene	32.0	30.9		ug/L		97	66 - 120
Hexachlorobenzene	32.0	32.2		ug/L		101	61 - 120
Hexachlorobutadiene	32.0	26.8		ug/L		84	35 - 120
Hexachlorocyclopentadiene	32.0	27.6		ug/L		86	31 - 120
Hexachloroethane	32.0	26.1		ug/L		81	43 - 120
Indeno[1,2,3-cd]pyrene	32.0	33.1		ug/L		103	69 - 146
Isophorone	32.0	31.3		ug/L		98	55 - 120
N-Nitrosodi-n-propylamine	32.0	30.1		ug/L		94	32 - 140
N-Nitrosodiphenylamine	32.0	30.8		ug/L		96	61 - 120
Naphthalene	32.0	28.2		ug/L		88	57 - 120
Nitrobenzene	32.0	31.0		ug/L		97	53 - 123
Pentachlorophenol	64.0	63.1		ug/L		99	29 - 136
Phenanthrene	32.0	30.2		ug/L		94	68 - 120
Phenol	32.0	22.5		ug/L		70	17 - 120
Pyrene	32.0	31.6		ug/L		99	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	101		41 - 120
2-Fluorobiphenyl	92		48 - 120
2-Fluorophenol	81		35 - 120
Nitrobenzene-d5	93		46 - 120
p-Terphenyl-d14	94		59 - 136
Phenol-d5	65		22 - 120

Lab Sample ID: 480-155595-3 MS

Matrix: Water

Analysis Batch: 481710

Client Sample ID: MW-6

Prep Type: Total/NA

Prep Batch: 480813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
bis (2-chloroisopropyl) ether	ND		32.0	27.6		ug/L		86	28 - 121
1,2,4-Trichlorobenzene	ND		32.0	29.3		ug/L		92	49 - 120
2,4,5-Trichlorophenol	ND		32.0	33.2		ug/L		104	65 - 126
1,2-Dichlorobenzene	ND		32.0	28.3		ug/L		88	48 - 120
2,4,6-Trichlorophenol	ND		32.0	35.2		ug/L		110	64 - 120
2,4-Dichlorophenol	ND		32.0	34.5		ug/L		108	48 - 132

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-155595-3 MS

Matrix: Water

Analysis Batch: 481710

Client Sample ID: MW-6

Prep Type: Total/NA

Prep Batch: 480813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	ND		32.0	32.5		ug/L		102	39 - 130
1,3-Dichlorobenzene	ND		32.0	28.1		ug/L		88	51 - 120
2,4-Dinitrophenol	ND		64.0	84.6		ug/L		132	21 - 150
2,4-Dinitrotoluene	ND		32.0	35.6		ug/L		111	54 - 138
1,4-Dichlorobenzene	ND		32.0	27.9		ug/L		87	32 - 150
2,6-Dinitrotoluene	ND		32.0	34.1		ug/L		107	17 - 150
2-Chloronaphthalene	ND		32.0	30.2		ug/L		94	52 - 124
2-Chlorophenol	ND		32.0	30.5		ug/L		95	48 - 120
2-Methylnaphthalene	ND		32.0	30.8		ug/L		96	34 - 140
2-Methylphenol	ND		32.0	30.1		ug/L		94	46 - 120
2-Nitroaniline	ND		32.0	33.2		ug/L		104	44 - 136
2-Nitrophenol	ND		32.0	35.5		ug/L		111	38 - 141
3,3'-Dichlorobenzidine	ND		64.0	46.5		ug/L		73	10 - 150
3-Nitroaniline	ND		32.0	26.3		ug/L		82	32 - 150
4,6-Dinitro-2-methylphenol	ND		64.0	86.5		ug/L		135	38 - 150
4-Bromophenyl phenyl ether	ND		32.0	33.4		ug/L		105	63 - 126
4-Chloro-3-methylphenol	ND		32.0	33.9		ug/L		106	64 - 127
4-Chloroaniline	ND		32.0	19.6		ug/L		61	16 - 124
4-Chlorophenyl phenyl ether	ND		32.0	32.6		ug/L		102	61 - 120
4-Methylphenol	ND		32.0	29.1		ug/L		91	36 - 120
4-Nitroaniline	ND		32.0	30.7		ug/L		96	32 - 150
4-Nitrophenol	ND		64.0	63.1		ug/L		99	23 - 132
Acenaphthene	ND		32.0	32.1		ug/L		100	48 - 120
Acenaphthylene	ND		32.0	32.2		ug/L		101	63 - 120
Anthracene	ND		32.0	30.5		ug/L		95	65 - 122
Benzo[a]anthracene	ND		32.0	30.4		ug/L		95	43 - 124
Benzo[a]pyrene	ND		32.0	28.2		ug/L		88	23 - 125
Benzo[b]fluoranthene	ND		32.0	31.3		ug/L		98	27 - 127
Benzo[g,h,i]perylene	ND		32.0	30.5		ug/L		95	16 - 147
Benzo[k]fluoranthene	ND		32.0	30.5		ug/L		95	20 - 124
Bis(2-chloroethoxy)methane	ND		32.0	32.2		ug/L		101	44 - 128
Bis(2-chloroethyl)ether	ND		32.0	32.8		ug/L		103	45 - 120
Bis(2-ethylhexyl) phthalate	ND		32.0	30.7		ug/L		96	16 - 150
Butyl benzyl phthalate	ND		32.0	31.2		ug/L		97	51 - 140
Carbazole	ND		32.0	36.8		ug/L		115	16 - 148
Chrysene	ND		32.0	29.6		ug/L		92	44 - 122
Di-n-butyl phthalate	ND		32.0	32.0		ug/L		100	65 - 129
Di-n-octyl phthalate	ND		32.0	30.6		ug/L		96	16 - 150
Dibenz(a,h)anthracene	ND		32.0	30.3		ug/L		95	16 - 139
Dibenzofuran	ND		32.0	31.5		ug/L		99	60 - 120
Diethyl phthalate	ND		32.0	35.4		ug/L		111	53 - 133
Dimethyl phthalate	ND		32.0	33.3		ug/L		104	59 - 123
Fluoranthene	ND		32.0	32.4		ug/L		101	63 - 129
Fluorene	ND		32.0	32.9		ug/L		103	62 - 120
Hexachlorobenzene	ND		32.0	32.3		ug/L		101	57 - 121
Hexachlorobutadiene	ND		32.0	28.5		ug/L		89	37 - 120
Hexachlorocyclopentadiene	ND		32.0	30.0		ug/L		94	21 - 120
Hexachloroethane	ND		32.0	27.8		ug/L		87	16 - 130
Indeno[1,2,3-cd]pyrene	ND		32.0	30.2		ug/L		94	16 - 140

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-155595-3 MS

Matrix: Water

Analysis Batch: 481710

Client Sample ID: MW-6

Prep Type: Total/NA

Prep Batch: 480813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isophorone	ND		32.0	32.0		ug/L		100	48 - 133
N-Nitrosodi-n-propylamine	ND		32.0	30.9		ug/L		96	49 - 120
N-Nitrosodiphenylamine	ND		32.0	32.0		ug/L		100	39 - 138
Naphthalene	ND		32.0	28.8		ug/L		90	45 - 120
Nitrobenzene	ND		32.0	32.3		ug/L		101	45 - 123
Pentachlorophenol	ND		64.0	74.0		ug/L		116	23 - 149
Phenanthrene	1.1	J B	32.0	33.4		ug/L		101	65 - 122
Phenol	ND		32.0	21.5		ug/L		67	16 - 120
Pyrene	ND		32.0	30.8		ug/L		96	58 - 128

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol	110		41 - 120
2-Fluorobiphenyl	96		48 - 120
2-Fluorophenol	79		35 - 120
Nitrobenzene-d5	97		46 - 120
p-Terphenyl-d14	68		59 - 136
Phenol-d5	63		22 - 120

Lab Sample ID: 480-155595-3 MSD

Matrix: Water

Analysis Batch: 481710

Client Sample ID: MW-6

Prep Type: Total/NA

Prep Batch: 480813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
bis (2-chloroisopropyl) ether	ND		33.3	28.6		ug/L		86	28 - 121	4	24
1,2,4-Trichlorobenzene	ND		33.3	29.7		ug/L		89	49 - 120	1	30
2,4,5-Trichlorophenol	ND		33.3	35.6		ug/L		107	65 - 126	7	18
1,2-Dichlorobenzene	ND		33.3	29.4		ug/L		88	48 - 120	4	29
2,4,6-Trichlorophenol	ND		33.3	37.0		ug/L		111	64 - 120	5	19
2,4-Dichlorophenol	ND		33.3	35.6		ug/L		107	48 - 132	3	19
2,4-Dimethylphenol	ND		33.3	33.9		ug/L		102	39 - 130	4	42
1,3-Dichlorobenzene	ND		33.3	29.0		ug/L		87	51 - 120	3	37
2,4-Dinitrophenol	ND		66.7	88.9		ug/L		133	21 - 150	5	22
2,4-Dinitrotoluene	ND		33.3	37.0		ug/L		111	54 - 138	4	20
1,4-Dichlorobenzene	ND		33.3	28.8		ug/L		86	32 - 150	3	36
2,6-Dinitrotoluene	ND		33.3	36.0		ug/L		108	17 - 150	5	15
2-Chloronaphthalene	ND		33.3	31.6		ug/L		95	52 - 124	4	21
2-Chlorophenol	ND		33.3	31.7		ug/L		95	48 - 120	4	25
2-Methylnaphthalene	ND		33.3	31.7		ug/L		95	34 - 140	3	21
2-Methylphenol	ND		33.3	31.6		ug/L		95	46 - 120	5	27
2-Nitroaniline	ND		33.3	35.2		ug/L		106	44 - 136	6	15
2-Nitrophenol	ND		33.3	36.2		ug/L		109	38 - 141	2	18
3,3'-Dichlorobenzidine	ND		66.7	49.1		ug/L		74	10 - 150	5	25
3-Nitroaniline	ND		33.3	28.0		ug/L		84	32 - 150	6	19
4,6-Dinitro-2-methylphenol	ND		66.7	91.0		ug/L		136	38 - 150	5	15
4-Bromophenyl phenyl ether	ND		33.3	34.5		ug/L		104	63 - 126	3	15
4-Chloro-3-methylphenol	ND		33.3	35.1		ug/L		105	64 - 127	3	27
4-Chloroaniline	ND		33.3	22.0		ug/L		66	16 - 124	12	22
4-Chlorophenyl phenyl ether	ND		33.3	34.4		ug/L		103	61 - 120	5	16

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-155595-3 MSD

Matrix: Water

Analysis Batch: 481710

Client Sample ID: MW-6

Prep Type: Total/NA

Prep Batch: 480813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methylphenol	ND		33.3	31.0		ug/L		93	36 - 120	6	24
4-Nitroaniline	ND		33.3	35.2		ug/L		106	32 - 150	14	24
4-Nitrophenol	ND		66.7	68.5		ug/L		103	23 - 132	8	48
Acenaphthene	ND		33.3	33.6		ug/L		101	48 - 120	5	24
Acenaphthylene	ND		33.3	34.0		ug/L		102	63 - 120	6	18
Anthracene	ND		33.3	32.4		ug/L		97	65 - 122	6	15
Benzo[a]anthracene	ND		33.3	32.6		ug/L		98	43 - 124	7	15
Benzo[a]pyrene	ND		33.3	30.1		ug/L		90	23 - 125	6	15
Benzo[b]fluoranthene	ND		33.3	33.2		ug/L		100	27 - 127	6	15
Benzo[g,h,i]perylene	ND		33.3	32.5		ug/L		98	16 - 147	6	15
Benzo[k]fluoranthene	ND		33.3	32.3		ug/L		97	20 - 124	6	22
Bis(2-chloroethoxy)methane	ND		33.3	32.9		ug/L		99	44 - 128	2	17
Bis(2-chloroethyl)ether	ND		33.3	32.8		ug/L		98	45 - 120	0	21
Bis(2-ethylhexyl) phthalate	ND		33.3	33.2		ug/L		99	16 - 150	8	15
Butyl benzyl phthalate	ND		33.3	33.2		ug/L		100	51 - 140	6	16
Carbazole	ND		33.3	38.6		ug/L		116	16 - 148	5	20
Chrysene	ND		33.3	31.6		ug/L		95	44 - 122	6	15
Di-n-butyl phthalate	ND		33.3	34.5		ug/L		103	65 - 129	7	15
Di-n-octyl phthalate	ND		33.3	33.0		ug/L		99	16 - 150	8	16
Dibenz(a,h)anthracene	ND		33.3	32.6		ug/L		98	16 - 139	7	15
Dibenzofuran	ND		33.3	33.2		ug/L		100	60 - 120	5	15
Diethyl phthalate	ND		33.3	37.0		ug/L		111	53 - 133	4	15
Dimethyl phthalate	ND		33.3	30.6		ug/L		92	59 - 123	8	15
Fluoranthene	ND		33.3	34.4		ug/L		103	63 - 129	6	15
Fluorene	ND		33.3	34.8		ug/L		104	62 - 120	6	15
Hexachlorobenzene	ND		33.3	34.4		ug/L		103	57 - 121	6	15
Hexachlorobutadiene	ND		33.3	29.2		ug/L		88	37 - 120	3	44
Hexachlorocyclopentadiene	ND		33.3	31.2		ug/L		94	21 - 120	4	49
Hexachloroethane	ND		33.3	28.6		ug/L		86	16 - 130	3	46
Indeno[1,2,3-cd]pyrene	ND		33.3	32.3		ug/L		97	16 - 140	7	15
Isophorone	ND		33.3	33.0		ug/L		99	48 - 133	3	17
N-Nitrosodi-n-propylamine	ND		33.3	32.0		ug/L		96	49 - 120	4	31
N-Nitrosodiphenylamine	ND		33.3	33.1		ug/L		99	39 - 138	3	15
Naphthalene	ND		33.3	29.7		ug/L		89	45 - 120	3	29
Nitrobenzene	ND		33.3	33.0		ug/L		99	45 - 123	2	24
Pentachlorophenol	ND		66.7	79.4		ug/L		119	23 - 149	7	37
Phenanthrene	1.1	J B	33.3	35.2		ug/L		102	65 - 122	5	15
Phenol	ND		33.3	23.3		ug/L		70	16 - 120	8	34
Pyrene	ND		33.3	32.8		ug/L		99	58 - 128	6	19

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol	110		41 - 120
2-Fluorobiphenyl	94		48 - 120
2-Fluorophenol	80		35 - 120
Nitrobenzene-d5	94		46 - 120
p-Terphenyl-d14	71		59 - 136
Phenol-d5	66		22 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-480814/1-A

Matrix: Water

Analysis Batch: 481067

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 480814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		07/03/19 14:42	07/08/19 14:42	1
4,4'-DDE	ND		0.050	0.012	ug/L		07/03/19 14:42	07/08/19 14:42	1
4,4'-DDT	ND		0.050	0.011	ug/L		07/03/19 14:42	07/08/19 14:42	1
Aldrin	ND		0.050	0.0081	ug/L		07/03/19 14:42	07/08/19 14:42	1
alpha-BHC	ND		0.050	0.0077	ug/L		07/03/19 14:42	07/08/19 14:42	1
cis-Chlordane	ND		0.050	0.015	ug/L		07/03/19 14:42	07/08/19 14:42	1
beta-BHC	ND		0.050	0.025	ug/L		07/03/19 14:42	07/08/19 14:42	1
delta-BHC	0.0145	J	0.050	0.010	ug/L		07/03/19 14:42	07/08/19 14:42	1
Dieldrin	ND		0.050	0.0098	ug/L		07/03/19 14:42	07/08/19 14:42	1
Endosulfan I	ND		0.050	0.011	ug/L		07/03/19 14:42	07/08/19 14:42	1
Endosulfan II	ND		0.050	0.012	ug/L		07/03/19 14:42	07/08/19 14:42	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		07/03/19 14:42	07/08/19 14:42	1
Endrin	ND		0.050	0.014	ug/L		07/03/19 14:42	07/08/19 14:42	1
Endrin aldehyde	ND		0.050	0.016	ug/L		07/03/19 14:42	07/08/19 14:42	1
Endrin ketone	ND		0.050	0.012	ug/L		07/03/19 14:42	07/08/19 14:42	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		07/03/19 14:42	07/08/19 14:42	1
trans-Chlordane	0.0153	J	0.050	0.011	ug/L		07/03/19 14:42	07/08/19 14:42	1
Heptachlor	ND		0.050	0.0085	ug/L		07/03/19 14:42	07/08/19 14:42	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		07/03/19 14:42	07/08/19 14:42	1
Methoxychlor	ND		0.050	0.014	ug/L		07/03/19 14:42	07/08/19 14:42	1
Toxaphene	ND		0.50	0.12	ug/L		07/03/19 14:42	07/08/19 14:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	51		20 - 120	07/03/19 14:42	07/08/19 14:42	1
Tetrachloro-m-xylene	81		44 - 120	07/03/19 14:42	07/08/19 14:42	1

Lab Sample ID: LCS 480-480814/2-A

Matrix: Water

Analysis Batch: 481067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 480814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.400	0.458		ug/L		115	64 - 129
4,4'-DDE	0.400	0.390		ug/L		98	50 - 120
4,4'-DDT	0.400	0.453		ug/L		113	59 - 120
Aldrin	0.400	0.282		ug/L		71	40 - 125
alpha-BHC	0.400	0.341		ug/L		85	52 - 125
cis-Chlordane	0.400	0.379		ug/L		95	52 - 120
beta-BHC	0.400	0.387		ug/L		97	51 - 120
delta-BHC	0.400	0.401		ug/L		100	51 - 120
Dieldrin	0.400	0.435		ug/L		109	66 - 128
Endosulfan I	0.400	0.391		ug/L		98	57 - 120
Endosulfan II	0.400	0.401		ug/L		100	66 - 131
Endosulfan sulfate	0.400	0.536		ug/L		134	66 - 136
Endrin	0.400	0.465		ug/L		116	65 - 135
Endrin aldehyde	0.400	0.363		ug/L		91	61 - 134
Endrin ketone	0.400	0.483		ug/L		121	71 - 133
gamma-BHC (Lindane)	0.400	0.395		ug/L		99	56 - 120
trans-Chlordane	0.400	0.397		ug/L		99	54 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-480814/2-A

Matrix: Water

Analysis Batch: 481067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 480814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	0.400	0.393		ug/L		98	58 - 120
Heptachlor epoxide	0.400	0.442		ug/L		111	65 - 125
Methoxychlor	0.400	0.379		ug/L		95	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	48		20 - 120
Tetrachloro-m-xylene	82		44 - 120

Lab Sample ID: LCSD 480-480814/3-A

Matrix: Water

Analysis Batch: 481067

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 480814

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
4,4'-DDD	0.400	0.463		ug/L		116	64 - 129	1	23
4,4'-DDE	0.400	0.389		ug/L		97	50 - 120	0	22
4,4'-DDT	0.400	0.435		ug/L		109	59 - 120	4	24
Aldrin	0.400	0.264		ug/L		66	40 - 125	7	25
alpha-BHC	0.400	0.351		ug/L		88	52 - 125	3	24
cis-Chlordane	0.400	0.372		ug/L		93	52 - 120	2	23
beta-BHC	0.400	0.376		ug/L		94	51 - 120	3	24
delta-BHC	0.400	0.407		ug/L		102	51 - 120	2	24
Dieldrin	0.400	0.452		ug/L		113	66 - 128	4	24
Endosulfan I	0.400	0.388		ug/L		97	57 - 120	1	30
Endosulfan II	0.400	0.403		ug/L		101	66 - 131	1	40
Endosulfan sulfate	0.400	0.542		ug/L		136	66 - 136	1	24
Endrin	0.400	0.471		ug/L		118	65 - 135	1	24
Endrin aldehyde	0.400	0.366		ug/L		91	61 - 134	1	28
Endrin ketone	0.400	0.493		ug/L		123	71 - 133	2	26
gamma-BHC (Lindane)	0.400	0.397		ug/L		99	56 - 120	1	24
trans-Chlordane	0.400	0.402		ug/L		100	54 - 120	1	24
Heptachlor	0.400	0.399		ug/L		100	58 - 120	1	25
Heptachlor epoxide	0.400	0.445		ug/L		111	65 - 125	1	23
Methoxychlor	0.400	0.379		ug/L		95	50 - 150	0	26

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	44		20 - 120
Tetrachloro-m-xylene	83		44 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-480888/1-A

Matrix: Water

Analysis Batch: 481474

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 480888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 14:03	1
PCB-1221	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 14:03	1
PCB-1232	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 14:03	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 480-480888/1-A

Matrix: Water

Analysis Batch: 481474

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 480888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 14:03	1
PCB-1248	ND		0.50	0.18	ug/L		07/05/19 08:16	07/10/19 14:03	1
PCB-1254	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 14:03	1
PCB-1260	ND		0.50	0.25	ug/L		07/05/19 08:16	07/10/19 14:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	38		19 - 120	07/05/19 08:16	07/10/19 14:03	1
Tetrachloro-m-xylene	62		39 - 121	07/05/19 08:16	07/10/19 14:03	1

Lab Sample ID: LCS 480-480888/2-A

Matrix: Water

Analysis Batch: 481474

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 480888

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	3.40		ug/L		85	62 - 130
PCB-1260	4.00	2.94		ug/L		74	56 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	31		19 - 120
Tetrachloro-m-xylene	59		39 - 121

Lab Sample ID: 480-155595-3 MS

Matrix: Water

Analysis Batch: 481474

Client Sample ID: MW-6

Prep Type: Total/NA

Prep Batch: 480888

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		4.17	3.62		ug/L		87	28 - 150
PCB-1260	ND		4.17	3.29		ug/L		79	25 - 131

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	42		19 - 120
Tetrachloro-m-xylene	65		39 - 121

Lab Sample ID: 480-155595-3 MSD

Matrix: Water

Analysis Batch: 481474

Client Sample ID: MW-6

Prep Type: Total/NA

Prep Batch: 480888

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		4.00	3.34		ug/L		84	28 - 150	8	50
PCB-1260	ND		4.00	2.97		ug/L		74	25 - 131	10	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	32		19 - 120
Tetrachloro-m-xylene	65		39 - 121

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-480833/1-A

Matrix: Water

Analysis Batch: 481076

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 480833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/05/19 07:47	07/05/19 18:17	1
Antimony	ND		0.020	0.0068	mg/L		07/05/19 07:47	07/05/19 18:17	1
Arsenic	ND		0.010	0.0056	mg/L		07/05/19 07:47	07/05/19 18:17	1
Barium	ND		0.0020	0.00070	mg/L		07/05/19 07:47	07/05/19 18:17	1
Beryllium	ND		0.0020	0.00030	mg/L		07/05/19 07:47	07/05/19 18:17	1
Cadmium	ND		0.0010	0.00050	mg/L		07/05/19 07:47	07/05/19 18:17	1
Calcium	ND		0.50	0.10	mg/L		07/05/19 07:47	07/05/19 18:17	1
Chromium	ND		0.0040	0.0010	mg/L		07/05/19 07:47	07/05/19 18:17	1
Cobalt	ND		0.0040	0.00063	mg/L		07/05/19 07:47	07/05/19 18:17	1
Copper	ND		0.010	0.0016	mg/L		07/05/19 07:47	07/05/19 18:17	1
Iron	ND		0.050	0.019	mg/L		07/05/19 07:47	07/05/19 18:17	1
Lead	ND		0.0050	0.0030	mg/L		07/05/19 07:47	07/05/19 18:17	1
Magnesium	ND		0.20	0.043	mg/L		07/05/19 07:47	07/05/19 18:17	1
Manganese	ND		0.0030	0.00040	mg/L		07/05/19 07:47	07/05/19 18:17	1
Nickel	ND		0.010	0.0013	mg/L		07/05/19 07:47	07/05/19 18:17	1
Potassium	ND		0.50	0.10	mg/L		07/05/19 07:47	07/05/19 18:17	1
Selenium	ND		0.015	0.0087	mg/L		07/05/19 07:47	07/05/19 18:17	1
Silver	ND		0.0030	0.0017	mg/L		07/05/19 07:47	07/05/19 18:17	1
Sodium	ND		1.0	0.32	mg/L		07/05/19 07:47	07/05/19 18:17	1
Thallium	ND		0.020	0.010	mg/L		07/05/19 07:47	07/05/19 18:17	1
Vanadium	ND		0.0050	0.0015	mg/L		07/05/19 07:47	07/05/19 18:17	1
Zinc	0.00156	J	0.010	0.0015	mg/L		07/05/19 07:47	07/05/19 18:17	1

Lab Sample ID: LCS 480-480833/2-A

Matrix: Water

Analysis Batch: 481076

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 480833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.29		mg/L		93	80 - 120
Antimony	0.200	0.213		mg/L		106	80 - 120
Arsenic	0.200	0.199		mg/L		99	80 - 120
Barium	0.200	0.200		mg/L		100	80 - 120
Beryllium	0.200	0.200		mg/L		100	80 - 120
Cadmium	0.200	0.195		mg/L		98	80 - 120
Calcium	10.0	9.47		mg/L		95	80 - 120
Chromium	0.200	0.191		mg/L		96	80 - 120
Cobalt	0.200	0.187		mg/L		93	80 - 120
Copper	0.200	0.196		mg/L		98	80 - 120
Iron	10.0	9.92		mg/L		99	80 - 120
Lead	0.200	0.190		mg/L		95	80 - 120
Magnesium	10.0	9.63		mg/L		96	80 - 120
Manganese	0.200	0.196		mg/L		98	80 - 120
Nickel	0.200	0.198		mg/L		99	80 - 120
Potassium	10.0	9.60		mg/L		96	80 - 120
Selenium	0.200	0.196		mg/L		98	80 - 120
Silver	0.0500	0.0472		mg/L		94	80 - 120
Sodium	10.0	9.31		mg/L		93	80 - 120
Thallium	0.200	0.197		mg/L		99	80 - 120
Vanadium	0.200	0.197		mg/L		98	80 - 120

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QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-480833/2-A

Matrix: Water

Analysis Batch: 481076

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 480833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.199		mg/L		100	80 - 120

Method: 7470A_ASP - Mercury (CVAA)

Lab Sample ID: MB 480-480931/1-A

Matrix: Water

Analysis Batch: 481001

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 480931

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/05/19 11:55	07/05/19 14:29	1

Lab Sample ID: LCS 480-480931/2-A

Matrix: Water

Analysis Batch: 481001

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 480931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00713		mg/L		107	80 - 120

Lab Sample ID: 480-155595-7 MS

Matrix: Water

Analysis Batch: 481001

Client Sample ID: S-2

Prep Type: Total/NA

Prep Batch: 480931

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00687		mg/L		103	80 - 120

Lab Sample ID: 480-155595-7 MSD

Matrix: Water

Analysis Batch: 481001

Client Sample ID: S-2

Prep Type: Total/NA

Prep Batch: 480931

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00687		mg/L		103	80 - 120	0	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-481165/1-A

Matrix: Water

Analysis Batch: 481312

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 481165

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		07/08/19 15:08	07/09/19 11:42	1

Lab Sample ID: LCS 480-481165/2-A

Matrix: Water

Analysis Batch: 481312

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 481165

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.220	*	mg/L		88	90 - 110

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCSD 480-481165/22-A

Matrix: Water

Analysis Batch: 481312

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 481165

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.250	0.212	*	mg/L	-	85	90 - 110	4	15

Lab Sample ID: MB 480-481332/1-A

Matrix: Water

Analysis Batch: 481489

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 481332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L	-	07/09/19 13:58	07/10/19 13:02	1

Lab Sample ID: LCS 480-481332/2-A

Matrix: Water

Analysis Batch: 481489

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 481332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.245		mg/L	-	98	90 - 110

QC Association Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

GC/MS VOA

Analysis Batch: 480669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-1	MW-4	Total/NA	Water	8260C	
480-155595-2	MW-5	Total/NA	Water	8260C	
480-155595-3	MW-6	Total/NA	Water	8260C	
480-155595-4	RW-4	Total/NA	Water	8260C	
480-155595-5	RW-5	Total/NA	Water	8260C	
480-155595-6	S-1	Total/NA	Water	8260C	
480-155595-7	S-2	Total/NA	Water	8260C	
480-155595-8	S-3	Total/NA	Water	8260C	
480-155595-9	S-4	Total/NA	Water	8260C	
480-155595-10	DUP	Total/NA	Water	8260C	
MB 480-480669/7	Method Blank	Total/NA	Water	8260C	
LCS 480-480669/5	Lab Control Sample	Total/NA	Water	8260C	
480-155595-3 MS	MW-6	Total/NA	Water	8260C	
480-155595-3 MSD	MW-6	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 480813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-1	MW-4	Total/NA	Water	3510C	
480-155595-2	MW-5	Total/NA	Water	3510C	
480-155595-3	MW-6	Total/NA	Water	3510C	
480-155595-4	RW-4	Total/NA	Water	3510C	
480-155595-5	RW-5	Total/NA	Water	3510C	
480-155595-6	S-1	Total/NA	Water	3510C	
480-155595-7	S-2	Total/NA	Water	3510C	
480-155595-8	S-3	Total/NA	Water	3510C	
480-155595-9	S-4	Total/NA	Water	3510C	
480-155595-10	DUP	Total/NA	Water	3510C	
MB 480-480813/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-480813/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-155595-3 MS	MW-6	Total/NA	Water	3510C	
480-155595-3 MSD	MW-6	Total/NA	Water	3510C	

Analysis Batch: 481710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-1	MW-4	Total/NA	Water	8270D	480813
480-155595-2	MW-5	Total/NA	Water	8270D	480813
480-155595-3	MW-6	Total/NA	Water	8270D	480813
480-155595-4	RW-4	Total/NA	Water	8270D	480813
480-155595-5	RW-5	Total/NA	Water	8270D	480813
480-155595-6	S-1	Total/NA	Water	8270D	480813
480-155595-7	S-2	Total/NA	Water	8270D	480813
480-155595-8	S-3	Total/NA	Water	8270D	480813
480-155595-9	S-4	Total/NA	Water	8270D	480813
480-155595-10	DUP	Total/NA	Water	8270D	480813
MB 480-480813/1-A	Method Blank	Total/NA	Water	8270D	480813
LCS 480-480813/2-A	Lab Control Sample	Total/NA	Water	8270D	480813
480-155595-3 MS	MW-6	Total/NA	Water	8270D	480813
480-155595-3 MSD	MW-6	Total/NA	Water	8270D	480813

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

GC Semi VOA

Prep Batch: 480814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-6	S-1	Total/NA	Water	3510C	
480-155595-7	S-2	Total/NA	Water	3510C	
480-155595-8	S-3	Total/NA	Water	3510C	
480-155595-9	S-4	Total/NA	Water	3510C	
MB 480-480814/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-480814/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-480814/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 480888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-1	MW-4	Total/NA	Water	3510C	
480-155595-2	MW-5	Total/NA	Water	3510C	
480-155595-3	MW-6	Total/NA	Water	3510C	
480-155595-4	RW-4	Total/NA	Water	3510C	
480-155595-5	RW-5	Total/NA	Water	3510C	
480-155595-6	S-1	Total/NA	Water	3510C	
480-155595-7	S-2	Total/NA	Water	3510C	
480-155595-8	S-3	Total/NA	Water	3510C	
480-155595-9	S-4	Total/NA	Water	3510C	
480-155595-10	DUP	Total/NA	Water	3510C	
MB 480-480888/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-480888/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-155595-3 MS	MW-6	Total/NA	Water	3510C	
480-155595-3 MSD	MW-6	Total/NA	Water	3510C	

Analysis Batch: 481067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-6	S-1	Total/NA	Water	8081B	480814
480-155595-7	S-2	Total/NA	Water	8081B	480814
480-155595-8	S-3	Total/NA	Water	8081B	480814
480-155595-9	S-4	Total/NA	Water	8081B	480814
MB 480-480814/1-A	Method Blank	Total/NA	Water	8081B	480814
LCS 480-480814/2-A	Lab Control Sample	Total/NA	Water	8081B	480814
LCSD 480-480814/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	480814

Analysis Batch: 481474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-1	MW-4	Total/NA	Water	8082A	480888
480-155595-2	MW-5	Total/NA	Water	8082A	480888
480-155595-3	MW-6	Total/NA	Water	8082A	480888
480-155595-4	RW-4	Total/NA	Water	8082A	480888
480-155595-5	RW-5	Total/NA	Water	8082A	480888
480-155595-6	S-1	Total/NA	Water	8082A	480888
480-155595-7	S-2	Total/NA	Water	8082A	480888
480-155595-8	S-3	Total/NA	Water	8082A	480888
480-155595-9	S-4	Total/NA	Water	8082A	480888
480-155595-10	DUP	Total/NA	Water	8082A	480888
MB 480-480888/1-A	Method Blank	Total/NA	Water	8082A	480888
LCS 480-480888/2-A	Lab Control Sample	Total/NA	Water	8082A	480888
480-155595-3 MS	MW-6	Total/NA	Water	8082A	480888
480-155595-3 MSD	MW-6	Total/NA	Water	8082A	480888

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Metals

Prep Batch: 480833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-6	S-1	Total/NA	Water	3005A	
480-155595-7	S-2	Total/NA	Water	3005A	
480-155595-8	S-3	Total/NA	Water	3005A	
480-155595-9	S-4	Total/NA	Water	3005A	
MB 480-480833/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-480833/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 480931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-6	S-1	Total/NA	Water	7470A	
480-155595-7	S-2	Total/NA	Water	7470A	
480-155595-8	S-3	Total/NA	Water	7470A	
480-155595-9	S-4	Total/NA	Water	7470A	
MB 480-480931/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-480931/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-155595-7 MS	S-2	Total/NA	Water	7470A	
480-155595-7 MSD	S-2	Total/NA	Water	7470A	

Analysis Batch: 481001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-6	S-1	Total/NA	Water	7470A_ASP	480931
480-155595-7	S-2	Total/NA	Water	7470A_ASP	480931
480-155595-8	S-3	Total/NA	Water	7470A_ASP	480931
480-155595-9	S-4	Total/NA	Water	7470A_ASP	480931
MB 480-480931/1-A	Method Blank	Total/NA	Water	7470A_ASP	480931
LCS 480-480931/2-A	Lab Control Sample	Total/NA	Water	7470A_ASP	480931
480-155595-7 MS	S-2	Total/NA	Water	7470A_ASP	480931
480-155595-7 MSD	S-2	Total/NA	Water	7470A_ASP	480931

Analysis Batch: 481076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-6	S-1	Total/NA	Water	6010C	480833
480-155595-7	S-2	Total/NA	Water	6010C	480833
480-155595-8	S-3	Total/NA	Water	6010C	480833
480-155595-9	S-4	Total/NA	Water	6010C	480833
MB 480-480833/1-A	Method Blank	Total/NA	Water	6010C	480833
LCS 480-480833/2-A	Lab Control Sample	Total/NA	Water	6010C	480833

General Chemistry

Prep Batch: 481165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-7	S-2	Total/NA	Water	9012B	
480-155595-8	S-3	Total/NA	Water	9012B	
480-155595-9	S-4	Total/NA	Water	9012B	
MB 480-481165/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-481165/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCSD 480-481165/22-A	Lab Control Sample Dup	Total/NA	Water	9012B	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

General Chemistry

Analysis Batch: 481312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-7	S-2	Total/NA	Water	9012B	481165
480-155595-8	S-3	Total/NA	Water	9012B	481165
480-155595-9	S-4	Total/NA	Water	9012B	481165
MB 480-481165/1-A	Method Blank	Total/NA	Water	9012B	481165
LCS 480-481165/2-A	Lab Control Sample	Total/NA	Water	9012B	481165
LCSD 480-481165/22-A	Lab Control Sample Dup	Total/NA	Water	9012B	481165

Prep Batch: 481332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-6	S-1	Total/NA	Water	9012B	
MB 480-481332/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-481332/2-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 481489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155595-6	S-1	Total/NA	Water	9012B	481332
MB 480-481332/1-A	Method Blank	Total/NA	Water	9012B	481332
LCS 480-481332/2-A	Lab Control Sample	Total/NA	Water	9012B	481332

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: MW-4

Lab Sample ID: 480-155595-1

Date Collected: 06/26/19 14:00

Matrix: Water

Date Received: 06/27/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	480669	07/03/19 11:57	RJF	TAL BUF
Total/NA	Prep	3510C			480813	07/03/19 14:34	SMP	TAL BUF
Total/NA	Analysis	8270D		1	481710	07/11/19 22:34	PJQ	TAL BUF
Total/NA	Prep	3510C			480888	07/05/19 08:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	481474	07/10/19 16:11	W1T	TAL BUF

Client Sample ID: MW-5

Lab Sample ID: 480-155595-2

Date Collected: 06/26/19 13:30

Matrix: Water

Date Received: 06/27/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	480669	07/03/19 12:21	RJF	TAL BUF
Total/NA	Prep	3510C			480813	07/03/19 14:34	SMP	TAL BUF
Total/NA	Analysis	8270D		1	481710	07/11/19 23:03	PJQ	TAL BUF
Total/NA	Prep	3510C			480888	07/05/19 08:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	481474	07/10/19 16:24	W1T	TAL BUF

Client Sample ID: MW-6

Lab Sample ID: 480-155595-3

Date Collected: 06/26/19 09:30

Matrix: Water

Date Received: 06/27/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	480669	07/03/19 12:45	RJF	TAL BUF
Total/NA	Prep	3510C			480813	07/03/19 14:34	SMP	TAL BUF
Total/NA	Analysis	8270D		1	481710	07/11/19 22:06	PJQ	TAL BUF
Total/NA	Prep	3510C			480888	07/05/19 08:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	481474	07/10/19 15:33	W1T	TAL BUF

Client Sample ID: RW-4

Lab Sample ID: 480-155595-4

Date Collected: 06/27/19 13:00

Matrix: Water

Date Received: 06/27/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	480669	07/03/19 13:09	RJF	TAL BUF
Total/NA	Prep	3510C			480813	07/03/19 14:34	SMP	TAL BUF
Total/NA	Analysis	8270D		1	481710	07/11/19 23:32	PJQ	TAL BUF
Total/NA	Prep	3510C			480888	07/05/19 08:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	481474	07/10/19 16:37	W1T	TAL BUF

Client Sample ID: RW-5

Lab Sample ID: 480-155595-5

Date Collected: 06/27/19 14:10

Matrix: Water

Date Received: 06/27/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	480669	07/03/19 13:32	RJF	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: RW-5

Lab Sample ID: 480-155595-5

Date Collected: 06/27/19 14:10

Matrix: Water

Date Received: 06/27/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			480813	07/03/19 14:34	SMP	TAL BUF
Total/NA	Analysis	8270D		1	481710	07/12/19 00:01	PJQ	TAL BUF
Total/NA	Prep	3510C			480888	07/05/19 08:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	481474	07/10/19 16:50	W1T	TAL BUF

Client Sample ID: S-1

Lab Sample ID: 480-155595-6

Date Collected: 06/27/19 10:15

Matrix: Water

Date Received: 06/27/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	480669	07/03/19 13:56	RJF	TAL BUF
Total/NA	Prep	3510C			480813	07/03/19 14:34	SMP	TAL BUF
Total/NA	Analysis	8270D		1	481710	07/12/19 00:30	PJQ	TAL BUF
Total/NA	Prep	3510C			480814	07/03/19 14:42	SMP	TAL BUF
Total/NA	Analysis	8081B		1	481067	07/08/19 15:58	JLS	TAL BUF
Total/NA	Prep	3510C			480888	07/05/19 08:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	481474	07/10/19 17:03	W1T	TAL BUF
Total/NA	Prep	3005A			480833	07/05/19 07:47	EMB	TAL BUF
Total/NA	Analysis	6010C		1	481076	07/05/19 18:24	EMB	TAL BUF
Total/NA	Prep	7470A			480931	07/05/19 11:55	BMB	TAL BUF
Total/NA	Analysis	7470A_ASP		1	481001	07/05/19 14:31	BMB	TAL BUF
Total/NA	Prep	9012B			481332	07/09/19 13:58	AJL	TAL BUF
Total/NA	Analysis	9012B		1	481489	07/10/19 13:14	MDL	TAL BUF

Client Sample ID: S-2

Lab Sample ID: 480-155595-7

Date Collected: 06/26/19 14:45

Matrix: Water

Date Received: 06/27/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	480669	07/03/19 14:20	RJF	TAL BUF
Total/NA	Prep	3510C			480813	07/03/19 14:34	SMP	TAL BUF
Total/NA	Analysis	8270D		1	481710	07/12/19 00:58	PJQ	TAL BUF
Total/NA	Prep	3510C			480814	07/03/19 14:42	SMP	TAL BUF
Total/NA	Analysis	8081B		1	481067	07/08/19 16:23	JLS	TAL BUF
Total/NA	Prep	3510C			480888	07/05/19 08:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	481474	07/10/19 17:15	W1T	TAL BUF
Total/NA	Prep	3005A			480833	07/05/19 07:47	EMB	TAL BUF
Total/NA	Analysis	6010C		1	481076	07/05/19 18:28	EMB	TAL BUF
Total/NA	Prep	7470A			480931	07/05/19 11:55	BMB	TAL BUF
Total/NA	Analysis	7470A_ASP		1	481001	07/05/19 14:33	BMB	TAL BUF
Total/NA	Prep	9012B			481165	07/08/19 15:08	AJL	TAL BUF
Total/NA	Analysis	9012B		1	481312	07/09/19 11:55	MDL	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Client Sample ID: S-3

Lab Sample ID: 480-155595-8

Date Collected: 06/26/19 15:30

Matrix: Water

Date Received: 06/27/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	480669	07/03/19 14:44	RJF	TAL BUF
Total/NA	Prep	3510C			480813	07/03/19 14:34	SMP	TAL BUF
Total/NA	Analysis	8270D		5	481710	07/12/19 01:27	PJQ	TAL BUF
Total/NA	Prep	3510C			480814	07/03/19 14:42	SMP	TAL BUF
Total/NA	Analysis	8081B		1	481067	07/08/19 16:49	JLS	TAL BUF
Total/NA	Prep	3510C			480888	07/05/19 08:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	481474	07/10/19 17:28	W1T	TAL BUF
Total/NA	Prep	3005A			480833	07/05/19 07:47	EMB	TAL BUF
Total/NA	Analysis	6010C		1	481076	07/05/19 18:32	EMB	TAL BUF
Total/NA	Prep	7470A			480931	07/05/19 11:55	BMB	TAL BUF
Total/NA	Analysis	7470A_ASP		1	481001	07/05/19 14:38	BMB	TAL BUF
Total/NA	Prep	9012B			481165	07/08/19 15:08	AJL	TAL BUF
Total/NA	Analysis	9012B		1	481312	07/09/19 11:59	MDL	TAL BUF

Client Sample ID: S-4

Lab Sample ID: 480-155595-9

Date Collected: 06/26/19 11:00

Matrix: Water

Date Received: 06/27/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	480669	07/03/19 15:08	RJF	TAL BUF
Total/NA	Prep	3510C			480813	07/03/19 14:34	SMP	TAL BUF
Total/NA	Analysis	8270D		5	481710	07/12/19 01:55	PJQ	TAL BUF
Total/NA	Prep	3510C			480814	07/03/19 14:42	SMP	TAL BUF
Total/NA	Analysis	8081B		1	481067	07/08/19 17:14	JLS	TAL BUF
Total/NA	Prep	3510C			480888	07/05/19 08:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	481474	07/10/19 17:41	W1T	TAL BUF
Total/NA	Prep	3005A			480833	07/05/19 07:47	EMB	TAL BUF
Total/NA	Analysis	6010C		1	481076	07/05/19 18:36	EMB	TAL BUF
Total/NA	Prep	7470A			480931	07/05/19 11:55	BMB	TAL BUF
Total/NA	Analysis	7470A_ASP		1	481001	07/05/19 14:39	BMB	TAL BUF
Total/NA	Prep	9012B			481165	07/08/19 15:08	AJL	TAL BUF
Total/NA	Analysis	9012B		1	481312	07/09/19 12:00	MDL	TAL BUF

Client Sample ID: DUP

Lab Sample ID: 480-155595-10

Date Collected: 06/26/19 00:00

Matrix: Water

Date Received: 06/27/19 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	480669	07/03/19 15:32	RJF	TAL BUF
Total/NA	Prep	3510C			480813	07/03/19 14:34	SMP	TAL BUF
Total/NA	Analysis	8270D		1	481710	07/12/19 02:23	PJQ	TAL BUF
Total/NA	Prep	3510C			480888	07/05/19 08:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	481474	07/10/19 17:54	W1T	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Accreditation/Certification Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2-Dichloroethene, Total

Method Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A_ASP	Mercury (CVAA)	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-155595-1	MW-4	Water	06/26/19 14:00	06/27/19 14:55	
480-155595-2	MW-5	Water	06/26/19 13:30	06/27/19 14:55	
480-155595-3	MW-6	Water	06/26/19 09:30	06/27/19 14:55	
480-155595-4	RW-4	Water	06/27/19 13:00	06/27/19 14:55	
480-155595-5	RW-5	Water	06/27/19 14:10	06/27/19 14:55	
480-155595-6	S-1	Water	06/27/19 10:15	06/27/19 14:55	
480-155595-7	S-2	Water	06/26/19 14:45	06/27/19 14:55	
480-155595-8	S-3	Water	06/26/19 15:30	06/27/19 14:55	
480-155595-9	S-4	Water	06/26/19 11:00	06/27/19 14:55	
480-155595-10	DUP	Water	06/26/19 00:00	06/27/19 14:55	

Quantitation Limit Exceptions Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Cherry Farms Annual GW Sample

Job ID: 480-155595-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
6010C	Arsenic	Water	Total/NA	mg/L	0.010	0.015
6010C	Cadmium	Water	Total/NA	mg/L	0.0010	0.002
6010C	Lead	Water	Total/NA	mg/L	0.0050	0.01
6010C	Selenium	Water	Total/NA	mg/L	0.015	0.025
6010C	Silver	Water	Total/NA	mg/L	0.0030	0.006



CHAIN OF CUSTODY

Client: Cherry Farms Participating Parties

PAGE 0F

Bottle Order Control #
Lab Job #

FED-EX Tracking #

Lab Quote #

CLIENT/REPORTING INFORMATION				PROJECT INFORMATION				BILLING INFORMATION				REQUESTED ANALYSIS (see Test Code sheet)				LAB USE ONLY	
Groundwater & Environmental Services, Inc. 415 Lawrence Bell Drive, Williamsville, NY 14221 Project Manager: Thomas Palmer Phone #: 800-287-7857 PM Email: NERegion@gesonline.com 866-902-2187 fax				Project Name: Cherry Farm/River Road Site Project Address: 4100 River Rd, Tonawanda, NY Project PSID #: 790235				Groundwater & Environmental Services, Inc. ges-invoicing@gesonline.com ATTN: Accounts Payable Invoice Instructions (Project #/ Phase / Task / Altorg) 0901737/05/206/1109				8082A - TCL PCBs - OLM04.2 8270D - (MOD) TCL SVOA - OLM04.2 8260C - (MOD) TCL VOC OLM04.2 8081B - TCL Pesticides - OLM04.2 6010C, 7470A - Metals 9012B - Cyanide, Total					
Sampler(s) Name: Mike Reisch				number of preserved bottles													
Lab Sample #	Field ID / Point of Collection (Sys Loc Code)	Depth Interval (ft)	Date Sampled	Time Sampled	Sampler	Matrix	Total # Bottles	HCl	NaOH	HNO3	H2SO4	DI Water	MEOH	ENCORE	Amber		
	MW-4	NA	6/26	1400	WGR	WG	7	3			4						
	MW-5	NA	6/26	1330		WG	3	3			4						
	MW-6	NA	6/26	0930		WG	3	3			4						
	RW-4	NA	6/27	1300		WG	3	3			4						
	RW-5	NA	6/27	1410		WG	3	3			4						
	S-1	NA	6/27	1215		WG	11	3	1	1	6				X	X	
	S-2	NA	6/26	1445		WG	11	3	1	1	6				X	X	
	S-3	NA	6/26	1530		WG	11	3	1	1	6				X	X	
	S-4	NA	6/26	1100		WG	11	3	1	1	6				X	X	
	MW-5	NA	6/26	1030		WG	11	3	1	1	6				X	X	
	MW-6	NA	6/26	1230		WG	11	3	1	1	6				X	X	
	Dup	NA	6/26			WG	11										



480-155595 Chain of Custody

Data Deliverable Information

- ☐ Commercial 'A' (Level 1) = Results Only
☐ Commercial 'B' (Level 2) = Results + QC
☐ FULLT1 (Level 3 & 4)
☐ NI Reduced = Results + QC Summary + Partial Raw Data
☐ Commercial 'C'
☐ NI Data of Known Quality Protocol Reporting
☐ NYASP Category A
☐ NYASP Category B
☐ State Forms
☒ EDD Format
☐ Other

Laboratory Information

Lab: TestAmerica Buffalo
Address: 10 Hazelwood Dr, Amherst, NY 14228
Phone: 716-691-2600
Lab PM: Oriette Johnson
Lab PM Email: oriette.johnson@testamericainc.com

Please Email the EQ EDD Package to ges@eqonline.com

Sample Custody must be documented below each time samples change possession, including courier.	
Relinquished By: <u>CLV</u>	Received By: <u>SS</u>
Date / Time: <u>6/27 1455</u>	Date / Time: <u>6/27 1945</u>
Relinquished By: _____	Received By: _____
Date / Time: _____	Date / Time: _____
Relinquished By: _____	Received By: _____
Date / Time: _____	Date / Time: _____
Custody Seal Number: _____	Preserved where applicable: _____
☐ Intact	☐ On Ice
☐ Not Intact	Cooler Temp: _____

#1 3.76, 4.36, 4.90

Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

Job Number: 480-155595-1

Login Number: 155595

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time (Excluding tests with immediate HTs)..		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Sampling Company provided.		
Samples received within 48 hours of sampling.		
Samples requiring field filtration have been filtered in the field.		
Chlorine Residual checked.		



Appendix B-1 – Historical Water Level Data



Appendix B-1

Historical Water Level Data

		08/08/97	08/19/97	08/20/97	08/21/97	08/22/97	08/25/97	09/04/97	09/12/97	10/03/97	10/13/97	11/21/97	12/05/97	12/24/97	01/06/98	02/02/98	02/18/98	04/01/98	04/27/98	05/27/98	06/25/98	07/31/98
WELL	Original ELEV.	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW
NAME	TOC	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)
MW-1	577.68	11.55	11.58	11.61	11.40	11.23	11.50	11.78	11.74	11.38	11.50	11.32	11.48	11.79	11.48	11.62	11.53	11.10	11.34	11.37	11.50	11.58
MW-2	578.76	12.77	12.91	12.94	12.66	12.44	12.83	13.20	13.09	12.77	12.98	13.13	12.84	13.18	12.80	12.81	12.82	12.36	12.57	12.69	12.69	12.91
MW-3	571.16	5.58	5.60	5.75	5.36	5.23	5.54	5.92	5.67	5.34	5.57	5.29	5.57	5.87	5.45	5.45	5.48	5.12	5.31	5.50	5.59	5.79
MW-4	583.83	17.76	17.87	18.04	18.82	NM	18.13	18.25	18.25	17.85	17.94	18.20	17.96	18.10	20.17	NM	18.06	18.02	17.90	18.00	17.99	18.09
MW-4		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	584.14	18.35	18.50	19.06	18.83	18.79	19.02	19.18	19.05	18.60	18.74	18.47	19.11	19.19	18.91	18.82	19.04	18.69	18.78	18.04	18.65	18.73
MW-6	585.70	19.95	20.07	20.68	20.39	20.29	20.61	20.68	20.70	20.12	20.69	20.84	20.72	21.03	20.43	20.34	20.80	20.30	20.10	20.38	20.28	20.48
MW-7	586.40	20.30	20.40	21.04	20.91	20.71	21.02	21.09	21.12	20.35	20.90	21.09	21.00	21.15	20.80	20.57	20.92	20.61	20.63	20.78	20.77	21.05
OW-1	573.63	8.05	8.21	8.38	8.05	7.98	8.30	8.60	8.44	8.15	8.29	8.20	8.48	8.76	8.42	8.38	8.50	7.98	8.08	8.25	8.23	8.41
OW-2	584.14	15.52	16.58	15.48	15.45	15.48	15.48	15.60	15.61	15.57	15.55	15.45	15.62	15.57	15.77	15.80	15.62	15.88	15.99	15.93	15.81	16.04
OW-3	576.25	10.59	10.65	10.72	10.79	10.68	10.70	10.88	11.11	10.70	10.80	10.69	11.00	11.07	10.80	10.58	10.92	10.55	10.63	10.60	10.91	10.55
OW-4	572.21	6.55	6.65	6.70	6.49	6.40	6.64	6.95	7.35	6.61	6.77	6.67	6.93	7.07	6.76	6.62	6.90	6.45	6.48	6.60	6.80	6.53
OW-5	584.16	15.92	16.04	15.87	15.76	15.88	16.12	16.22	16.25	16.36	16.40	16.75	16.75	17.06	17.10	17.11	16.92	17.16	17.42	17.33	17.39	17.53
OW-5	584.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OW-6	572.12	6.05	6.10	6.19	6.18	6.22	6.30	6.48	6.49	6.15	6.27	6.09	6.30	6.36	5.97	5.70	6.03	5.82	6.01	6.22	6.56	6.25
OW-6	572.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OW-7	574.84	8.74	8.79	8.92	8.88	8.97	9.10	9.30	9.28	8.81	9.05	8.96	8.92	9.04	8.51	8.23	8.50	8.30	8.58	8.98	9.26	8.95
OW-8	571.31	5.37	5.42	5.50	8.42	5.38	5.61	5.80	5.80	5.44	5.60	5.59	5.53	5.60	5.27	5.15	5.31	5.22	5.34	5.71	5.74	5.77
OW-9	588.32	21.42	21.46	21.46	21.50	21.51	21.48	21.60	21.62	21.50	21.42	21.08	20.62	20.92	20.72	20.36	20.48	20.32	20.56	21.12	21.55	NM
S-1	571.84	8.80	6.06	7.04	7.67	7.89	8.10	8.50	7.75	6.17	6.05	6.97	7.80	8.07	6.40	6.45	7.68	5.84	5.99	6.00	7.56	7.32
S-2	571.81	10.49	6.15	6.26	NM	6.16	6.23	NM	NM	6.15	6.31	6.20	6.51	6.61	6.28	6.07	6.38	6.01	6.10	6.14	6.40	6.08
S-3	571.84	10.65	5.95	6.03	NM	6.05	6.16	6.36	6.40	6.00	6.18	5.96	6.28	6.33	5.88	5.63	6.03	5.75	5.94	6.10	6.47	6.01
S-4	571.51	8.74	5.39	5.55	5.55	6.61	5.76	5.95	5.92	5.40	5.72	5.65	5.57	5.68	5.10	4.56	4.79	4.92	5.28	5.83	5.79	5.63
RW-1	581.82	16.25	16.32	22.20	NM	NM	NM	NM	NM	NM	NM	16.13	22.17	22.17	21.18	16.28	19.42	21.51	21.31	21.20	21.53	21.28
RW-2	581.82	15.91	15.99	22.18	NM	NM	NM	NM	NM	NM	NM	15.85	22.10	21.37	21.95	21.85	21.32	21.61	22.04	21.93	21.37	21.55
RW-3	582.30	16.37	16.48	16.66	NM	NM	NM	NM	NM	NM	NM	10.30	22.63	22.70	19.77	21.96	22.29	22.68	22.10	22.12	22.24	22.65
RW-4	581.83	15.95	16.09	22.25	NM	NM	NM	NM	NM	NM	NM	19.06	27.77	28.45	28.46	21.51	28.30	28.47	21.95	21.12	21.95	21.81
RW-5	582.05	NM	16.37	22.40	NM	NM	NM	NM	NM	NM	NM	16.39	37.67	22.44	22.28	21.70	21.47	33.98	22.27	21.51	18.37	22.02
RW-6	570.76	4.89	5.05	11.02	NM	NM	NM	NM	NM	NM	NM	5.21	10.05	10.93	10.14	10.90	10.46	10.40	10.19	10.55	8.05	10.42
RW-7	570.67	4.78	4.93	11.05	NM	NM	NM	NM	NM	NM	NM	4.91	10.55	11.06	10.47	10.79	10.85	10.40	10.65	10.23	5.26	10.05
RW-8	583.83	17.92	18.07	23.14	NM	NM	NM	NM	NM	NM	NM	22.39	22.51	23.09	18.47	18.40	22.26	22.68	22.63	22.60	18.40	18.45
RW-9	583.86	17.88	18.00	24.10	NM	NM	NM	NM	NM	NM	NM	24.05	23.36	23.58	18.45	18.37	23.58	21.75	18.12	18.40	18.24	18.50
RW-10	583.28	17.09	17.21	23.55	NM	NM	NM	NM	NM	NM	NM	23.47	23.39	23.52	23.50	22.45	22.82	22.98	23.03	23.26	17.55	23.36
RW-11	581.22	15.10	15.18	20.28	NM	NM	NM	NM	NM	NM	NM	20.95	20.24	20.09	20.95	20.83	20.09	20.28	21.13	20.58	17.84	NM
SG	568.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SG	567.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

** Staff Gauge, OW-5, and OW-6 were re-surveyed in June 2011.

*** MW-4 Elevation change, re-surveyed March 14, 2019

DTW = depth to water

FEET = feet BTOC

BTOC = below top of casing

NA = Not applicable

D = Destroyed/abandoned well

NM = DTW not measured



Appendix B-1

Historical Water Level Data

		08/27/98	09/28/98	10/21/98	11/23/98	12/29/98	01/28/99	02/22/99	03/29/99	04/19/99	05/28/99	06/25/99	07/25/99	08/27/99	09/27/99	10/25/99	11/08/99	12/22/99	01/27/00	02/25/00	03/24/00	04/26/00
WELL	Original ELEV.	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW
NAME	TOC	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)
MW-1	577.68	11.65	11.75	11.95	12.41	12.63	12.33	12.65	12.32	12.17	12.08	12.48	12.21	12.20	12.41	12.22	12.73	12.55	11.66	12.72	12.76	12.55
MW-2	578.76	12.84	12.96	13.11	13.67	13.95	13.75	13.89	13.75	13.56	13.43	13.81	13.40	13.45	13.71	13.55	14.22	13.99	12.91	14.20	14.32	14.05
MW-3	571.16	5.90	5.96	6.08	6.46	7.05	6.46	6.69	6.50	5.97	6.12	6.46	6.25	6.16	6.78	6.12	6.54	6.40	5.51	6.84	6.72	6.75
MW-4	583.83	18.18	18.18	18.45	18.87	19.30	19.07	19.12	18.84	18.71	18.58	18.92	18.72	18.56	18.72	18.59	19.09	19.27	19.17	18.40	19.34	19.07
MW-4		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	584.14	18.48	18.60	18.92	19.36	19.74	19.71	19.79	19.61	19.50	19.27	19.51	19.30	19.24	19.39	19.24	19.96	19.83	19.52	20.07	20.05	19.93
MW-6	585.70	19.93	20.32	20.30	21.14	21.69	21.65	21.68	21.58	21.37	21.34	21.32	20.90	21.02	21.25	21.24	21.95	21.53	21.10	22.01	22.04	21.52
MW-7	586.40	20.41	20.78	21.00	21.70	22.13	21.73	21.76	21.74	21.61	21.64	21.78	21.51	21.52	21.73	21.65	22.02	21.79	21.70	22.20	22.11	21.71
OW-1	573.63	8.30	8.38	8.69	9.14	9.66	9.39	9.56	9.36	8.89	8.91	9.12	8.61	8.78	9.30	9.01	9.58	9.40	8.45	9.72	9.65	9.72
OW-2	584.14	16.00	15.94	15.94	15.94	16.00	16.21	16.35	16.03	16.43	16.33	16.42	16.23	16.36	16.40	16.57	16.59	16.48	15.81	16.58	16.48	16.63
OW-3	576.25	10.03	10.10	10.42	10.80	11.38	11.25	11.29	11.27	11.26	11.15	11.48	11.29	11.34	11.35	11.33	11.37	11.33	11.20	11.53	11.34	11.26
OW-4	572.21	5.91	6.16	6.41	6.88	7.47	7.29	7.34	7.28	7.24	7.13	7.45	7.17	7.26	7.39	7.26	7.45	7.38	7.21	7.44	7.42	7.35
OW-5	584.16	17.06	16.96	17.06	16.95	17.32	17.80	18.08	17.95	18.17	18.22	18.13	18.18	18.24	18.43	18.45	18.51	18.58	18.47	18.61	18.43	18.28
OW-5	584.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OW-6	572.12	4.28	4.45	5.03	5.64	6.77	6.51	6.63	6.67	6.77	6.78	7.06	6.91	6.96	7.04	6.94	6.89	6.88	6.57	7.12	6.89	6.85
OW-6	572.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OW-7	574.84	7.62	6.40	7.25	8.07	9.62	9.23	9.42	9.53	9.61	9.49	9.99	9.73	9.81	9.90	9.96	9.93	9.78	9.61	9.78	10.03	9.71
OW-8	571.31	4.69	3.92	5.23	5.36	6.43	6.16	6.26	6.36	6.32	6.31	6.81	6.40	6.45	6.63	6.76	6.81	6.67	6.33	6.72	6.87	6.49
OW-9	588.32	NM	17.43	18.63	20.08	NM	NM	NM	NM	21.64	21.75	21.94	22.02	21.97	22.11	21.88	21.67	21.72	21.62	21.99	21.78	21.51
S-1	571.84	6.86	5.75	7.70	7.23	7.95	7.68	7.61	7.76	7.71	7.62	7.59	7.67	7.65	7.60	7.52	7.80	7.51	7.02	7.85	7.65	7.71
S-2	571.81	5.37	5.59	5.88	6.29	6.92	6.77	6.80	6.78	6.77	6.65	7.01	6.78	6.82	6.95	6.72	6.91	6.86	6.51	6.94	6.83	6.78
S-3	571.84	4.51	4.80	5.23	5.78	6.70	6.41	8.34	6.53	6.61	6.60	6.91	6.73	6.82	6.79	6.71	6.74	6.73	6.59	6.81	6.68	6.68
S-4	571.51	5.51	3.02	3.42	4.70	6.61	5.97	6.13	6.28	6.32	6.39	6.95	6.37	6.33	6.44	7.05	7.03	7.04	6.86	6.88	7.15	6.72
RW-1	581.82	21.08	21.85	25.35	17.23	27.15	35.55	34.91	30.40	16.85	25.80	17.24	16.81	25.90	26.35	NM	17.48	17.35	17.66	34.67	17.60	25.64
RW-2	581.82	21.53	21.40	25.61	26.01	25.88	26.32	25.81	25.70	25.40	25.65	25.40	26.40	25.51	17.08	17.10	25.51	36.32	36.30	25.27	25.52	25.91
RW-3	582.30	21.59	22.19	26.55	26.77	38.32	26.43	26.71	26.51	26.67	26.51	26.52	36.58	17.19	17.35	27.25	27.25	37.21	37.10	28.23	27.87	23.09
RW-4	581.83	22.08	21.52	24.51	24.53	17.29	25.25	24.91	25.21	25.31	24.66	17.12	21.63	22.82	22.45	22.95	17.52	22.45	23.02	22.43	22.32	22.49
RW-5	582.05	22.28	21.75	25.42	37.62	25.61	25.68	37.84	37.57	37.68	26.03	37.85	37.71	26.54	25.96	17.31	35.95	25.75	25.31	26.00	30.41	25.65
RW-6	570.76	10.12	5.36	15.20	14.23	14.63	6.32	6.29	14.50	15.40	15.48	6.27	15.26	15.31	14.94	15.19	6.67	6.49	6.59	6.88	6.84	15.17
RW-7	570.67	10.37	19.80	14.97	5.72	22.12	14.95	14.90	14.07	14.96	NM	14.83	14.97	14.90	13.38	24.03	14.92	14.96	14.44	14.50	26.89	14.00
RW-8	583.83	22.23	22.69	27.12	26.70	26.12	26.57	26.11	26.62	26.90	26.27	19.29	26.27	26.31	19.22	26.37	26.90	26.21	26.11	26.33	26.67	26.37
RW-9	583.86	17.71	23.93	18.31	27.23	19.63	27.65	27.78	27.17	27.55	NM	19.32	27.25	27.30	19.29	27.05	27.32	19.51	19.30	27.68	27.10	19.44
RW-10	583.28	22.79	23.35	23.31	23.52	22.65	23.11	23.03	23.56	23.45	23.36	23.33	23.07	23.20	23.04	22.85	22.88	23.08	23.20	23.25	23.38	22.83
RW-11	581.22	20.32	21.07	20.74	21.21	23.12	22.77	22.86	23.23	22.95	22.97	22.77	23.46	23.40	23.27	22.76	23.28	23.22	23.20	23.34	23.25	22.80
SG	568.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SG	567.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

** Staff Gauge, OW-5, and OW-6 were re-surveyed in June 2011.

*** MW-4 Elevation change, re-surveyed March 14, 2019

DTW = depth to water

FEET = feet BTOC

BTOC = below top of casing

NA = Not applicable

D = Destroyed/abandoned well

NM = DTW not measured

Appendix B-1

Historical Water Level Data

		05/26/00	06/26/00	07/21/00	08/28/00	09/29/00	11/01/00	11/30/00	12/11/00	01/22/01	02/27/01	03/16/01	04/20/01	05/30/01	06/18/01	08/01/01	08/24/01	09/25/01	10/22/01	12/11/01	01/23/02	02/20/02
WELL	Original ELEV.	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW
NAME	TOC	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)
MW-1	577.68	12.25	11.97	11.86	12.14	12.14	12.67	12.91	13.02	12.96	12.58	12.77	12.30	12.11	12.22	12.63	12.79	12.67	12.67	12.98	12.58	12.48
MW-2	578.76	13.70	13.43	13.32	13.56	13.57	14.14	14.46	14.63	14.32	14.11	14.45	13.75	13.61	13.69	13.93	14.13	13.90	14.08	14.50	14.11	13.91
MW-3	571.16	6.29	5.75	5.68	6.04	6.42	6.84	6.72	7.39	7.03	6.90	6.96	6.21	6.02	6.21	7.01	7.03	7.05	6.76	7.31	7.04	6.75
MW-4	583.83	15.05	16.52	16.23	17.42	18.80	19.35	13.50	18.87	19.69	19.32	19.39	19.00	18.83	18.87	19.22	19.52	19.51	12.27	14.45	8.50	16.02
MW-4		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	584.14	19.46	19.07	18.82	19.02	19.85	19.93	20.36	20.35	20.27	20.04	20.12	19.62	19.42	19.37	19.55	19.80	19.67	19.77	20.23	19.88	19.67
MW-6	585.70	21.35	21.02	20.53	21.14	21.08	21.65	21.95	22.18	21.84	21.76	22.34	21.41	21.25	21.21	21.32	21.47	21.43	21.65	21.92	21.81	21.64
MW-7	586.40	21.47	21.12	20.78	21.39	21.33	21.95	22.35	22.29	22.11	21.82	22.13	21.60	21.44	21.47	21.76	21.81	21.89	21.92	22.06	21.74	21.43
OW-1	573.63	9.15	8.68	8.52	8.84	9.14	9.42	9.60	10.13	9.97	9.78	9.75	9.10	8.90	8.99	9.60	9.67	9.53	9.59	10.10	9.77	9.55
OW-2	584.14	16.72	16.59	16.43	16.48	16.38	16.41	16.72	16.41	16.73	16.63	9.84	16.60	16.59	16.77	16.71	14.67	16.66	15.11	15.18	15.21	16.29
OW-3	576.25	11.18	10.79	10.75	10.88	11.21	11.65	11.85	11.77	11.83	11.63	11.47	11.42	11.21	11.16	11.67	11.71	11.79	11.45	11.45	11.15	10.84
OW-4	572.21	7.15	6.73	6.73	6.90	7.27	7.83	8.19	7.83	7.98	7.67	7.60	7.51	7.20	7.15	7.73	7.68	7.72	7.50	7.53	7.21	6.98
OW-5	584.16	18.21	17.91	17.71	17.70	17.68	17.98	18.27	18.31	18.58	18.48	18.53	18.24	18.25	18.14	18.16	18.24	18.32	18.52	18.65	18.01	17.69
OW-5	584.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OW-6	572.12	6.70	6.17	6.19	6.49	6.93	7.37	7.55	7.40	7.41	7.11	6.95	6.95	6.65	6.67	7.29	7.26	7.34	7.05	7.01	6.54	6.14
OW-6	572.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OW-7	574.84	9.43	8.76	8.88	9.27	10.35	10.72	10.24	10.43	10.28	9.90	9.65	9.73	9.38	9.38	10.12	10.17	10.30	9.87	9.91	9.23	8.71
OW-8	571.31	6.31	6.04	6.03	6.33	7.01	7.34	6.93	7.14	6.92	6.51	6.54	6.49	6.40	6.45	6.81	6.91	6.98	6.79	6.92	6.46	6.02
OW-9	588.32	21.48	21.20	21.21	21.65	21.88	22.11	22.22	22.20	22.03	21.70	21.73	21.65	21.67	21.78	22.12	22.17	22.37	22.06	21.90	21.38	20.92
S-1	571.84	7.79	7.85	7.47	7.78	7.61	7.63	7.55	7.62	7.59	7.95	7.57	7.68	7.65	7.56	7.53	7.27	7.26	6.56	8.21	7.95	7.90
S-2	571.81	6.60	6.17	6.15	6.35	6.79	7.35	7.69	7.31	7.49	7.09	6.96	6.94	6.56	6.55	7.17	7.15	7.23	6.91	6.91	6.57	6.31
S-3	571.84	6.55	5.99	6.03	6.27	6.85	7.52	7.78	7.41	7.53	7.10	6.90	6.91	6.46	6.47	7.29	7.13	7.27	6.91	6.85	6.40	5.98
S-4	571.51	6.14	5.61	5.61	5.96	7.81	7.91	7.03	7.33	7.00	6.51	6.32	6.46	6.08	5.88	6.56	6.59	6.71	6.45	6.72	6.16	5.39
RW-1	581.82	25.68	16.61	16.57	NM	33.05	17.38	16.57	26.50	35.65	34.39	17.82	17.05	16.71	16.95	33.22	27.04	32.51	33.12	35.85	34.45	26.78
RW-2	581.82	25.95	25.46	16.37	NM	26.05	25.45	25.82	25.61	26.29	25.90	25.94	26.07	15.15	25.45	25.69	17.50	25.31	25.43	25.50	25.57	25.61
RW-3	582.30	19.83	19.68	16.82	NM	38.22	36.06	38.47	37.34	34.30	28.45	21.10	29.14	30.56	30.58	28.61	35.13	32.19	22.65	34.11	31.95	30.25
RW-4	581.83	21.78	21.91	16.46	NM	16.88	25.85	26.60	26.27	25.45	25.47	17.97	25.40	25.48	25.77	17.26	26.33	26.35	17.46	26.16	17.55	25.94
RW-5	582.05	26.20	26.47	16.74	NM	37.06	37.83	36.50	37.41	37.70	28.55	22.27	21.82	21.01	20.51	20.58	22.95	24.00	24.90	25.49	17.75	17.48
RW-6	570.76	9.76	5.82	5.48	NM	15.43	15.08	19.48	22.90	16.40	13.14	11.29	10.24	6.08	6.06	14.77	6.40	14.30	14.71	15.35	8.29	7.48
RW-7	570.67	14.28	14.24	5.37	NM	5.84	14.30	14.10	19.55	6.70	6.51	6.90	18.35	14.55	14.88	14.43	6.29	14.99	14.92	6.75	14.75	14.90
RW-8	583.83	26.32	26.63	18.55	18.85	18.95	26.32	26.30	20.18	26.08	19.36	26.09	18.86	26.85	18.46	19.33	26.41	19.38	19.55	26.45	26.70	26.07
RW-9	583.86	27.58	27.10	18.50	21.55	18.95	19.50	19.91	20.13	19.78	27.15	27.52	27.42	28.01	27.04	19.32	19.45	27.23	27.26	19.77	27.15	27.07
RW-10	583.28	22.63	22.29	21.67	22.25	23.25	23.04	22.70	22.82	23.33	22.62	22.95	22.76	22.46	22.74	22.64	18.74	23.33	23.03	22.55	23.05	22.88
RW-11	581.22	22.71	23.36	23.32	23.42	23.09	22.78	23.44	22.85	23.70	23.61	23.68	23.65	22.90	22.76	23.07	23.53	23.36	23.49	23.55	23.22	23.59
SG	568.89	NA	NA	NA	0.73	0.65	0.06	0.30	DRY	DRY	DRY	DRY	0.44	0.52	0.62	0.54	0.35	0.62	0.30	DRY	DRY	DRY
SG	567.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

** Staff Gauge, OW-5, and OW-6 were re-surveyed in June 2011.
*** MW-4 Elevation change, re-surveyed March 14, 2019
DTW = depth to water
FEET = feet BTOC
BTOC = below top of casing
NA = Not applicable
D = Destroyed/abandoned well
NM = DTW not measured

Appendix B-1

Historical Water Level Data

		03/28/02	04/24/02	05/23/02	06/17/02	07/25/02	08/20/02	09/18/02	10/18/02	11/22/02	12/16/02	01/30/03	02/28/03	03/11/03	04/15/03	05/28/03	06/23/03	07/18/03	08/29/03	09/24/03	10/24/03	11/25/03
WELL	Original ELEV.	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW
NAME	TOC	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)
MW-1	577.68	12.48	12.07	11.87	11.90	12.45	12.28	12.44	12.40	12.80	12.66	12.77	12.63	12.49	11.99	11.91	11.68	12.18	12.40	12.39	12.61	12.21
MW-2	578.76	13.96	13.48	13.25	13.26	13.80	13.57	13.62	13.65	14.30	14.25	14.50	14.51	14.24	13.68	13.59	13.30	13.68	13.75	13.68	14.10	13.76
MW-3	571.16	6.89	6.51	6.29	6.21	6.89	6.81	6.95	6.24	6.61	6.55	7.09	6.96	6.68	6.16	6.08	5.82	6.29	6.48	6.36	6.50	6.25
MW-4	583.83	16.51	18.55	18.64	18.81	19.25	19.02	19.12	18.76	19.05	19.05	NM	NM	NM	18.50	18.38	18.12	18.51	18.60	18.58	18.81	16.37
MW-4		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	584.14	19.71	19.25	19.04	19.10	19.56	19.31	19.52	19.23	20.01	20.04	NM	20.15	19.96	19.27	19.17	18.83	19.17	19.30	19.21	19.68	19.26
MW-6	585.70	21.56	20.96	20.87	20.81	21.22	21.02	21.22	21.02	21.81	21.85	21.88	22.04	21.81	21.11	21.02	20.67	21.15	21.08	21.09	21.48	21.30
MW-7	586.40	21.60	20.90	20.73	20.94	21.55	21.35	21.50	21.45	22.01	21.89	22.00	22.09	21.85	21.11	21.27	20.93	21.28	21.47	21.53	21.73	21.23
OW-1	573.63	9.67	9.28	8.82	8.93	7.42	9.28	9.31	8.86	9.51	9.55	9.82	9.83	9.63	9.03	8.74	8.55	8.97	9.11	9.05	9.38	8.91
OW-2	584.14	16.41	15.37	16.17	16.06	16.20	16.30	16.22	15.12	16.09	16.42	NM	16.15	16.38	16.26	16.20	16.15	16.35	16.21	16.11	16.34	16.09
OW-3	576.25	10.86	10.47	10.37	10.58	10.83	10.87	11.08	11.26	11.25	11.69	11.53	11.83	11.91	11.19	11.10	11.00	10.98	11.56	11.81	11.74	11.13
OW-4	572.21	6.94	6.61	6.53	6.63	6.94	6.92	7.08	7.24	7.44	7.62	7.72	8.10	7.80	7.26	7.22	7.03	7.08	7.86	7.82	7.87	7.15
OW-5	584.16	17.70	17.40	17.15	17.30	17.41	17.39	17.57	17.79	17.84	18.00	NM	17.98	18.12	17.84	17.64	17.60	17.46	17.51	17.64	17.95	17.56
OW-5	584.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OW-6	572.12	6.22	5.72	5.57	5.88	6.40	6.48	6.73	6.89	6.75	6.73	6.85	7.07	6.92	6.35	6.56	6.47	6.41	7.05	7.21	7.12	6.57
OW-6	572.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OW-7	574.84	8.87	8.31	8.07	8.47	9.02	9.21	9.48	9.53	9.82	9.62	10.17	10.42	9.73	8.89	7.39	9.23	9.52	10.64	10.43	10.37	9.27
OW-8	571.31	6.18	5.77	5.55	5.87	6.40	6.30	6.58	6.64	6.70	6.58	6.95	7.20	6.75	6.06	6.36	6.21	6.45	7.11	6.77	6.88	6.15
OW-9	588.32	21.27	20.77	20.48	21.07	21.68	21.87	22.07	22.17	21.94	21.75	21.78	21.88	21.81	21.19	21.59	21.68	21.79	22.02	22.11	21.96	21.63
S-1	571.84	7.72	5.82	5.85	6.15	6.19	6.15	5.92	5.95	7.95	7.65	7.70	7.52	7.12	7.52	7.45	7.75	6.98	7.85	7.74	7.95	7.72
S-2	571.81	6.30	5.89	5.83	6.01	6.33	NM	6.60	6.75	6.97	7.10	NM	7.54	7.06	6.62	6.64	6.40	6.38	7.21	7.46	7.36	6.56
S-3	571.84	6.03	5.54	5.42	5.68	6.11	6.27	6.54	6.69	6.56	6.52	NM	6.83	6.50	6.15	6.35	6.10	6.00	6.35	6.92	7.04	6.15
S-4	571.51	5.64	5.07	4.72	5.23	5.71	5.98	6.26	6.42	6.94	7.00	7.58	7.82	6.48	5.56	6.35	6.17	7.06	8.94	7.35	7.61	5.92
RW-1	581.82	34.11	32.39	31.25	26.25	33.71	34.30	34.22	17.11	11.85	8.92	17.60	17.53	17.17	16.65	16.69	16.20	16.65	17.09	17.05	16.97	15.11
RW-2	581.82	26.32	25.47	26.40	25.35	25.99	26.50	17.35	16.90	16.06	14.96	17.40	17.31	17.25	17.31	16.67	16.21	16.47	16.85	16.77	16.85	16.30
RW-3	582.30	29.02	26.10	29.27	30.10	31.28	32.20	33.89	17.35	13.05	17.39	17.90	17.86	17.68	17.07	17.18	16.60	16.39	17.17	17.03	17.31	16.12
RW-4	581.83	17.45	16.55	16.75	25.85	25.97	17.04	26.35	17.01	17.41	17.41	17.50	17.54	17.51	16.77	16.56	16.27	16.68	16.72	17.75	17.11	16.78
RW-5	582.05	23.81	23.55	22.15	22.53	27.20	27.61	35.15	17.29	16.15	17.67	17.80	17.82	17.72	17.07	17.03	16.58	16.88	17.10	16.90	17.25	16.65
RW-6	570.76	7.61	14.80	14.12	14.81	11.07	14.95	14.61	6.11	6.25	6.35	6.50	6.67	6.49	5.88	5.77	5.34	5.75	5.88	5.84	6.21	5.62
RW-7	570.67	14.50	14.43	14.31	14.95	14.95	14.79	14.78	5.98	4.21	6.41	6.40	6.52	6.15	5.65	5.77	5.22	5.67	5.71	5.72	6.09	5.50
RW-8	583.83	27.03	18.95	26.76	19.05	19.18	18.99	19.12	19.05	19.52	19.65	19.60	19.78	18.67	18.85	18.81	18.43	18.87	18.82	18.81	19.21	19.00
RW-9	583.86	26.91	18.81	27.92	27.71	28.10	28.41	27.64	19.01	19.22	18.74	NM	17.77	19.53	D	D	D	D	D	D	D	D
RW-10	583.28	23.20	17.89	17.85	17.93	21.35	18.15	18.49	18.46	18.81	18.68	NM	18.88	19.68	17.91	17.92	17.65	18.14	18.15	18.18	18.46	18.10
RW-11	581.22	23.12	15.38	22.81	15.61	22.51	23.11	23.55	16.37	16.55	16.37	NM	NM	NM	15.58	15.85	15.43	15.82	16.08	15.91	16.14	15.65
SG	568.89	DRY	0.40	0.65	0.65	0.65	0.65	0.80	0.65	DRY	DRY	NM	NM	NM	0.20	0.50	0.95	0.45	0.85	0.80	0.20	0.15
SG	567.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

** Staff Gauge, OW-5, and OW-6 were re-surveyed in June 2011.
*** MW-4 Elevation change, re-surveyed March 14, 2019
DTW = depth to water
FEET = feet BTOC
BTOC = below top of casing
NA = Not applicable
D = Destroyed/abandoned well
NM = DTW not measured

Appendix B-1

Historical Water Level Data

		12/15/03	01/20/04	02/26/04	03/09/04	04/23/04	05/27/04	06/07/04	07/21/04	08/20/04	09/24/04	10/28/04	02/15/05	04/20/05	08/01/05	12/08/05	03/21/06	06/23/06	09/26/06	12/19/06	12/27/07	03/31/08
WELL	Original ELEV.	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW
NAME	TOC	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)
MW-1	577.68	12.56	12.27	12.54	12.11	11.90	11.52	11.60	11.74	11.59	11.70	12.43	11.70	11.54	11.98	12.42	12.01	11.56	11.48	12.10	12.11	10.33
MW-2	578.76	14.04	13.91	14.36	14.05	13.68	13.25	13.25	13.36	13.23	13.32	14.06	13.38	13.25	16.42	14.20	13.77	13.10	13.33	13.78	13.95	13.36
MW-3	571.16	6.48	6.55	6.90	6.50	6.13	5.88	5.80	5.84	5.78	5.93	6.52	5.95	5.83	6.32	6.71	6.44	5.83	5.87	6.30	6.51	5.80
MW-4	583.83	17.68	NM	NM	NM	1.85	1.65	16.20	18.13	17.97	18.07	18.80	NM	14.45	18.28	18.80	18.71	17.95	16.40	16.18	17.36	NM
MW-4		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	584.14	19.72	19.52	NM	19.75	19.26	18.89	18.80	18.83	18.72	18.78	19.55	19.14	18.73	18.90	19.80	19.47	18.58	18.94	19.31	19.72	18.93
MW-6	585.70	21.45	21.28	21.92	21.52	20.95	20.81	20.57	20.76	20.49	20.61	21.36	20.85	20.45	20.72	21.58	21.29	20.49	20.73	20.95	21.49	20.66
MW-7	586.40	21.53	21.35	21.97	21.39	20.98	20.76	20.72	20.92	20.75	20.72	21.57	20.87	20.45	21.10	21.45	21.22	20.75	20.94	20.96	21.33	20.54
OW-1	573.63	9.32	9.21	9.60	9.25	8.91	8.65	8.49	8.65	8.57	8.65	9.33	5.80	8.51	8.76	9.33	9.17	8.37	8.58	8.93	NM	8.34
OW-2	584.14	16.21	16.15	15.84	16.05	15.11	15.65	15.91	15.47	15.65	15.60	15.62	3.31	15.26	15.26	15.15	15.30	15.13	15.11	15.15	NM	15.22
OW-3	576.25	11.21	10.94	11.18	10.71	10.36	10.47	10.44	10.62	10.47	10.37	10.60	10.23	9.48	10.61	10.12	9.58	10.20	10.13	9.16	NM	8.82
OW-4	572.21	7.30	7.07	7.31	6.91	6.62	6.60	6.62	6.78	6.63	6.59	6.91	6.23	6.04	6.81	6.72	6.47	6.51	6.65	6.24	NM	6.25
OW-5	584.16	17.39	NM	NM	17.39	16.88	16.52	16.65	16.70	16.61	16.45	16.78	16.52	16.05	16.67	17.31	16.39	16.72	16.80	16.08	NM	11.70
OW-5	584.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OW-6	572.12	6.61	6.37	6.64	6.05	5.62	5.73	5.80	6.17	5.97	5.82	6.36	5.05	4.85	6.27	5.80	5.47	5.95	5.91	4.80	NM	4.32
OW-6	572.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OW-7	574.84	9.71	9.19	9.65	8.67	8.25	8.48	8.58	9.15	8.67	8.57	9.38	7.62	NM	9.00	8.51	8.17	8.65	5.63	7.38	NM	6.88
OW-8	571.31	6.51	6.19	6.62	5.85	5.75	5.87	5.89	6.22	5.90	5.82	6.53	5.65	5.37	6.22	5.85	5.80	5.98	5.97	5.40	NM	5.11
OW-9	588.32	21.31	21.26	21.60	20.96	20.55	20.76	20.90	21.33	21.17	20.83	21.43	20.58	19.96	21.62	20.77	20.58	21.49	21.29	20.06	NM	19.75
S-1	571.84	7.45	7.27	7.76	8.45	7.85	7.60	7.75	7.55	7.60	7.53	7.87	7.23	4.95	8.12	5.45	7.71	5.67	5.55	4.70	NM	4.11
S-2	571.81	6.67	6.43	6.69	6.15	5.85	5.92	5.92	6.14	5.96	5.96	6.15	5.23	4.90	6.08	5.65	5.34	5.70	5.66	4.65	NM	4.30
S-3	571.84	6.34	6.20	6.45	5.75	5.54	5.58	5.58	6.00	5.72	5.72	6.15	4.84	4.36	6.02	5.54	5.20	5.61	5.63	4.50	NM	4.15
S-4	571.51	7.02	6.32	7.04	5.79	5.67	5.86	5.94	6.64	5.72	5.72	7.02	5.38	4.03	5.67	5.92	5.66	5.37	5.68	4.95	NM	NM
RW-1	581.82	17.18	17.05	16.51	15.45	14.75	14.42	16.49	16.39	16.14	16.33	17.17	13.96	16.39	D	D	D	D	D	D	D	D
RW-2	581.82	16.90	16.82	17.26	14.90	16.30	15.95	16.31	16.20	16.14	16.27	16.99	15.54	16.31	D	D	D	D	D	D	D	D
RW-3	582.30	17.50	17.21	17.80	15.65	15.90	15.55	16.69	16.60	16.50	16.64	17.34	5.92	16.72	D	D	D	D	D	D	D	D
RW-4	581.83	17.21	17.01	17.61	17.23	16.80	16.48	16.30	16.29	16.19	16.27	17.07	16.64	16.25	16.35	17.32	16.95	16.08	16.42	16.80	17.24	16.45
RW-5	582.05	17.50	17.21	17.72	17.38	16.95	16.63	16.58	16.60	16.34	16.59	17.39	13.50	16.52	16.65	17.53	17.27	16.35	16.55	17.10	17.49	10.70
RW-6	570.76	6.18	5.90	5.80	6.18	5.82	5.50	5.38	5.45	5.27	5.32	6.11	3.62	5.25	D	D	D	D	D	D	D	D
RW-7	570.67	6.11	5.85	6.52	5.98	5.40	5.28	5.25	5.27	5.17	5.22	6.01	1.60	5.13	D	D	D	D	D	D	D	D
RW-8	583.83	20.21	19.03	19.68	19.25	18.80	18.65	18.31	18.45	18.25	18.35	19.11	18.60	18.20	D	D	D	D	D	D	D	D
RW-9	583.86	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-10	583.28	18.30	18.11	18.94	18.15	17.78	17.65	17.50	17.69	17.48	17.45	18.27	17.61	17.20	D	D	D	D	D	D	D	D
RW-11	581.22	16.02	15.80	16.45	15.77	15.48	15.15	15.09	15.44	15.28	15.20	16.11	15.37	14.90	D	D	D	D	D	D	D	D
SG	568.89	0.10	NM	NM	NM	0.40	0.60	1.00	0.90	0.90	0.90	0.10	0.40	0.90	1.05	DRY	0.70	1.80	1.00	1.80	NM	2.80
SG	567.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

** Staff Gauge, OW-5, and OW-6 were re-surveyed in June 2011.
*** MW-4 Elevation change, re-surveyed March 14, 2019
DTW = depth to water
FEET = feet BTOC
BTOC = below top of casing
NA = Not applicable
D = Destroyed/abandoned well
NM = DTW not measured



Appendix B-1

Historical Water Level Data

		06/27/08	09/26/08	11/05/08	03/04/09	06/19/09	09/09/09	12/24/09	01/27/10	04/28/10	07/08/10	10/18/10	01/03/11	06/17/11	09/30/11	12/23/11	01/31/12	06/11/12	08/06/12	11/28/12	03/13/13	05/15/13
WELL	Original ELEV.	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW
NAME	TOC	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)
MW-1	577.68	11.91	12.23	12.48	12.04	11.75	11.94	12.44	11.38	11.91	11.86	11.98	12.03	11.21	11.24	11.42	11.29	11.92	13.31	12.36	12.14	11.87
MW-2	578.76	13.59	13.91	14.29	13.72	13.35	13.58	14.21	12.99	13.56	13.55	16.69	13.88	12.85	12.68	13.38	12.98	13.69	13.83	14.36	14.05	13.65
MW-3	571.16	6.03	6.52	6.74	6.29	5.82	6.39	6.70	5.60	6.06	6.18	5.25	6.41	5.54	5.36	5.88	5.68	6.34	6.69	6.86	6.42	6.16
MW-4	583.83	18.31	18.62	19.01	18.44	18.10	18.32	18.96	15.36	18.41	18.31	19.45	16.42	17.61	NM	NM	NM	18.41	18.77	19.03	11.57	18.45
MW-4		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	584.14	19.01	19.32	19.79	19.27	18.80	19.01	19.81	18.71	19.06	18.98	19.20	19.54	18.23	18.17	18.91	18.70	19.11	19.26	19.86	19.54	19.15
MW-6	585.70	20.84	21.29	21.71	21.06	20.65	20.63	21.59	20.41	20.79	20.79	20.99	21.37	20.06	19.98	20.68	20.51	21.06	21.10	21.73	21.42	21.05
MW-7	586.40	21.08	21.44	21.83	20.93	20.80	21.01	21.18	20.24	20.88	20.94	21.22	21.28	20.11	20.42	20.55	20.31	21.12	21.46	21.87	21.34	21.09
OW-1	573.63	8.86	9.21	9.52	8.89	8.50	8.82	9.31	8.29	8.61	8.81	9.02	9.03	7.88	7.92	8.48	8.16	9.11	9.18	9.56	9.19	8.57
OW-2	584.14	15.29	15.41	15.47	15.36	15.10	15.16	15.15	15.09	14.89	14.82	15.07	15.21	14.52	14.65	14.83	14.51	14.64	14.92	15.25	15.85	15.19
OW-3	576.25	9.98	10.40	10.51	9.49	9.75	9.79	9.38	8.98	9.14	9.60	9.91	9.57	8.51	9.99	8.78	8.41	9.68	10.35	10.70	9.35	9.42
OW-4	572.21	6.82	7.21	7.38	6.57	6.52	6.66	6.69	6.23	6.57	NM	6.98	6.90	5.96	6.39	6.39	6.24	6.84	7.36	8.08	6.99	6.76
OW-5	584.16	16.35	16.80	16.98	16.52	15.98	16.09	16.12	16.04	15.96	15.74	16.64	16.79	NA	NA	NA	NA	NA	NA	NA	NA	NA
OW-5	584.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.19	15.70	15.83	15.29	15.66	16.31	17.33	17.06	16.56
OW-6	572.12	5.59	6.16	6.35	4.99	5.27	5.46	5.11	4.74	4.96	5.37	5.52	5.54	NA	NA	NA	NA	NA	NA	NA	NA	NA
OW-6	572.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.33	5.63	4.71	4.37	5.42	6.26	6.47	5.15	5.14
OW-7	574.84	8.29	8.99	9.16	7.66	7.95	8.24	7.76	7.28	7.68	8.11	8.21	8.46	6.98	8.64	7.42	7.04	8.07	9.60	9.77	7.79	7.74
OW-8	571.31	5.81	6.41	6.61	5.41	5.61	5.71	5.86	5.28	5.49	5.71	5.80	5.79	5.09	5.81	5.41	5.32	5.94	6.77	7.00	5.60	5.56
OW-9	588.32	20.96	21.74	21.81	20.22	20.88	20.76	21.61	20.10	20.31	20.66	20.88	20.93	19.78	21.36	20.11	19.76	20.98	21.78	21.73	20.36	20.53
S-1	571.84	7.61	9.02	5.95	5.14	5.75	7.94	4.98	4.48	4.64	5.35	5.62	4.98	4.04	5.46	4.77	3.74	7.06	7.47	7.61	5.86	5.47
S-2	571.81	5.39	5.85	5.99	4.82	5.02	5.21	4.75	4.49	4.61	5.05	5.31	5.09	3.98	5.41	4.86	3.87	5.04	5.78	6.20	4.75	4.83
S-3	571.84	5.29	5.94	5.99	4.70	4.82	5.21	4.72	4.42	4.59	5.07	5.21	5.16	3.93	5.33	5.05	3.94	5.00	5.90	6.15	4.75	4.86
S-4	571.51	5.46	6.06	6.25	4.95	5.40	5.71	5.06	3.92	5.15	5.65	5.91	6.14	4.80	6.90	5.85	5.83	4.77	8.70	8.78	5.55	6.06
RW-1	581.82	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-2	581.82	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-3	582.30	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-4	581.83	16.45	16.85	17.18	16.77	16.28	16.49	17.51	NM	16.57	16.45	16.66	17.05	15.76	15.65	16.37	16.20	16.60	16.77	17.37	17.00	16.70
RW-5	582.05	16.81	17.11	17.52	17.02	16.61	16.80	NM	NM	16.88	16.75	16.91	17.26	16.03	NM	12.79	16.45	16.88	16.96	17.70	17.40	17.06
RW-6	570.76	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-7	570.67	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-8	583.83	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-9	583.86	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-10	583.28	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-11	581.22	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
SG	568.89	3.10	2.60	2.01	3.43	4.25	4.10	3.10	4.20	3.90	4.30	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA
SG	567.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.45	2.05	3.20	3.10	3.40	3.01	4.04	3.60	3.07

** Staff Gauge, OW-5, and OW-6 were re-surveyed in June 2011.
*** MW-4 Elevation change, re-surveyed March 14, 2019

DTW = depth to water
FEET = feet BTOC
BTOC = below top of casing
NA = Not applicable
D = Destroyed/abandoned well
NM = DTW not measured



Appendix B-1

Historical Water Level Data

		09/27/13	12/09/13	03/28/14	06/27/14	09/29/14	11/05/14	03/23/15	06/19/15	09/24/15	12/28/15	03/21/16	06/20/16	09/26/16	12/19/16	03/20/17	06/26/17	09/25/17	11/29/17	03/26/18	06/29/18	09/17/18	12/10/18
WELL	Original ELEV.	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW	DTW
NAME	TOC	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)
MW-1	577.68	11.83	12.01	12.05	11.99	11.95	11.83	12.08	11.36	11.51	12.34	11.57	11.31	11.61	12.00	11.53	10.81	11.02	11.15	11.32	10.83	11.00	11.07
MW-2	578.76	13.60	13.70	13.91	13.15	13.56	13.51	13.97	13.02	13.28	14.21	12.27	12.90	12.91	13.72	13.35	12.40	12.63	13.12	13.21	12.40	12.80	13.04
MW-3	571.16	5.76	6.27	6.50	6.27	6.17	6.05	6.55	5.65	5.82	NM	3.98	5.32	5.79	NM	5.86	5.15	5.27	5.79	5.78	5.17	5.55	5.65
MW-4	583.83	18.40	18.45	18.75	18.13	18.48	18.29	12.50	15.38	18.10	5.17	18.14	17.85	17.92	8.60	6.42	17.31	17.93	17.97	18.08	17.32	17.73	16.25
MW-4		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	584.14	19.50	19.30	19.51	18.75	19.03	18.97	19.69	18.75	18.78	19.85	18.80	18.35	18.41	18.74	18.81	17.79	18.40	18.75	18.72	17.90	18.31	18.25
MW-6	585.70	20.97	21.05	21.37	20.57	20.96	20.90	21.56	20.52	20.67	21.87	20.57	20.17	20.44	21.10	20.72	19.70	20.36	20.52	20.47	19.68	19.21	20.49
MW-7	586.40	21.15	20.90	21.22	20.75	21.23	21.15	21.40	20.54	20.91	21.70	20.63	20.44	20.96	21.31	20.77	19.96	20.50	20.57	20.57	19.99	20.53	20.46
OW-1	573.63	8.90	8.88	9.06	8.77	9.09	8.91	8.99	8.37	8.66	9.17	8.47	8.27	8.40	8.77	8.09	7.31	8.08	8.04	7.76	7.23	7.15	8.03
OW-2	584.14	9.21	15.32	14.85	14.70	14.79	15.01	15.39	15.25	15.05	15.37	15.07	14.80	15.74	15.21	14.90	14.25	14.35	15.46	14.28	13.99	14.25	14.31
OW-3	576.25	9.75	9.55	9.11	9.52	9.95	10.21	9.30	8.88	9.90	9.88	8.86	8.10	10.17	10.12	8.95	8.48	9.75	9.07	8.50	8.40	9.55	7.90
OW-4	572.21	6.90	6.55	6.69	6.60	6.97	7.11	6.86	6.27	6.74	6.95	6.37	6.30	6.82	7.11	6.44	5.74	6.50	6.35	6.10	8.70	6.32	6.02
OW-5	584.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OW-5	584.03	16.80	16.49	16.35	15.89	16.29	16.76	17.35	16.10	16.43	17.25	16.18	16.10	16.14	17.47	16.58	15.08	15.30	15.02	14.76	15.07	15.56	16.01
OW-6	572.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OW-6	572.17	5.57	4.97	5.02	5.02	5.77	6.07	5.29	4.80	5.56	5.83	4.62	4.44	6.10	5.92	5.97	4.43	5.68	5.01	4.47	4.41	5.50	4.88
OW-7	574.84	8.38	7.70	7.50	7.11	8.61	8.86	7.81	7.17	8.26	8.43	7.02	6.99	8.73	8.44	7.40	6.84	8.23	7.41	6.86	6.80	6.01	7.27
OW-8	571.31	6.04	5.40	5.50	5.44	6.31	6.15	5.50	5.30	5.96	6.18	5.09	5.00	5.89	6.03	5.17	4.66	5.56	5.07	4.91	4.82	5.34	4.99
OW-9	588.32	20.93	20.20	20.15	20.22	21.29	21.50	20.70	20.00	21.06	21.37	19.87	19.71	21.38	21.11	20.12	19.77	20.99	20.20	19.69	19.74	20.08	20.02
S-1	571.84	6.10	5.11	5.12	4.89	6.54	7.44	4.89	4.56	5.44	4.95	6.14	6.20	4.70	4.48	3.43	2.91	3.65	3.07	3.05	3.03	6.53	2.94
S-2	571.81	5.18	4.90	4.50	4.55	5.38	5.81	4.73	4.52	5.30	5.31	4.22	4.15	5.71	5.57	4.46	3.92	5.32	4.54	3.98	3.95	5.12	4.39
S-3	571.84	5.20	4.81	4.50	4.43	5.44	5.76	4.65	4.47	5.25	5.37	4.20	4.13	5.82	5.67	4.57	4.06	4.65	4.62	4.03	4.01	5.17	4.47
S-4	571.51	6.45	5.95	5.32	4.60	7.25	6.57	4.82	5.34	5.68	6.60	3.80	3.92	5.52	5.13	4.06	3.52	4.92	4.10	3.51	3.50	4.85	3.87
RW-1	581.82	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-2	581.82	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-3	582.30	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-4	581.83	16.55	16.73	17.01	16.37	16.57	16.55	17.23	16.50	16.30	17.35	16.34	15.99	15.93	16.79	16.47	15.30	15.92	16.30	16.30	15.60	15.85	16.10
RW-5	582.05	16.95	17.00	17.25	16.61	16.90	16.90	16.72	16.60	16.57	9.80	16.65	16.25	16.46	10.61	14.95	15.90	15.27	15.40	15.80	15.43	16.11	14.00
RW-6	570.76	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-7	570.67	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-8	583.83	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-9	583.86	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-10	583.28	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
RW-11	581.22	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
SG	568.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SG	567.75	3.19	3.40	3.96	2.79	3.13	3.27	3.92	2.97	2.74	4.37	2.80	2.94	2.38	3.32	2.97	1.68	2.43	2.72	2.83	2.01	2.21	2.65

** Staff Gauge, OW-5, and OW-6 were re-surveyed in June 2011.

*** MW-4 Elevation change, re-surveyed March 14, 2019

DTW = depth to water

FEET = feet BTOC

BTOC = below top of casing

NA = Not applicable

D = Destroyed/abandoned well

NM = DTW not measured



Appendix B-1

Historical Water Level Data

		03/25/19	06/24/19	09/30/19	12/16/19
	Original				
WELL	ELEV.	DTW	DTW	DTW	DTW
NAME	TOC	(FEET)	(FEET)	(FEET)	(FEET)
MW-1	577.68	11.01	9.95	10.53	10.64
MW-2	578.76	13.10	11.72	12.51	12.71
MW-3	571.16	5.82	4.51	5.12	4.93
MW-4	583.83	NA	NA	NA	NA
MW-4		18.20	17.00	17.97	17.73
MW-5	584.14	18.68	17.25	18.02	18.40
MW-6	585.70	20.58	19.15	19.85	20.28
MW-7	586.40	20.47	19.31	20.14	20.20
OW-1	573.63	7.97	7.19	7.93	8.03
OW-2	584.14	14.27	14.12	14.40	14.50
OW-3	576.25	8.60	8.09	8.67	8.10
OW-4	572.21	6.09	5.12	5.82	5.70
OW-5	584.16	NA	NA	NA	NA
OW-5	584.03	15.74	14.74	15.37	15.51
OW-6	572.12	NA	NA	NA	NA
OW-6	572.17	4.50	3.65	4.52	4.04
OW-7	574.84	6.87	6.35	7.09	6.49
OW-8	571.31	4.88	4.18	4.89	4.67
OW-9	588.32	19.61	19.35	19.98	19.40
S-1	571.84	3.38	8.42	7.29	4.37
S-2	571.81	4.06	3.45	4.10	3.78
S-3	571.84	4.08	3.50	4.17	3.63
S-4	571.51	3.44	3.11	4.41	3.30
RW-1	581.82	D	D	D	D
RW-2	581.82	D	D	D	D
RW-3	582.30	D	D	D	D
RW-4	581.83	16.15	14.72	15.48	15.85
RW-5	582.05	16.45	15.08	14.10	15.95
RW-6	570.76	D	D	D	D
RW-7	570.67	D	D	D	D
RW-8	583.83	D	D	D	D
RW-9	583.86	D	D	D	D
RW-10	583.28	D	D	D	D
RW-11	581.22	D	D	D	D
SG	568.89	NA	NA	NA	NA
SG	567.75	2.50	0.70	1.41	1.60

** Staff Gauge, OW-5, and OW-6 were re-surveyed in June 2011.
*** MW-4 Elevation change, re-surveyed March 14, 2019
DTW = depth to water
FEET = feet BTOC
BTOC = below top of casing
NA = Not applicable
D = Destroyed/abandoned well
NM = DTW not measured



Appendix B-2 – Historically Detected Compounds (Monitoring Wells, 1997-2019)



Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-1 162140	MW-1 G5092	MW-1 H0915	MW-1 H7392	MW-1 J8338	MW-1 M0188	MW-1 N4875	MW-1 Q3850	MW-1 R7149	MW-1 S7281	MW-1 T6808	MW-1 V4308	MW-1 Z7440	MW-1 A7549	MW-1 B4250	MW-1 E1139	MW-1 0508015-004A
CAS NO.	COMPOUND		UNITS:																	
	VOLATILES																			
67-64-1	Acetone	50 (G)	(µg/L)	ND	ND	ND	ND	4 J	5 J, B	ND	ND	ND	2 J	ND	ND	2 J, B	ND	ND	2 J, B	4 B, J
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND		19	ND	7 J	ND	ND	ND	ND	ND	8 J	ND	ND	ND
75-09-2	Methylene chloride	NS	(µg/L)	ND	ND	ND	ND	2 J	1 J, B	ND	ND	1 J	ND	1 J, B	1 J	0.8 J, B	ND	ND	0.7 J, B	0.6 B, J
108-88-3	Toluene	5	(µg/L)	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1330-20-7	Xylene (total)	5	(µg/L)	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total VOCs			4	ND	ND	ND	6	25	ND	7	1	2	1	1	2.8	8	ND	2.7	4.6
	SEMIVOLATILES																			
117-81-7	bis(2-ethylhexyl)phthalate	5	(µg/L)	2 J, B	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND
56-55-3	Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50-32-8	Benzo[a]pyrene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-68-7	Butyl benzyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	(µg/L)	2 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total SVOCs			4	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND

Notes:

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NS = No Standard

(G) = Guidance Value

ND = Concentration was not detected at or above the reporting limit.

J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

B = Compound was found in the blank and sample.

E = Concentration exceeds method limit.

F1 = MS or MSD Recovery is outside acceptance limits



Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID:	MW-1 162140	MW-1 G5092	MW-1 H0915	MW-1 H7392	MW-1 J8338	MW-1 M0188	MW-1 N4875	MW-1 Q3850	MW-1 R7149	MW-1 S7281	MW-1 T6808	MW-1 V4308	MW-1 Z7440	MW-1 A7549	MW-1 B4250	MW-1 E1139	MW-1 0508015-004A
			Source: SDG: Matrix: Sampled:	Columbia MW1 Water 08/12/97	OBG 5116 Water 11/20/97	OBG 6847 Water 02/19/98	OBG 7810 Water 05/27/98	OBG 9571 Water 10/21/98	OBG 1489 Water 04/19/99	OBG 3856 Water 11/09/99	OBG 5490 Water 04/27/00	OBG 7645 Water 12/13/00	OBG 9259 Water 06/19/01	OBG 724 Water 12/11/01	OB 2494 Water 06/17/02	OB 4203 Water 12/17/02	OB 5716 Water 06/25/03	OB 6968 Water 12/15/03	OB 6968 Water 06/08/04	OB 200508 Water 08/02/05
CAS NO.	COMPOUND		UNITS:																	
	PESTICIDES																			
309-00-2	Aldrin	ND	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0081 J, P	ND	ND	ND	ND	
319-84-6	alpha-BHC	0.01	(µg/L)	ND	0.00055 J, P	ND	0.0012 J	ND	0.01 B, J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
319-85-7	beta-BHC	0.04	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015 J, P	ND	
50-29-3	4,4'-DDT	0.2	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.0033 J, P	0.0009 J, P	ND	ND	ND	ND	ND	ND	ND	
60-57-1	Dieldrin	0.004	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011 J, P	ND	ND	ND	ND	ND	
959-98-8	Endosulfan I	NS	(µg/L)	ND	ND	ND	0.00072 J, P	ND	0.003 J, P	0.0034 B, J, P	ND	ND	ND	ND	ND	ND	0.0038 J, P	ND	ND	
1031-07-8	Endosulfan sulfate	NS	(µg/L)	ND	ND	ND	ND	0.0022 B, J, P	0.0013 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
72-20-8	Endrin	ND	(µg/L)	ND	ND	ND	ND	ND	ND	0.0032 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7421-93-4	Endrin aldehyde	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0069 B, J, P	ND	ND	0.005 B, J	ND	ND	
53494-70-5	gamma-BHC (Lindane)	0.05	(µg/L)	ND	ND	ND	ND	ND	ND	0.032 J	0.00053 J, P	ND	ND	ND	ND	ND	ND	ND	ND	
5103-74-2	gamma-Chlordane	0.05	(µg/L)	ND	ND	ND	0.01 J, P	0.0024 J, P	0.008 B, J, P	ND	0.003 J	0.0015 J, P	ND	ND	ND	ND	0.015 J, P	ND	0.0045 B, J, P	
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	ND	ND	ND	0.0038 J	0.0019 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	
72-43-5	Methoxychlor	35	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.0042 B, J, P	ND	ND	ND	ND	ND	ND	ND	
	Total Pesticides			ND	0.00055	ND	0.01192	0.0046	0.0261	0.0405	0.00683	0.0066	ND	0.008	0.0081	ND	0.0275	0.015	0.0045	NA
	PCBs																			
	None detected	All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total PCBs			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	INORGANICS																			
7429-90-5	Aluminum	NS	(µg/L)	273	1580	3080	1940	2730	830	4760	7170	4880 E	4760	7810	3660	11500	4090	3680	3230	
7440-36-0	Antimony	3	(µg/L)	ND	ND	ND	ND	1.7 B	3.2 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7440-38-2	Arsenic	25	(µg/L)	35.3	23.9	25	23.8	23.9	24.5	29.9	29.4	29.7	29.6	40.6	28.7	36.8	35.6	28.7	31.3	
7440-39-3	Barium	1000	(µg/L)	733	353	447	340	353	353	472	516	624	537	821	419	1170	731	650	603	
7440-41-7	Beryllium	3 (G)	(µg/L)	0.46 B	0.1 B	0.17 B	ND	0.14 B	0.38 B	0.24 B	0.35 B	0.53 B	0.2 B	0.41 B	0.16 B	0.63 B	0.1 B	0.1 B	ND	
7440-43-9	Cadmium	5	(µg/L)	1.8 B	0.48 B	ND	ND	ND	0.62 B	ND	ND	ND	ND	ND	ND	ND	ND	0.1	ND	
7440-70-2	Calcium	NS	(µg/L)	188,000	203,000	213,000	206,000	214,000	222,000	243,000	247,000	270,000	232,000	256,000	273,000	279,000	217,000	230,000	207,000	
7440-47-8	Chromium	50	(µg/L)	1.7 B	6.5 B	7.2 B	5 B	11.5	9 B	12.6 E	16.9	13.7	60.7	19	9.2 B, E	21	9.3 B	8.5 B	7.8 B	
7440-48-4	Cobalt	NS	(µg/L)	ND	ND	ND	ND	ND	2.8 B	3.5 B	3.4 B	3.4 B	2.8 B	5.9 B	ND	5.4 B	ND	ND	ND	
7440-50-8	Copper	200	(µg/L)	ND	5.3 B	4.6 B	5.2 B	7.2 B	3.8 B	11.3 B	13.9 B	11.7 B	10.3 B	17 B	6.9 B	23 B	7.4 B	6.8 B	4.4 B	
7439-89-6	Iron	300	(µg/L)	7,410	10,300	11,800	11,600	13,100	9,120	16,600	19,900	14,500	16,500	22,700	14,000	30,600	14,700	14,700	12,000	
7439-92-1	Lead	25	(µg/L)	ND	1.1 B	1.3 B	ND	4.5	3.4	5	5.6	8.2	4.8	8.5	5.8 N	10.6	2.7 B	2.6 B	2.6 B	
7439-95-4	Magnesium	35000 (G)	(µg/L)	54,600	47,400	52,600	49,200	53,500	52,700	64,300	62,900	56,100	55,900	66,000	65,900	71,700	57,000	56,300	52,400	
7439-96-5	Manganese	300	(µg/L)	58.2	136	188	157	201	155	297	309	344	208	387	406	563	210	191	165	
7440-02-0	Nickel	100	(µg/L)	ND	4.9 B	4.9 B	4.4 B	6.9 B	2.8 B	11.1 B, E	13.7 B	10.4 B	30.7 B	19 B	2.2 B	19 B	5.5 B	6.5 B	6 B	
7440-09-7	Potassium	NS	(µg/L)	2280	1320 B	1790 B	1790 B	1390 B	1780 B	2680 B	3880 B	3320 B, E	3280 B	3820 B	3920 B	5210	3080 B	2990 B	2510 B	
7782-49-2	Selenium	10	(µg/L)	ND	ND	ND	ND	2.3 B	ND	3.2 B	ND	ND	ND	ND	ND	ND	ND	2.7 B	ND	
7440-22-4	Silver	50	(µg/L)	1.3 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7440-23-5	Sodium	20000	(µg/L)	35,500	33,100	38,800	34,400	33,400	39,100	43,600 E	43,600	40,900	40,500	42,100	40,800 E	42,100	40,500	44,000	41,100	
7440-28-0	Thallium	0.5 (G)	(µg/L)	16	4.4 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7440-62-2	Vanadium	NS	(µg/L)	ND	3.5 B	5.9 B	4.1 B	5.5 B	2.4 B	9.2 B, E	13.2 B	8.9 B	9.1 B	15.9 B	8.4 B	23.1 B	8 B	6.2 B	5.9 B	
7440-66-6	Zinc	2000 (G)	(µg/L)	57	29.5	19.3 B	25.3	55.7	13.6 B	46.4	49.4	34.6	26.6	46.2	38.8	66.4	47.5	18 B	21.2	
57-12-5	Cyanide	200	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4 B	ND	ND	
	Total Inorganics			288,968	297,269	321,773	305,495	318,793	326,102	379,841	381,421	390,789	353,860	399,811	402,205	442,049	337,432	352,589	319,087	NA

Notes:

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NS = No Standard

(G) = Guidance Value

ND = Concentration was not detected at or above the reporting limit.

J = Result is less than the Reporting Limit but greater than or equal to the Method

Detection Limit and the concentration is an approximate value.

B = Compound was found in the blank and sample.

E = Concentration exceeds method limit.

F1 = MS or MSD Recovery is outside acceptance limits



Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-1 0603100-003A	MW-1 A7E98502	MW-1 A8E15002	MW-1 RSI0359-01	MW-1 RTF0798-01	MW-1 480-2185-1	MW-1 480-14453-1	MW-1 480-23574-7	MW-1 480-38363-1	MW-1 480-56775-1	MW-1 480-70616-6	MW-1 480-83528-6	MW-1 480-101674-2	MW-1 (MS/MSD) 480-101969-1	MW-1 Not Sampled	MW-1 Not Sampled	MW-1 480-141984-1	MW-1 Not Sampled
CAS NO.	COMPOUND VOLATILES		UNITS:																		
67-64-1	Acetone	50 (G)	(µg/L)	2 B, J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			8.5 J	
75-09-2	Carbon disulfide	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			0.21 J B	
108-88-3	Methylene chloride	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
1330-20-7	Toluene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
	Xylene (total)	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
	Total VOCs			2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	8.71	NA
	SEMIVOLATILES																				
117-81-7	bis(2-ethylhexyl)phthalate	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND F1			ND	
56-55-3	Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.80 J B	ND	ND	ND	ND	ND			ND	
50-32-8	Benzo[a]pyrene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.45 J	ND	ND	ND	ND	ND			ND	
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.79 J B	ND	ND	ND	ND	ND			ND	
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.62 J	ND	ND	ND	ND	ND			ND	
207-08-9	Benzo[k]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.84 J	ND	ND	ND	ND	ND			ND	
85-68-7	Butyl benzyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J B	ND	ND	ND	ND	ND			ND	
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.32 J	ND	ND	ND	ND	ND			ND	
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.32 J	ND	ND	ND	ND	ND			ND	
84-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	0.4 B, J	ND	0.49 J	ND	0.39 J	1.7 J, B	ND	0.77 J B	ND	ND	ND	ND	ND			ND	
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.85 J B	ND	ND	ND	ND	ND F1			ND	
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.50 J	ND	ND	ND	ND	ND			ND	
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.44 J	ND	ND	ND	ND	ND			ND	
	Total SVOCs			ND	0.4	ND	0.49	ND	0.39	1.7	ND	7.48	ND	ND	ND	ND	ND	NA	NA	ND	NA

Notes:
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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-1 0603100-003A	MW-1 A7E98502	MW-1 A8E15002	MW-1 RSI0359-01	MW-1 RTF0798-01	MW-1 480-2185-1	MW-1 480-14453-1	MW-1 480-23574-7	MW-1 480-38363-1	MW-1 480-56775-1	MW-1 480-70616-6	MW-1 480-83528-6	MW-1 480-101674-2	MW-1 (MS/MSD) 480-101969-1	MW-1 Not Sampled	MW-1 Not Sampled	MW-1 480-141984-1	MW-1 Not Sampled
				LSL-BL 6030950 Water 03/22/06	TA A07-E985 Water 12/26/07	TA A8-E150 Water 11/06/08	TA RSI0296 Water 09/10/09	TA RTF0798 Water 06/10/10	TA 480-2185 Water 03/03/11	TA 480-14453 Water 12/23/11	TA 480-23574 Water 08/07/12	TA 480-38363 Water 05/15/13	TA 480-56775 Water 03/27/14	TA 480-70616 Water 11/03/14	TA 480-83528 Water 07/08/15	TA 480-101674 Water 06/15/16	TA 480-101969 Water 06/20/16	Water 03/22/17	Water 10/05/17	TA 480-141984 Water 09/18/18	Water 06/26/19
CAS NO.	COMPOUND PESTICIDES		UNITS:																		
309-00-2	Aldrin	ND	(µg/L)																		
318-84-8	alpha-BHC	0.01	(µg/L)																		
319-85-7	beta-BHC	0.04	(µg/L)																		
50-29-3	4,4'-DDT	0.2	(µg/L)																		
60-57-1	Dieldrin	0.004	(µg/L)																		
959-98-8	Endosulfan I	NS	(µg/L)																		
1031-07-8	Endosulfan sulfate	NS	(µg/L)																		
72-20-8	Endrin	ND	(µg/L)																		
7421-93-4	Endrin aldehyde	5	(µg/L)																		
53494-70-5	Endrin ketone	5	(µg/L)																		
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)																		
5103-74-2	gamma-Chlordane	0.05	(µg/L)																		
1024-57-3	Heptachlor epoxide	0.03	(µg/L)																		
72-43-5	Methoxychlor	35	(µg/L)																		
	Total Pesticides			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PCBs																				
	None detected	All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
	Total PCBs			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	NA
	INORGANICS																				
7429-90-5	Aluminum	NS	(µg/L)																		
7440-38-0	Antimony	3	(µg/L)																		
7440-38-2	Arsenic	25	(µg/L)																		
7440-39-3	Barium	1000	(µg/L)																		
7440-41-7	Beryllium	3 (G)	(µg/L)																		
7440-43-9	Cadmium	5	(µg/L)																		
7440-70-2	Calcium	NS	(µg/L)																		
7440-47-8	Chromium	50	(µg/L)																		
7440-48-4	Cobalt	NS	(µg/L)																		
7440-50-8	Copper	200	(µg/L)																		
7439-89-6	Iron	300	(µg/L)																		
7439-92-1	Lead	25	(µg/L)																		
7439-95-4	Magnesium	35000 (G)	(µg/L)																		
7439-96-5	Manganese	300	(µg/L)																		
7440-02-0	Nickel	100	(µg/L)																		
7440-09-7	Potassium	NS	(µg/L)																		
7782-49-2	Selenium	10	(µg/L)																		
7440-22-4	Silver	50	(µg/L)																		
7440-23-5	Sodium	20000	(µg/L)																		
7440-28-0	Thallium	0.5 (G)	(µg/L)																		
7440-62-2	Vanadium	NS	(µg/L)																		
7440-66-6	Zinc	2000 (G)	(µg/L)																		
57-12-5	Cyanide	200	(µg/L)																		
	Total Inorganics			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-2 162139	MW-2 G5114	MW-2 H0916	MW-2 H7394	MW-2 J8340	MW-2 M0190	MW-2 N4874	MW-2 Q3851	MW-2 R7150	MW-2 S7278	MW-2 T6914	MW-2 V4313	MW-2 Z7444	MW-2 A7550	MW-2 B4506	MW-2 E1069
CAS NO.	COMPOUND		UNITS:	Columbia MW1 Water 08/12/97	OBG 5116 Water 11/20/97	OBG 6847 Water 02/19/98	OBG 7810 Water 05/28/98	OBG 9571 Water 10/21/98	OBG 1489 Water 04/20/99	OBG 3856 Water 11/08/99	OBG 5490 Water 04/27/00	OBG 7645 Water 12/13/00	OBG 9259 Water 06/19/01	OBG 739 Water 12/12/01	OB 2494 Water 06/18/02	OB 4203 Water 12/17/02	OB 5716 Water 06/25/03	OB 6968 Water 12/18/03	OB 6968 Water 06/07/04
VOLATILES																			
67-64-1	Acetone	50 (G)	(µg/L)	ND	ND	ND	ND	4 J	ND	ND	3 J	ND	4 J	ND	ND	2 J, B	ND	ND	3 J, B
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	2 J	ND	4 J	ND	ND	ND	ND	ND	5 J	ND	ND
67-66-3	Chloroform	7	(µg/L)	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9 J, B	ND	ND	0.8 J, B
	Xylene (total)	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total VOCs	0.002 (G)		ND	1	ND	ND	6	2	ND	7	ND	4	1	ND	2.9	5	ND	3.8
SEMIVOLATILES																			
95-95-4	2,4,5-Trichlorophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
88-06-2	2,4,6-Trichlorophenol	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
121-14-2	2,4-Dinitrotoluene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
606-20-2	2,6-Dinitrotoluene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
89-63-4	2-Nitroaniline	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91-94-1	3,3-Dichlorobenzidine	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101-55-3	4-Bromophenyl phenyl ether	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59-50-7	4-Chloro-3-methylphenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7005-72-3	4-Chlorophenyl phenyl ether	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
120-12-7	Anthracene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56-55-3	Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50-32-8	Benzo[a]pyrene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-81-7	Bis(2-ethylhexyl)phthalate	5	(µg/L)	2 J, B	1 J	1 J	ND	ND	ND	ND	2 J, P	ND	1 J	3 J, B	ND	ND	ND	ND	21
85-68-7	Butyl benzyl phthalate	50	(µg/L)	2 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86-74-8	Carbazole	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
131-11-3	Dimethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	(µg/L)	3 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
53-70-3	Dibenz[a,h]anthracene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
118-74-1	Hexachlorobenzene	0.04	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86-30-6	N-Nitrosodiphenylamine	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-01-8	Phenanthrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108-95-2	Phenol	5	(µg/L)	4 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total SVOCs			12	1	1	ND	ND	ND	ND	2	ND	1	3	ND	ND	ND	ND	21

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* = LCS or LCSD is outside acceptance limits.



Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID:	MW-2 162139	MW-2 G5114	MW-2 H0916	MW-2 H7394	MW-2 J8340	MW-2 M0190	MW-2 N4874	MW-2 Q3851	MW-2 R7150	MW-2 S7278	MW-2 T6914	MW-2 V4313	MW-2 Z7444	MW-2 A7550	MW-2 B4506	MW-2 E1069
			Source: SDG:	Columbia MW1	OBG 5116	OBG 6847	OBG 7810	OBG 9571	OBG 1489	OBG 3856	OBG 5490	OBG 7645	OBG 9259	OBG 739	OB 2494	OB 4203	OB 5716	OB 6968	OB 6968
			Matrix:	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
			Sampled:	08/12/97	11/20/97	02/19/98	05/28/98	10/21/98	04/20/99	11/08/99	04/27/00	12/13/00	06/19/01	12/12/01	06/18/02	12/17/02	06/25/03	12/18/03	06/07/04
CAS NO.	COMPOUND			UNITS:															
PESTICIDES																			
309-00-2	Aldrin	ND	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0018 J, P	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	(µg/L)	ND	ND	ND	0.0024 J	ND	0.0089 B, J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.00059 J, P	ND	ND	ND	ND	ND	ND	ND
50-29-3	4,4'-DDT	0.2	(µg/L)	ND	ND	ND	ND	ND	0.0007 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	(µg/L)	ND	ND	ND	ND	ND	0.0012 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33213-65-9	Endosulfan II	NS	(µg/L)	ND	ND	ND	0.003 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	(µg/L)	ND	ND	25 J, P	ND	ND	0.00092 J, P	0.002 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	(µg/L)	ND	ND	ND	0.0042 J, P	0.0048	ND	ND	ND	ND	ND	0.0069 B, J	ND	ND	0.0046 B, J, P	ND	ND
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	ND	ND	ND	ND	ND	0.0051 J, P	0.037 J, P	0.0052 J, P	ND	ND	ND	ND	ND	ND	ND	ND
5103-74-2	gamma-Chlordane	0.05	(µg/L)	ND	ND	ND	0.0025 J, P	0.0016	0.013 B, J, P	ND	ND	ND	ND	ND	ND	ND	0.0073 J	ND	0.0049 B, J, P
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	ND	0.00047 J, P	ND	0.0024 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
72-43-5	Methoxychlor	35	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.0028 B, J, P	ND	ND	ND	ND	ND	ND	ND
Total Pesticides				ND	ND	25	0.01257	0.0064	0.03222	0.039	0.0052	0.00629	ND	0.0069	0.0018	ND	0.0119	ND	0.0049
PCBs																			
None Detected		All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INORGANICS																			
7429-90-5	Aluminum	NS	(µg/L)	329	37800	34600	19400	17900	12100	23100	35500	6220 E	16300	40100	27800	26800	29800	36400	51300
7440-36-0	Antimony	3	(µg/L)	2.6 B, E	ND	ND	ND	ND	2.9 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-38-2	Arsenic	25	(µg/L)	38.7	51.1	45.2	35.7	34.6	27.5	35.9	43.4	24.4	40.9	57.4	48.9	50.9	50.8	57.1	63.9
7440-39-3	Barium	1000	(µg/L)	76.9 B	457	432	275	260	180 B	291	440	130 B	247	492	375	411	501	567	827
7440-41-7	Beryllium	3 (G)	(µg/L)	0.38 B	2 B	1.7 B	0.94 B	0.88 B	0.71 B	1.1 B	1.7 B	0.66 B	0.75 B	2.1 B	1.3 B	1.3 B	1.4 B	1.8 B	2.2 B
7440-43-9	Cadmium	5	(µg/L)	0.89 B	1.5 B	0.5 B	ND	1.1 B	0.86 B	0.56 B	0.93 B	ND	ND	1.1 B	ND	ND	ND	ND	ND
7440-70-2	Calcium	NS	(µg/L)	202000	459000	452000	378000	344000	347000	345000	521000	352000	341000	514000	473000	454000	479000	524000	676000
7440-47-8	Chromium	50	(µg/L)	ND	94.1	89.4	77.8	103	56.3	80.2 E	111	19.6	79	102	68.6 E	62.2	83.3	79.8	114
7440-48-4	Cobalt	NS	(µg/L)	ND	29.4 B	23.6 B	10.8 B	13.3 B	9.2 B	13.8 B	22.6 B	3.6 B	11.6 B	32.4 B	17.1 B	15.6 B	18.5 B	22.8 B	30.3 B
7440-50-8	Copper	200	(µg/L)	ND	112	103	51.1	55.9	33.2	50.1	80.8	12.1 B	40.8	96.1	62.6	60.7	72.2	85.5	122
7439-89-6	Iron	300	(µg/L)	6020	79000	67700	42000	38800	27200	42100	66400	12900	40500	83100	55600	54000	59400	69500	97500
7439-92-1	Lead	25	(µg/L)	ND	108	85.1	45.4	39.2	26.7	40.8	66.6	13.2	30.3	71.2	47.3 N	46.1	52.8	60.6	88.9
7439-95-4	Magnesium	35000 (G)	(µg/L)	66300	118000	118000	95400	109000	103000	115000	171000	74300	97000	153000	113000	125000	143000	143000	207000
7439-96-5	Manganese	300	(µg/L)	59.6	1920	1810	1160	1000	949	941	1910	703	777	2060	1520	1510	1570	1940	2770
7439-97-6	Mercury	0.7	(µg/L)	ND	0.17 B	ND	0.1 B	ND	ND	ND	ND	0.17 B	ND	ND	ND	0.06 B	ND	ND	0.12 B
7440-02-0	Nickel	100	(µg/L)	ND	77.5	73.1	51.2	61.2	35 B	53.2 E	76.4	13.3 B	53.7	90	53.4	47.9	61.6	70.5	98.1
7440-09-7	Potassium	NS	(µg/L)	2200 B	7800	7460	5660	4200 B	4330 B	7560	11200	35.3 B, E	5870	11300	9800	9290	10200	10700	13600
7782-49-2	Selenium	10	(µg/L)	ND	6.2	ND	ND	2 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 B	4 B
7440-23-5	Sodium	20000	(µg/L)	16500	19700	20100	15900	18700	19100	21400 E	23400	15700	15300	17700	16000 E	17300	17100	17400	19100
7440-28-0	Vanadium	5 (G)	(µg/L)	27	7.6 B	6.6 B	ND	ND	ND	ND	ND	ND	ND	5.3 B	ND	ND	ND	ND	ND
7440-62-2	Zinc	NS	(µg/L)	ND	71.6	60.6	39.8 B	33.7 B	23.1 B	40.3 B, E	67.8	10.5 B	31.8 B	81.5	52.2	52.4	59.8	67.6	99.3
7440-66-6	Cyanide	2000 (G)	(µg/L)	55.7	376	321	187	184	110	195	293	40.5	113	277	235	181	235	248	385
57-12-5		200	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1 B	ND	ND
Total Inorganics				293,610.77	724,614.17	702,911.80	558,294.84	534,388.88	514,184.47	555,902.96	831,614.23	462,126.33	517,395.85	822,570.90	697,681.40	688,829.16	741,212.50	804,204.70	1,069,104.82

Notes:

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.
NS = No Standard
(G) = Guidance Value
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B = Compound was found in the blank and sample.
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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID:	MW-2 0508023-001A	MW-2 0603108-003A	MW-2 A7E98503	MW-2 A8E15003	MW-2 RSI0312-07	MW-2 RTF0798-02	MW-2 480-2185-2	MW-2 480-14453-2	MW-2 480-23574-8	MW-2 480-38363-2	MW-2 480-56775-2	MW-2 480-70616-5	MW-2 480-83528-5	MW-2 480-101674-1	MW-2 Not Sampled	MW-2 Not Sampled	MW-2 480-141984-2	MW-2 Not Sampled
			Source: SDG:	OB	LSL-BL	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA			TA	
			Matrix:	200508	6030950	A07-E985	A8-E150	RSI0296	RTF0798	480-2185	480-14453	480-23574	480-38363	480-56775	480-70616	480-83528	480-101674			480-141984	
			Sampled:	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
				08/03/05	03/23/06	12/26/07	11/06/08	09/09/09	06/10/10	03/03/11	12/23/11	08/07/12	05/15/13	03/27/14	11/03/14	07/08/15	06/15/16	03/22/17	10/05/17	09/19/18	06/26/19
CAS NO.	COMPOUND	UNITS:																			
VOLATILES																					
67-64-1	Acetone	50 (G)	(µg/L)	4 B, J	3 B, J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			0.19 J B	
67-66-3	Chloroform	7	(µg/L)	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
75-09-2	Methylene chloride	5	(µg/L)	0.9 B, J	1 B, J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
	Xylene (total)	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
Total VOCs				5.9	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	0.19	NA
SEMIVOLATILES																					
95-95-4	2,4,5-Trichlorophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.90 J	ND	ND	ND	ND			ND	
88-06-2	2,4,6-Trichlorophenol	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.68 J	ND	ND	ND	ND			ND	
121-14-2	2,4-Dinitrotoluene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	ND	ND	ND	ND			ND	
606-20-2	2,6-Dinitrotoluene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.74 J	ND	ND	ND	ND			ND	
89-63-4	2-Nitroaniline	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.70 J	ND	ND	ND	ND			ND	
91-94-1	3,3'-Dichlorobenzidine	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0 J	ND	ND	ND	ND			ND *	
101-55-3	4-Bromophenyl phenyl ether	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97 J	ND	ND	ND	ND			ND	
59-50-7	4-Chloro-3-methylphenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82 J	ND	ND	ND	ND			ND	
7005-72-3	4-Chlorophenyl phenyl ether	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.71 J	ND	ND	ND	ND			ND	
120-12-7	Anthracene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.65 J	ND	ND	ND	ND			ND	
56-55-3	Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	1.0 J	3.1 J B	ND	ND	ND	ND			ND	
50-32-8	Benzo[a]pyrene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.68 J	0.83 J	1.9 J	ND	ND	ND	ND			ND	
205-99-2	Benzo[b]fluoranthene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.84 J	1.1 J	3.2 J B	ND	ND	ND	ND			ND	
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.39 J	0.50 J	2.1 J	ND	ND	ND	ND			ND	
207-08-9	Benzo[k]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1 J	ND	ND	ND	ND			ND	
117-81-7	bis(2-ethylhexyl)phthalate	5	(µg/L)	2 J	ND	14	ND	ND	ND	ND	ND	ND	3.5 J	ND	ND	ND	ND			ND	
85-68-7	Butyl benzyl phthalate	50	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9 J B	ND	ND	ND	ND			ND	
86-74-8	Carbazole	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5 J	ND	ND	ND	ND			ND	
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.74 J	0.86 J	1.4 J	ND	ND	ND	ND			ND	
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 J	ND	ND	ND	ND			ND	
131-11-3	Dimethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.76 J	ND	ND	ND	ND			ND	
84-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	ND	0.3 B, J	ND	ND	ND	0.38 J	1.4 J, B	ND	2.2 J B	ND	ND	ND	ND			ND	
117-84-0	1,1,1-trichloro-2,2,2-trifluoroethane	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1 J B	ND	ND	ND	ND			ND	
53-70-3	Dibenz[a,h]anthracene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	ND	ND	ND	ND			ND	
206-44-0	Fluoranthene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	1.7 J	1.5 J	ND	ND	ND	ND			ND	
118-74-1	Hexachlorobenzene	0.04	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95 J	ND	ND	ND	ND			ND *	
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.59 J	1.8 J	ND	ND	ND	ND	ND			ND	
86-30-6	N-Nitrosodiphenylamine	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND	ND			ND	
85-01-8	Phenanthrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	1.0 J	ND	ND	ND	ND			ND	
108-95-2	Phenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	1.2 J	1.4 J	1.7 J	ND	ND	ND	ND			ND	
Total SVOCs				2	ND	14.3	ND	ND	ND	0.38	5.25	9.08	48.58	ND	ND	ND	ND	NA	NA	ND	NA

Notes:
NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
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B = Compound was found in the blank and sample.
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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID:	MW-2 0508023-001A	MW-2 0603108-003A	MW-2 A7E98503	MW-2 A8E15003	MW-2 RSI0312-07	MW-2 RTF0798-02	MW-2 480-2185-2	MW-2 480-14453-2	MW-2 480-23574-8	MW-2 480-38363-2	MW-2 480-56775-2	MW-2 480-70616-5	MW-2 480-83528-5	MW-2 480-101674-1	MW-2 Not Sampled	MW-2 Not Sampled	MW-2 480-141984-2	MW-2 Not Sampled
			Source: SDG:	OB	LSL-BL	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA			TA	
			Matrix:	200508	6030950	A07-E985	A8-E150	RSI0296	RTF0798	480-2185	480-14453	480-23574	480-38363	480-56775	480-70616	480-83528	480-101674			480-141984	
			Sampled:	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
				08/03/05	03/23/06	12/26/07	11/06/08	09/09/09	06/10/10	03/03/11	12/23/11	08/07/12	05/15/13	03/27/14	11/03/14	07/08/15	06/15/16	03/22/17	10/05/17	09/19/18	06/26/19
CAS NO.	COMPOUND		UNITS:																		
PESTICIDES																					
309-00-2	Aldrin	ND	(µg/L)																		
319-84-6	alpha-BHC	0.01	(µg/L)																		
72-55-9	4,4'-DDE	0.2	(µg/L)																		
50-29-3	4,4'-DDT	0.2	(µg/L)																		
959-98-8	Endosulfan I	NS	(µg/L)																		
33213-65-9	Endosulfan II	NS	(µg/L)																		
1031-07-8	Endosulfan sulfate	NS	(µg/L)																		
7421-93-4	Endrin aldehyde	5	(µg/L)																		
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)																		
5103-74-2	gamma-Chlordane	0.05	(µg/L)																		
1024-57-3	Heptachlor epoxide	0.03	(µg/L)																		
72-43-5	Methoxychlor	35	(µg/L)																		
Total Pesticides				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																					
None Detected		All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
Total PCBs				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
INORGANICS																					
7429-90-5	Aluminum	NS	(µg/L)																		
7440-36-0	Antimony	3	(µg/L)																		
7440-38-2	Arsenic	25	(µg/L)																		
7440-39-3	Barium	1000	(µg/L)																		
7440-41-7	Beryllium	3 (G)	(µg/L)																		
7440-43-9	Cadmium	5	(µg/L)																		
7440-70-2	Calcium	NS	(µg/L)																		
7440-47-8	Chromium	50	(µg/L)																		
7440-48-4	Cobalt	NS	(µg/L)																		
7440-50-8	Copper	200	(µg/L)																		
7439-89-6	Iron	300	(µg/L)																		
7439-92-1	Lead	500	(µg/L)																		
7439-95-4	Magnesium	35000 (G)	(µg/L)																		
7439-96-5	Manganese	300	(µg/L)																		
7439-97-6	Mercury	0.7	(µg/L)																		
7440-02-0	Nickel	100	(µg/L)																		
7440-09-7	Potassium	NS	(µg/L)																		
7782-49-2	Selenium	10	(µg/L)																		
7440-23-5	Sodium	20000	(µg/L)																		
7440-28-0	Thallium	5 (G)	(µg/L)																		
7440-62-2	Vanadium	NS	(µg/L)																		
7440-66-6	Zinc	2000 (G)	(µg/L)																		
57-12-5	Cyanide	200	(µg/L)																		
Total Inorganics				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.
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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-3 162134 Columbia MW1 Water 08/12/97	MW-3 G5115 OBG 5116 Water 11/20/97	MW-3 H0917 OBG 6847 Water 02/19/98	MW-3 H7395 OBG 7810 Water 05/28/98	MW-3 J8484 OBG 9595 Water 10/22/98	MW-3 M0191 OBG 1489 Water 04/20/99	MW-3 N5015 OBG 3880 Water 11/10/99	MW-3 Q3846 OBG 5490 Water 04/26/00	MW-3 R7156 OBG 7645 Water 12/14/00	MW-3 S7325 OBG 9270 Water 06/20/01	MW-3 T6809 OBG 724 Water 12/11/01	MW-3 V4310 OB 2494 Water 06/18/02	MW-3 Z7443 OB 4203 Water 12/17/02	MW-3 A7551 OB 5716 Water 06/25/03	MW-3 B4288 OB 6968 Water 12/16/03	MW-3 E1141 OB 6968 Water 06/08/04
CAS NO.	COMPOUND		UNITS:																
VOLATILES																			
67-64-1	Acetone	50 (G)	(µg/L)	ND	ND	ND	ND	4 J	6 J, J	ND	ND	ND	5 J	ND	ND	4 J, B	ND	ND	2 J, B
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	5 J	6	ND	ND	ND	ND	ND	ND	3 J	ND	ND
67-66-3	Chloroform		(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	(µg/L)	ND	ND	ND	ND	2 J	2 J, B	ND	ND	ND	ND	2 J, B	1 J	1 J, B	ND	2 J, B	0.8 J, B
1330-20-7	Xylene (total)	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J
Total VOCs				ND	ND	ND	ND	6	13	6	ND	ND	5	2	1	5	3	2	3.8
SEMIVOLATILES																			
117-81-7	bis(2-ethylhexyl)phthalate	5	(µg/L)	1 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50-32-8	Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-68-7	Butyl benzyl phthalate	50	(µg/L)	1 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91-58-7	2-Chloronaphthalene	10 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
132-64-9	Dibenzofuran	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	(µg/L)	2 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91-20-3	Naphthalene	10 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-01-8	Phenanthrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total SVOCs				4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.
ND = Not Detected
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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-3 162134 Columbia MW1 Water 08/12/97	MW-3 G5115 OBG 5116 Water 11/20/97	MW-3 H0917 OBG 6847 Water 02/19/98	MW-3 H7395 OBG 7810 Water 05/28/98	MW-3 J8484 OBG 9595 Water 10/22/98	MW-3 M0191 OBG 1489 Water 04/20/99	MW-3 N5015 OBG 3880 Water 11/10/99	MW-3 Q3846 OBG 5490 Water 04/26/00	MW-3 R7156 OBG 7645 Water 12/14/00	MW-3 S7325 OBG 9270 Water 06/20/01	MW-3 T6809 OBG 724 Water 12/11/01	MW-3 V4310 OB 2494 Water 06/18/02	MW-3 Z7443 OB 4203 Water 12/17/02	MW-3 A7551 OB 5716 Water 06/25/03	MW-3 B4288 OB 6968 Water 12/16/03	MW-3 E1141 OB 6968 Water 06/08/04
CAS NO.	COMPOUND		UNITS:																
PESTICIDES																			
319-84-6	alpha-BHC	0.01	(µg/L)	ND	ND	ND	0.0024 J	ND	0.00093 B, J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0055 B, J, P	ND	ND	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	(µg/L)	ND	ND	0.002 J, P	ND	ND	0.0024 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	(µg/L)	ND	ND	ND	ND	ND	0.0013 J, P	ND	ND	ND	ND	ND	ND	ND	0.0045 J, P	ND	ND
33213-65-9	Endosulfan II	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.00082 J, P	ND	ND	ND	ND	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	(µg/L)	ND	ND	0.0029 J, P	0.0048 J, P	0.011 B, J, P	0.0015 J, P	0.0018 J, P	ND	0.0035 J, P	ND	ND	ND	ND	0.0062 J, P	ND	0.0021 J, P
72-20-8	Endrin	ND	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.017 B, J, P	ND	ND	ND	0.026 J, P	ND	ND
7421-93-4	Endrin aldehyde	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012 B, J, P	ND	ND	ND	ND	ND
53494-70-5	Endrin ketone	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.0024 J, P	ND	ND	ND	ND	ND	ND	ND
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	ND	ND	ND	ND	ND	0.012 J, P	0.002 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND
5103-74-2	gamma-Chlordane	0.05	(µg/L)	ND	ND	ND	0.00073 J, P	0.001 J, P	0.014 B, J, P	0.0027 J, P	ND	ND	ND	ND	ND	ND	0.0054 J, P	ND	0.0027 B, J, P
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	ND	0.00067 J, P	ND	0.0052 J, P	ND	ND	ND	ND	ND	ND	ND	0.014 J, P	ND	ND
Total Pesticides				ND	ND	0.0049	0.0086	0.012	0.02533	0.0138	0.0047	0.00672	0.0225	0.012	ND	ND	0.0561	ND	0.0048
PCBs																			
None Detected		All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INORGANICS																			
7429-90-5	Aluminum	NS	(µg/L)	197 B	3510	2060	1510	789	665	512	712	816 E	458	1390	604	763	558	265	800
7440-36-0	Antimony	3	(µg/L)	ND	ND	ND	ND	ND	2.1 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-38-2	Arsenic	25	(µg/L)	24.2	7.9 B	ND	9 B	6.2 B	2.6 B	2.6 B	3.9 B	3.9 B	2.1 B	4.5 B	2.7 B	4.2 B	3.1 B	ND	ND
7440-39-3	Barium	1000	(µg/L)	188 B	254	245	187 B	157 B	153 B	164 B	152 B	150 B	151 B	142 B	155 B	237	229	234	213
7440-41-7	Beryllium	3 (G)	(µg/L)	1.8 B	0.29 B	0.24 B	ND	0.15 B	0.15 B	0.24 B	0.37 B	0.39 B	ND	0.21 B	0.13 B	0.15 B	0.1 B	ND	ND
7440-43-9	Cadmium	5	(µg/L)	5.9	0.32 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-70-2	Calcium	NS	(µg/L)	257000	235000	216000	188000	172000	149000	151000	141000	139000	127000	116000	101000	105000	111000	111000	112000
7440-47-8	Chromium	50	(µg/L)	2.6 B	30.5	19.5	10.8	12.7	9.4 B	14.2 E	15	10.5	11.2	26.8	6.4 B, E	14.2	14	6 B	10.5
7440-48-4	Cobalt	NS	(µg/L)	2.4 B	3.1 B	ND	ND	ND	ND	ND	ND	ND	ND	2.2 B	ND	ND	ND	ND	ND
7440-50-8	Copper	100	(µg/L)	ND	12.5 B	8.3 B	5.9 B	5 B	2.1 B	2 B	2.3 B	2.2 B	0.92 B	3.9 B	ND	2.7 B	6 B	ND	ND
7439-89-6	Iron	300	(µg/L)	30300	32900	25400	21300	20800	15900	16100	16100	14600	15000	16700	13600	15700	15300	13300	13400
7439-92-1	Lead	25	(µg/L)	ND	6.7	2.5 B	2.1 B	2.1 B	ND	ND	1.3 B	2.9 B	ND	3.2	ND	ND	ND	ND	1.5 B
7439-95-4	Magnesium	35000 (G)	(µg/L)	70600	57600	54400	45500	43500	34700	38400	35600	34500	32900	31200	27800	30400	30200	30100	29900
7439-96-5	Manganese	300	(µg/L)	831	1000	934	835	734	654	631	562	581	512	520	444	485	495	479	454
7440-02-0	Nickel	100	(µg/L)	ND	18.4 B	11.2 B	8.7 B	5.8 B	6.4 B	9.3 B, E	9.6 B	5.8 B	6 B	14.2 B	ND	5.9 B	5.6 B	3.4 B	5.4 B
7440-09-7	Potassium	NS	(µg/L)	13600	17400	17500	15800	13100	9730	10200	9780	9790 E	10500	7790	7350	7980	9720	10300	11600
7782-49-2	Selenium	10	(µg/L)	ND	4.1 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 B	ND	ND	2.9 B	ND
7440-22-4	Silver	50	(µg/L)	1.7 B	0.67 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-23-5	Sodium	20000	(µg/L)	129000	118000	117000	104000	104000	83100	89200 E	81700	69500	66500	62800	58900 E	57000	54600	57000	58200
7440-28-0	Thallium	5 (G)	(µg/L)	ND	4.5 B	7.3 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-62-2	Vanadium	NS	(µg/L)	ND	9.6 B	6 B	6 B	4.2 B	4.2 B	3.7 B, E	4.4 B	4.4 B	4.4 B	6.2 B	3.8 B	6.3 B	4.4 B	3.1 B	4.1 B
7440-66-6	Zinc	2000 (G)	(µg/L)	59.1	59.9	37.7	27.4	34.6	9.1 B	26.3	13.3 B	18.7 B	7 B	28.1	46	16.8 B	28.5	3.9 B	14.5 B
57-12-5	Cyanide	200	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.5	ND	ND	4.9 B	ND	ND
Total Inorganics				501,814	465,822	433,632	377,200	355,151	293,938	306,265	285,656	268,986	253,053	236,644	209,914	217,615	222,164	222,697	226,603

Notes:
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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-3 050823-002A	MW-3 0603100-002A	MW-3 A7E98504	MW-3 A8E30601	MW-3 RSI0359-04	MW-3 RTF0860-01	MW-3 480-2227-5	MW-3 480-14453-3	MW-3 480-23574-9	MW-3 480-38363-3	MW-3 480-56775-3	MW-3 480-70616-7	MW-3 480-83528-7	MW-3 480-101785-2	MW-3 Not Sampled	MW-3 Not Sampled	MW-3 480-141984-1	MW-3 Not Sampled
CAS NO.	COMPOUND		UNITS:																		
VOLATILES																					
67-64-1	Acetone	50 (G)	(µg/L)	4 B, J	3 B, J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
67-66-3	Chloroform		(µg/L)	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
75-09-2	Methylene chloride	5	(µg/L)	1 B, J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			1.1 J	
1330-20-7	Xylene (total)	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
Total VOCs				7	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	1.1	NA
SEMIVOLATILES																					
117-81-7	bis(2-ethylhexyl)phthalate	5	(µg/L)	ND	ND	ND	ND	ND	ND	3.4 J, B	ND	ND	ND	ND	ND	ND	ND			ND	
50-32-8	Benzo(a)anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.48 J B	ND	ND	ND	ND			ND	
205-99-2	Benzo(b)fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45 J B	ND	ND	ND	ND			ND	
191-24-2	Benzo(g,h,i)perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35 J	ND	ND	ND	ND			ND	
85-68-7	Butyl benzyl phthalate	50	(µg/L)	ND	ND	ND	ND	ND	ND	2.4 J	ND	ND	0.61 J B	ND	ND	ND	ND			ND	
91-58-7	2-Chloronaphthalene	10 (G)	(µg/L)	ND	ND	ND	0.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	1 J B	ND	ND	ND	ND	ND	0.23 J	ND	ND	ND	ND			ND	
132-64-9	Dibenzofuran	NS	(µg/L)	ND	ND	ND	0.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
84-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	ND	0.3 B, J	0.7 B, J	0.39 J	0.44 J	0.78 J, B	1.1 J, B	ND	0.49 J B	ND	ND	ND	ND			ND	
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56 J B	ND	ND	ND	ND			ND	
91-57-6	2-Methylnaphthalene	NS	(µg/L)	ND	ND	ND	0.2 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
91-20-3	Naphthalene	10 (G)	(µg/L)	ND	ND	ND	0.3 B, J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
85-01-8	Phenanthrene	50 (G)	(µg/L)	ND	ND	ND	0.2 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	
Total SVOCs				ND	ND	0.3	3.0	0.39	0.44	6.58	1.1	ND	3.17	ND	ND	ND	ND	NA	NA	ND	NA

Notes:
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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-3 050823-002A OB 200508 Water 08/03/05	MW-3 0603100-002A LSL-BL 6030950 Water 03/22/06	MW-3 A7E98504 TA A07-E985 Water 12/26/07	MW-3 A8E30601 TA A08-E150 Water 11/10/08	MW-3 RSI0359-04 TA RSI0296 Water 09/10/09	MW-3 RTF0860-01 TA RTF0798 Water 06/11/10	MW-3 480-2227-5 TA 480-2185 Water 03/04/11	MW-3 480-14453-3 TA 480-14453 Water 12/23/11	MW-3 480-23574-9 TA 480-23574 Water 08/07/12	MW-3 480-38363-3 TA 480-38363 Water 05/15/13	MW-3 480-56775-3 TA 480-56775 Water 03/27/14	MW-3 480-70616-7 TA 480-70616 Water 11/03/14	MW-3 480-83528-7 TA 480-83528 Water 07/08/15	MW-3 480-101785-2 TA 480-101785 Water 06/16/16	MW-3 Not Sampled Water 03/22/17	MW-3 Not Sampled Water 10/05/17	MW-3 480-141984-1 TA 480-141984-3 Water 09/19/18	MW-3 Not Sampled Water 06/26/19
CAS NO.	COMPOUND		UNITS:																		
PESTICIDES																					
319-84-6	alpha-BHC	0.01	(µg/L)																		
72-55-9	4,4'-DDE	0.2	(µg/L)																		
60-57-1	Dieldrin	0.004	(µg/L)																		
959-98-8	Endosulfan I	NS	(µg/L)																		
83213-65-9	Endosulfan II	NS	(µg/L)																		
1031-07-8	Endosulfan sulfate	NS	(µg/L)																		
72-20-8	Endrin	ND	(µg/L)																		
7421-93-4	Endrin aldehyde	5	(µg/L)																		
53494-70-5	Endrin ketone	5	(µg/L)																		
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)																		
5103-74-2	gamma-Chlordane	0.05	(µg/L)																		
1024-57-3	Heptachlor epoxide	0.03	(µg/L)																		
Total Pesticides				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																					
None Detected		All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
Total PCBs				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	NA
INORGANICS																					
7429-90-5	Aluminum	NS	(µg/L)																		
7440-36-0	Antimony	3	(µg/L)																		
7440-38-2	Arsenic	25	(µg/L)																		
7440-39-3	Barium	1000	(µg/L)																		
7440-41-7	Beryllium	3 (G)	(µg/L)																		
7440-43-9	Cadmium	5	(µg/L)																		
7440-70-2	Calcium	NS	(µg/L)																		
7440-47-8	Chromium	50	(µg/L)																		
7440-48-4	Cobalt	NS	(µg/L)																		
7440-50-8	Copper	200	(µg/L)																		
7439-89-6	Iron	300	(µg/L)																		
7439-92-1	Lead	25	(µg/L)																		
7439-95-4	Magnesium	35000 (G)	(µg/L)																		
7439-96-5	Manganese	300	(µg/L)																		
7440-02-0	Nickel	100	(µg/L)																		
7440-09-7	Potassium	NS	(µg/L)																		
7782-49-2	Selenium	10	(µg/L)																		
7440-22-4	Silver	50	(µg/L)																		
7440-23-5	Sodium	20000	(µg/L)																		
7440-28-0	Thallium	5 (G)	(µg/L)																		
7440-62-2	Vanadium	NS	(µg/L)																		
7440-66-6	Zinc	2000 (G)	(µg/L)																		
57-12-5	Cyanide	200	(µg/L)																		
Total Inorganics				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
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Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.
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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-4 162135 Columbia MW1 Water 08/12/97	MW-4 G5191 OBG 5116 Water 11/20/97	MW-4 H1021 OBG 6857 Water 02/20/98	MW-4 H7396 OBG 7810 Water 05/28/98	MW-4 J8485 OBG 9595 Water 10/22/98	MW-4 M0194 OBG 1489 Water 04/20/99	MW-4 N5016 OBG 3880 Water 11/10/99	MW-4 Q3852 OBG 5490 Water 04/27/00	MW-4 R7320 OBG 7645 Water 12/15/00	MW-4 S7324 OBG 9270 Water 06/20/01	MW-4 T7107 OBG 764 Water 12/13/01	MW-4 V4311 OB 2494 Water 06/18/02	MW-4 Z7814 OB 4203 Water 12/18/02	MW-4 A7432 OB 5716 Water 06/24/03	MW-4 B4292 OB 6968 Water 12/16/03	MW-4 E1136 OB 6968 Water 06/08/04
CAS NO.	COMPOUND		UNITS:																
VOLATILES																			
67-64-1	Acetone	50 (G)	(µg/L)	ND	2 J	3 J	2 J	4 J	9 J	ND	ND	ND	5 J	ND	ND	4 J, B	ND	ND	5 J, B
71-43-2	Benzene	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	11	45	1 J	ND	ND	ND	ND	ND	6 J	ND	ND
67-66-3	Chloroform	7	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	(µg/L)	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	0.6 J, B	1 J	1 J, B	ND	1 J, B	1 J, B
Total VOCs				ND	2	3	2	6	20	45	1	ND	5	0.6	1	5	6	1	6
SEMIVOLATILES																			
117-81-7	bis(2-ethylhexyl)phthalate	5	(µg/L)	2 J, B	1 J	ND	ND	ND	ND	2 J	ND	1	ND	1	ND	1	ND	ND	ND
56-55-3	Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50-32-8	Benzo[a]pyrene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-68-7	Butyl benzyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	(µg/L)	1 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106-44-5	4-Methylphenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND
100-02-7	4-Nitrophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91-20-3	Naphthalene	10 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-01-8	Phenathrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total SVOCs				3	1	ND	ND	ND	ND	2	ND	1	2	1	ND	1	ND	ND	2

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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-4 162135 Columbia MW1 Water 08/12/97	MW-4 G5191 OBG 5116 Water 11/20/97	MW-4 H1021 OBG 6857 Water 02/20/98	MW-4 H7396 OBG 7810 Water 05/28/98	MW-4 J8485 OBG 9595 Water 10/22/98	MW-4 M0194 OBG 1489 Water 04/20/99	MW-4 N5016 OBG 3880 Water 11/10/99	MW-4 Q3952 OBG 5490 Water 04/27/00	MW-4 R7320 OBG 7645 Water 12/15/00	MW-4 S7324 OBG 9270 Water 06/20/01	MW-4 T7107 OBG 764 Water 12/13/01	MW-4 V4311 OB 2494 Water 06/18/02	MW-4 Z7814 OB 4203 Water 12/18/02	MW-4 A7432 OB 5716 Water 06/24/03	MW-4 B4292 OB 6968 Water 12/16/03	MW-4 E1136 OB 6968 Water 06/08/04
CAS NO.	COMPOUND		UNITS:																
PESTICIDES																			
309-00-2	Aldrin	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.0018 J, P	ND	ND	0.024 J, P	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	(µg/L)	ND	ND	ND	ND	ND	0.0089 B, J, P	ND	ND	0.0013 J, P	ND	ND	ND	ND	0.0057 J, P	ND	ND
5103-71-9	alpha-Chlordane	0.05	(µg/L)	ND	ND	ND	ND	ND	0.00093 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.3	(µg/L)	ND	ND	ND	ND	ND	0.0007 J, P	0.0012 J, P	ND	0.0026 J, P	0.005 B, J, P	ND	ND	ND	ND	ND	ND
319-86-8	Delta-BHC	0.04	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.00074 B, J, P	ND	ND	ND	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.002 J, P	0.0015 J, P	ND	0.0074	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	(µg/L)	ND	ND	ND	ND	ND	0.0043 J, P	0.0014 B, J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND
33213-65-9	Endosulfan II	NS	(µg/L)	ND	ND	ND	ND	0.0008 J, P	ND	ND	ND	ND	ND	0.0011 J, P	ND	ND	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	(µg/L)	ND	ND	ND	ND	0.0017 B, J, P	0.0042 J, P	0.0032 J, P	ND	0.0011 J, P	ND	ND	ND	ND	ND	ND	ND
72-20-8	Endrin	NS	(µg/L)	ND	ND	ND	0.00073 J, P	ND	0.0028	ND	ND	0.00085 J, P	0.038 B, J, P	ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	(µg/L)	ND	ND	ND	ND	0.0028 J, P	ND	ND	ND	ND	0.015 B, J, P	ND	ND	ND	ND	ND	ND
53494-70-5	Endrin ketone	NS	(µg/L)	ND	ND	ND	ND	0.0014 J, P	ND	ND	ND	0.003 J, P	ND	ND	ND	ND	0.0033 J, P	ND	ND
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	ND	ND	ND	ND	0.004 J, P	ND	ND	0.0039 J, P	ND	ND	ND	ND	ND	ND	0.0076 J, P	ND
5103-74-2	gamma-Chlordane	0.05	(µg/L)	ND	ND	ND	0.002 J, P	0.0017 J, P	0.0056 B, J, P	ND	ND	ND	0.0043 J, P	ND	ND	ND	0.01 J	ND	0.0034 B, J
76-44-8	Heptachlor	0.04	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0049 J	ND	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	ND	ND	ND	0.00034 J, P	ND	ND	ND	ND	0.0032 J, P	0.0023 J, P	ND	ND	ND	ND
72-43-5	Methoxychlor	35	(µg/L)	ND	ND	ND	ND	ND	0.0033 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides				ND	ND	ND	0.00273	0.0084	0.03507	0.0058	0.0059	0.01289	0.043	0.0359	0.0263	ND	0.019	0.0076	0.0034
PCBs																			
Aroclor 1248		All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INORGANICS																			
7429-90-5	Aluminum	NS	(µg/L)	89.7 B	1460	1300	553	515	451	787	670	1090	1090	2980	1140	324	803	4790	6050
7440-36-0	Antimony	3	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4 B
7440-38-2	Arsenic	25	(µg/L)	17.9	ND	ND	9.6 B	6.6 B	8.3 B	2.5 B	4.5 B	ND	8 B	26.6	18	13.8	14.8	6.6 B	23.7
7440-39-3	Barium	1000	(µg/L)	308	47.6 B	53.3 B	214	176 B	175 B	61.3 B	58.2 B	51.9 B	79.6 B	118 B	137 B	163 B	96.4 B	80.2 B	200 B
7440-41-7	Beryllium	3 (G)	(µg/L)	1.1 B	0.11 B	0.09 B	ND	ND	ND	0.05 B	ND	0.31 B	ND	0.26 B	ND	ND	ND	0.2 B	0.33 B
7440-43-9	Cadmium	5	(µg/L)	5.1	3.3 B	0.39 B	ND	ND	0.88 B	0.35 B	0.59 B	0.73 B	1.8 B	2.3 B	0.58 B	0.43 B	ND	2.6 B	8.1
7440-70-2	Calcium	NS	(µg/L)	140000	59000	63600	141000	132000	137000	70000	104000	83700	101000	114000	104000	112000	89000	119000	119000
7440-47-8	Chromium	50	(µg/L)	ND	7.6 B	5.2 B	2 B	7.1 B	8.9 B	7.2 B, E	9.4 B	6.8 B	10.5	17.7	7.3 B, E	6 B	5.1 B	12.3	26.9
7440-48-4	Cobalt	NS	(µg/L)	ND	1.6 B	ND	ND	ND	ND	ND	1.7 B	ND	2.6 B	4 B	ND	ND	ND	ND	9.1 B
7440-50-8	Copper	200	(µg/L)	ND	7.2 B	3.7 B	1.7 B	2.6 B	1.8 B	3.2 B	3 B	4.4 B	2.9 B	5.6 B	1.6 B	ND	2.3 B	6.3 B	7.8 B
7439-89-6	Iron	300	(µg/L)	19300	3710	1860	19400	20100	19400	2000	1250	1960	7080	17600	14500	12400	5820	6900	17900
7439-92-1	Lead	25	(µg/L)	ND	5.9	ND	ND	2.5 B	ND	1.4 B	ND	3	3 B	8.7	2.4 B, N	ND	1.3 B	6.4	12.7
7439-95-4	Magnesium	35000 (G)	(µg/L)	42700	16800	17800	38900	36700	37500	19800	29900	24200	28300	31400	28000	34500	31900	27000	32900
7439-96-5	Manganese	300	(µg/L)	200	110	94.4	224	213	225	71.1	827	104	1840	1530	1610	569	1040	1810	7210
7439-97-6	Mercury	0.7	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05 B
7440-02-0	Nickel	100	(µg/L)	ND	6.7 B	4.2 B	1.8 B	1.4 B	2.7 B	4.8 E	5.6 B	4 B	8.1 B	10.1 B	ND	ND	3.4 B	8.7 B	19.2 B
7440-09-7	Potassium	NS	(µg/L)	1830 B	1100 B	2130 B	1120 B	883 B	1180 B	2500 B	1990 B	2720 B, E	2870 B	5110	4430 B	2250 B	4290 B	3240 B	4840 B
7782-49-2	Selenium	10	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3 B	2.9 B	ND
7440-23-5	Sodium	20000	(µg/L)	70700	3490 B	5100	64100	70500	75000	9540 E	5100	4750 B	42400	115000	145000 E	50700	65200	3450 B	103000
7440-28-0	Thallium	.5 (G)	(µg/L)	ND	ND	4.1 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.3
7440-62-2	Vanadium	NS	(µg/L)	ND	3.5 B	3.6 B	2.7 B	1.8 B	2.6 B	1.8 B, E	2 B	2.9 B	6.5 B	12.7 B	6.4 B	2.8 B	6.7 B	8.4 B	16.1 B
7440-66-6	Zinc	2000 (G)	(µg/L)	87.5	51	27.6	25.1	24.2	13.2 B	22.4	21	16.8 B	20.1	36.1	30.6	11.7 B	23.8	ND	130
57-12-5	Cyanide	200	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.3	ND	ND	ND	ND
Total Inorganics				275,239.30	85,804.51	91,986.58	265,553.90	261,133.20	270,969.38	104,803.10	143,842.99	118,614.84	184,723.10	287,862.06	298,900.18	219,940.73	221,210.10	136,373.60	291,368.68

Notes:
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Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.
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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID:	MW-4 0508042-001A	MW-4 0603100-003A	MW-4 A7E98505	MW-4 A8E30602	MW-4 RSI0359-02	MW-4 RTF0798-03	MW-4 480-2185-3	MW-4 Not Sampled	MW-4 480-23574-1	MW-4 480-38363-4	MW-4 480-56775-4	MW-4 480-70616-8	MW-4 480-83621-1	MW-4 480-101785-5	MW-4 480-114997-1	MW-4 480-125448-3	MW-4 480-141984-4	MW-4 480-155595-1
			Source: SDG:	OB 200508	LSL-BL 6030950	TA A07-E985	TA A08-E150	TA RSI0296	TA RTF0798	TA 480-2185		TA 480-23574	TA 480-38363	TA 480-56775	TA 480-70616	TA 480-83621	TA 480-101785	TA 480-114997	TA 480-125448	TA 480-141984	TA 480-155595
			Matrix: Sampled:	Water 08/05/05	Water 03/22/06	Water 12/26/07	Water 11/10/08	Water 09/10/09	Water 06/10/10	Water 03/03/11	Water 12/23/11	Water 08/07/12	Water 05/15/13	Water 03/27/14	Water 11/03/14	Water 07/09/15	Water 06/16/16	Water 03/22/17	Water 10/05/17	Water 09/19/18	Water 06/26/19
CAS NO.	COMPOUND		UNITS:																		
VOLATILES																					
67-64-1	Acetone	50 (G)	(µg/L)	6 J, B	3 J, B	6	ND	ND	ND	ND		ND	ND	4.4 J	3.1 J	ND	ND	ND	4.9 J	4.1 J	ND
71-43-2	Benzene	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	5.5
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
67-66-3	Chloroform	7	(µg/L)	1 J	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	(µg/L)	1 J, B	1 J, B	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs				8	4	6	ND	ND	ND	ND	NA	ND	ND	4.4	3.1	ND	ND	ND	4.9	4.1	5.5
SEMIVOLATILES																					
117-81-7	bis(2-ethylhexyl)phthalate	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND F2	ND	ND
56-55-3	Benzo(a)anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND		ND	0.90 J B	ND	ND	ND	ND	ND	ND F2	ND	ND
50-32-8	Benzo(a)pyrene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND		ND	0.55 J	ND	ND	ND	ND	ND	ND F2	ND	ND
205-99-2	Benzo(b)fluoranthene		(µg/L)	ND	ND	ND	ND	ND	ND	ND			0.89 J B	ND	ND	ND	ND	ND	ND F2	ND	ND
191-24-2	Benzo(g,h,i)perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND		ND	0.70 J	ND	ND	ND	ND	ND	ND F2	ND	ND
207-08-9	Benzo(k)fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND			0.93 J	ND	ND	ND	ND	ND	ND F2	ND	ND
85-68-7	Butyl benzyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND		ND	1.2 J B	ND	ND	ND	ND	ND	ND	ND	ND
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND		ND	0.40 J	ND	ND	ND	ND	ND	ND F2	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	1 J B	ND	ND	ND		ND	0.32 J B	ND	ND	ND	ND	ND	ND	ND	ND
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND		ND	0.84 J B	ND	ND	ND	ND	ND	ND F2	ND	ND
84-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	ND	ND	0.6 J, B	0.79 J	ND	0.31 J		ND	1.1 J B	ND	ND	ND	ND	ND	0.48 J	ND	ND
91-57-6	2-Methylnaphthalene	NS	(µg/L)	ND	ND	ND	0.6 B J	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106-44-5	4-Methylphenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100-02-7	4-Nitrophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
193-39-5	Indeno(1,2,3-cd)pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND		ND	0.61 J	ND	ND	ND	ND	ND	ND F2	ND	ND
91-20-3	Naphthalene	10 (G)	(µg/L)	ND	ND	ND	4 J B	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-01-8	Phenathrene	50 (G)	(µg/L)	ND	ND	ND	0.4 J B	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2 JB
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND		ND	0.48 J	ND	ND	ND	ND	ND	ND	ND	ND
Total SVOCs				ND	ND	ND	6.6	0.79	ND	0.31	NA	ND	8.92	ND	ND	ND	ND	ND	0.48	ND	1.2

Notes:
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(G) = Guidance Value
ND = Concentration was not detected at or above the reporting limit.
J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID:	MW-4 0508042-001A	MW-4 0603100-003A	MW-4 A7E98505	MW-4 A8E30602	MW-4 RSI0359-02	MW-4 RTF0798-03	MW-4 480-2185-3	MW-4 Not Sampled	MW-4 480-23574-1	MW-4 480-38363-4	MW-4 480-56775-4	MW-4 480-70616-8	MW-4 480-83621-1	MW-4 480-101785-5	MW-4 480-114997-1	MW-4 480-125448-3	MW-4 480-141984-4	MW-4 480-155595-1
			Source: SDG:	OB 200508	LSL-BL 6030950	TA A07-E985	TA A08-E150	TA RSI0296	TA RTF0798	TA 480-2185		TA 480-23574	TA 480-38363	TA 480-56775	TA 480-70616	TA 480-83621	TA 480-101785	TA 480-114997	TA 480-125448	TA 480-141984	TA 480-155595
			Matrix: Sampled:	Water 08/05/05	Water 03/22/06	Water 12/26/07	Water 11/10/08	Water 09/10/09	Water 06/10/10	Water 03/03/11	Water 12/23/11	Water 08/07/12	Water 05/15/13	Water 03/27/14	Water 11/03/14	Water 07/09/15	Water 06/16/16	Water 03/22/17	Water 10/05/17	Water 09/19/18	Water 06/26/19
CAS NO.	COMPOUND		UNITS:																		
PESTICIDES																					
309-00-2	Aldrin	NS	(µg/L)																		
319-94-6	alpha-BHC	0.01	(µg/L)																		
5103-71-9	alpha-Chlordane	0.05	(µg/L)																		
72-55-9	4,4'-DDE	0.3	(µg/L)																		
319-86-8	delta-BHC	0.04	(µg/L)																		
60-57-1	Dieldrin	0.004	(µg/L)																		
959-98-8	Endosulfan I	NS	(µg/L)																		
33213-65-9	Endosulfan II	NS	(µg/L)																		
1031-07-8	Endosulfan sulfate	NS	(µg/L)																		
72-20-8	Endrin	NS	(µg/L)																		
7421-93-4	Endrin aldehyde	5	(µg/L)																		
53494-70-5	Endrin ketone	5	(µg/L)																		
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)																		
5103-74-2	gamma-Chlordane	0.05	(µg/L)																		
76-44-8	Heptachlor	0.04	(µg/L)																		
1024-57-3	Heptachlor epoxide	0.03	(µg/L)																		
72-43-5	Methoxychlor	35	(µg/L)																		
Total Pesticides				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																					
Aroclor 1248		All PCBs <0.09	(µg/L)	ND	ND	ND	ND	0.51	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs				ND	ND	ND	ND	0.51	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INORGANICS																					
7429-90-5	Aluminum	NS	(µg/L)																		
7440-36-0	Antimony	3	(µg/L)																		
7440-38-2	Arsenic	25	(µg/L)																		
7440-39-3	Barium	1000	(µg/L)																		
7440-41-7	Beryllium	3 (G)	(µg/L)																		
7440-43-9	Cadmium	5	(µg/L)																		
7440-70-2	Calcium	NS	(µg/L)																		
7440-47-3	Chromium	50	(µg/L)																		
7440-48-4	Cobalt	NS	(µg/L)																		
7440-50-8	Copper	200	(µg/L)																		
7439-89-6	Iron	300	(µg/L)																		
7439-92-1	Lead	25	(µg/L)																		
7439-95-4	Magnesium	35000 (G)	(µg/L)																		
7439-96-5	Manganese	300	(µg/L)																		
7439-97-6	Mercury	0.7	(µg/L)																		
7440-02-0	Nickel	100	(µg/L)																		
7440-09-7	Potassium	NS	(µg/L)																		
7782-49-2	Selenium	10	(µg/L)																		
7440-23-5	Sodium	20000	(µg/L)																		
7440-28-0	Thallium	.5 (G)	(µg/L)																		
7440-62-2	Vanadium	NS	(µg/L)																		
7440-66-6	Zinc	2000 (G)	(µg/L)																		
57-12-5	Cyanide	200	(µg/L)																		
Total Inorganics				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
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Appendix B-2

Monitoring Well Historically Detected Compunds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-5 162136 Columbia MW1 Water 08/12/97	MW-5 G5119 OBG 5116 Water 11/20/97	MW-5 H1022 OBG 6857 Water 02/20/98	MW-5 H7532 OBG 7830 Water 05/29/98	MW-5 J8487 OBG 9595 Water 10/22/98	MW-5 M0195 OBG 1489 Water 04/20/99	MW-5 N5017 OBG 3880 Water 11/10/99	MW-5 Q4026 OBG 5512 Water 04/28/00	MW-5 R7321 OBG 7645 Water 12/15/00	MW-5 S7323 OBG 9270 Water 06/20/01	MW-5 T7108 OBG 764 Water 12/13/01	MW-5 V4312 OB 2494 Water 06/18/02	MW-5 Z7815 OB 4203 Water 12/18/02	MW-5 A7431 OB 5716 Water 06/24/03	MW-5 B4468 OB 6968 Water 12/18/03	MW-5 E1138 OB 6968 Water 06/08/04
CAS NO.	COMPOUND		UNITS:																
VOLATILES																			
67-64-1	Acetone	50 (G)	(µg/L)	ND	ND	5 J	10	19	7 J	ND	ND	7 J	6	ND	ND	4	3	ND	3
71-43-2	Benzene	1	(µg/L)	3 J	25	92	97	110	110	ND	ND	47	84	57	63	86	52	38	10
78-93-3	2-Butanone	50 (G)	(µg/L)	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	6 J	ND	ND	3 J	ND	ND	ND	ND	2	ND	ND
75-00-3	Chloroethane	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND
67-66-3	Chloroform	7	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74-87-3	Chloromethane	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND
100-41-4	Ethylbenzene	5	(µg/L)	ND	ND	5 J	8 J	10 J	10 J	7	3 J	8 J	6	4	7	4	2	ND	0.6
75-09-2	Methylene chloride	5	(µg/L)	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	0.7	ND	0.5	ND	0.7	ND
100-42-5	Styrene	5	(µg/L)	ND	ND	2 J	1 J	1 J	2 J	ND	ND	1 J	ND	0.8	ND	1	0.5	ND	ND
108-88-3	Toluene	5	(µg/L)	ND	4 J	28	35	28	15	ND	3 J	8 J	6	4	7	5	4	ND	0.9
1330-20-7	Xylene (total)	5	(µg/L)	ND	2 J	29	42	40	40	25	9 J	27	18	19	31	17	7	ND	2
Total VOCs				3	31	163	193	209	190	32	65	135	97	91.5	131	84.5	56.5	10	29.2
SEMIVOLATILES																			
117-81-7	bis(2-ethylhexyl)phthalate	5	(µg/L)	2 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J, B	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	1	(µg/L)	ND	7 J	25	30	23	18	3 J	8 J	20	9 J	9 J	16	13	7 J	ND	2 J
95-48-7	2-Methylphenol	1	(µg/L)	ND	2 J	6 J	6 J	4 J	3 J	ND	2 J	2 J	ND	ND	2 J	2 J	1 J	ND	ND
106-44-5	4-Methylphenol	1	(µg/L)	ND	4 J	9 J	ND	1 J	6 J	ND	2 J	4 J	3 J	ND	4 J	4 J	2 J	ND	ND
56-55-3	Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-68-7	Butyl benzyl phthalate	50 (G)	(µg/L)	1 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	(µg/L)	4 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91-20-3	Naphthalene	10 (G)	(µg/L)	1 J	4 J	8 J	4 J	9 J	10 J	3 J	10 J	8 J	1 J	1 J	ND	13	5 J	ND	ND
85-01-8	Phenathrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108-95-2	Phenol	1	(µg/L)	3 J, B	3 J	6 J	2 J	1 J	4 J	ND	3 J	2 J	2 J	3 J	ND	4 J	ND	ND	1 J
Total SVOCs				11	20	54	42	38	41	6	25	36	15	15	22	36	15	ND	3

Notes:
NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.
NS = No Standard
(G) = Guidance Value
ND = Concentration was not detected at or above the reporting limit.
J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
B = Compound was found in the blank and sample.
DO3 = Dilution required due to foaming
* = LCS or LCSD exceeds control limits



Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-5 162136 Columbia MW1 Water 08/12/97	MW-5 G5119 OBG 5116 Water 11/20/97	MW-5 H1022 OBG 6857 Water 02/20/98	MW-5 H7532 OBG 7830 Water 05/29/98	MW-5 J8487 OBG 9595 Water 10/22/98	MW-5 M0195 OBG 1489 Water 04/20/99	MW-5 N5017 OBG 3880 Water 11/10/99	MW-5 Q4026 OBG 5512 Water 04/28/00	MW-5 R7321 OBG 7645 Water 12/15/00	MW-5 S7323 OBG 9270 Water 06/20/01	MW-5 T7108 OBG 764 Water 12/13/01	MW-5 V4312 OB 2494 Water 06/18/02	MW-5 Z7815 OB 4203 Water 12/18/02	MW-5 A7431 OB 5716 Water 06/24/03	MW-5 B4468 OB 6968 Water 12/18/03	MW-5 E1138 OB 6968 Water 06/08/04
CAS NO.	COMPOUND		UNITS:																
PESTICIDES																			
309-00-2	Aldrin	NS	(µg/L)	ND	ND	ND	ND	ND	0.0016 J, P	ND	0.0016 J, P	0.0031 J, P	ND	ND	0.044 J, P	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	(µg/L)	ND	ND	ND	ND	ND	0.0069 B, J, P	ND	ND	0.0012 J, P	ND	ND	ND	ND	ND	ND	ND
5103-71-9	alpha-Chlordane	0.05	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011 J, P	ND	ND	ND	ND	ND
319-85-7	beta-BHC	0.04	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0079 J, P	ND	ND	ND	ND
72-54-8	4,4'-DDD	0.3	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.0033 J, P	ND	ND	ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	(µg/L)	ND	ND	ND	ND	0.0011 J, P	0.0014 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50-29-3	4,4'-DDT	0.2	(µg/L)	ND	ND	ND	ND	ND	ND	0.0015 J, P	ND	ND	ND	ND	0.0037 J, P	ND	ND	ND	ND
319-86-8	delta-BHC	0.04	(µg/L)	ND	ND	ND	ND	0.0015 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	(µg/L)	ND	ND	0.0095 J, P	0.003 J, P	ND	0.0033 J, P	0.0071 J, P	0.0021 J, P	0.0011 J, P	ND	0.012 B, J	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	(µg/L)	ND	ND	ND	ND	ND	0.0025 J, P	0.013 B, J, P	ND	0.0024 J, P	ND	ND	ND	ND	0.0066 J, P	ND	ND
33213-65-9	Endosulfan II	NS	(µg/L)	ND	ND	0.0026 J	0.0011 B, J, P	ND	ND	ND	ND	0.0021 J, P	ND	0.00076 J, P	ND	ND	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	(µg/L)	ND	ND	ND	0.0067 J, P	0.0037 B, J, P	0.004 J, P	0.0044 J, P	ND	0.0021 J, P	ND	ND	ND	ND	ND	ND	ND
72-20-8	Endrin	NS	(µg/L)	ND	ND	ND	0.0078 J, P	ND	0.0055 J, P	0.0029 J, P	ND	0.0056 J, P	ND	ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.0017 J, P	ND	0.0088 B, J, P	ND	ND	0.015 B, J, P	ND	ND
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	ND	ND	0.0037 J, P	0.0041 J, P	ND	0.0085 J	0.016 J, P	0.036 J, P	ND	ND	ND	ND	ND	ND	ND	ND
5103-74-2	gamma-Chlordane	0.05	(µg/L)	ND	ND	ND	ND	0.0047 J, P	0.0018 B, J, P	ND	0.0031 J, P	ND	ND	0.018 J, P	0.0075 J, P	ND	0.0092 J	ND	0.0048 B, J
76-44-8	Heptachlor	0.04	(µg/L)	ND	ND	ND	0.0047 J, P	0.0031 J, P	0.00072 J, P	0.0024 J, P	0.00069 J, P	ND	ND	0.0054 J, P	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	0.003 J, P	ND	0.0015 J, P	0.0017 J, P	0.0058 J	0.0023 B, J, P	0.0017 J, P	ND	0.002 J, P	0.0074 J	ND	ND	ND	ND
72-43-5	Methoxychlor	35	(µg/L)	ND	ND	ND	ND	ND	0.0061 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides				ND	ND	0.0188	0.0274	0.0156	0.04432	0.0531	0.04909	0.021	ND	0.0518	0.0668	ND	0.0308	ND	0.0048
PCBs																			
None Detected		All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INORGANICS																			
7429-90-5	Aluminum	NS	(µg/L)	114 B	2630	1100	503	634	499	1140	298	697 E	346	801	573	272	181 B	116 B	139 B
7440-36-0	Antimony	3	(µg/L)	ND	ND	ND	ND	2.9 B	2.5 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-38-2	Arsenic	25	(µg/L)	15.6	11.4	11.4	10.5	10.1	8.6 B	7.9 B	9	9.8 B	7.5 B	11.5	11.5	10.7	9.4 B	7 B	7.4 B
7440-39-3	Barium	1000	(µg/L)	171 B	324	156 B	114 B	109 B	139 B	167 B	204	148	172 B	193 B	158 B	187 B	169 B	166 B	165 B
7440-41-7	Beryllium	3 (G)	(µg/L)	1.8 B	0.17 B	0.2 B	ND	0.17 B	0.19 B	0.19 B	0.18 B	0.46	ND	0.24 B	0.21 B	0.14 B	ND	ND	ND
7440-43-9	Cadmium	5	(µg/L)	6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4 B	ND	ND	ND	ND	ND
7440-70-2	Calcium	NS	(µg/L)	196000	153000	51600	38500	36100	44900	59300	133000	53000	68700	62400	50300	94500	143000	170000	156000
7440-47-8	Chromium	50	(µg/L)	ND	23	8.9 B	8 B	9.8 B	25.4	20.7 E	13.9	14.1	15.6	19	15.4 E	5.8 B	3.7 B	2.6 B	7.1 B
7440-48-4	Cobalt	NS	(µg/L)	3 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8 B	ND	ND	ND	ND	ND
7440-50-8	Copper	200	(µg/L)	ND	13.1 B	13.4 B	17.5 B	14.1 B	12.9 B	15.8 B	9.1 B	15.4	10 B	16.8 B	17.2 B	11.3 B	6.7 B	ND	2.7 B
7439-89-6	Iron	300	(µg/L)	32800	24200	12800	10200	12200	13400	16800	24100	10200	12200	14900	14100	19100	25700	29600	27400
7439-92-1	Lead	25	(µg/L)	ND	7.7	6.7	6.3	6.6	4.6	7.8	2.3 B	8.3	4.2	8.2	7.7 N	3.8	2.8 B	ND	2.1 B
7439-95-4	Manganese	35000 (G)	(µg/L)	51800	41700	14600	10100	9220	11200	15700	34700	14300	19700	19500	13800	25300	35100	41000	37200
7439-96-5	Manganese	300	(µg/L)	226	259	189	160	197	213	249	203	162	178	231	212	188	198	202	213
7439-97-6	Mercury	0.7	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.12 B	ND	ND	ND	ND	ND	ND	ND	ND
7440-02-0	Nickel	100	(µg/L)	ND	12.8 B	4.9 B	4.6 B	4.3 B	12.4 B	9.7 B, E	4.5 B	5.5	6.7 B	8.6 B	4 B	ND	ND	ND	1.7 B
7440-09-7	Potassium	NS	(µg/L)	4220 B	8010	25100	28600	29300	41700	34700	17400	27800 E	22600	32700	34000	23100	12700	6010	10300
7782-49-2	Selenium	10	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2 B	1.6 B	ND	ND	3.2 B	3.1 B
7440-22-4	Silver	50	(µg/L)	ND	0.92 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-23-5	Sodium	200	(µg/L)	49800	47700	98000	108000	97600	102000	101000 E	76800	93400	85800	94700	95500 E	80500	70200	60500	66200
7440-28-0	Thallium	5 (G)	(µg/L)	13.5	3.9 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-62-2	Vanadium	NS	(µg/L)	ND	8.5 B	9.9 B	9.6 B	8.6 B	8.9 B	9.9 B, E	4.8 B	8.5 B	6.3 B	9.3 B	8.6 B	7.9 B	3.7 B	1.5 B	2.7 B
7440-66-6	Zinc	2000 (G)	(µg/L)	64.1	37.7	24.2	34.9	55.8	18.8 B	28.3	10 B	13.3 B	10.3 B	12.7	48.3	18.9 B	18.3 B	ND	21.2
57-12-5	Cyanide	200	(µg/L)	4.7 B	19.5	41.6	12.5	30	36	33.5	ND	36.8	23	38.7	ND	19.6	11	ND	ND
Total Inorganics				335,236	277,962	203,666	196,281	185,502	214,181	229,190	286,759	199,819	209,780	225,554	208,758	243,215	287,304	307,608	297,665

Notes:
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DO3 = Dilution required due to foaming



Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-5 0508042-002A OB 200508 Water 08/05/05	MW-5 0603100-004A LSL-BL 6030950 Water 03/22/06	MW-5 A7E98506 BM A07-E985 Water 12/26/07	MW-5 A8E30603 TA A08-E150 Water 11/10/08	MW-5 RSI0359-02 TA RSI0296 Water 09/10/09	MW-5 RTF0798-04 TA RTF0798 Water 06/10/10	MW-5 480-2185-4 TA 480-2185 Water 03/03/11	MW-5 480-14453-4 TA 480-14453 Water 12/23/11	MW-5 480-23574-2 TA 480-23574 Water 08/07/12	MW-5 480-38363-5 TA 480-38363 Water 05/15/13	MW-5 480-56775-5 TA 480-56775 Water 03/27/14	MW-5 480-70616-9 TA 480-70616 Water 11/03/14	MW-5 480-83528-8 TA 480-83528 Water 07/08/15	MW-5 480-101785-4 TA 480-101785 Water 06/16/16	MW-5 480-114997-2 TA 480-114997 Water 03/22/17	MW-5 480-125448-4 TA 480-125448 Water 10/05/17	MW-5 480-141984-5 TA 480-141984 Water 09/18/18	MW-5 480-155595-2 TA 480-155595 Water 06/26/19
CAS NO.	COMPOUND		UNITS:																		
VOLATILES																					
67-64-1	Acetone	50 (G)	(µg/L)	4	3	49	ND	ND	ND	ND	4.1 J	ND	ND	9.0 J	ND	10	8.3 J	ND	17 J	ND	14 J
71-43-2	Benzene	1	(µg/L)	47	33	ND	60	76	80 DO3	48	56	97	130	14	4.8 J	11	11	15	19	14	6.9
78-93-3	2-Butanone	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-00-3	Chloroethane	7	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
67-66-3	Chloroform	5	(µg/L)	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74-87-3	Chloromethane	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100-41-4	Ethylbenzene	5	(µg/L)	3	1	ND	3 J	4.4 J	ND	2.3	1.2	7.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	(µg/L)	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3 J	2.1 J	ND
100-42-5	Styrene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	5	(µg/L)	7	2	ND	5	5.6	3.7 DO3, J	1.4	2.3	11	7.4 J	ND	ND	ND	ND	ND	ND	ND	ND
1330-20-7	Xylene (total)	5	(µg/L)	9	4	8	10 J	16	12 DO3	7.9	6.2	29	27	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs				75	44	57	78	102	95.7	59.6	69.8	144.6	164.4	10.4	4.8	11.1	19.3	15	39.3	16.1	20.9
SEMIVOLATILES																					
117-81-7	bis(2-ethylhexyl)phthalate	5	(µg/L)	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	1	(µg/L)	5 J	2 J	ND	4 J	6.0	2.9 J	0.84 J	2.5 J	8.0	5.8 *	ND	ND	ND	ND	ND	ND	ND	ND
95-48-7	2-Methylphenol	1	(µg/L)	1 J	ND	0.7 J	0.7 J	1.4 J	ND	ND	0.49 J	2.3 J	1.2 J	ND	ND	ND	ND	ND	ND	ND	ND
106-44-5	4-Methylphenol	1	(µg/L)	1 J	ND	0.9 J	1 J	1.6 J	ND	ND	0.54 J	2.1 J	1.3 J	ND	ND	ND	ND	ND	ND	ND	ND
56-55-3	Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57 J B	ND	ND	ND	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.60 J B	ND	ND	ND	ND	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-68-7	Butyl benzyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.86 J B	ND	1.9 J B	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	1 J B	ND	ND	ND	ND	ND	0.36 J	ND	ND	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	ND	0.3 J B	1 J B	0.72 J	0.58 J	ND	1.3 J, B	ND	0.67 J B	0.31 J B	ND	ND	ND	ND	0.46 J	ND	ND
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.64 J B	ND	ND	ND	ND	ND	ND	ND	ND
91-20-3	Naphthalene	10 (G)	(µg/L)	ND	1 J	ND	11 B	23	17	7.9	ND	39	26 B	ND	ND	ND	ND	ND	ND	ND	ND
85-01-8	Phenathrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98 JB
108-95-2	Phenol	1	(µg/L)	ND	2 J	ND	0.8 J	ND	ND	ND	ND	ND	1.3 J	ND	ND	ND	ND	ND	ND	ND	ND
Total SVOCs				8	5	1.9	19.5	32.72	20.48	8.74	4.83	51.4	39.65	0.31	1.9	ND	ND	ND	0.46	ND	0.98

Notes:
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DO3 = Dilution required due to foaming
* = LCS or LCSD exceeds control limits



Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID:	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	
			Lab Sample ID:	0508042-002A	0603100-004A	A7E98506	A8E30603	RSI0359-02	RTF0798-04	480-2185-4	480-14453-4	480-23574-2	480-38363-5	480-56775-5	480-70616-9	480-83528-8	480-101785-4	480-114997-2	480-125448-4	480-141984-5	480-155595-2
			Source:	OB	LSL-BL	BM	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA
			SDG:	200508	6030950	A07-E985	A08-E150	RSI0296	RTF0798	480-2185	480-14453	480-23574	480-38363	480-56775	480-70616	480-83528	480-101785	480-114997	480-125448	480-141984	480-155595
		Matrix:	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	
		Sampled:	08/05/05	03/22/06	12/26/07	11/10/08	09/10/09	06/10/10	03/03/11	12/23/11	08/07/12	05/15/13	03/27/14	11/03/14	07/08/15	06/16/16	03/22/17	10/05/17	09/18/18	06/26/19	
CAS NO.	COMPOUND		UNITS:																		
PESTICIDES																					
309-00-2	Aldrin	NS	(µg/L)																		
319-84-6	alpha-BHC	0.01	(µg/L)																		
5103-71-9	alpha-Chlordane	0.05	(µg/L)																		
319-85-7	beta-BHC	0.04	(µg/L)																		
72-54-8	4,4'-DDD	0.3	(µg/L)																		
72-55-9	4,4'-DDE	0.2	(µg/L)																		
50-29-3	4,4'-DDT	0.2	(µg/L)																		
319-86-8	delta-BHC	0.04	(µg/L)																		
60-57-1	Dieldrin	0.004	(µg/L)																		
959-98-8	Endosulfan I	NS	(µg/L)																		
33213-65-9	Endosulfan II	NS	(µg/L)																		
1031-07-8	Endosulfan sulfate	NS	(µg/L)																		
72-20-8	Endrin	NS	(µg/L)																		
7421-93-4	Endrin aldehyde	5	(µg/L)																		
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)																		
5103-74-2	gamma-Chlordane	0.05	(µg/L)																		
76-44-8	Heptachlor	0.04	(µg/L)																		
1024-57-3	Heptachlor epoxide	0.03	(µg/L)																		
72-43-5	Methoxychlor	35	(µg/L)																		
Total Pesticides				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCBs																					
None Detected		All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total PCBs				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
INORGANICS																					
7429-90-5	Aluminum	NS	(µg/L)																		
7440-36-0	Antimony	3	(µg/L)																		
7440-38-2	Arsenic	25	(µg/L)																		
7440-39-3	Barium	1000	(µg/L)																		
7440-41-7	Beryllium	3 (G)	(µg/L)																		
7440-43-9	Cadmium	5	(µg/L)																		
7440-70-2	Calcium	NS	(µg/L)																		
7440-47-8	Chromium	50	(µg/L)																		
7440-48-4	Cobalt	NS	(µg/L)																		
7440-50-8	Copper	200	(µg/L)																		
7439-89-6	Iron	300	(µg/L)																		
7439-92-1	Lead	25	(µg/L)																		
7439-95-4	Magnesium	35000 (G)	(µg/L)																		
7439-96-5	Manganese	300	(µg/L)																		
7439-97-6	Mercury	0.7	(µg/L)																		
7440-02-0	Nickel	100	(µg/L)																		
7440-09-7	Potassium	NS	(µg/L)																		
7782-49-2	Selenium	10	(µg/L)																		
7440-22-4	Silver	50	(µg/L)																		
7440-23-5	Sodium	20000	(µg/L)																		
7440-28-0	Thallium	5 (G)	(µg/L)																		
7440-62-2	Vanadium	NS	(µg/L)																		
7440-66-6	Zinc	2000 (G)	(µg/L)																		
57-12-5	Cyanide	200	(µg/L)																		
Total Inorganics				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Notes:
NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.
NS = No Standard
(G) = Guidance Value
ND = Concentration was not detected at or above the reporting limit.
J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
B = Compound was found in the blank and sample.
DO3 = Dilution required due to foaming



Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-6 162137 Columbia MW1 Water 08/12/97	MW-6 G5189 OBG 5116 Water 11/20/97	MW-6 H1023 OBG 6857 Water 02/20/98	MW-6 H7533 OBG 7830 Water 05/29/98	MW-6 J8491 OBG 9596 Water 10/23/98	MW-6 M0298 OBG 1516 Water 04/21/99	MW-6 N4878 OBG 3856 Water 11/09/99	MW-6 Q4027 OBG 5512 Water 04/28/00	MW-6 R7179 OBG 7645 Water 12/14/00	MW-6 S7280 OBG 9259 Water 06/19/01	MW-6 T6911 OBG 739 Water 12/12/01	MW-6 V4636 OB 2494 Water 06/19/02	MW-6 Z7812 OB 4203 Water 12/18/02	MW-6 A7433 OB 5716 Water 06/24/03	MW-6 B4508 OB 6968 Water 12/18/03	MW-6 E1190 OB 6968 Water 06/09/04
CAS NO.	COMPOUND		UNITS:																
	VOLATILES																		
67-64-1	Acetone	50 (G)	(µg/L)	ND	ND	ND	ND	7 J, B	ND	ND	ND	3 J	5 J	ND	ND	4 J, B	ND	ND	2 J, B
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	4 J	6 J	7 J	ND	ND	ND	ND	ND	1 J	ND	ND
75-34-3	1,1-Dichloroethane	5	(µg/L)	ND	ND	ND	ND	ND	4 J	6 J	7 J	ND	ND	ND	ND	ND	1 J	ND	ND
75-09-2	Methylene chloride	5	(µg/L)	ND	ND	ND	ND	ND	1 J, B	ND	ND	ND	ND	1 J, B	ND	1 J, B	ND	ND	0.6 J, B
	Total VOCs			ND	ND	ND	ND	7	5	6	7	3	5	1	ND	5	1	ND	2.6
	SEMIVOLATILES																		
117-81-7	bis(2-ethylhexyl)phthalate	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	1 J	ND	3 J	1 J, B	ND	ND	ND	ND	4 J
86-55-3	Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-68-7	Butyl benzyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	(µg/L)	1 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-01-8	Phenathrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total SVOCs			1	ND	ND	ND	ND	ND	ND	1	ND	3	1	ND	ND	ND	ND	4

Notes:
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F2 = MS/MSD relative percent difference exceeds control limits.
* = LCS or LCSD is outside acceptance limits. ISTD response or retention time outside acceptance limits.



Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID:	MW-6 162137	MW-6 G5189	MW-6 H1023	MW-6 H7533	MW-6 J8491	MW-6 M0298	MW-6 N4878	MW-6 Q4027	MW-6 R7179	MW-6 S7280	MW-6 T6911	MW-6 V4636	MW-6 Z7812	MW-6 A7433	MW-6 B4508	MW-6 E1190
			Source:	Columbia	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OB	OB	OB	OB	OB
			SDG:	MW1	5116	6857	7830	9596	1516	3856	5512	7645	9259	739	2494	4203	5716	6968	6968
			Matrix:	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
			Sampled:	08/12/97	11/20/97	02/20/98	05/29/98	10/23/98	04/21/99	11/09/99	04/28/00	12/14/00	06/19/01	12/12/01	06/19/02	12/18/02	06/24/03	12/18/03	06/09/04
CAS NO.	COMPOUND		UNITS:																
PESTICIDES																			
309-00-2	Aldrin	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.012 J	0.0017 J, P	ND	ND	0.012 J, P	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	(µg/L)	ND	ND	ND	0.00061 B, J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	(µg/L)	ND	ND	ND	ND	0.00066 J, P	ND	ND	ND	ND	ND	0.0027 B, J	ND	ND	ND	ND	ND
50-29-3	4,4'-DDT	0.2	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0033 J, P	ND	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	(µg/L)	ND	ND	ND	ND	0.0021 J	ND	ND	0.0032 J, P	ND	ND	ND	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	(µg/L)	ND	ND	ND	ND	ND	0.0014 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	(µg/L)	ND	ND	ND	ND	0.0023 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0071 J, P
72-20-8	Endrin	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.00069 J, P	ND	ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01 B, J, P	ND	ND	0.0056 B, J	ND	ND
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	ND	ND	0.0032 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5103-74-2	gamma-Chlordane	0.05	(µg/L)	ND	ND	ND	0.0027 B, J, P	0.0021 J, P	0.0083 J, P	ND	0.0035 J, P	ND	ND	ND	ND	ND	ND	ND	0.0036 B, J, P
76-44-8	Heptachlor	0.04	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.0017 J, P	ND	ND	ND	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	ND	0.00052 B, J, P	ND	0.0027 J, P	ND	0.00066 B, J, P	0.00057 J, P	ND	ND	ND	ND	ND	ND	ND
Total Pesticides				ND	ND	0.0032	0.00383	0.00716	0.0124	ND	0.02106	0.00296	0.006	0.01	0.012	ND	0.0056	ND	0.0107
PCBs																			
None Detected		All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INORGANICS																			
7429-90-5	Aluminum	NS	(µg/L)	35.2 B	51.5 B	84.4 B	35.5 B	56.3 B	53.4 B	253	56.8 B	95.5 B, E	263	160 B	357	74.6 B	30.6 B	74 B	111 B
7440-28-0	Antimony	3	(µg/L)	ND	2.7 B	ND	ND	1.9 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-38-2	Arsenic	25	(µg/L)	8 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9 B	ND	ND	ND
7440-39-3	Barium	1000	(µg/L)	109 B	157 B	134 B	126 B	131 B	137 B	158 B	165 B	158 B	154 B	149 B	111 B	84 B	107 B	110 B	105 B
7440-41-7	Beryllium	3 (G)	(µg/L)	0.95 B	ND	0.07 B	ND	ND	ND	0.07 B	ND	0.29 B	ND	0.11 B	0.17 B	ND	ND	ND	ND
7440-43-9	Cadmium	5	(µg/L)	3 B	ND	ND	ND	0.53 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-70-2	Calcium	NS	(µg/L)	123000	168000	165000	166000	161000	159000	167000	252000	247000	254000	235000	235000	171000	148000	158000	154000
7440-47-8	Chromium	50	(µg/L)	ND	2.9 B	2.8 B	ND	4.9 B	3 B	3.9 B, E	7.6 B	6.8 B	6.1 B	6.8 B	4.1 B, E	3.4 B	2.1 B	2.6 B	2.5 B
7440-50-8	Copper	200	(µg/L)	ND	0.97 B	1.1 B	ND	1.3 B	ND	0.83 B	ND	ND	1.8 B	ND	2.3 B	ND	ND	ND	ND
7439-89-6	Iron	300	(µg/L)	14600	20700	22400	21600	18100	17500	19600	33100	46900	66600	54000	46700	36100	27000	26600	24500
7439-92-1	Lead	25	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	2.9 B	ND	1.6 B	ND	ND	ND	ND	0.69 B
7439-95-4	Magnesium	35000 (G)	(µg/L)	24900	25600	25700	24400	19500	16400	17800	36000	49200	61500	49500	53600	44400	35600	36900	34500
7439-96-5	Manganese	300	(µg/L)	1010	1420	1590	1610	1150	1220	1470	2100	3310	4620	4190	2900	2000	1530	1420	1300
7440-02-0	Nickel	100	(µg/L)	ND	0.71 B	ND	ND	ND	ND	1.3 B, E	ND	ND	ND	1.4 B	ND	ND	ND	ND	ND
7440-09-7	Potassium	NS	(µg/L)	12300	22900	23100	25600	36900	54100	57900	56600	32800 E	31300	51800	22500	17200	14600	13200	12300
7782-49-2	Selenium	10	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7 B	ND	ND	ND	ND	2.7 B	ND
7440-22-4	Silver	50	(µg/L)	1.5 B	0.64 B	0.75 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-23-5	Sodium	20000	(µg/L)	28700	35900	36300	33600	32800	36500	43500 E	58300	62400	70000	66400	55400 E	44900	35300	35000	33700
7440-28-0	Thallium	5 (G)	(µg/L)	ND	6 B	6.2 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-62-2	Vanadium	NS	(µg/L)	ND	1.1 B	1.3 B	1.4 B	ND	1.4 B	1.4 B, E	0.66 B, J, P	1 B	1.6 B	1.8 B	ND	2.1 B	1.2 B	ND	ND
7440-66-6	Zinc	2000 (G)	(µg/L)	48.8	4.8 B	11.7 B	1.9 B	7.4 B	7.5 B	41.6	3.3	2.2 B	8.6 B	5.6 B	270	1.3 B	15.4 B	3.3 B	9.8 B
57-12-5	Cyanide	200	(µg/L)	5.5	20.7	ND	ND	ND	ND	ND	23	11.7	12	ND	ND	15.7	8.3 B	10.6	ND
Total Inorganics				204,722	274,769	274,332	272,975	269,653	284,922	307,730	438,356	441,888	488,470	461,216	416,845	315,783	262,195	271,323	260,529

Notes:
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F2 = MS/MSD relative percent difference exceeds control limits.
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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-6 0508015-003A	MW-6 0603108-002A	MW-6 A7E98507	MW-6 A8E30604	MW-6 RSI0312-06	MW-6 RTF0798-05	MW-6 480-2185-5	MW-6 480-14453-5	MW-6 480-23574-3	MW-6 480-38363-6	MW-6 480-56775-6	MW-6 480-70616-3	MW-6 480-83521-2	MW-6 480-101785-1	MW-6 480-114997-3	MW-6 480-125448-5	MW-6 480-141984-6	MW-6 480-155595-3	DUP (MW-6) 480-155595-10
CAS NO.	COMPOUND		UNITS:																			
	VOLATILES																					
67-64-1	Acetone	50 (G)	(µg/L)	3 J, B	2 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.0 J	3.6 J	ND	ND
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-34-3	1,1-Dichloroethane	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	(µg/L)	0.7 J, B	0.8 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total VOCs			3.7	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.0	3.6	ND	ND
	SEMIVOLATILES																					
117-81-7	bis(2-ethylhexyl)phthalate	5	(µg/L)	ND	ND	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56-55-3	Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.75 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.70 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.51 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-68-7	Butyl benzyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94 J B	ND	ND	ND	ND	ND F2	ND	ND	ND	ND
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	1 J B	ND	ND	ND	ND	ND	0.34 J	ND	ND	ND	ND	ND F2	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	ND	0.4 J, B	0.7 J	ND	0.45 J	0.43 J	0.98 J, B	ND	0.75 J B	0.39 J B	ND	ND	ND	ND F2	0.38 J	ND	ND	ND
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.85 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-01-8	Phenathrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 JB	0.98 JB
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.38 J	ND	ND	ND	ND	ND F2	ND	ND	ND	ND
	Total SVOCs			ND	ND	17.4	0.3	ND	0.45	0.43	0.98	ND	6.35	0.39	ND	ND	ND	ND	0.38	ND	1.1	0.98

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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-6 0508015-003A OB 200508 Water 08/01/05	MW-6 0603108-002A LSL-BL 6030950 Water 03/23/06	MW-6 A7E98507 TA A07-E985 Water 12/26/07	MW-6 A8E30604 TA A08-E150 Water 11/10/08	MW-6 RSI0312-06 TA RSI0296 Water 09/09/09	MW-6 RTF0798-05 TA RTF0798 Water 06/10/10	MW-6 480-2185-5 TA 480-2185 Water 03/03/11	MW-6 480-14453-5 TA 480-14453 Water 12/23/11	MW-6 480-23574-3 TA 480-23574 Water 08/07/12	MW-6 480-38363-6 TA 480-38363 Water 05/15/13	MW-6 480-56775-6 TA 480-56775 Water 03/27/14	MW-6 480-70616-3 TA 480-70616 Water 11/03/14	MW-6 480-83521-2 TA 480-83528 Water 07/08/15	MW-6 480-101785-1 TA 480-101785 Water 06/16/16	MW-6 480-114997-3 TA 480-114997 Water 03/22/17	MW-6 480-125448-5 TA 480-125448 Water 10/05/17	MW-6 480-141984-6 TA 480-141984 Water 09/18/18	MW-6 480-155595-3 MS/MSD TA 480-155595 Water 06/26/19	DUP (MW-6) MS/MSD TA 480-155595-10 Water 06/26/19
CAS NO.	COMPOUND		UNITS:																			
PESTICIDES																						
309-00-2	Aldrin	NS	(µg/L)																			
319-84-6	alpha-BHC	0.1	(µg/L)																			
72-55-9	4,4'-DDE	0.2	(µg/L)																			
50-29-3	4,4'-DDT	0.2	(µg/L)																			
60-57-1	Dieldrin	0.004	(µg/L)																			
959-98-8	Endosulfan I	NS	(µg/L)																			
1031-07-8	Endosulfan sulfate	NS	(µg/L)																			
72-20-8	Endrin	NS	(µg/L)																			
7421-93-4	Endrin aldehyde	NS	(µg/L)																			
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)																			
5103-74-2	gamma-Chlordane	0.05	(µg/L)																			
76-44-8	Heptachlor	0.04	(µg/L)																			
1024-57-3	Heptachlor epoxide	0.03	(µg/L)																			
Total Pesticides				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																						
None Detected		All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INORGANICS																						
7429-90-5	Aluminum	NS	(µg/L)																			
7440-38-0	Antimony	3	(µg/L)																			
7440-38-2	Arsenic	25	(µg/L)																			
7440-39-3	Barium	1000	(µg/L)																			
7440-41-7	Beryllium	3 (G)	(µg/L)																			
7440-43-9	Cadmium	5	(µg/L)																			
7440-70-2	Calcium	NS	(µg/L)																			
7440-47-8	Chromium	50	(µg/L)																			
7440-50-8	Copper	200	(µg/L)																			
7439-89-6	Iron	300	(µg/L)																			
7439-92-1	Lead	25	(µg/L)																			
7439-95-4	Magnesium	3500 (G)	(µg/L)																			
7439-96-5	Manganese	300	(µg/L)																			
7440-02-0	Nickel	100	(µg/L)																			
7440-09-7	Potassium	NS	(µg/L)																			
7782-49-2	Selenium	10	(µg/L)																			
7440-22-4	Silver	50	(µg/L)																			
7440-23-5	Sodium	20000	(µg/L)																			
7440-28-0	Thallium	5 (G)	(µg/L)																			
7440-62-2	Vanadium	NS	(µg/L)																			
7440-66-6	Zinc	2000 (G)	(µg/L)																			
57-12-5	Cyanide	200	(µg/L)																			
Total Inorganics				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.
NS = No Standard
(G) = Guidance Value
ND = Concentration was not detected at or above the reporting limit.
J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
B = Compound was found in the blank and sample.
F2 = MS/MSD relative percent difference exceeds control limits.
* = LCS or LCSD is outside acceptance limits. ISTD response or retention time outside acceptance limits.

Monitoring Well Historically Detected Compounds

Notes:
 NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
 Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.
 NS = No Standard
 (G) = Guidance Value
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 B = Compound was found in the blank and sample.



Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	MW-7 162138 Columbia MW1 Water 08/12/97	MW-7 G5190 OBG 5116 Water 11/20/97	MW-7 H1024 OBG 6857 Water 02/20/98	MW-7 H7534 OBG 7830 Water 05/29/98	MW-7 J8492 OBG 9596 Water 10/23/98	MW-7 M0299 OBG 1516 Water 04/21/99	MW-7 N4879 OBG 3856 Water 11/09/99	MW-7 O4029 OBG 5512 Water 04/28/00	MW-7 R7151 OBG 7645 Water 12/13/00	MW-7 S7277 OBG 9259 Water 06/18/01	MW-7 T6913 OBG 739 Water 12/12/01	MW-7 V4634 OB 2494 Water 06/19/02	MW-7 Z9833 OB 4203 Water 12/19/02	MW-7 A7552 OB 5716 Water 06/25/03	MW-7 B4509 OB 6968 Water 12/18/03	MW-7 E1192 OB 6968 Water 06/09/04
CAS NO.	COMPOUND		UNITS:																
PESTICIDES																			
309-00-2	Aldrin	ND	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011 J, P	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	(µg/L)	ND	ND	ND	0.00044 B, J, P	ND	0.0061 B, J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
319-86-8	delta-BHC	0.04	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.00061 B, J, P	ND	ND	ND	ND	ND	ND	ND
72-54-8	4,4'-DDD	0.3	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.003 J, P	ND	ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003 B, J, P	ND	ND	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0027 J	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	(µg/L)	ND	ND	ND	ND	ND	0.0012 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33213-65-9	Endosulfan II	NS	(µg/L)	ND	ND	ND	0.00072 B, J, P	ND	ND	ND	ND	0.00089 J, P	ND	ND	ND	ND	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	(µg/L)	ND	ND	0.0033 J, P	ND	ND	ND	ND	ND	0.1 J, P	ND	ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.021 B, J	ND	ND	0.004 B, J	ND	ND
53494-70-5	Endrin ketone	5	(µg/L)	ND	ND	ND	ND	0.0013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	ND	ND	0.0055 J	0.00091 J, P	ND	ND	0.012 J, P	0.0029 J, P	ND	ND	0.0039 J	ND	ND	ND	ND	ND
5103-74-2	gamma-Chlordane	0.05	(µg/L)	ND	ND	ND	0.0042 B, J, P	0.0037	0.008 J, P	ND	0.0042 J, P	ND	ND	ND	ND	ND	ND	ND	0.0024 B, J, P
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	ND	ND	ND	0.0048 J	ND	0.0018 B, J, P	ND	ND	ND	ND	ND	ND	ND	ND
72-43-5	Methoxychlor	35	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.044 B, J, P	ND	ND	ND	ND	ND	ND	ND
Total Pesticides				ND	ND	0.0088	0.00627	0.005	0.0201	0.012	0.0089	0.1485	0.003	0.0276	0.011	ND	0.004	ND	0.0024
PCBs																			
	PCB-1242	All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INORGANICS																			
7429-90-5	Aluminum	NS	(µg/L)	122	24900	1540	398	189 B	316	711	1730	544 E	79.1 B	265	582	304	315	224	329
7440-36-0	Antimony	3	(µg/L)	ND	8.6 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-38-2	Arsenic	25	(µg/L)	24.2	52.2	ND	ND	ND	ND	ND	14	6.4 B	15.5	25	19.9	21.3	15.8	20.9	16.8
7440-39-3	Barium	100	(µg/L)	246	637	543	612	616	575	614	626	538	374	388	375	369	360	348	362
7440-41-7	Beryllium	3 (G)	(µg/L)	1.2 B	1.8 B	0.13 B	ND	ND	ND	0.26 B	0.19 B	0.33 B	ND	0.11 B	0.22 B	ND	ND	ND	ND
7440-43-9	Cadmium	5	(µg/L)	4 B	1.1 B	ND	ND	ND	ND	ND	ND	ND	ND	0.62 B	ND	ND	ND	ND	ND
7440-70-2	Calcium	NS	(µg/L)	60800	214000	104000	106000	103000	110000	111000	120000	125000	107000	112000	112000	112000	109000	108000	114000
7440-47-8	Chromium	50	(µg/L)	ND	77.2	7.4 B	ND	6.3 B	8.5 B	7.4 B, E	16.8	12.2	6.6 B	8.7 B	4.6 B, E	11.5	5.7 B	ND	4.9 B
7440-48-4	Cobalt	NS	(µg/L)	ND	17.6 B	ND	ND	ND	ND	ND	1.7 B	ND	ND	1.5 B	ND	ND	ND	ND	ND
7440-50-8	Copper	200	(µg/L)	ND	56	3.2 B	1.3 B	2.2 B	2.7 B	3.3 B	4.7 B	2.4 B	ND	ND	ND	ND	0.9 B	ND	ND
7439-89-6	Iron	300	(µg/L)	17900	75100	13100	11200	11200	12300	14300	27200	17700	25100	30700	26500	26300	22800	23900	23200
7439-92-1	Lead	25	(µg/L)	ND	53.2	ND	ND	ND	ND	ND	3 B	2.6 B	ND	ND	ND	ND	ND	ND	0.8 B
7439-95-4	Magnesium	35000 (G)	(µg/L)	7880	41900	21100	20800	21400	22000	22600	190000	21000	14800	13700	14200	13100	13600	12200	13200
7439-96-5	Manganese	300	(µg/L)	226	1790	177	126	121	149	170	382	246	292	344	298	302	282	277	287
7440-02-0	Nickel	100	(µg/L)	ND	54.8	2.7 B	2 B	1.4 B	3.5 B	4.5 B, E	8.1 B	4.4 B	2.6 B	4 B	ND	4.3 B	1.7 B	ND	2.5 B
7440-09-7	Potassium	NS	(µg/L)	8780	6220	2170 B	2310 B	1200 B	2170 B	2440 B	9540	5770 E	13100	16700	13000	12600	10700	12000	11200
7782-49-2	Selenium	10	(µg/L)	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 B	ND
7440-22-4	Silver	50	(µg/L)	1.4 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-23-5	Sodium	20000	(µg/L)	22800	26100	22300	20900	22100	23700	25700 E	27000	22900	23500	24800	27800 E	27200	26700	27700	28900
7440-28-0	Thallium	5 (G)	(µg/L)	ND	6.9 B	3.6 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-62-2	Vanadium	NS	(µg/L)	ND	42.5 B	3.4 B	1.8 B	ND	1.4 B	2.2 B, E	4.3 B	1.6 B	1.2 B	1.7 B	1.4 B	1.8 B	1.4 B	ND	ND
7440-66-6	Zinc	2000 (G)	(µg/L)	62.7	307	15.1 B	13.4 B	23.2	18.2 B	18.3 B	45.4	13.1 B	10 B	20.2	12.2 B	20.4	31.6	1.8 B	38.1
57-12-5	Cyanide	200	(µg/L)	7.4	31	13	ND	ND	ND	ND	ND	ND	ND	10.2	ND	11.8	14.4	13.4	ND
Total Inorganics				118,854.90	391,361.90	164,978.53	162,364.50	159,859.10	171,244.30	177,570.96	376,576.19	193,741.03	184,281.00	198,969.03	194,793.32	189,246.10	183,828.50	184,688.10	191,541.10

Notes:
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Monitoring Well Historically Detected Compunds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID:	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7
			Lab Sample ID:	050801S-001A	0603108-002A	A7E98508	A8E15004	RSI0312-05	RTF0798-06	480-2185-6	480-14453-6	480-23574-4	480-38363-7	480-56775-7	480-70616-4	480-83528-4	480-101785-3	Not Sampled	Not Sampled	480-141984-7
			Source:	OB	LSL-BL	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA
			SDG:	200508	6030950	A07-E985	A08-E150	RSI0296	RTF0798	480-2185	480-14453	480-23574	480-38363	480-56775	480-70616	480-83528	480-101785	Water	Water	480-141984
			Matrix:	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
			Sampled:	08/01/05	03/23/06	12/26/07	11/06/08	09/09/09	06/10/10	03/03/11	12/23/11	08/07/12	05/15/13	03/27/14	11/03/14	07/08/15	06/16/16	03/22/17	10/05/17	09/19/18
CAS NO.	COMPOUND		UNITS:																	
VOLATILES																				
67-64-1	Acetone	50 (G)	(µg/L)	4 J, B	2 J, B	ND	ND	ND	ND	ND	ND	ND	ND	3.4 J	ND	ND	ND			ND
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
75-09-2	Methylene chloride	5	(µg/L)	2 J, B	1 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
127-18-4	Tetrachloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
1330-20-7	Xylene (total)	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
Total VOCs				6	3	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	ND	ND	NA	NA	ND
SEMIVOLATILES																				
56-55-3	Benzo[a]anthracene	20 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0 J B	ND	ND	ND	ND			ND
50-32-8	Benzo[a]pyrene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.61 J	ND	ND	ND	ND			ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0 J B	ND	ND	ND	ND			ND
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.73 J	ND	ND	ND	ND			ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	ND	ND	ND	ND			ND
117-81-7	bis(2-ethylhexyl)phthalate	5	(µg/L)	ND	ND	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
85-68-7	Butyl benzyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4 J B	ND	ND	ND	ND			ND
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45 J	ND	ND	ND	ND			ND
84-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	ND	0.4 J, B	0.3 J	ND	ND	0.41 J	1.0 J, B	ND	0.91 J B	ND	ND	ND	ND			ND
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 J B	ND	ND	ND	ND			ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44 J	ND	ND	ND	ND			ND
105-67-9	2,4-Dimethylphenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
206-44-0	Fluoranthene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.55 J	ND	ND	ND	ND			ND
95-48-7	2-Methylphenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
106-44-5	4-Methylphenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
91-20-3	Naphthalene	10 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
108-95-2	Phenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56 J	ND	ND	ND	ND			ND
Total SVOCs				ND	ND	37.4	0.3	ND	ND	0.41	1.0	ND	9.61	ND	ND	ND	ND	NA	NA	ND

Notes:
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Appendix B-2

Monitoring Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID:	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7
			Lab Sample ID:	050801S-001A	0603108-002A	A7E98508	A8E15004	RSI0312-05	RTF0798-06	480-2185-6	480-14453-6	480-23574-4	480-38363-7	480-56775-7	480-70616-4	480-83528-4	480-101785-3	Not Sampled	Not Sampled	480-141984-7
			Source:	OB	LSL-BL	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	Not Sampled	Not Sampled	TA
			SDG:	200508	6030950	A07-E985	A08-E150	RSI0296	RTF0798	480-2185	480-14453	480-23574	480-38363	480-56775	480-70616	480-83528	480-101785	Not Sampled	Not Sampled	480-141984
			Matrix:	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
			Sampled:	08/01/05	03/23/06	12/26/07	11/06/08	09/09/09	06/10/10	03/03/11	12/23/11	08/07/12	05/15/13	03/27/14	11/03/14	07/08/15	06/16/16	03/22/17	10/05/17	09/19/18
CAS NO.	COMPOUND		UNITS:																	
PESTICIDES																				
309-00-2	Aldrin	ND	(µg/L)																	
319-84-6	alpha-BHC	0.01	(µg/L)																	
319-86-8	delta-BHC	0.04	(µg/L)																	
72-54-8	4,4'-DDD	0.3	(µg/L)																	
72-55-9	4,4'-DDE	0.2	(µg/L)																	
60-57-1	Dieldrin	0.004	(µg/L)																	
959-98-8	Endosulfan I	NS	(µg/L)																	
33213-65-9	Endosulfan II	NS	(µg/L)																	
1031-07-8	Endosulfan sulfate	NS	(µg/L)																	
7421-93-4	Endrin aldehyde	5	(µg/L)																	
53494-70-5	Endrin ketone	5	(µg/L)																	
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)																	
5103-74-2	gamma-Chlordane	0.05	(µg/L)																	
1024-57-3	Heptachlor epoxide	0.03	(µg/L)																	
72-43-5	Methoxychlor	35	(µg/L)																	
Total Pesticides				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																				
	PCB-1242	All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND			ND
Total PCBs				ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	NA	NA	ND
INORGANICS																				
7429-90-5	Aluminum	NS	(µg/L)																	
7440-36-0	Antimony	3	(µg/L)																	
7440-38-2	Arsenic	25	(µg/L)																	
7440-39-3	Barium	1000	(µg/L)																	
7440-41-7	Beryllium	3 (G)	(µg/L)																	
7440-43-9	Cadmium	5	(µg/L)																	
7440-70-2	Calcium	NS	(µg/L)																	
7440-47-8	Chromium	50	(µg/L)																	
7440-48-4	Cobalt	NS	(µg/L)																	
7440-50-8	Copper	200	(µg/L)																	
7439-89-6	Iron	300	(µg/L)																	
7439-92-1	Lead	25	(µg/L)																	
7439-95-4	Magnesium	35000 (G)	(µg/L)																	
7439-96-5	Manganese	300	(µg/L)																	
7440-02-0	Nickel	100	(µg/L)																	
7440-09-7	Potassium	NS	(µg/L)																	
7782-49-2	Selenium	10	(µg/L)																	
7440-22-4	Silver	50	(µg/L)																	
7440-23-5	Sodium	20000	(µg/L)																	
7440-28-0	Thallium	5 (G)	(µg/L)																	
7440-62-2	Vanadium	NS	(µg/L)																	
7440-66-6	Zinc	2000 (G)	(µg/L)																	
57-12-5	Cyanide	200	(µg/L)																	
Total Inorganics				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.
NS = No Standard
(G) = Guidance Value
ND = Concentration was not detected at or above the reporting limit.
J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
B = Compound was found in the blank and sample.



Appendix B-2

Former Recovery Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	RW-4 0508082-002A OB 200508 Water 08/11/05	RW-4 0603110-002A LSL-BL 6030950 Water 03/24/06	RW-4 A7E98509 TA A07-E985 Water 12/27/07	RW-4 A8E15005 TA A08-E150 Water 11/05/08	RW-4 RSI0296-01 TA RSI0296 Water 09/08/09	RW-4 RTF0903-02 TA RTF0798 Water 06/14/10	RW-4 480-2185-8 TA 480-2185 Water 03/03/11	RW-4 480-14402-1 TA 480-14402 Water 12/22/11	RW-4 480-23574-5 TA 480-23574 Water 08/07/12	RW-4 480-38452-6 TA 480-38452 Water 05/16/13	RW-4 480-56862-6 TA 480-56862 Water 03/28/14	RW-4 480-70664-1 TA 480-70664 Water 11/04/14	RW-4 480-83621-2 TA 480-83621 Water 07/09/15	RW-4 480-101880-1 TA 480-101880 Water 06/17/16	RW-4 480-114997-9 TA 480-114997 Water 03/23/17	RW-4 480-125448-7 TA 480-125448 Water 10/05/17	RW-4 480-141984-8 TA 480-141984 Water 09/19/18	RW-4 480-155595-4 TA 480-155595 Water 06/27/19
CAS NO.	COMPOUND		UNITS:																		
VOLATILES																					
67-64-1	Acetone	50 (G)	(µg/L)	5 J, B	1 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1 J	6.2 J	ND
71-43-2	Benzene	1	(µg/L)	4 J	ND	ND	ND	ND	ND	ND	9.9	6.5	13	1.3	14	0.60 J	ND	ND	ND	ND	6.0
75-15-0	Carbon Disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.52 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
156-59-2	cis-1,2-Dichloroethene	5	(µg/L)	0.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND
100-41-4	Ethylbenzene	5	(µg/L)	0.7 J	ND	ND	ND	ND	ND	ND	1.5	1.6	5.7	3.9	10	1.6	1.6	1.7	ND	ND	ND
75-09-2	Methylene chloride	5	(µg/L)	0.9 J B	0.9 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 J	ND
100-42-5	Styrene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	5	(µg/L)	1 J	ND	ND	ND	ND	ND	ND	0.82 J	0.55 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
1330-20-7	Xylenes, Total	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	1.2 J	3.3	4.4	5.7	2.0	ND	ND	ND	ND	ND	ND
Total VOCs				12.3	1.9	ND	ND	ND	ND	ND	13.94	11.95	23.1	10.9	26	2.2	1.6	1.7	3.1	7.5	6
SEMIVOLATILES																					
120-12-7	Anthracene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66 J	0.78 J	ND	ND	ND	ND	ND	ND
83-32-9	Acenaphthene	20 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.49 J	ND	0.45 J	ND
208-96-8	Acenaphthylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.49 J	0.61 J	0.70 J	0.46 J	ND	ND	ND	ND	ND
56-55-3	Benzo(a)anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50-32-8	Benzo(a)pyrene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
205-99-2	Benzo(b)fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
191-24-2	Benzo(g,h,i)perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101-55-3	4-Bromophenyl phenyl ether	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-81-7	Bis(2-ethylhexyl)phthalate	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-68-7	Butyl benzyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86-74-8	Carbazole	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND *	ND	ND
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
53-70-3	Dibenz(a,h)anthracene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41 J	0.27 J	0.29 J	0.70 J	0.77 J	ND	0.26 J
81-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	2 J	ND	ND	ND	ND	0.37 J	ND	ND	0.29 J	0.48 J B	ND	ND	ND	0.39 J	1.2 J	ND	ND
117-84-0	Di-n-octyl-phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
95-50-1	1,2-Dichlorobenzene	3	(µg/L)	ND	ND	ND	0.5 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
541-73-1	1,3-Dichlorobenzene	3	(µg/L)	ND	ND	ND	0.6 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	3	(µg/L)	ND	ND	ND	0.5 J B	ND	ND	ND	0.34 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
193-39-5	Ideno(1,2,3-cd)pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100-02-7	4-Nitrophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91-20-3	Naphthalene	10 (G)	(µg/L)	7 J	ND	ND	0.2 J B	ND	ND	ND	3.2 J	5.8	ND	0.88 J	ND	ND	ND	ND	ND	ND	ND
85-01-8	Phenanthrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 JB
108-95-2	Phenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57 J	ND	ND	ND	ND	ND	ND	ND	ND
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
120-82-1	1,2,4-Trichlorobenzene	5	(µg/L)	ND	ND	ND	0.3 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total SVOCs				7	2	ND	0.7	ND	ND	0.37	3.54	5.8	1.35	2.63	1.89	0.73	0.29	1.58	1.97	0.45	1.36
PCBs																					
None detected				All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.
NS = No Standard
(G) = Guidance Value
ND = Concentration was not detected at or above the reporting limit.
J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
B = Compound was found in the blank and sample.
* = LCS or LCSD is outside acceptance limits. ISTD response or retention time outside acceptance limits.



Appendix B-2

Former Recovery Well Historically Detected Compounds

Cherry Farm Groundwater Analytical Data Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	RW-5 0508092-001A OB 200508 Water 08/11/05	RW-5 0603110-001A LSL-BL 6030950 Water 03/24/06	RW-5 A7E985010 TA A07-E985 Water 12/27/07	RW-5 A8E15006 TA A08-E150 Water 11/05/08	RW-5 RSI0296-05 TA RSI0296 Water 09/08/09	RW-5 RTF0903-03 TA RTF0798 Water 06/14/10	RW-5 480-2185-9 TA 480-2185 Water 03/03/11	RW-5 480-14402-2 TA 480-14402 Water 12/22/11	RW-5 480-23574-6 TA 480-23574 Water 08/07/12	RW-5 480-38452-7 TA 480-38452 Water 05/16/13	RW-5 480-56862-7 TA 480-56862 Water 03/28/14	RW-5 480-70664-2 TA 480-70664 Water 11/04/14	RW-5 480-83621-3 TA 480-83621 Water 07/09/15	RW-5 480-101880-2 TA 480-101880 Water 06/17/16	RW-5 480-114997-10 TA 480-114997 Water 03/23/17	RW-5 480-125448-8 TA 480-125448 Water 10/05/17	RW-5 480-141984-9 TA 480-141984 Water 09/18/18	RW-5 480-155595-5 TA 480-155595 Water 06/27/19
CAS NO.	COMPOUND		UNITS:																		
VOLATILES																					
67-64-1	Acetone	50 (G)	(µg/L)	5 J B	2 J B	ND	ND	2.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
71-43-2	Benzene	1	(µg/L)	25	ND	ND	ND	1.8	0.89 J	ND	ND	41	ND	ND	4.4	ND	ND	ND	ND	ND F1 F2	ND
75-15-0	Carbon Disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.56 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND F2	ND
156-59-2	cis-1,2-Dichloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
100-41-4	Ethylbenzene	5	(µg/L)	12	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND F2	ND
75-09-2	Methylene chloride	5	(µg/L)	1 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND F2	ND
100-42-5	Styrene	5	(µg/L)	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	5	(µg/L)	15	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND F2	ND
1330-20-7	Xylenes, Total	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	24	ND	ND	ND	ND	ND	ND	ND	ND F2	ND
Total VOCs				68	2	ND	ND	4.6	0.89	ND	0.56	81.5	ND	ND	4.4	ND	ND	ND	ND	ND	ND
SEMIVOLATILES																					
120-12-7	Anthracene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.64 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37 J
208-96-8	Acenaphthylene	NS	(µg/L)	5 J	ND	ND	ND	ND	ND	ND	ND	0.77 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
56-55-3	Benzo(a)anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.72 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50-32-8	Benzo(a)pyrene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.48 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
205-99-2	Benzo(b)fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.54 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
191-24-2	Benzo(g,h,i)perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.57 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
101-55-3	4-Bromophenyl phenyl ether	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.63 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-81-7	Bis(2-ethylhexyl)phthalate	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	3.2 J	ND	ND	ND	3.8 J	ND	ND	ND	ND	ND	ND
85-68-7	Butyl benzyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	3.4 J	ND	ND	0.52 J B	1.2 J B	ND	ND	ND	ND	ND	ND
86-74-8	Carbazole	NS	(µg/L)	2 J	ND	ND	ND	ND	ND	ND	0.34 J	ND	ND	ND	ND	ND	ND	ND	ND *	ND	ND
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.62 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
53-70-3	Dibenz(a,h)anthracene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.53 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26 J	ND	ND	ND	ND	0.26 J	ND	ND
105-67-9	2,4-Dimethylphenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0 J
81-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	ND	ND	0.3 J	ND	ND	0.34 J	0.83 J	ND	0.41 J	ND	0.37 J	ND	ND	0.31 J	0.39 J	ND	ND
117-84-0	Di-n-octyl-phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	3.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
95-50-1	1,2-Dichlorobenzene	3	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
541-73-1	1,3-Dichlorobenzene	3	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	3	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.69 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
193-39-5	Ideno(1,2,3-cd)pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.55 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	NS	(µg/L)	8 J	ND	ND	ND	ND	ND	ND	ND	1.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
100-02-7	4-Nitrophenol	1	(µg/L)	3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91-20-3	Naphthalene	10 (G)	(µg/L)	430 E	ND	ND	ND	ND	ND	ND	ND	8.8	ND	ND	15	ND	1.3 J	ND	ND	3.4 J	ND
85-01-8	Phenanthrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.89 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 JB
108-95-2	Phenol	1	(µg/L)	3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.76 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
120-82-1	1,2,4-Trichlorobenzene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total SVOCs				451	ND	ND	0.3	ND	ND	0.34	18.39	11.27	0.41	0.78	20.37	ND	1.3	0.31	0.65	3.4	2.47
PCBs																					
None detected		All PCBs <0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.
NS = No Standard
(G) = Guidance Value
ND = Concentration was not detected at or above the reporting limit.
J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
B = Compound was found in the blank and sample.
E = Concentration exceeds method limit.
F1 = MS and/or MSD Recovery is outside acceptance limits.
F2 = MS/MSD RPD exceeds control limits.



Appendix B-3 – Historically Detected Compounds (Sumps, 1997-2019)



Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	S-1 G5093	S-1 H0918	S-1 H7400	S-1 J8341	S-1 M0193	S-1 N4877	S-1NAPL A9751104	S-1 Q3849	S-1 R7180	S-1 S7322	S-1 T7106	S-1 V4632	S-1 Z7813	S-1 A7429	S-1 B4467	S-1 E1135	S-1 0508015-006A
Historically Detected Compounds				OBG 5116 Water 11/20/1997	OBG 6847 Water 2/18/1998	OBG 7810 Water 5/28/1998	OBG 9571 Water 10/21/1998	OBG 1489 Water 4/20/1999	OBG 3856 Water 11/9/1999	OBG 11090 Water 11/9/1999	OBG 5490 Water 4/26/2000	OBG 7645 Water 12/14/2000	OBG 9270 Water 6/20/2001	OBG 764 Water 12/13/2001	OB 2494 Water 6/19/2002	OB 4203 Water 12/18/2002	OB 5716 Water 6/24/2003	OB 6968 Water 12/18/2003	OB 6968 Water 6/8/2004	OB 200508 Water 8/2/2005
CAS NO.	COMPOUND		UNITS:																	
VOLATILES		50 (G)	(µg/L)																	
67-64-1	Acetone	50 (G)	(µg/L)	7 J	4 J	9 J	10 J	13	7 J		7 J	5 J	12	4 J	ND	6 J, B	6 J	ND	10 J, B	5 J, B
71-43-2	Benzene	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 J	ND	ND	2 J	ND	ND	2 J	ND
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	7 J	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND
108-90-7	Chlorobenzene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8 J	ND	ND	0.6 J	0.7 J
75-00-3	Chloroethane	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND
74-87-3	Chloromethane	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND
75-34-3	1,1-Dichloroethane	5	(µg/L)	2 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
156-59-2	cis-1,2-Dichloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
540-59-0	1,2-Dichloroethene (total)	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108-10-1	4-Methyl-2-pentanone	NS	(µg/L)	3 J	2 J	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6 J	ND
75-09-2	Methylene chloride	5	(µg/L)	ND	ND	ND	2 J	ND	ND	ND	ND	ND	1 J	0.6 J, B	2 J	0.7 J, B	0.5 J	ND	1 J, B	0.9 J, B
127-18-4	Tetrachloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7 J
79-01-6	Trichloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-01-4	Vinyl chloride	2	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1330-20-7	Xylene (total)	5	(µg/L)	2 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs				14	10	9	14	20	7	NA	7	5	19	4.6	17	9.5	6.5	ND	14.2	7.3
SEMIVOLATILES		20 (G)	(µg/L)																	
83-32-9	Acenaphthene	20 (G)	(µg/L)	11	38	3 J	370 D	180 D	55 J, D	130,000 J	77 J, D	12 J, D	ND	ND	ND	ND	ND	10 J, D	ND	2 J
208-96-8	Acenaphthylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
120-12-7	Anthracene	50 (G)	(µg/L)	14	39	2 J	300 D	110 D	23 J, D	83,000 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56-55-3	Benzo[a]anthracene	0.02 (G)	(µg/L)	17	94 E	2 J	420 D	310 D	78 J, D	160,000 J	170 J, D	33 J, D	52 J, D	29 J, D	29 J, D	ND	90 J, D	56 D	13	12
50-32-8	Benzo[a]pyrene	NS	(µg/L)	12	57	2 J	230 D	150 D	42 J, D	730,00 J	88 J, D	21 J, D	30 J, D	19 J, D	26 J, D	ND	72 J, D	53 D	10 J	10
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	16	75	2 J	350 D	210 D	76 J, D	180,000 J	170 J, D	34 J, D	68 J, D	34 J, D	45 J, D	57 J	110 J, D	84 D	15 J	20
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	6 J	34	ND	130 D	220 D	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 J	4 J
207-08-9	Benzo[k]fluoranthene	0.002 (G)	(µg/L)	6 J	29	ND	160 D	77 D	29 J, D	ND	ND	ND	25 J, D	ND	14 J, D	ND	58 J, D	31 J, D	10 J	5 J
117-81-7	bis(2-Ethylhexyl)phthalate	5	(µg/L)	21	120 E	4 J	530 D	190 D	46 J, D	82,000 J	140 J, D	11 J, D	55 J, D	29 J, D, B	32 J, D	ND	100 J, D	77 D	13 J	8 J
86-74-8	Carbazole	NS	(µg/L)	ND	ND	2 J	ND	ND	ND	ND	ND	30 J, D	ND	ND	ND	ND	ND	ND	ND	ND
218-01-9	Chrysene	0.002 (G)	(µg/L)	19	90 E	2 J	430 D	380 D	92 J, D	160,000 J	160 J, D	34 J, D	43 J, D	19 J, D	20 J, D	ND	83 J, D	46 J, D	12 J	10
84-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
53-70-3	Dibenz[a,h]anthracene	NS	(µg/L)	ND	10	ND	40 J, D	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	1 J
132-64-9	Dibenzofuran	NS	(µg/L)	5 J	31	2 J	250 D	73 D	24 J, D	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
541-73-1	1,3-Dichlorobenzene	3	(µg/L)	ND	3 J	1 J	16 J, D	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND
106-46-7	1,4-Dichlorobenzene	3	(µg/L)	2 J	14	6 J	77 J, D	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	7 J, D	3 J	1 J
120-83-2	2,4-Dichlorophenol	1	(µg/L)	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	1	(µg/L)	260 E	290 E	78	84 J, D	33	12 J, D	ND	ND	12 J, D	ND	ND	26 J, D	ND	ND	14 J, D	7 J	22
131-11-3	Dimethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	570 J, D	ND	ND	ND	ND	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	50 (G)	(µg/L)	82 E	330 E	6 J	1,800 D, E	710 D, E	160 J, D	600,000 J	ND	ND	89 J, D	51 J, D	43 J, D	98 J	230 J, D	120 D	27	21
86-73-7	Fluorene	50 (G)	(µg/L)	8 J	30	2 J	390 D	99 D	39 J, D	1,200,000 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	(µg/L)	6 J	30	ND	120 D	190 D	21 J, D	ND	ND	ND	ND	ND	10 J, D	ND	ND	ND	4 J	4 J
91-57-6	2-Methylnaphthalene	NS	(µg/L)	2 J	5 J	1 J	130 D	17 J, D	79 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
95-48-7	2-Methylphenol	1	(µg/L)	51	33	6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106-44-5	4-Methylphenol	1	(µg/L)	86 E	37	37	ND	ND	ND	ND	ND	ND	ND	ND	13 J, D	ND	ND	ND	ND	2 J
91-20-3	Naphthalene	10 (G)	(µg/L)	3 J	5 J	2 J	65 J, D	6 J, D	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100-02-7	4-Nitrophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
87-86-5	Pentachlorophenol	5	(µg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
85-01-8	Phenanthrene	50 (G)	(µg/L)	24	140 E	4 J	1,400 E, D	210 D	54 J, D	200,000 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108-95-2	Phenol	1	(µg/L)	68	40	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	2 J
129-00-0	Pyrene	50 (G)	(µg/L)	45	290 E	11	1,200 E, D	1,400 E, D	440 D	570,000 J	560 J, D	94 J, D	170 J, D	69 J, D	86 J, D	120 J, D	270 J, D	170 D	75	30
120-82-1	1,2,4-Trichlorobenzene	5	(µg/L)	12	52	4 J	31 J, D	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
95-95-4	2,4,5-Trichlorophenol	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total SVOCs				777	1,916	196	8,523	4,578	1,270	3,438,000	1,935.0	281.0	532.0	250.0	344.0	275.0	1,013.0	668.0	199.0	154.0

Notes:

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.

NA = Not analyzed/applicable

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

D12 = Dilution required due to sample viscosity

D08 = Dilution required due to high concentration of target analyte(s)

D04 = Dilution required due to high levels of non-target compounds

QFL = Florisil clean-up (EPA 3620) performed on extract.

QSU = Sulfur (EPA 3660) clean-up performed on extract.

Z3 = Sample required dilution due to the nature of the sample matrix.

B = Compound was found in the blank and sample.

E = Concentration exceeds method limit.

- = Aroclor-1254 only reporting since 2011.

* = LCS or LCSD is outside acceptance limits.



Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	S-1	S-1	S-1	S-1	S-1	S-1	S-1NAPL	S-1	S-1	S-1	S-1	S-1	S-1	S-1	S-1	S-1				
Historically Detected Compounds				G5093	H0918	H7400	J8341	M0193	N4877	A9751104	Q3849	R7180	S7322	T7106	V4632	Z7813	A7429	B4467	E1135	0508015-006A			
				OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OB	OB	OB	OB	OB	OB			
				5116	6847	7810	9571	1489	3856	11090	5490	7645	9270	764	2494	4203	5716	6968	6968	200508			
				Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water		
				11/20/1997	2/18/1998	5/28/1998	10/21/1998	4/20/1999	11/9/1999	11/9/1999	4/26/2000	12/14/2000	6/20/2001	12/13/2001	6/19/2002	12/18/2002	6/24/2003	12/18/2003	6/8/2004	8/2/2005			
CAS NO.	COMPOUND		UNITS:																				
				PESTICIDES																			
309-00-2	Aldrin	NS	(µg/L)	ND	ND	0.008 J, P	ND	ND	0.038 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
319-84-6	alpha-BHC	0.01	(µg/L)	ND	ND	0.011 J, P	ND	ND	ND	0.12 J, P	0.018 J, P	ND	0.11 J, P	ND	ND	0.26	0.072 J, P	ND	ND	0.11 J, P			
319-85-7	beta-BHC	0.04	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
319-86-8	delta-BHC	0.04	(µg/L)	ND	0.021 J, P	ND	ND	0.0048 J, P	0.0046 J, P	0.0026 J, P	ND	0.0045 J, P	ND	ND	ND	ND	ND	ND	ND	ND			
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28 P	1.3 P	ND	0.092 J, P	0.2 J, P	0.46 P	ND			
5103-71-9	alpha-Chlordane	0.05 ¹	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.096 J, P	ND	ND	0.22 J, P			
5103-74-2	gamma-Chlordane	0.05 ¹	(µg/L)	ND	ND	0.02 J, P	ND	ND	0.0082 J, P	ND	ND	ND	1.2 P	ND	ND	0.53 P	ND	ND	ND	2 P			
72-54-8	4,4'-DDD	0.3	(µg/L)	0.026 J, P	0.26 J, P	0.058 J, P	0.033 J, P	0.051 J, P	ND	0.029 J, P	ND	0.068 J, P	ND	ND	ND	2.3 P	0.053 J, P	ND	ND	ND			
72-55-9	4,4'-DDE	0.2	(µg/L)	ND	1.4 P	0.016 J, P	0.51 P	1.3 P	0.24 J, P	0.79	0.58 P	2.1 B, P	2.3	9.3 E	0.69 P	1 P	0.61 P	1.1	4.3	ND			
50-29-3	4,4'-DDT	0.2	(µg/L)	ND	ND	ND	ND	ND	ND	0.028 J, P	0.17 J, P	0.83 P	ND	ND	ND	ND	ND	ND	ND	ND			
60-57-1	Dieldrin	0.004	(µg/L)	ND	ND	ND	ND	ND	0.25 J, P	ND	ND	ND	1.9 B, P	6.2 P	0.88	1 P	0.42 J, P	0.85 B, P	ND	ND			
959-98-8	Endosulfan I	NS	(µg/L)	ND	ND	ND	ND	0.14 J, P	ND	0.13 J, P	0.1 J, P	0.62 P	0.33 P	1.1 P	0.095 J, P	0.84 P	ND	0.24 J, P	0.58 P	ND			
33213-65-9	Endosulfan II	NS	(µg/L)	1.4	17 E	0.081 J, P	3.1	2.1	ND	ND	ND	ND	ND	ND	0.082 J, P	ND	0.046 J, P	0.05 J, P	ND	ND			
1031-07-8	Endosulfan sulfate	NS	(µg/L)	ND	ND	ND	0.086 J, P, B	ND	0.44 J	ND	0.13 J, P	0.17 J, P	ND	ND	ND	ND	ND	ND	0.32 J, P	ND			
72-20-8	Endrin	NS	(µg/L)	ND	ND	0.023 J, P	ND	ND	ND	0.13 J, P	1 P	0.31 J, P, B	0.68 P	2.5 P	ND	ND	2.6	0.67 P	1.7 P	ND			
7421-93-4	Endrin aldehyde	5	(µg/L)	ND	1.8 P	ND	0.045 J, P	0.3 J, P	0.047 J, P	0.025 J, P	0.067 J, P	0.82 P	0.71 B, P	2.7 P	0.26 J, P	0.38 J, P, B	ND	0.86 P	ND	ND			
53494-70-5	Endrin ketone	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.069 J, P	8 P	ND	ND	0.87 P	ND	0.23 J, P	ND			
76-44-8	Heptachlor	0.04	(µg/L)	ND	0.39 P	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.3 E, P	ND	0.26 P	0.41 P	0.78 P	ND			
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	0.0057 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
72-43-5	Methoxychlor	35	(µg/L)	0.079 J, P	ND	0.097 J, P	ND	0.83 J, P	0.092 J, P	ND	ND	ND	0.35 J, P	2.1 J, P	ND	1.3 J, P	ND	ND	0.84 J, P	ND			
Total Pesticides				1.5	20.9	0.3	3.8	4.7	1.1	NA	1.3	2.1	4.9	7.9	39.2	2.8	7.7	5.1	4.8	10.8			
				PCBs																			
53469-21-9	Aroclor-1242	Sum of all PCBs < 0.09	(µg/L)	ND	ND	0.88 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
12672-29-6	Aroclor-1248		(µg/L)	7.4	100 P	ND	39 P	74 P	19 P	330,000	56	48	150 P	110	400 E	54 P	62 P	33 P	55	240 P			
11097-69-1	Aroclor-1254		(µg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
11096-82-5	Aroclor-1260		(µg/L)	43	330 E	2.4 P	89 E	72 P	9.2 P	120,000	26	17 P	88 E, P	53	200 E	22	3 P8	16	22 J	130 P			
Total PCBs				50.4	430	3.28	128	146	28.2	450,000	82	65	238	163	600	76	100	49	77	370			
				INORGANICS																			
7429-90-5	Aluminum	NS	(µg/L)	142 B	1090	30.2 B	5870	2390	859	1920	6890 E	3290	18300	85.4 B	3380	4920	23300			4500			
7440-36-0	Antimony	3	(µg/L)	ND	ND	ND	4.9 B	2.9 B	ND	ND	1.9 B	ND	ND	ND	ND	3.7 B	9.2 B	ND	ND	ND			
7440-38-2	Arsenic	25	(µg/L)	4.7 B	5.8 B	10.2	20.6	10.4	14.1	7.6 B	23.4	7.8 B	13.2	4.9 B	13.3	33.7	96.1	ND	12.6	ND			
7440-39-3	Barium	1,000	(µg/L)	187 B	196 B	151 B	463	332	490	278	468	313	1,080	179 B	292	441	519	190 B	ND	ND			
7440-41-7	Beryllium	3 (G)	(µg/L)	ND	0.1 B	ND	0.34 B	0.18 B	0.16 B	0.16 B	0.65 B	0.15 B	2.5 B	0.13 B	0.17 B	0.2 B	1 B	ND	ND	ND			
7440-43-9	Cadmium	5	(µg/L)	ND	ND	ND	1.8 B	0.55 B	ND	ND	ND	ND	0.37 B	ND	ND	0.3 B	4.3 B	ND	ND	ND			
7440-70-2	Calcium	NS	(µg/L)	46,300	50,900	45,700	233,000	152,000	254,000	105,000	160,000	111,000	470,000	75,800	87,000	308,000	297,000	61,300	ND	ND			
7440-47-8	Chromium	50	(µg/L)	1.2 B	5.4 B	ND	16.3	7.6 B	5.1 B, E	15.2	16	7.6 B	48.8	1.7 B, E	7.4 B	13	87.9	21.7	ND	ND			
7440-48-4	Cobalt	NS	(µg/L)	ND	ND	ND	5.7 B	2.2 B	ND	1.2 B	4.9 B	1.7 B	25.3 B	ND	ND	2.3 B	17.1 B	ND	ND	ND			
7440-50-8	Copper	200	(µg/L)	7.4 B	5.3 B	4 B	115	79.1	3 B	6.5 B	23.4 B	7.7 B	11.5 B	2.3 B	21.1 B	66.4	318	53	ND	ND			
7439-89-6	Iron	300	(µg/L)	1,500	4,440	3,060	21,800	7,920	19,000	9,790	23,400	15,400	105,000	6,050	16,600	36,200	73,300	15,200	ND	ND			
7439-92-1	Lead	25	(µg/L)	2.6 B	8.2	ND	47.6	19.4	2.4 B	20.5	28.3	15.2	23.1	2.6 B, N	19.9	33.2	148	35.8	ND	ND			
7439-95-4	Magnesium	35,000 (G)	(µg/L)	9,410	10,100	7,730	16,700	12,900	13,600	15,600	14,800	13,900	33,900	14,100	14,800	16,500	23,800	16,500	ND	ND			
7439-96-5	Manganese	300	(µg/L)	1,210	1,330	1,080	3,150	2,290	3,480	1,510	2,580	1,830	6,640	824	1,660	2,370	2,260	971	ND	ND			
7439-97-6	Mercury	0.7	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
7440-02-0	Nickel	100	(µg/L)	7.7 B	17 B	8.1 B	28.9 B	18.2 B	33.5 B, E	45.3	28.6 B	12.4 B	102	2 B	14.1 B	35.7 B	310	33.7 B	ND	ND			
7440-09-7	Potassium	NS	(µg/L)	16,700	14,500	20,300	24,400	23,700	23,000	22,500	23,900 E	23,900	25,300	24,900	19,500	24,400	24,000	25,300	ND	ND			
7782-49-2	Selenium	10	(µg/L)	ND	ND	ND	2.9 B	ND	ND	ND	ND	ND	3.4 B	ND	ND	ND	9.5	ND	ND	ND			
7440-22-4	Silver	50	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
7440-23-5	Sodium	20,000	(µg/L)	116,000	110,000	93,300	93,000	138,000	145,000 E	121,000	118,000	125,000	124,000	99,700 E	103,000	108,000	81,800	88,800	ND	ND			
7440-28-0	Thallium	0.5 (G)	(µg/L)	ND	4.1 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
7440-62-2	Vanadium	NS	(µg/L)	1.8 B	3.6 B	1.2 B	13.4 B	7.4 B	5.2 B, E	6.2 B	12.7 B	8.2 B	63.5	ND	10.3 B	43.4 B	76.3	12.4 B	ND	ND			
7440-66-6	Zinc	2,000 (G)	(µg/L)	15.8 B	157	23.7	384	138	149	205	197	164	1340	13.6 B	133	270	1200	126	ND	ND			
57-12-5	Cyanide	200	(µg/L)	14.9	ND	ND	ND	ND	ND	ND	ND	ND	12.6	ND	ND	5.5 B	ND	15.3	ND	ND			
Total Inorganics				191,505	192,763	171,398	399,024	339,818	459,641	NA	277,906	350,375	294,858	785,866	221,666	246,451	501,338	538,256	NA	213,072			

Notes:

¹ - Standard is for Chlordane (CAS 57-74-9).

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.

NA = Not analyzed/applicable

NS = No Standard

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ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

D12 = Dilution required due to sample viscosity

D08 = Dilution required due to high concentration of target analyte(s)

D04 = Dilution required due to high levels of non-target compounds

QFL = Florisil clean-up (EPA 3620) performed on extract.

QSU = Sulfur (EPA 3660) clean-up performed on extract.

Z3 = Sample required dilution due to the nature of the sample matrix.

B = Compound was found in the blank and sample.

E = Concentration exceeds method limit.

- = Aroclor-1254 only reporting since 2011.

* = LCS or LCSD is outside acceptance limits.



Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	S-1 0603095-002A LSL-BL 6030950 Water 3/21/2006	S-1 A7E985011 TA A07-E985 Water 12/27/2007	S-1 A8E30606 TA A08-E150 Water 11/10/2008	S-1 RSI0312-01 TA RSI0296 Water 9/9/2009	S-1 RTF0860-02 TA RTF0798 Water 6/11/2010	S-1 480-2227-1 TA 480-2185 Water 3/4/2011	S-1 480-14339-1 TA 480-14339 Water 12/21/2011	S-1 480-23637-1 TA 480-23637 water 8/8/2012	S-1 480-38452-3 TA 480-38452 water 5/16/2013	S-1 480-56862-1 TA 480-38452 WATER 3/28/2014	S-1 480-70664-3 TA 480-38452 WATER 11/4/2014	S-1 480-83621-4 TA 480-83621 WATER 7/9/2015	S-1 480-101674-4 TA 480-101674 WATER 6/15/2016	S-1 480-114997-5 TA 480-114997 WATER 3/23/2017	S-1 480-125448-9 TA 480-125448 WATER 10/6/2017	S-1 480-141984-10 TA 480-141984 WATER 9/17/2018	S-1 480-155595-6 TA 480-155595 WATER 6/27/2019
CAS NO.	COMPOUND		UNITS:																	
VOLATILES																				
67-64-1	Acetone	50 (G)	(µg/L)	5 J, B	ND	ND	5.5	ND	ND	ND	4.1 J	ND	ND	3.0 J	ND	ND	ND	ND	ND	ND
71-43-2	Benzene	1	(µg/L)	ND	ND	ND	ND	ND	ND	0.44 J	0.41 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108-90-7	Chlorobenzene	5	(µg/L)	0.8 J	3 J	ND	ND	ND	6.0	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-00-3	Chloroethane	5	(µg/L)	ND	ND	ND	ND	ND	1.1	ND	0.69 J	ND	ND	0.66 J	ND	ND	ND	ND	ND	ND
74-87-3	Chloromethane	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-34-3	1,1-Dichloroethane	5	(µg/L)	ND	ND	ND	0.50 J	ND	0.44 J	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND	ND
156-59-2	cis-1,2-Dichloroethene	5	(µg/L)	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
540-59-0	1,2-Dichloroethene (total)	NS	(µg/L)	ND	ND	ND	4.8	4.0 DO3, J	ND	ND	ND	ND	ND	ND	ND	3.4	ND	1.7 J	ND	ND
108-10-1	4-Methyl-2-pentanone	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	(µg/L)	1 J, B	ND	ND	ND	ND	ND	ND	0.49 J	ND	ND	ND	ND	ND	ND	ND	5.3 J	ND
127-18-4	Tetrachloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79-01-6	Trichloroethene	5	(µg/L)	ND	ND	ND	0.66 J	ND	ND	ND	ND	ND	ND	ND	ND	0.46 J	ND	ND	ND	ND
75-01-4	Vinyl chloride	2	(µg/L)	ND	ND	ND	0.59 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1330-20-7	Xylene (total)	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs				8.8	3	ND	12.05	4.0	7.54	10.44	5.69	ND	ND	3.66	ND	3.86	ND	3.9	5.3	ND
SEMIVOLATILES																				
83-32-9	Acenaphthene	20 (G)	(µg/L)	ND	1 J	0.8 J	ND	ND	2.5 J	2.0 J	ND	ND	ND	1.0 J	ND	ND	ND	0.73 J	0.54 J	ND
208-96-8	Acenaphthylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.46 J	ND	ND
120-12-7	Anthracene	50 (G)	(µg/L)	ND	0.8 J	0.9 J	ND	ND	ND	ND	0.64 J	ND	ND	0.69 J	ND	ND	ND	ND	0.88 J	0.41 J
96-55-3	Benzo[a]anthracene	0.002 (G)	(µg/L)	6 J	0.4 J	ND	32 J D12	ND	ND	ND	0.74 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
50-32-8	Benzo[a]pyrene	NS	(µg/L)	62 J	ND	0.3 J	37 J D12	ND	ND	ND	0.77 J	ND	ND	0.48 J	ND	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	100 J	ND	0.3 J	47 J D12	ND	ND	ND	1.1 J	ND	ND	0.79 J	4.2 J	ND	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	33 J	ND	0.2 J B	ND	ND	ND	ND	0.65 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	(µg/L)	38 J	ND	ND	26 J D12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	(µg/L)	76 J	ND	ND	110 D12	ND	2.9 J	ND	6.3	ND	ND	3.7 J	ND	ND	ND	ND	ND	ND
86-74-8	Carbazole	NS	(µg/L)	ND	2 J	0.5 J	ND	1.1 J	2.3 J	3.6 J	0.96 J	ND	ND	0.45 J	ND	ND	ND	ND	0.64 J	0.31 J
218-01-9	Chrysene	0.002 (G)	(µg/L)	54 J	ND	ND	27 J D12	ND	ND	ND	0.73 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	ND	0.7 J B	ND	ND	1.3 J	ND	0.80 J	0.98 J	0.41 J	0.48 J	ND	0.34 J	0.46 J	0.34 J	ND	ND
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5 J	ND	ND	ND	ND	ND	ND
53-70-3	Dibenz[a,h]anthracene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
132-64-9	Dibenzofuran	NS	(µg/L)	ND	0.7 J	ND	ND	ND	0.92 J	1.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
541-73-1	1,3-Dichlorobenzene	3	(µg/L)	ND	1 J B	ND	ND	ND	0.82 J	0.89 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	3	(µg/L)	ND	2 J	0.3 J B	ND	0.53 J	1.5 J	1.9 J	ND	ND	ND	ND	ND	ND	ND	0.61 J	ND	ND
120-83-2	2,4-Dichlorophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	1 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	1	(µg/L)	ND	8	ND	ND	8.2	9.4	4.7 J	65	1.3 J	ND	18	ND	7.0	ND	60	5.3	2.5 J
131-11-3	Dimethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	8.3	ND	0.45 J	ND	ND	ND	ND	ND	ND	1.2 J	ND
206-44-0	Fluoranthene	50 (G)	(µg/L)	140 J	0.4 J	0.8 J B	45 J D12	ND	ND	ND	1.4 J	ND	ND	0.55 J	ND	0.42 J	ND	ND	ND	ND
86-73-7	Fluorene	50 (G)	(µg/L)	ND	1 J	0.4 J	ND	ND	1.6 J	1.2 J	0.77 J	ND	ND	0.43 J	ND	ND	ND	0.59 J	ND	ND
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	(µg/L)	32 J	ND	0.2 J B	ND	ND	ND	ND	0.54 J	ND	ND	0.47 J	ND	ND	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	NS	(µg/L)	ND	0.6 J	ND	ND	ND	ND	ND	0.72 J	ND	ND	ND	ND	ND	ND	0.72 J	ND	ND
95-48-7	2-Methylphenol	1	(µg/L)	ND	0.2 J	ND	ND	0.79 J	0.54 J	ND	ND	ND	ND	0.70 J	ND	0.44 J	ND	18	ND	ND
106-44-5	4-Methylphenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.47 J	ND	1.0 J	ND	ND	ND	43	ND	ND
91-20-3	Naphthalene	10 (G)	(µg/L)	ND	2 J	0.3 J B	ND	ND	1.1 J	1.8 J	ND	ND	ND	ND	ND	ND	ND	6.4	ND	ND
100-02-7	4-Nitrophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
87-86-5	Pentachlorophenol	5	(µg/L)	NA	9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-01-8	Phenanthrene	50 (G)	(µg/L)	ND	1 J	ND	ND	ND	ND	ND	0.75 J	ND	ND	ND	ND	ND	ND	0.61 J	ND	1.0 JB
108-95-2	Phenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.81 J	ND	ND	ND	ND	ND	ND
129-00-0	Pyrene	50 (G)	(µg/L)	190 J	0.8 J	0.6 J	90 J D12	ND	ND	0.48 J	1.9 J	ND	ND	0.54 J	4.7 J	0.39 J	ND	ND	ND	ND
120-82-1	1,2,4-Trichlorobenzene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
95-95-4	2,4,5-Trichlorophenol	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4 J	ND	ND
Total SVOCs				786.0	30.9	7.3	414	10.62	24.88	25.87	83.77	3.20	0.41	32.59	8.9	8.25	0.34	132.37	9.51	4.22

Notes:

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QFL = Florisil clean-up (EPA 3620) performed on extract.

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Z3 = Sample required dilution due to the nature of the sample matrix.

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Appendix B-3

Sump Historically Detected Compounds

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CAS NO.	COMPOUND		UNITS:																	
PESTICIDES																				
309-00-2	Aldrin	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	(µg/L)	ND	ND	0.042 J	ND	ND	ND	ND	ND	0.019 J	0.018 J	ND	ND	ND	ND	ND	ND	ND
319-85-7	beta-BHC	0.04	(µg/L)	ND	ND	0.031 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
319-86-8	delta-BHC	0.04	(µg/L)	ND	ND	0.072 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012 J	ND	ND	0.022 JB
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	0.19 J	0.030 J	0.046 J	3.2 J QFL D04	0.012 QSU, J	ND	ND	ND	ND	0.026 J	ND	ND	ND	ND	ND	ND	ND
5103-71-9	alpha-Chlordane	0.05	(µg/L)	ND	ND	0.027 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5103-74-2	gamma-Chlordane	0.05 ¹	(µg/L)	ND	0.012 J	ND	ND	0.012 QSU, J	ND	ND	ND	0.030 J	0.015 J	ND	ND	ND	ND	ND	ND	ND
72-54-8	4,4'-DDD	0.3	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.17 B	ND	ND	ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	(µg/L)	1.4 P	ND	ND	4.8 J QFL D04	0.017 QSU, J	ND	ND	ND	0.023 J	0.027 J	ND	ND	ND	0.020 J	ND	ND	0.017 J
50-29-3	4,4'-DDT	0.2	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.017 J	ND	ND	ND	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	(µg/L)	ND	0.023 J	0.13 J	6.7 QFL D04	ND	ND	ND	ND	0.010 J	ND	ND	ND	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33213-65-9	Endosulfan II	NS	(µg/L)	ND	ND	0.021 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	(µg/L)	0.48 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
72-20-8	Endrin	NS	(µg/L)	0.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	(µg/L)	ND	ND	ND	5.9 J QFL D04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
53494-70-5	Endrin ketone	5	(µg/L)	0.16 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
76-44-8	Heptachlor	0.04	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.018 J	0.028 J	ND	ND	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.011 J	ND	ND	ND	ND	ND	ND	0.010 J	ND
72-43-5	Methoxychlor	35	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides				3.1	0.065	0.369	20.6	0.041	ND	ND	ND	0.281	0.131	ND	ND	ND	0.032	ND	0.010	0.039
PCBs																				
53469-21-9	Aroclor-1242	Sum of all PCBs < 0.09	(µg/L)	58 P	0.62	ND	ND	ND	0.26 J	0.42 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12672-29-6	Aroclor-1248		(µg/L)	30	ND	5.4	290 QSU D08 Z3	ND	ND	ND	8.3	ND	ND	0.63	3.2	1.1	ND	0.49 J	0.40 J	ND
11097-69-1	Aroclor-1254		(µg/L)	-	-	-	-	-	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND
11096-82-5	Aroclor-1260		(µg/L)	ND	ND	2.6	210 QSU D08 Z3	ND	ND	ND	5.7	ND	ND	ND	1.5	ND	ND	ND	ND *	ND
Total PCBs				88	0.62	8.0	500	ND	0.26	0.42	14.0	ND	ND	0.63	6.3	1.1	ND	0.49	0.40	ND
INORGANICS																				
7429-90-5	Aluminum	NS	(µg/L)	11200	89.0 B	ND	357 B	1,180 CF6	ND	ND	630	ND	87 J	ND	130 J	ND	97 J	410	ND	ND
7440-36-0	Antimony	3	(µg/L)	4.8 B	ND	ND	7.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-38-2	Arsenic	25	(µg/L)	27.7	ND	5.4 B	11.3	6.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-39-3	Barium	1,000	(µg/L)	238	190	169	69.0	85.2	140	130	160 B	76	38	150	96	51 B	10	44	110	110
7440-41-7	Beryllium	3 (G)	(µg/L)	0.37 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-43-9	Cadmium	5	(µg/L)	1.1 B	ND	ND	ND	0.4 J	ND	0.46 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-70-2	Calcium	NS	(µg/L)	158,000	84,900	67,500	36,000 B	38,100	81,800 B	86,200 B	58,800	52,700	27,700	55,900	58,500	22,500	35,000	74,800	77,900	49,700
7440-47-8	Chromium	50	(µg/L)	139	ND	1.5 B	10.7	31.9 CF6	2.8 J	1.2 J	2.1 J	1.1 J	ND	1.9 J	ND	ND	ND	ND	ND	ND
7440-48-4	Cobalt	NS	(µg/L)	6.2 B	ND	ND	0.7 J	0.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-50-8	Copper	200	(µg/L)	189	ND	1.5 B	17.3	85.3 CF6	2.7 J	2.1 J	6.7 J	7.2 J	3.3 J	ND	2.0 J	ND	1.9 J	ND	ND	ND
7439-89-6	Iron	300	(µg/L)	29,800	8,990	6,210	1,790	4,040	7,100	7,200	4,800	1,400	460	4,100	1,800	640	97	36 J	3,000	2,900
7439-92-1	Lead	25	(µg/L)	65.1	ND	ND	5.0	21.8 CF6	ND	ND	ND	ND	ND	4.2 J	ND	ND	ND	ND	4.9 J	ND
7439-95-4	Magnesium	35,000 (G)	(µg/L)	13,900	19,900	153,000	5,230	10,400	22,300	22,100	12,800	12,600	7,800	13,700	12,900	4,700	14,300	61 J	14,900	13,400
7439-96-5	Manganese	300	(µg/L)	929 E	917	1,060	222	386	710	640	720	510 B	200	590	480 B	130 B	3.0	ND	460	1,000
7439-97-6	Mercury	0.7	(µg/L)	0.085 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-02-0	Nickel	100	(µg/L)	118	ND	2.9 B	5.9 J	20.2 CF6	ND	2.6 J	3.0 J	2.3 J	ND	ND	1.6 J	1.4 J	ND	1.4 J	1.5 J	ND
7440-09-7	Potassium	NS	(µg/L)	21,900	19,000	18,800	28,400	20,400	15,900	14,000	17,600	10,800	7,200	20,100	14,500	23,500	2,400	59,400	28,300	14,700
7782-49-2	Selenium	10	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-22-4	Silver	50	(µg/L)	1.6 B	1.0 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-23-5	Sodium	20,000	(µg/L)	60,400	67,100	78,300	61,400	51,200	49,800	37,700	69,600	31,900	18,000	68,000	37,700	45,600 B	3,200	112,000	76,000	47,900
7440-28-0	Thallium	0.5 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-62-2	Vanadium	NS	(µg/L)	42.2 B	ND	ND	5.1	3.9 J	ND	ND	2.2 J	ND	ND	ND	ND	ND	ND	7.0	8.9	ND
7440-66-6	Zinc	2,000 (G)	(µg/L)	399	ND	3.9 B	36.9	63.1 CF6	1.8 J	9.9 J	8.2 J	11	4.4 J	3.5 J B	4.6 J	8.3 J B	8.1 J B	2.4 J	2.7 J B	4.7 JB
57-12-5	Cyanide	200	(µg/L)	6.5 B	ND	ND	ND	8.6 J	ND	ND	7.4 J	ND	ND	7.3 J B	ND	12	7.5 J	24	9.8 J	ND
Total Inorganics				297,368	201,087	325,054	133,569	126,034	177,757	167,986	165,140	110,008	61,493	162,557	126,114	97,143	55,125	246,786	200,698	129,715

Notes:

¹ - Standard is for Chlordane (CAS 57-74-9).

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.

NA = Not analyzed/applicable

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

D12 = Dilution required due to sample viscosity

D08 = Dilution required due to high concentration of target analyte(s)

D04 = Dilution required due to high levels of non-target compounds

QFL = Florisil clean-up (EPA 3620) performed on extract.

QSU = Sulfur (EPA 3660) clean-up performed on extract.

Z3 = Sample required dilution due to the nature of the sample matrix.

B = Compound was found in the blank and sample.

E = Concentration exceeds method limit.

- = Aroclor-1254 only reporting since 2011.

* = LCS or LCSD is outside acceptance limits.



Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2		
Historically Detected Compounds				G5094	H0919	H7397	J8486	M0296	N5019	Q3854	R7177	S7283	T6915	V4633	Z7442	A7430	B4251	E1137	O5081S-007A
				OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OB	OB	OB	OB	OB	OB
				5116	6847	7810	9595	1516	3880	5490	7645	9259	739	2494	4203	5716	6968	6968	200508
				Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
				11/20/1997	2/19/1998	5/28/1998	10/22/1998	4/21/1999	11/10/1999	4/27/2000	12/14/2000	6/19/2001	12/12/2001	6/19/2002	12/17/2002	6/24/2003	12/15/2003	6/8/2004	8/2/2005
CAS NO.	COMPOUND		UNITS:																
VOLATILES																			
67-64-1	Acetone	50 (G)	(µg/L)	ND	ND	ND	9 J, B	ND	ND	ND	3 J	7 J	ND	ND	3 J, B	ND	2 J, B	13 B	
71-43-2	Benzene	1	(µg/L)	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	38	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	
108-90-7	Chlorobenzene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
75-00-3	Chloroethane	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
75-34-3	1,1-Dichloroethane	5	(µg/L)	2 J	2 J	ND	2 J	2 J	ND	ND	ND	2 J	2 J	1 J	1 J	2 J	2 J	1 J	
156-59-2	cis-1,2-Dichloroethene	5	(µg/L)	ND	ND	ND	1 J	6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
540-59-0	1,2-Dichloroethene (total)	NS	(µg/L)	6 J	2 J	ND	2 J	6 J	9 J	ND	3 J	ND	ND	ND	ND	ND	ND	ND	
100-41-4	Ethylbenzene	5	(µg/L)	ND	2 J	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
108-10-1	4-Methyl-2-pentanone	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	
75-09-2	Methylene chloride	5	(µg/L)	ND	ND	1	ND	ND	ND	ND	ND	ND	1 J, B	ND	0.8 J, B	ND	0.8 J, B	0.9 J, B	
127-18-4	Tetrachloroethene	5	(µg/L)	ND	1 J	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
108-88-3	Toluene	5	(µg/L)	1 J	11	ND	3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6 J	ND	
79-01-6	Trichloroethene	5	(µg/L)	ND	ND	ND	ND	1 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	
75-01-4	Vinyl Chloride	2	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1330-20-7	Xylene (total)	5	(µg/L)	2 J	15	ND	9 J	3 J	ND	ND	ND	ND	3 J	ND	1 J	ND	1 J	ND	
Total VOCs				11	33	1	29	56	12	ND	6	7	3	5	4.8	2	2	7.4	14.9
SEMIVOLATILES																			
0.58 J	Acenaphthene	20 (G)	(µg/L)	ND	ND	ND	2 J	1 J	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	
208-96-8	Acenaphthylene	NS	(µg/L)	ND	ND	ND	3 J	1 J	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	
120-12-7	Anthracene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	
56-55-3	Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 J	
50-32-8	Benzo[a]pyrene	ND	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 J	
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6 J	
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
207-08-9	Benzo[k]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	
117-81-7	bis(2-Ethylhexyl)phthalate	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	2 J	1 J, B	ND	4 J	ND	1 J	ND	10 J	
86-74-8	Carbazole	NS	(µg/L)	ND	ND	ND	3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	
84-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
117-84-0	Di-n-octyl-phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
132-64-9	Dibenzofuran	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
106-46-7	1,4-Dichlorobenzene	3	(µg/L)	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	
105-67-9	2,4-Dimethylphenol	1	(µg/L)	45	38	18	39	6 J	8 J	ND	ND	ND	1 J	16	ND	6 J	2 J	4 J	
131-11-3	Dimethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.8 J	
206-44-0	Fluoranthene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 J	
86-73-7	Fluorene	50 (G)	(µg/L)	ND	ND	ND	1 J	1 J	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	
91-57-6	2-Methylnaphthalene	NS	(µg/L)	ND	2	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
95-48-7	2-Methylphenol	1	(µg/L)	15	13	5 J	9 J	ND	2 J	ND	ND	ND	3 J	ND	1 J	ND	ND	ND	
106-44-5	4-Methylphenol	1	(µg/L)	29	37	15	15	ND	4 J	ND	ND	ND	5 J	ND	4 J	ND	3 J	ND	
91-20-3	Naphthalene	10 (G)	(µg/L)	1 J	5 J	3 J	46	ND	ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND	
99-09-2	3-Nitroaniline	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
100-02-7	4-Nitrophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	
85-01-8	Phenanthrene	50 (G)	(µg/L)	ND	ND	ND	1 J	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	
108-95-2	Phenol	1	(µg/L)	3	10	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6 J	
95-95-4	2,4,5-Trichlorophenol	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total SVOCs				93	105	43	123	9	18	2	ND	2	2	27	4	11	3	11	64.8

Notes:

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.

NA = Not analyzed/applicable

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

ID7 = 4-Methylphenol concentration is the sum of 3- and 4-Methylphenol.

QSU = Sulfur (EPA 3660) clean-up performed on extract.

B = Compound was found in the blank and sample.

E = Concentration exceeds method limit.

* = LCS or LCSD is outside acceptance limits.



Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2		
Historically Detected Compounds				G5094	H0919	H7397	J8486	M0296	N5019	Q3854	R7177	S7283	T6915	V4633	Z7442	A7430	B4251	E1137	O5015-17A	
				OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OB	OB	OB	OB	OB	OB	OB
				5116	6847	7810	9595	1516	3880	5490	7645	9259	739	2494	4203	5716	6968	6968	200508	
				Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
				11/20/1997	2/19/1998	5/28/1998	10/22/1998	4/21/1999	11/10/1999	4/27/2000	12/14/2000	6/19/2001	12/12/2001	6/19/2002	12/17/2002	6/24/2003	12/15/2003	6/8/2004	8/2/2005	
CAS NO.	COMPOUND	UNITS:																		
PESTICIDES																				
309-00-2	Aldrin	NS	(µg/L)	ND	0.0012 J, P	ND	ND	ND	ND	0.036 J, P	0.0013 J, P	ND	ND	0.046 J	ND	ND	ND	ND		
319-84-6	alpha-BHC	0.01	(µg/L)	ND	ND	0.0015 J, P	ND	0.00081 J, P, B	ND	0.0062 J, P	ND	ND	ND	ND	0.0032 J, P	ND	ND	ND		
319-85-7	beta-BHC	0.04	(µg/L)	ND	ND	0.019 J	ND	ND	ND	ND	ND	ND	0.0074 J, P	0.0047 J, P	ND	ND	ND	ND		
319-86-8	delta-BHC	0.04	(µg/L)	ND	ND	ND	0.0027 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	ND	0.0074 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.066 P	0.003 J, P		
5103-71-9	alpha-Chlordane	0.05	(µg/L)	ND	ND	ND	ND	0.0016 J, P	0.0017 J, P	0.0022 J, P	ND	ND	ND	ND	ND	ND	ND	ND		
5566-34-7	gamma-Chlordane	0.05 ¹	(µg/L)	0.0037 J, P	ND	0.0092 J, P	0.0014 J, P	0.0018 J, P	ND	ND	0.0096 J, P	ND	ND	ND	ND	ND	ND	0.038 J, P		
5103-74-2	trans-Chlordane	0.05 ¹	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
72-54-8	4,4'-DDD	0.3	(µg/L)	ND	ND	ND	ND	ND	ND	0.007 J, P	ND	ND	ND	ND	ND	ND	ND	ND		
72-55-9	4,4'-DDE	0.2	(µg/L)	ND	ND	ND	ND	0.0024 J, P	ND	ND	0.00079 J, P	ND	0.0027 J	ND	ND	ND	ND	0.074 J		
50-29-3	4,4'-DDT	0.2	(µg/L)	ND	ND	ND	ND	0.00079 J, P, B	ND	ND	0.0082 J, P	ND	ND	0.0018 J, P	ND	ND	ND	ND		
60-57-1	Dieldrin	0.004	(µg/L)	ND	ND	ND	ND	ND	ND	0.088 J, P	ND	0.018 J, P	0.014 J, P	ND	ND	0.0045 J, P	ND	ND		
959-98-8	Endosulfan I	NS	(µg/L)	ND	ND	ND	ND	ND	0.0033 J, P, B	ND	ND	ND	0.018 J	0.0038 J, P	0.026 J	0.015 J	ND	0.012 J		
33213-65-9	Endosulfan II	NS	(µg/L)	ND	0.0065 J	0.0029 J, P	0.0021 J, P	0.0018 J, P	0.0011 J, P	ND	0.004 J, P	ND	ND	ND	ND	ND	ND	ND		
1031-07-8	Endosulfan sulfate	NS	(µg/L)	ND	0.0018 J, P	ND	0.0046 J, P, B	0.0025 J, P, B	0.002 J, P	ND	0.0036 J, P	ND	ND	ND	ND	ND	ND	0.022 J, P		
72-20-8	Endrin	NS	(µg/L)	ND	ND	0.011 J, P	ND	0.0029 J, P	ND	0.041 J, P	0.0041 J, P	0.022 J, P	ND	ND	ND	ND	ND	0.027 J, P		
7421-93-4	Endrin aldehyde	5	(µg/L)	ND	ND	ND	0.0065 J	0.0017 J, P	ND	ND	0.0065 J, P	ND	0.0087 J, P, B	ND	ND	0.0088 J, P, B	ND	ND		
53494-70-5	Endrin ketone	5	(µg/L)	ND	ND	ND	0.00068 J	0.00041 J, P	ND	0.0037 J, P	ND	ND	0.0097 J, P	ND	ND	ND	ND	ND		
76-44-8	Heptachlor	0.04	(µg/L)	ND	ND	ND	ND	ND	0.0025 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	ND	0.00059 J, P	ND	ND	0.0039 J, P, B	0.00055 J, P	ND	0.0038 J, P	ND	ND	0.0063 J, P	ND	ND		
72-43-5	Methoxychlor	35	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 P		
Total Pesticides				0.0037	0.0169	0.0436	0.0186	0.0167	0.0106	0.1880	0.0386	0.0400	0.0643	0.0563	0.0260	0.0378	ND	0.0780		
PCBs																				
53469-21-9	Aroclor-1242	Sum of all PCBs	(µg/L)	ND	ND	0.41 J, P	0.48 J, P	0.47 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
12672-29-6	Aroclor-1248	< 0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.9		
11096-82-5	Aroclor-1260		(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2		
Total PCBs				ND	ND	0.41	0.48	0.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.9		
INORGANICS																				
7429-90-5	Aluminum	NS	(µg/L)	341	302	383	142 B	211	281	44.7	180 B, E	85.6 B	309	707	221	266	215	119 B		
7440-36-0	Antimony	3	(µg/L)	2.6 B	3 B	3.6 B	7 B	4.7 B	3.4 B	ND	3.7 B	3 B	3.1	3.9 B	2.2 B	2.6 B	3.5 B	4.1 B		
7440-38-2	Arsenic	25	(µg/L)	6.2 B	ND	7.4 B	6.7 B	3.8 B	3.5 B	ND	4 B	3 B	5	5.7 B	5.7 B	4.7 B	3 B	2.4 B		
7440-39-3	Barium	1,000	(µg/L)	63.4 B	37.3 B	43.2 B	76.9 B	71.6 B	68.2 B	210	114 B	44.7 B	48.4	60 B	50.6 B	48.5 B	37.6 B	39.4 B		
7440-41-7	Beryllium	3 (G)	(µg/L)	ND	ND	ND	ND	0.14 B	0.06 B	ND	0.3 B	ND	0.1	0.13 B	ND	ND	ND	ND		
7440-43-9	Cadmium	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37	ND	ND	ND	ND	ND		
7440-70-2	Calcium	NS	(µg/L)	117,000	93,700	98,600	171,000	156,000	135,000	70,400	147,000	109,000	135,000	144,000	104,000	116,000	88,400	99,000		
7440-47-8	Chromium	50	(µg/L)	ND	ND	ND	ND	ND	5 B, E	4 B	ND	ND	1.4	ND	ND	ND	ND	ND		
7440-48-4	Cobalt	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND		
7440-50-8	Copper	200	(µg/L)	2 B	1.7 B	2.1 B	0.96 B	1.2 B	1.3 B	4.1 B	0.7 B	0.88	6.2 B	2.8 B	1.8 B	ND	ND	3.8 B		
7439-89-6	Iron	300	(µg/L)	61.4 B	170	99.1 B	47.9 B	46.7 B	134	2,640	491	92.8 B	52.1	960	96.8 B	438	34.6 B	42.8 B		
7439-92-1	Lead	25	(µg/L)	ND	ND	ND	ND	ND	ND	1.2 B	1.7 B	ND	1.5	ND	ND	ND	ND	0.59 B		
7439-95-4	Magnesium	25,000 (G)	(µg/L)	676 B	4,130 B	671 B	18.9 B	ND	34.7 B	14,300	544 B	469 B	80.7	223 B	135 B	175 B	ND	33.5 B		
7439-96-5	Manganese	300	(µg/L)	0.4 B	3.2 B	0.62 B	ND	ND	1.6 B	1,140	69.5	7.2 B	1.8	34.9	3.3 B	27.7	ND	2.6 B		
7439-97-6	Mercury	0.7	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND	ND	ND	ND	0.025 B		
7440-02-0	Nickel	100	(µg/L)	2.5 B	ND	1.4 B	1.4 B	2.3 B	6.7 B, E	4 B	2.1 B	1.8 B	3.7	ND	ND	ND	1.2 B	1.8 B		
7440-09-7	Potassium	NS	(µg/L)	43,700	29,900	33,900	36,200	45,600	43,500	20,800	42,100 E	47,200	49,400	42,200	40,400	44,300	36,900	40,900		
7782-49-2	Selenium	10	(µg/L)	8.3	ND	ND	ND	ND	3.4 B	ND	10.4	3.4 B	4.5	3.3 B	4.4 B	6.6	4.4 B	ND		
7440-22-4	Silver	50	(µg/L)	0.65 B	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND		
7440-23-5	Sodium	20,000	(µg/L)	47,000	31,000	40,200	33,300	43,700	45900 E	114,000	48,100	68,100	64,100	63,200 E	50,900	64,400	50,100	63,400		
7440-62-2	Vanadium	NS	(µg/L)	21.2 B	10.1 B	11.3 B	8.1 B	13.9 B	34.9 B, E	1.1 B	55.6	19 B	24.8 B	14 B	44.8 B	14.6 B	25.6 B	13.8 B		
7440-66-6	Zinc	2,000 (G)	(µg/L)	2.8 B	3.6 B	10.6 B	7.7 B	4.3 B	3.6 B	4 B	1.8 B	3.5 B	2 B	28.9	3.4 B	5 B	ND	3 B		
57-12-5	Cyanide	200	(µg/L)	48.3	ND	12.9	80	52.3	27.1	ND	39.7	50.3	40.5	16.9	39.4	49	50	46.9		
Total Inorganics				208,937	159,261	173,949	240,899	245,712	225,008	223,550	238,722	225,081	249,078	251,464	195,909	225,740	175,775	203,610		

Notes:

¹ - Standard is for Chlordane (CAS 57-74-9).

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.

NA = Not analyzed/applicable

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

ID7 = 4-Methylphenol concentration is the sum of 3- and 4-Methylphenol.

QSU = Sulfur (EPA 3660) clean-up performed on extract.

B = Compound was found in the blank and sample.

E = Concentration exceeds method limit.

* = LCS or LCSD is outside acceptance limits.



Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples		NYSDEC Class GA	Sample ID: Lab Sample ID:	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2	S-2
Historically Detected Compounds		Groundwater Standards/ Guidance Values	Source: SDG: Matrix: Sampled:	060305-003A	A7E985012	A8E30606	RSI0312-02	RTF0660-03	480-2227-2	480-14339-2	480-23637-2	480-38452-4	480-56862-2	480-70664-4	480-83621-5	480-101880-3	480-114997-6	480-125448-10	480-141984-11
				LSL-BL	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA
				6030950	A07-E985	A08-E150	RSI0296	RTF0798	480-2185	480-14339	480-23637	480-38452	480-38452	480-38452	480-83621	480-101880	480-114997	480-125448	480-141984
				Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
				3/21/2006	12/27/2007	11/10/2008	9/9/2009	6/11/2010	3/4/2011	12/21/2011	8/8/2012	5/16/2013	3/28/2014	11/4/2014	7/9/2015	6/17/2016	3/23/2017	10/8/2017	9/17/2018
CAS NO.	COMPOUND		UNITS:																
VOLATILES																			
67-64-1	Acetone	50 (G)	(µg/L)	5 J, B	ND	ND	ND	ND	ND	ND	4.3 J	ND	ND	ND	ND	ND	ND	5.2 J	14 J
71-43-2	Benzene	1	(µg/L)	ND	ND	ND	0.49 J	ND	ND	ND	0.44 J	ND	ND	0.80 J	ND	0.43 J	ND	0.64 J	ND
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.42 J	ND	ND	ND	ND	ND
108-90-7	Chlorobenzene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND
75-00-3	Chloroethane	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.52 J	ND	ND	ND	ND	ND	ND	ND	ND
75-34-3	1,1-Dichloroethane	5	(µg/L)	2 J	ND	ND	2.2	2.6 DO3, J	0.69 J	0.40 J	1.0	1.1	1.1	1.1	1.2	1.4	ND	0.56 J	ND
156-59-2	cis-1,2-Dichloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
540-59-0	1,2-Dichloroethene (total)	NS	(µg/L)	ND	ND	ND	ND	ND	7.1	2.1	ND	ND	ND	ND	ND	1.1 J	8.2	17	23
100-41-4	Ethylbenzene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100-10-1	4-Methyl-2-pentanone	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	(µg/L)	1 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2 J
127-18-4	Tetrachloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.44 J	ND	ND	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	5	(µg/L)	ND	ND	ND	0.68 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
79-01-6	Trichloroethene	5	(µg/L)	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	0.80 J	ND	ND	1.7	2.9	2.7 J
75-01-4	Vinyl Chloride	2	(µg/L)	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	3.8	ND	ND	1.3	2.8	ND
1330-20-7	Xylene (total)	5	(µg/L)	ND	ND	ND	1.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs				8	ND	ND	5.17	2.6	10.09	4.82	6.18	1.1	1.1	6.92	1.2	2.93	11.2	29.1	41.9
SEMIVOLATILES																			
0.58 J	Acenaphthene	20 (G)	(µg/L)	ND	0.3 J	ND	ND	0.59 J	0.71 J	1.1 J	0.73 J	ND	ND	0.49 J	ND	ND	ND	ND	0.58 J
208-96-8	Acenaphthylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.47 J
120-12-7	Anthracene	50(G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.29 J	ND	ND	ND	ND	ND	ND	ND	0.39 J
56-55-3	Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50-32-8	Benzo[a]pyrene	ND	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.65 J	ND	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5 J	ND	ND	ND	ND	ND
86-74-8	Carbazole	NS	(µg/L)	ND	ND	ND	ND	ND	ND	2.2 J	0.91 J	ND	ND	ND	ND	ND	ND	ND	0.32 J
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	(µg/L)	1 J	0.4 J, B	ND	ND	ND	0.82 J, B	2.3 J	1.3 J	3.3 J	2.3 J, B	0.29 J	ND	ND	ND	0.48 J	ND
117-84-0	Di-n-octyl-phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	0.53 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
132-64-9	Dibenzofuran	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	3	(µg/L)	ND	ND	ND	ND	ND	ND	1.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	1	(µg/L)	7 J	ND	6	15	ND	ND	3.7 J	21	5.8	ND	5.5	3.0 J	1.5 J	ND	3.4 J	3.5 J
131-11-3	Dimethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	48	7.2	36	2.1 J	ND	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	50 (G)	(µg/L)	ND	0.3 J	ND	ND	ND	ND	ND	0.39 J	ND	ND	ND	ND	ND	ND	ND	0.47 J
86-73-7	Fluorene	50 (G)	(µg/L)	ND	0.2 J	ND	ND	ND	ND	0.42 J	0.58 J	ND	ND	0.40 J	ND	ND	ND	ND	0.53 J
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	1.6 J	ND	ND	ND	ND	ND	ND	ND	ND
95-48-7	2-Methylphenol	1	(µg/L)	1 J	ND	0.8 J	4.6 J	ND	ND	ND	ND	0.86 J	ND	1.3 J	0.64 J	ND	ND	1.4 J	1.2 J
106-44-5	4-Methylphenol	1	(µg/L)	3 J	ND	1 J	10 ID7	ND	ND	ND	5.5 J	ND	ND	2.2 J	1.0 J	ND	ND	3.1 J	2.5 J
91-20-3	Naphthalene	10 (G)	(µg/L)	1 J	ND	ND	2.2 J	ND	ND	ND	1.7 J	ND	ND	1.1 J	ND	ND	ND	ND	1.9 J
99-09-2	3-Nitroaniline	5	(µg/L)	ND	ND	ND	ND	0.53 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100-02-7	4-Nitrophenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85-01-8	Phenanthrene	50 (G)	(µg/L)	ND	0.3 J	ND	ND	0.69 J	ND	ND	0.65 J	0.49 J	0.45 J	0.61 J	0.43 J	0.49 J	ND	0.57 J	0.91 J
108-95-2	Phenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.51 J	ND	ND	ND	0.51 J	1.4 J
129-00-0	Pyrene	50 (G)	(µg/L)	ND	0.2 J	ND	ND	ND	ND	ND	0.48 J	ND	ND	ND	ND	ND	ND	ND	ND
95-95-4	2,4,5-Trichlorophenol	NS	(µg/L)	ND	ND	ND	ND	0.89 J	ND	ND	ND	ND	ND	0.45 J	ND	ND	ND	ND	0.89 J
Total SVOCs				13	1.7	6.5	31.8	2.70	1.53	59.35	42.33	46.45	4.85	17.00	5.70	1.99	ND	9.46	14.17

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QSU = Sulfur (EPA 3660) clean-up performed on extract.
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Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	S-2 0603095-003A LSL-BL 6030950 Water 3/21/2006	S-2 A7E985012 TA A07-E985 Water 12/27/2007	S-2 A8E30606 TA A08-E150 Water 11/10/2008	S-2 RSI0312-02 TA RSI0296 Water 9/9/2009	S-2 RTF0860-03 TA RTF0798 Water 6/11/2010	S-2 480-2227-2 TA 480-2185 Water 3/4/2011	S-2 480-14339-2 TA 480-14339 Water 12/21/2011	S-2 480-23637-2 TA 480-23637 Water 8/8/2012	S-2 480-38452-4 TA 480-38452 Water 5/16/2013	S-2 480-56862-2 TA 480-38452 WATER 3/28/2014	S-2 480-70664-4 TA 480-38452 WATER 11/4/2014	S-2 480-83621-5 TA 480-83621 WATER 7/9/2015	S-2 480-101880-3 TA 480-101880 WATER 6/17/2016	S-2 480-114997-6 TA 480-114997 WATER 3/23/2017	S-2 480-125448-10 TA 480-125448 WATER 10/8/2017	S-2 480-141984-11 TA 480-141984 WATER 9/17/2018	S-2 480-155595-7 TA 480-155595 WATER 6/26/2019
CAS NO.	COMPOUND	UNITS:																		
PESTICIDES																				
309-00-2	Aldrin	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	(µg/L)	ND	ND	ND	ND	0.013 QSU, J	ND	ND	ND	ND	ND	0.011 J B	ND	ND	ND	ND	ND	ND
319-85-7	beta-BHC	0.04	(µg/L)	0.0026 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
319-86-8	delta-BHC	0.04	(µg/L)	0.018 J, P, B	ND	0.032 J B	ND	ND	ND	ND	ND	0.014 J	ND	ND	ND	ND	ND	ND	ND	0.015 JB
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	0.00066 J, P	ND	0.033 J	ND	0.011 QSU, J	ND	ND	ND	0.015 J	ND	ND	ND	ND	ND	0.011 J	0.011 J	ND
5103-71-9	alpha-Chlordane	0.05	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.026 J	ND
5566-34-7	gamma-Chlordane	0.05 ¹	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.013 J	0.016 J	ND	ND	ND	ND	ND	ND	ND
5103-74-2	trans-Chlordane	0.05 ¹	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.049 JB
72-54-8	4,4'-DDD	0.3	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.12 B	ND	ND	ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	(µg/L)	ND	ND	ND	0.024 J	ND	ND	ND	ND	0.021 J	ND	ND	ND	ND	ND	ND	ND	ND
50-29-3	4,4'-DDT	0.2	(µg/L)	ND	ND	0.036 J	ND	ND	ND	ND	ND	0.023 J	ND	ND	ND	ND	ND	0.014 J	ND	ND
60-57-1	Dieldrin	0.004	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	(µg/L)	0.015 J	0.0050 J	0.063	ND	ND	ND	ND	ND	0.11	ND	ND	ND	0.017 J	ND	ND	ND	ND
33213-65-9	Endosulfan II	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
72-20-8	Endrin	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	(µg/L)	0.0015 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
53494-70-5	Endrin ketone	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014 J
76-44-8	Heptachlor	0.04	(µg/L)	ND	0.023 J	0.032 J	ND	0.011 QSU, J	ND	ND	ND	0.022 J	0.039 J	ND	ND	ND	ND	ND	ND	0.018 J
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.0089 J	ND	ND	ND	ND	ND	ND	ND	ND
72-43-5	Methoxychlor	35	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides				0.0378	0.0280	0.196	0.024	0.035	ND	ND	ND	0.3469	0.0550	0.0110	ND	0.017	ND	0.025	0.037	0.096
PCBs																				
53469-21-9	Aroclor-1242	Sum of all PCBs	(µg/L)	ND	0.33 J	0.41 J	ND	ND	ND	0.46 J	0.46 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
12672-29-6	Aroclor-1248	< 0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24 J	0.19 J	0.31 J	ND
11096-82-5	Aroclor-1260		(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND *	ND
Total PCBs				ND	0.33	0.41	ND	ND	ND	0.46	0.46	ND	ND	ND	ND	ND	0.24	0.19	0.31	ND
INORGANICS																				
7429-90-5	Aluminum	NS	(µg/L)	308	206	161 B	159 B, J	176 J	94 J	ND	460	140 J	6.8 J	280	300	140 J	180 J	320	310	180 J
7440-36-0	Antimony	3	(µg/L)	3.6 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-38-2	Arsenic	25	(µg/L)	3.2 B	ND	6.1 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-39-3	Barium	1,000	(µg/L)	34.8	39.0	41.0	35.5	30.8	23	100	110 B	38	2.7	33	47	48	53	71	97	70
7440-41-7	Beryllium	3 (G)	(µg/L)	ND	0.38 B	0.44 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-43-9	Cadmium	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-70-2	Calcium	NS	(µg/L)	83,700	61,800	86,400	74,400 B	72,500	18,700 B	83,100 B	65,800	84,600	49,200	66,200	97,600	82,400 B	71,300	111,000	107,000	96,700
7440-47-8	Chromium	50	(µg/L)	ND	ND	ND	0.9 J	1.3 J	ND	3.7 J	1.6 J	5.1	ND	5.6	ND	ND	ND	ND	ND	11
7440-48-4	Cobalt	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.82 J	ND	ND	ND	ND	ND	ND	ND	ND
7440-50-8	Copper	200	(µg/L)	3.8 B	2.9 B	ND	2.8 J	21.6 CF6	9.9 J	2.8 J	7.8 J	ND	ND	ND	ND	ND	2.3 J	ND	ND	3.9 J
7439-89-6	Iron	300	(µg/L)	705	42.3 B	44.7 B	78	470 CF6	740	4,700	3,400	7,600	110	300	53	110	ND	ND	ND	630
7439-92-1	Lead	25	(µg/L)	ND	ND	ND	ND	ND	ND	3.3 J	ND	ND	ND	4.1 J	ND	ND	3.8 J	ND	ND	ND
7439-95-4	Magnesium	35,000 (G)	(µg/L)	70.1 B	77.5 B	ND	ND	ND	2,500	17,600	7,400	430	980	370	57 J	260	ND	ND	ND	300
7439-96-5	Manganese	300	(µg/L)	3.9 B, E	0.45 B	ND	0.6 J	2.8 J	41	540	430	200 B	8	4	0.47 J B	6.7	ND	ND	ND	18
7439-97-6	Mercury	0.7	(µg/L)	0.011 B	ND	0.122 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-02-0	Nickel	100	(µg/L)	3.1 B	ND	1.8 B	1.8 J	ND	1.9 J	7.8 J	2.6 J	31	1.8 J	1.3 J	ND	2.3 J	ND	ND	ND	4.0 J
7440-09-7	Potassium	NS	(µg/L)	38,100	36,400	40,300	39,700	42,300	29,100	15,800	27,600	38,100	37,500	36,100	49,000	53,600	28,900	35,200	32,600	48,400
7782-49-2	Selenium	10	(µg/L)	ND	7.7 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-22-4	Silver	50	(µg/L)	ND	1.3 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-23-5	Sodium	20,000	(µg/L)	57,400	44,900	64,000	56,700	59,800	46,400	33,900	63,200	45,400	46,800	46,200	67,000	105,000	42,700	53,100	53,900	134,000
7440-62-2	Vanadium	NS	(µg/L)	12.6 B	72.4	19.1	13.3	11.5	27	1.6 J	9.1	4.2 J	6.1	11	17	9.5	12	4.7 J	4.4	6.1
7440-66-6	Zinc	2,000 (G)	(µg/L)	84.7	ND	5.1 B	2.8 J	3.4 J	6.5 J	46	20	19	1.6 J	3.2	34	69 B	2.4 J B	1.8 J	ND	65 B
57-12-5	Cyanide	200	(µg/L)	38.6	0.031	0.060	ND	63.9	18	ND	29	21	3.5	34	28	30	12	10	13	46 *
Total Inorganics				180,471	143,550	190,979	171,095	175,381	97,661	155,805	168,470	176,589	176,589	176,589	214,136	241,676	143,166	199,708	193,924	280,254

Notes:
¹ - Standard is for Chlordane (CAS 57-74-9).
NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.
NA = Not analyzed/applicable
NS = No Standard
(G) = Guidance Value
ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.
J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
ID7 = 4-Methylphenol concentration is the sum of 3- and 4-Methylphenol.
QSU = Sulfur (EPA 3660) clean-up performed on extract.
B = Compound was found in the blank and sample.
E = Concentration exceeds method limit.
* = LCS or LCSD is outside acceptance limits.



Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	S-3 G5120 OBG 5116 Water 11/20/1997	S-3 H0920 OBG 6847 Water 2/18/1998	S-3 H7393 OBG 7810 Water 5/27/1998	S-3 J8339 OBG 9571 Water 10/21/1998	S-3 M0189 OBG 1489 Water 4/19/1999	S-3 N4873 OBG 3856 Water 11/8/1999	S-3 Q3848 OBG 5490 Water 4/26/2000	S-3 R7148 OBG 7645 Water 12/13/2000	S-3 S7282 OBG 9259 Water 6/19/2001	S-3 T6807 OBG 724 Water 12/11/2001	S-3 V4307 OB 2494 Water 6/17/2002	S-3 Z9835 OB 4203 Water 12/19/2002	S-3 A7428 OB 5716 Water 6/24/2003	S-3 B4290 OB 6968 Water 12/16/2003	S-3 E1070 OB 6968 Water 6/7/2004	S-3 0508015-005A OB 200508 Water 8/2/2005
CAS NO.	COMPOUND		UNITS:																
VOLATILES																			
67-64-1	Acetone	50 (G)	(µg/L)	ND	7 J	ND	6 J	5 J	ND	ND	7 J	4 J	ND	ND	4 J, B	ND	ND	3 J, B	5 J, B
71-43-2	Benzene	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	8 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108-90-7	Chlorobenzene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-34-3	1,1-Dichloroethane	5	(µg/L)	2 J	2 J	2 J	ND	3 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J
156-59-2	cis-1,2-Dichloroethene	5	(µg/L)	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5 J
540-59-0	1,2-Dichloroethene (total)	NS	(µg/L)	2 J	2 J	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100-41-4	Ethylbenzene	5	(µg/L)	ND	4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108-10-1	4-Methyl-2-pentanone	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	2 J	ND
75-09-2	Methylene chloride	5	(µg/L)	ND	ND	ND	2 J	1 J, B	ND	ND	ND	ND	2 J, B	1 J	1 J, B	0.5 J	ND	0.7 J, B	0.8 J, B
127-18-4	Tetrachloroethene	5	(µg/L)	1 J	2 J	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	5	(µg/L)	1 J	17	4 J	ND	1 J	ND	ND	ND	1 J	0.7 J	ND	ND	0.7 J	ND	0.8 J	1 J
79-01-6	Trichloroethene	5	(µg/L)	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1330-20-7	Xylene (total)	5	(µg/L)	3 J	25	9 J	ND	4 J	3 J	4 J	2 J	4 J	2 J	3 J	ND	1 J	0.9 J	1 J	2 J
Total VOCs				9	60	16	8	26	7	6	11	11	6.7	6	8	4.2	2.9	9.5	11.3
SEMIVOLATILES																			
95-95-4	2,4,5-Trichlorophenol	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
83-32-9	Acenaphthene	20 (G)	(µg/L)	ND	ND	ND	ND	3 J	2 J	ND	ND	1 J	ND	ND	ND	ND	ND	1 J	ND
208-96-8	Acenaphthylene	NS	(µg/L)	ND	ND	ND	ND	4 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
56-55-3	Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	94 J, D	1 J	5 J	1.3 J
50-32-8	Benzo[a]pyrene	ND	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	79 J, D	ND	4 J	1.9 J
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110 J, D	2 J	6 J	3.7 J
131-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 J	1 J
207-08-9	Benzo[k]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	93 J, D	ND	4 J	1.7 J
117-81-7	bis(2-Ethylhexyl)phthalate	5	(µg/L)	ND	ND	7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	140 J, D	2 J	15 J	18
86-74-8	Carbazole	NS	(µg/L)	ND	ND	ND	ND	2 J	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
59-50-7	4-Chloro-3-methylphenol	1	(µg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	92 J, D	ND	4 J	1.2 J
106-46-7	1,4-Dichlorobenzene	3	(µg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
132-64-9	Dibenzofuran	NS	(µg/L)	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	1	(µg/L)	43	54	43	ND	28	13	12	4 J	14	10	19	ND	ND	6 J	13	28
131-11-3	Dimethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	210 J, D	2 J	7 J	1.5 J
86-73-7	Fluorene	50 (G)	(µg/L)	ND	ND	ND	ND	2 J	2 J	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND
91-57-6	2-Methylnaphthalene	NS	(µg/L)	1 J	2 J	2 J	ND	4 J	2 J	ND	ND	ND	ND	1 J	ND	ND	ND	ND	1 J
95-48-7	2-Methylphenol	1	(µg/L)	16	19	15	ND	10 J	8 J	6 J	2 J	10	ND	14	ND	ND	1 J	ND	8.4 J
106-44-5	4-Methylphenol	1	(µg/L)	49	58	44	ND	25	20	15	ND	22	3 J	33	ND	ND	4 J	ND	19
91-20-3	Naphthalene	10 (G)	(µg/L)	3 J	6 J	5 J	ND	40	13	6 J	ND	5 J	4 J	7 J	ND	ND	ND	ND	4 J
85-01-8	Phenanthrene	50 (G)	(µg/L)	ND	ND	1 J	ND	2 J	2 J	ND	ND	1 J	1 J	ND	ND	ND	ND	ND	ND
108-95-2	Phenol	1	(µg/L)	6 J	18	5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	290 J, D	3 J	17	8.6 J
Total SVOCs				118	157	122	ND	122	65	39	7	53	18	74	ND	1108	21	81	99.3

Notes:

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B = Compound was found in the blank and sample.

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Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3
				G5120	H0920	H7393	J8339	M0189	N4873	Q3848	R7148	S7282	T6807	V4307	Z9835	A7428	B4290	E1070
				OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OBG	OB	OB	OB	OB	OB
				5116	6847	7810	9571	1489	3856	5490	7645	9259	724	2494	4203	5716	6968	6968
				Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
				11/20/1997	2/18/1998	5/27/1998	10/21/1998	4/19/1999	11/8/1999	4/26/2000	12/13/2000	6/19/2001	12/11/2001	6/17/2002	12/19/2002	6/24/2003	12/16/2003	6/7/2004
CAS NO.	COMPOUND		UNITS:															
PESTICIDES																		
309-00-2	Aldrin	NS	(µg/L)	ND	ND	ND	ND	ND	ND	0.0029 J, P	0.002 J, P	ND	ND	0.036 J, P	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0015 J, P
319-85-7	beta-BHC	0.04	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0053 J, P	ND	ND	0.024 J, P	0.026 J, P
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.017 J, P	0.041 J, P	0.021 J, P
5103-71-9	alpha-Chlordane	0.05	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.39 P	ND	ND
5103-74-2	gamma-Chlordane	0.05	(µg/L)	ND	ND	0.019 J, P	0.003 J, P	0.00072 B, J, P	0.0032 J, P	ND	ND	ND	0.012 J, P	ND	0.13 P	ND	ND	0.0022 J, P
72-54-8	4,4'-DDD	0.3	(µg/L)	ND	ND	ND	ND	0.00049 J, P	ND	0.0013 J, P	0.0032 J, P	ND	ND	ND	ND	8 P	ND	ND
72-55-9	4,4'-DDE	0.2	(µg/L)	ND	ND	0.0047 J, P	0.0024 J, P	ND	ND	ND	ND	ND	ND	ND	0.18 P	2.8 P	0.092 J, P	0.1
50-29-3	4,4'-DDT	0.2	(µg/L)	ND	ND	ND	ND	0.00077 J, P	ND	ND	0.0052 J, P	ND	0.0058 J	0.0097 J, P	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	(µg/L)	ND	ND	0.0044 J, P	ND	0.00047 J, P	ND	ND	ND	ND	0.018 J	ND	0.21	2.4 P	ND	0.092 B, J, P
959-98-8	Endosulfan I	NS	(µg/L)	ND	ND	0.0032 J, P	ND	ND	ND	ND	0.0078 J, P	ND	0.0038 J, P	0.0064 J, P	0.059 P	2.2 P	0.025 J, P	0.033 J, P
35213-85-8	Endosulfan II	NS	(µg/L)	ND	0.0059 J	ND	0.005 J, P	0.00084 J, P	0.0023 J	ND	ND	0.008 J, P	ND	ND	ND	1.6 P	ND	0.067 J, P
1031-07-9	Endosulfan sulfate	NS	(µg/L)	ND	0.0017 J, P	0.068 J, P	0.0069 B, J, P	0.0014 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.021 J, P
72-20-8	Endrin	NS	(µg/L)	ND	ND	0.36 P	ND	ND	ND	ND	0.0087 J	ND	0.012 J, P	ND	ND	ND	0.066 J, P	0.095 J, P
7421-93-4	Endrin aldehyde	5	(µg/L)	ND	ND	ND	0.0075 J	0.0016 J	ND	ND	0.0061 J	ND	0.011 B, J, P	ND	0.07 J, P	0.72 P, B	ND	0.11 P
53494-70-5	Endrin ketone	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003 J, P	ND	ND	ND	0.1 P	0.009 J, P
76-44-8	Heptachlor	0.04	(µg/L)	ND	0.0082 J, P	ND	ND	ND	ND	ND	ND	ND	0.0017 J, P	0.0046 J	ND	0.85 P	0.041 P, J	0.07 P
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	ND	0.00073 J	0.0026 J, P	ND	ND	ND	ND	0.002 J, P	ND	ND	0.2 P, J	ND	0.29 P
72-43-5	Methoxychlor	35	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.038
Total Pesticides				ND	0.0158	0.4593	0.02553	0.00889	0.0055	0.0042	0.033	0.008	0.0693	0.062	0.649	19.16	0.299	0.5187
PCBs																		
12674-11-2	Aroclor-1016		(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11141-16-2	Aroclor-1232		(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
53469-21-9	Aroclor-1242	Sum of all PCBs	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12672-29-6	Aroclor-1248	< 0.09	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	130 P	5.2 P	14
11096-82-5	Aroclor-1260		(µg/L)	ND	ND	0.82 J, P	ND	0.52 J, P	ND	ND	ND	ND	ND	ND	ND	130	5.2 P	2.8
Total PCBs				ND	ND	0.82	ND	0.52	ND	ND	ND	ND	ND	ND	13	130	5.2	2.8
INORGANICS																		
7429-90-5	Aluminum	NS	(µg/L)	620	415	460	100 B	298	382	443	280 E	534	556	388	497	536	489	343
7440-36-0	Antimony	3	(µg/L)	10.7 B	2.8 B	5.3 B	12.6 B	5.1 B	4.7 B	3.4 B	8.2 B	4.6 B	3.2 B	2.8 B	3.8 B	2 B	3.2 B	6.2 B
7440-38-2	Arsenic	25	(µg/L)	9.2 B	ND	9.3 B	4.9 B	3.8 B	4.4 B	4.3 B	2.6 B	3.3 B	4.2 B	3.6 B	4.8 B	3.7 B	2.6 B	4.9 B
7440-39-3	Barium	1,000	(µg/L)	55.2 B	51.2 B	44.4 B	54.8 B	56.6 B	50.3 B	52.3 B	64 B	40 B	38.5 B	32.8 B	36.6 B	37.6 B	31.1 B	34.6 B
7440-41-7	Beryllium	3 (G)	(µg/L)	ND	ND	ND	ND	ND	0.18 B	ND	0.26 B	ND	ND	ND	ND	ND	ND	ND
7440-70-2	Calcium	NS	(µg/L)	126,000	136,000	113,000	112,000	151,000	145,000	169,000	201,000	145,000	132,000	106,000	91,800	107,000	85,100	93,600
7440-47-8	Chromium	50	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-50-8	Copper	200	(µg/L)	1.4 B	1.4 B	1 B	4.6 B	1.1 B	ND	0.75 B	1.4 B	ND	ND	ND	ND	1.2 B	ND	1.1 B
7439-89-6	Iron	300	(µg/L)	67.1 B	21.6 B	41.6 B	708	62.3 B	75.8 B	61.6 B	61.4 B	127	40.7 B	36.6 B	61.7 B	127	120	86.6 B
7439-92-1	Lead	25	(µg/L)	ND	ND	ND	ND	ND	ND	ND	1.7 B	ND	ND	ND	ND	ND	ND	1 B
7439-95-4	Magnesium	35,000 (G)	(µg/L)	27.4 B	53.6 B	ND	546 B	46.8 B	60.7 B	121 B	2,140 B	282 B	213 B	317 B	152 B	131 B	182 B	532 B
7439-96-5	Manganese	300	(µg/L)	0.7 B	ND	ND	14.8 B	ND	0.39 B	ND	4.1 B	8.2 B	ND	6.6 B	0.92 B	4.5 B	5.1 B	2.4 B
7439-97-6	Mercury	0.7	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06 B	ND	0.027 B
7440-02-0	Nickel	100	(µg/L)	2.5 B	1.1 B	2.4 B	1.9 B	2.5 B	2.8 B, E	ND	2.1 B	2.3 B	3.2 B	ND	ND	ND	3.4 B	10.3 B
7440-09-7	Potassium	NS	(µg/L)	53,000	44,700	47,400	38,500	47,100	48,500	54,100	53600 E	49,900	48,800	43,100	41,300	44,600	37,400	44,700
7782-49-2	Selenium	10	(µg/L)	8.1	ND	ND	ND	ND	5.3	ND	26	3.6 B	4.4 B	2.5 B	2.8 B	6	3.3 B	ND
7440-22-4	Silver	50	(µg/L)	0.85 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-23-5	Sodium	20,000	(µg/L)	51,500	45,600	49,400	32,500	44,300	46,200 E	61,300	54,200	72,400	63,600	64,700 E	55,900	64,800	52,200	70,400
7440-62-2	Vanadium	NS	(µg/L)	20.9 B	13.1 B	14.2 B	5.5 B	16.5 B	12.6 B, E	15.1 B	45 B	19.2 B	15.7 B	16.9 B	27.5 B	16 B	17 B	10.1 B
7440-66-6	Zinc	2,000 (G)	(µg/L)	4.3 B	4.9 B	8.4 B	26.1	ND	6.3 B	3.4 B	1.2 B	3.8 B	ND	23.6	2.2 B	17 B	35.6	5.5 B
57-12-5	Cyanide	200	(µg/L)	49.5		32.5	69	15.6	25.3	39.9	23	28.2	47.9	40.6	49.9	40.2	40.6	48.2
Total Inorganics				231,378	226,865	210,419	184,548	242,908	240,331	285,145	311,461	268,356	245,327	214,671	189,839	217,322	175,632	209,793

Notes:

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Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples Historically Detected Compounds		NYSDC Class GA Groundwater Standards/ Guidance Values	Sample ID:	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3	S-3	DUP (S-3)	S-3	S-3	S-3
Lab Sample ID: Source: SDG: Matrix: Sampled:			0603095-004A	A7E985013	A8E30607	RSI0312-03	RTF0860-04	480-2227-3	480-14339-3	480-23637-3	480-38452-1	480-56862-3	480-70664-5	480-83621-6	480-101880-4	480-114997-7	480-114997-8	480-125448-2	480-141984-12	480-155595-8	
			LSL-BL	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA
			6030950	A07-E985	A08-E150	RSI0296	RTF0798	480-2185	480-14339	480-23637	480-38452	480-38452	480-38452	480-38452	480-38452	480-38452	480-101880	480-114997	480-114997	480-125448	480-141984
			Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
			3/21/2006	12/27/2007	11/10/2008	9/9/2009	6/11/2010	3/4/2011	12/21/2011	8/8/2012	5/16/2013	3/28/2014	11/4/2014	7/9/2015	6/17/2016	3/23/2017	3/23/2017	10/4/2017	9/17/2018	6/26/2019	
CAS NO.	COMPOUND		UNITS:																		
VOLATILES																					
67-64-1	Acetone	50 (G)	(µg/L)	2 J, B	ND	ND	2.1 J	ND	ND	ND	ND	3.3 J	ND	ND	ND	ND	ND	ND	ND	ND	
71-43-2	Benzene	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.50 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
108-90-7	Chlorobenzene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
75-34-3	1,1-Dichloroethane	5	(µg/L)	2 J	ND	ND	1.5	ND	2.0	1.8	2.2	1.8	0.50 J	1.9	0.86 J	1.7	1.5	1.8	2.2	1.6 J	
156-59-2	cis-1,2-Dichloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
540-59-0	1,2-Dichloroethene (total)	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4 J	1.1 J	1.3 J	2.0 J	ND	
100-41-4	Ethylbenzene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
108-10-1	4-Methyl-2-pentanone	NS	(µg/L)	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
75-09-2	Methylene chloride	5	(µg/L)	1 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4 J	2.1 J	
127-18-4	Tetrachloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.49 J	ND	ND	0.39 J	ND	0.48 J	ND	0.54 J	ND	ND	
108-88-3	Toluene	5	(µg/L)	ND	ND	ND	ND	ND	0.67 J	0.68 J	0.94 J	ND	ND	0.69 J	ND	ND	0.53 J	ND	ND	ND	
79-01-6	Trichloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1330-20-7	Xylene (total)	5	(µg/L)	ND	ND	ND	1.0 J	ND	0.95 J	1.7 J	2.5	ND	ND	1.7 J	ND	ND	0.66 J	0.72 J	1.4 J	ND	
Total VOCs				6	ND	ND	4.6	ND	3.62	4.18	6.63	1.8	3.80	4.68	0.86	3.58	3.79	4.36	7.0	3.7	
SEMIVOLATILES																					
95-95-4	2,4,5-Trichlorophenol	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.52 J	ND	ND	ND	ND	0.81 J	0.89 J	1.4 J	ND	
83-32-9	Acenaphthene	20 (G)	(µg/L)	ND	0.5 J	0.6 J	ND	0.69 J	0.51 J	0.65 J	0.74 J	ND	0.44 J	0.66 J	ND	1.1 J	0.62 J	0.69 J	0.84 J	ND	
208-96-8	Acenaphthylene	NS	(µg/L)	ND	0.2 J	0.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.39 J	ND	0.48 J	ND	
56-55-3	Benzo[a]anthracene	0.002 (G)	(µg/L)	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
50-32-8	Benzo[a]pyrene	ND	(µg/L)	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.65 J	ND	ND	ND	ND	ND	ND	
191-24-2	Benzo[g,h,i]perylene	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
207-08-9	Benzo[k]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
117-81-7	bis(2-Ethylhexyl)phthalate	5	(µg/L)	6 J	ND	ND	ND	ND	2.6 J, B	ND	ND	ND	ND	3.4 J	ND	ND	ND	ND	ND	ND	
86-74-8	Carbazole	NS	(µg/L)	ND	ND	0.5 J	ND	0.54 J	0.42 J	0.48 J	0.49 J	ND	ND	0.39 J	ND	1.4 J	0.42 J	0.45 J	ND *	ND	
59-50-7	4-Chloro-3-methylphenol	1	(µg/L)	-	-	-	-	-	-	-	-	-	-	-	-	3.1 J	ND	ND	ND	ND	
218-01-9	Chrysene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
106-46-7	1,4-Dichlorobenzene	3	(µg/L)	ND	-	-	-	-	-	-	-	-	-	-	-	0.68 J	ND	ND	ND	ND	
84-74-2	Di-n-butyl phthalate	50	(µg/L)	1 J	0.3 J, B	0.7 J, B	ND	ND	0.92 J, B	ND	0.39 J	0.49 J	0.56 J, B	0.31 J	0.49 J	ND	ND	ND	ND	ND	
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5 J	ND	ND	ND	ND	ND	ND	
132-64-9	Dibenzofuran	NS	(µg/L)	ND	ND	0.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	0.8 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
105-67-9	2,4-Dimethylphenol	26	(µg/L)	26	4 J	14	11	8.9	7.3	10	11	18	22	18	11	18	14	14	58	60	
131-11-3	Dimethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5 J	3.9 J	ND	ND	ND *	ND	
206-44-0	Fluoranthene	50 (G)	(µg/L)	ND	0.3 J	0.4 J, B	ND	ND	0.44 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
86-73-7	Fluorene	50 (G)	(µg/L)	ND	0.4 J	0.6 J	ND	ND	0.59 J *	0.37 J	0.65 J	ND	ND	0.56 J	ND	0.71 J	0.56 J	0.55 J	0.67 J	ND	
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
91-57-6	2-Methylnaphthalene	NS	(µg/L)	ND	0.3 J	0.6 J, B	ND	ND	0.70 J	0.67 J	ND	ND	ND	ND	ND	0.66 J	ND	ND	ND	ND	
95-48-7	2-Methylphenol	1	(µg/L)	9 J	0.6 J	3 J	3.5 J	8.5	7.1	8.8	5.1	7.2	7.1	13	2.7	4.2 J	11	12	36	20 J	
106-44-5	4-Methylphenol	1	(µg/L)	21	1 J	6	7.4 J ID7	22	15	19	6.7 J	16	16	25	3.3 J	ND	22	23	74	40 J	
91-20-3	Naphthalene	10 (G)	(µg/L)	4 J	1 J	2 J, B	1.2 J	2.1 J	1.8 J	3.0 J	2.9 J	1.9 J	2.8 J	1.7 J	1.7 J	ND	2.4 J	2.4 J	4.9 J	4.1 J	
85-01-8	Phenanthrene	50 (G)	(µg/L)	ND	0.8 J	0.9 J, B	ND	0.93 J	0.86 J	ND	0.92 J	0.60 J	0.55 J	0.82 J	0.51 J	0.59 J	0.81 J	0.57 J	0.78 J	ND	
108-95-2	Phenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	0.2 J	ND	ND	0.40 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total SVOCs				69	9.6	31.0	23.1	43.66	37.94	43.00	29.56	44.71	49.45	66.99	21.20	34.34	53.01	54.55	177.07	124.1	

Notes:

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.

NA = Not analyzed/applicable

- = May not have been previously analyzed.

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

ID7 = 4-Methylphenol concentration is the sum of 3- and 4-Methylphenol.

CF6 = Results confirmed by reanalysis

B = Compound was found in the blank and sample.

E = Concentration exceeds method limit.

* = RPD of the LCS and LCSD exceeds the control limits



Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	S-3 0603095-004A LSL-BL 6030950 Water 3/21/2006	S-3 A7E985013 TA A07-E985 Water 12/27/2007	S-3 A8E30607 TA A08-E150 Water 11/10/2008	S-3 RSI0312-03 TA RSI0296 Water 9/9/2009	S-3 RTF0860-04 TA RTF0798 Water 6/11/2010	S-3 480-2227-3 TA 480-2185 Water 3/4/2011	S-3 480-14339-3 TA 480-14339 Water 12/21/2011	S-3 480-23637-3 TA 480-23637 Water 8/8/2012	S-3 480-38452-1 TA 480-38452 Water 5/16/2013	S-3 480-56862-3 TA 480-38452 WATER 3/28/2014	S-3 480-70664-5 TA 480-38452 WATER 11/4/2014	S-3 480-83621-6 TA 480-83621 WATER 7/9/2015	S-3 480-101880-4 TA 480-101880 WATER 6/17/2016	S-3 480-114997-7 TA 480-114997 WATER 3/23/2017	DUP (S-3) 480-114997-8 TA 480-114997 WATER 3/23/2017	S-3 480-125448-2 TA 480-125448 WATER 10/4/2017	S-3 480-141984-12 TA 480-141984 WATER 9/17/2018	S-3 480-155595-8 TA 480-155595 WATER 6/26/2019
CAS NO.	COMPOUND		UNITS:																		
PESTICIDES																					
309-00-2	Aldrin	NS	(µg/L)	0.0039 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.022 J B	ND	ND	ND	ND	ND	ND	ND
319-85-7	beta-BHC	0.04	(µg/L)	0.0093 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	0.018 J, P	ND	0.038 J	0.026 J	0.013 QSU, J	ND	ND	ND	0.014 J	0.01 J	ND	ND	ND	ND	ND	0.0089 J	ND	ND
5103-71-9	alpha-Chlordane	0.05	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5103-74-2	gamma-Chlordane	0.05	(µg/L)	ND	ND	ND	ND	0.013 QSU, J	ND	ND	ND	0.012 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
72-54-8	4,4'-DDD	0.3	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	(µg/L)	0.12 P	ND	ND	ND	ND	ND	ND	ND	0.020 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
50-29-3	4,4'-DDT	0.2	(µg/L)	ND	ND	0.041 J	0.028 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	(µg/L)	0.035 J, P	ND	0.051	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.019 J
33213-65-9	Endosulfan II	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	(µg/L)	0.0057 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
72-20-8	Endrin	NS	(µg/L)	0.066 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
53494-70-5	Endrin ketone	5	(µg/L)	0.0072 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.021 J
76-44-8	Heptachlor	0.04	(µg/L)	ND	0.023 J	0.080	0.016 J	ND	ND	ND	ND	0.0091 J	0.018 J	ND	ND	ND	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	0.027 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
72-43-5	Methoxychlor	35	(µg/L)	0.068	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.2	ND	ND	ND	ND	ND
Total Pesticides				0.3331	0.023	0.237	0.070	0.026	ND	ND	ND	0.0551	0.030	0.022	ND	5.2	ND	ND	ND	0.0089	0.040
PCBs																					
12674-11-2	Aroclor-1016		(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25 J	ND	ND	ND	ND	ND	ND	ND	ND
11141-13-5	Aroclor-1232		(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.74	ND	ND	4.2	ND	ND	ND	ND
53469-21-9	Aroclor-1242	Sum of all PCBs	(µg/L)	ND	0.39 J	0.44 J	ND	0.20 QSU, J	ND	0.30 J	0.93	0.24 J	ND	ND	ND	ND	0.61	0.36 J	0.46 J	0.68	ND
12672-29-6	Aroclor-1248	< 0.09	(µg/L)	4.8 P	ND	ND	ND	ND	0.41 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11096-82-5	Aroclor-1260		(µg/L)	2.1	ND	ND	ND	ND	0.29 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND *	ND	ND
Total PCBs				6.9	0.39	0.44	ND	0.20	0.70	0.30	0.93	0.24	0.25	0.74	ND	4.2	0.61	0.36	0.46	0.68	ND
INORGANICS																					
7429-90-5	Aluminum	NS	(µg/L)	271	474	496	309 B	308	280	200	290	320	200	370	130 J	ND	410	420	400	380	270
7440-36-0	Antimony	3	(µg/L)	3.2 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-38-2	Arsenic	25	(µg/L)	4.4 B	5.7 B	7.9 B	ND	7.0 J	ND	ND	6.4 J	5.7 J	ND	ND	ND	7.0 J	ND	ND	ND	ND	ND
7440-39-3	Barium	1,000	(µg/L)	29 B	34.9	34.9	27.8	30	24	24	29 B	33	33	34	40	93	47	45	44	68	66
7440-41-7	Beryllium	3 (G)	(µg/L)	ND	0.38 B	0.40 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-70-2	Calcium	NS	(µg/L)	72,800	63,000	74,100	59,100 B	59,600	52,200 B	45,400 B	54,100	57,600	54,600	60,500	55,800	212,000 B	76,500	74,900	74,500	94,100	73,800
7440-47-8	Chromium	50	(µg/L)	ND	1.6 B	1.3 B	ND	ND	1.7 J	ND	ND	1.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-50-8	Copper	200	(µg/L)	ND	ND	1.6 B	ND	ND	2.3 J	1.7 J	ND	4.4 J	ND	ND	1.8 J	4.4 J	4.4 J	1.7 J	ND	ND	2.7 J
7439-89-6	Iron	300	(µg/L)	153	20.5 B	118	26 J	36 J	300	55	37 J	64	41 J	52	670	480	40 J	34 J	32 J	62	1,800
7439-92-1	Lead	25	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8	ND	ND	3.8 J	ND	3.3 J	3.2 J	3.5 J
7439-95-4	Magnesium	35,000 (G)	(µg/L)	343 B	557	193 B	56 J	77 J	ND	77 J	ND	240	1,000	560	7,400	3,700	160 J	160 J	81 J	240	2,800
7439-96-5	Manganese	300	(µg/L)	0.72 B, E	0.79 B	0.94 B	1.0 J	0.2 J	2.3 J	0.55 J	ND	0.79 J B	3.2	9.9	38 B	180	ND	ND	ND	1.3 J	110
7439-97-6	Mercury	0.7	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-02-0	Nickel	100	(µg/L)	4 B	2.2 B	2.0 B	2.6 J	1.4 J	1.6 J	1.9 J	1.4 J	1.9 J	ND	ND	19	2.0 J	ND	ND	1.3 J	ND	ND
7440-09-7	Potassium	NS	(µg/L)	39,400	38,700	39,700	41,000	43,500	35,300	35,100	39,900	42,900	36,800	44,400	25,500	89,300	54,800	55,100	59,500	78,300	52,300
7782-49-2	Selenium	10	(µg/L)	3.3 B	12.3 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-22-4	Silver	50	(µg/L)	1.2 B	1.5 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-23-5	Sodium	20,000	(µg/L)	60,700	48,900	61,500	58,500	61,100	51,700	47,100	51,800	54,000	41,700	54,700	28,500	91,900	99,800	100,000	112,000	226,000	163,000
7440-62-2	Vanadium	NS	(µg/L)	10.6 B	39.1	22.4	15.6	11.8	35	39	16	33	7.4	12	4.6 J	3.5 J	22	20	7.2	6.9	6.1
7440-66-6	Zinc	2,000 (G)	(µg/L)	24.4	ND	ND	33.3	2.1 J	3.0 J	ND	ND	2.2 J	2.1 J	ND	790	25 B	2.6 J B	2.3 J B	1.8 J	4.4 J B	50 B
57-12-5	Cyanide	200	(µg/L)	50.6	0.045	0.022	46.5 CF6	62.9 CF6	44	49	66	54	ND	36 B	19	ND	39	65	30	45	58 *
Total Inorganics				173,798	151,750	176,178	159,118	164,736	139,894	128,048	146,246	155,260	134,387	160,680	118,912	397,695	231,829	230,748	246,601	399,211	294,266

Notes:

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* = RPD of the LCS and LCSD exceeds the control limits



Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	S-4 G5118 OBG 5116 Water 11/20/1997	S-4 H1025 OBG 6857 Water 2/20/1998	S-4 H7398 OBG 7810 Water 5/28/1998	S-4 Water 10/21/1998	S-4 M0297 OBG 1516 Water 4/21/1999	S-4 N5018 OBG 3880 Water 11/10/1999	S-4 Q4028 OBG 5512 Water 4/28/2000	S-4 R7178 OBG 7645 Water 12/14/2000	S-4 S7279 OBG 9259 Water 6/19/2001	S-4 T6910 OBG 739 Water 12/12/2001	S-4 V4635 OB 2494 Water 6/19/2002	S-4 Z7445 OB 4203 Water 12/17/2002	S-4 A7427 OB 5716 Water 6/23/2003	S-4 B4293 OB 6968 Water 12/16/2003	S-4 E1191 OB 6968 Water 6/9/2004	S-4 0508015-002A OB 6968 Water 8/1/2005
CAS NO.	COMPOUND		UNITS:																
VOLATILES																			
67-64-1	Acetone	50 (G)	(µg/L)	ND	2 J	ND	NA	6 J	ND	ND	3 J	4 J	ND	ND	2 J, B	ND	ND	3	3
71-43-2	Benzene	1	(µg/L)	6 J	ND	1 J	NA	5 J	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	0.8 J
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	NA	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-34-3	1,1-Dichloroethane	5	(µg/L)	ND	ND	ND	NA	8 J	ND	ND	ND	ND	ND	ND	ND	1 J	1 J	0.6 J	1 J
156-59-2	cis-1,2-Dichloroethene	5	(µg/L)	ND	ND	ND	NA	9 J	ND	ND	ND	ND	ND	ND	ND	1 J	2 J	0.8 J	2 J
156-60-5	trans-1,2-Dichloroethene	5	(µg/L)	ND	ND	ND	NA	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
540-59-0	1,2-Dichloroethene (total)	NS	(µg/L)	3 J	ND	ND	NA	11	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND
100-41-4	Ethylbenzene	5	(µg/L)	ND	ND	ND	NA	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9
108-10-1	4-Methyl-2-pentanone	NS	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	(µg/L)	ND	ND	ND	NA	2 J, B	ND	ND	ND	ND	1 J, B	1 J	0.9 J, B	ND	1	0.7	0.9
127-18-4	Tetrachloroethene	5	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6 J
108-89-3	Toluene	5	(µg/L)	1 J	ND	ND	NA	4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J
79-01-6	Trichloroethene	5	(µg/L)	1 J	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-01-4	Vinyl chloride	2	(µg/L)	ND	ND	ND	NA	4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1330-20-7	Xylene (total)	5	(µg/L)	2 J	ND	ND	NA	24	ND	ND	1 J	ND	ND	ND	0.5 J	2 J	5 J	1 J	5 J
Total VOCs				13	2	1	NA	92	ND	ND	5	4	1	1	3.4	4	10	6.1	15.2
SEMIVOLATILES																			
83-32-9	Acenaphthene	20 (G)	(µg/L)	8	ND	6 J	NA	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
208-96-8	Acenaphthylene	NS	(µg/L)	4	ND	5 J	NA	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J
120-12-7	Anthracene	50(G)	(µg/L)	1	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50-32-8	Benzo[a]pyrene	NS	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-81-7	2-Ethylhexyl phthalate	5	(µg/L)	ND	ND	ND	NA	ND	ND	2 J	2 J	4 J	ND	5 J	ND	ND	ND	ND	1 J
85-68-7	Butyl benzyl phthalate	50 (G)	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86-74-8	Carbazole	NS	(µg/L)	4 J	ND	4 J	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J
59-50-7	4-Chloro-3-methylphenol	1	(µg/L)	ND	ND	ND	NA	5 J	ND	ND	3 J	ND	ND	ND	2 J	36	9 J	ND	ND
84-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117-84-0	Di-ethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
132-64-9	Dibenzofuran	NS	(µg/L)	4 J	ND	5 J	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J
95-50-1	1,2-Dichlorobenzene	3	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
541-73-1	1,3-Dichlorobenzene	3	(µg/L)	ND	ND	ND	NA	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	3	(µg/L)	ND	ND	ND	NA	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
131-11-3	Dimethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	1	(µg/L)	4 J	ND	18	NA	51	2 J	ND	ND	ND	ND	ND	1 J	3 J	3 J	11	39
206-44-0	Fluoranthene	50 (G)	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
86-73-7	Fluorene	50 (G)	(µg/L)	6 J	ND	6 J	NA	1 J	1 J	ND	ND	ND	ND	ND	ND	ND	1 J	ND	2 J
91-57-6	2-Methylnaphthalene	NS	(µg/L)	6 J	ND	5 J	NA	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
95-48-7	2-Methylphenol	1	(µg/L)	2 J	ND	6 J	NA	2 J	ND	ND	2 J	ND	ND	ND	ND	ND	2 J	2 J	13
106-44-5	4-Methylphenol	1	(µg/L)	3 J	ND	10	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22
91-20-3	Naphthalene	10 (G)	(µg/L)	110	ND	110 E	NA	11	ND	ND	ND	ND	ND	ND	2 J	ND	5 J	ND	ND
85-01-8	Phenanthrene	50 (G)	(µg/L)	10 J	ND	8 J	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	1 J
108-95-2	Phenol	1	(µg/L)	ND	ND	1 J	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
120-82-1	1,2,4-Trichlorobenzene	5	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
95-95-4	2,4,5-Triclorophenol	NS	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total SVOCs				162	ND	184	NA	75	5	2	7	4	ND	5	5	40	12	22	83

Notes:

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.

NA = Not analyzed/applicable

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(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

ID7 = 4-Methylphenol concentration is the sum of 3- and 4-Methylphenol.

CF6 = Results confirmed by reanalysis

B = Compound was found in the blank and sample.

E = Concentration exceeds method limit.

* = RPD of the LCS and LCSD exceeds the control limits

QSU = Sulfur (EPA 3660) clean-up performed on extract.



Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	S-4 G5118 OBG 5116 Water 11/20/1997	S-4 H1025 OBG 6857 Water 2/20/1998	S-4 H7398 OBG 7810 Water 5/28/1998	S-4 Water 10/21/1998	S-4 M0297 OBG 1516 Water 4/21/1999	S-4 N5018 OBG 3880 Water 11/10/1999	S-4 Q4028 OBG 5512 Water 4/28/2000	S-4 R7178 OBG 7645 Water 12/14/2000	S-4 S7279 OBG 9259 Water 6/19/2001	S-4 T6910 OBG 739 Water 12/12/2001	S-4 V4635 OB 2494 Water 6/19/2002	S-4 Z7445 OB 4203 Water 12/17/2002	S-4 A7427 OB 5716 Water 6/23/2003	S-4 B4293 OB 6968 Water 12/16/2003	S-4 E1191 OB 6968 Water 6/9/2004	S-4 0508015-002A OB 6968 Water 8/1/2005
CAS NO.	COMPOUND		UNITS:																
PESTICIDES																			
309-00-2	Aldrin	NS	(µg/L)	ND	ND	ND	NA	ND	ND	0.0021 J, P	ND	ND	ND	0.0091 J, P	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	(µg/L)	ND	ND	ND	NA	ND	ND	0.0016 J	ND	ND	ND	ND	ND	0.013 J, P	ND	ND	ND
319-85-7	beta-BHC	0.04	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0047 J, P
319-86-8	delta-BHC	0.04	(µg/L)	ND	ND	ND	NA	0.008 J, P	ND	ND	0.0035 B, J, P	ND	ND	ND	ND	ND	ND	ND	ND
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	0.0011 J, P	0.0021 J, P	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012 J, P	0.0031 J, P	0.0086 J, P
5103-71-9	alpha-Chlordane	0.05	(µg/L)	ND	0.0036 J, P	ND	NA	0.012 J, P	0.0049 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5103-74-2	gamma-Chlordane	0.05	(µg/L)	ND	ND	0.011 J, P	NA	ND	ND	ND	ND	ND	ND	ND	ND	0.0062 J, P	ND	0.021 B, J, P	0.02 J, P
72-54-8	4,4'-DDD	0.3	(µg/L)	ND	0.0045 J, P	ND	NA	0.0047 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0099 J, P	ND
72-55-9	4,4'-DDE	0.2	(µg/L)	ND	0.017 J	ND	NA	ND	0.011 J, P	0.01 J	0.0036 J	0.0028 B, J, P	ND	ND	ND	ND	ND	0.013 J	0.019 J
50-29-3	4,4'-DDT	0.2	(µg/L)	ND	0.0085 J, P	ND	NA	0.022 B, J, P	0.0071 J, P	0.003 J, P	0.0021 J, P	ND	ND	ND	ND	0.0026 J, P	ND	0.008 J	ND
60-57-1	Dieldrin	0.004	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	0.0037 J, P	ND	ND	0.0097 J	ND	0.0045 B, J, P	ND
959-98-8	Endosulfan I	NS	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	0.0099 J, P	ND	0.011 J, P	ND
33213-65-9	Endosulfan II	NS	(µg/L)	ND	ND	ND	NA	0.0079 J, P	0.0012 J, P	0.0012 J, P	ND	ND	ND	ND	ND	0.0052 J, P	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	(µg/L)	ND	ND	0.0078 J, P	NA	0.0023 B, J, P	ND	ND	0.0032 J, P	ND	ND	ND	ND	ND	ND	ND	ND
72-20-8	Endrin	NS	(µg/L)	ND	ND	ND	NA	0.011 J, P	ND	ND	0.011 J, P	ND	ND	ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	(µg/L)	ND	ND	ND	NA	0.0096 J, P	0.0037 J	0.1 J	0.0044 J	ND	0.011 B, J, P	ND	ND	0.0081 B, J, P	ND	0.013 J	ND
53494-70-5	Endrin ketone	5	(µg/L)	ND	ND	ND	NA	0.0075 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
76-44-8	Heptachlor	0.04	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	0.0057 J	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	ND	NA	0.025 J	0.0041 J, P	ND	ND	ND	0.00066 J, P	ND	ND	ND	ND	ND	ND
72-43-5	Methoxychlor	35	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.75	ND
Total Pesticides				0.0011	0.0357	0.0188	NA	0.11	0.032	0.1179	0.0278	0.0028	0.01536	0.0091	ND	0.0604	0.0211	0.8335	0.0523
PCBs																			
12674-11-2	Aroclor-1016	Sum of all PCBs < 0.09	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
53469-21-9	Aroclor-1242		(µg/L)	ND	ND	ND	NA	1.5 P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95 J, P
11141-16-5	Aroclor-1232		(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12672-29-6	Aroclor-1248		(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.77 J	ND
Total PCBs				ND	ND	ND	NA	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.77	0.95
INORGANICS																			
7429-90-5	Aluminum	NS	(µg/L)	618	935	329	NA	58.9 B	331	700	202 E	170 B	24.7 B	249	128 B	12.8 B	21.7 B	60.1 B	229
7440-36-0	Antimony	3	(µg/L)	ND	ND	ND	NA	ND	ND	ND	1.7 B	ND	ND	ND	ND	ND	ND	ND	ND
7440-38-2	Arsenic	25	(µg/L)	18.4	ND	16.8	NA	ND	5.3 B	ND	ND	ND	2.6 B	2.3 B	2.7 B	2.4 B	4.4 B	3.3 B	6.9 B
7440-39-3	Barium	1,000	(µg/L)	41.3 B	40.5 B	54.1 B	NA	68.9 B	40.6 B	18 B	32.1 B	60.3 B	137 B	117 B	17 B	51.2 B	28.8 B	20.4 B	14.1 B
7440-41-7	Beryllium	3 (G)	(µg/L)	ND	ND	ND	NA	0.13	ND	ND	0.31 B	ND	0.13 B	0.2 B	ND	0.1 B	ND	ND	ND
7440-43-9	Cadmium	5	(µg/L)	ND	ND	ND	NA	0.5 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-70-2	Calcium	NS	(µg/L)	84,000	74,100	134,000	NA	456,000	153,000	58,000	151,000	139,000	208,000	134,000	112,000	307,000	196,000	156,000	109,000
7440-47-8	Chromium	50	(µg/L)	ND	3.3 B	ND	NA	2 B	1.6 B, E	5.5 B	2.1 B	2.5 B	11.5	3.2 B, E	ND	ND	ND	ND	ND
7440-48-4	Cobalt	NS	(µg/L)	ND	ND	ND	NA	ND	ND	1.4 B	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-50-9	Copper	200	(µg/L)	1.8 B	3.2 B	1.2 B	NA	ND	1.8 B	6.7 B	2.6 B	3.2 B	ND	6.3 B	5.4 B	6.8 B	1.7 B	ND	ND
7439-89-6	Iron	300	(µg/L)	774	1,070	155	NA	463	411	1,230	1,100	2,700	57,300	7,860	456	1,380	848	275	183
7439-92-1	Lead	25	(µg/L)	2.2 B	ND	ND	NA	1.2 B	ND	ND	1.4 B	ND	ND	ND	ND	ND	ND	1.2 B	ND
7439-95-4	Magnesium	35,000 (G)	(µg/L)	719 B	17,600	3,900 B	NA	10,700	3,640 B	7,320	11,400	14,400	45,500	13,600	10,000	3,520 B	3,090 B	3,000 B	981 B
7439-96-5	Manganese	300	(µg/L)	55.2	525	83.1	NA	357	88.8	53.1	368	370	2,040	660	188	729	317	657	28.5
7439-97-6	Mercury	0.7	(µg/L)	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04 B	0.18 B
7440-02-0	Nickel	100	(µg/L)	3.7 B	2.3 B	ND	NA	ND	2.7 B, E	5.3 B	2.4 B	2.7 B	4 B	3.6 B	ND	ND	1.8 B	2.6 B	7.2 B
7440-09-7	Potassium	NS	(µg/L)	16,600	12,600	22,900	NA	60,200	26,300	14,400	23,200 E	23,600	34,700	27,600	21,400	63,300	51,800	53,400	53,100
7782-49-2	Selenium	10	(µg/L)	ND	ND	ND	NA	ND	5.2	ND	2.8 B	ND	2.6 B	ND	3.7 B	5 B	8.7	4.6 B	2.9 B
7440-22-4	Silver	50	(µg/L)	0.61 B	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-23-5	Sodium	20,000	(µg/L)	25,700	13,300	24,400	NA	36,400	23,600 E	8,060	13,700	18,000	64,500	26300 E	15,000	46900	45,700	48,600	53,600
7440-28-0	Thallium	0.5 (G)	(µg/L)	ND	4.5 B	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-62-2	Vanadium	NS	(µg/L)	3.2 B	3 B	2.2 B	NA	2 B	12 B, E	2.6 B	3.8 B	1.4 B	1.6 B	ND	4.4 B	2.2 B	14.6 B	3.7 B	7.4 B
7440-66-6	Zinc	2,000 (G)	(µg/L)	13.2 B	480	14.3 B	NA	2.5 B	5.7 B	22.6	2.8 B	5.6 B	ND	48.1	2.7 B	11.8 B	ND	7 B	5.1 B
57-12-5	Cyanide	200	(µg/L)	ND	15.9	70.5	NA	48.9	108	ND	23.6	11.1	24.5	ND	16.8	29	32.2	29.5	34.8
Total Inorganics				128,551	120,683	185,926	NA	564,305	207,554	89,825	201,046	198,327	412,249	210,450	159,225	422,950	297,867	262,066	217,172

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* = RPD of the LCS and LCSD exceeds the control limits

QSU = Sulfur (EPA 3660) clean-up performed on extract.



Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	S-4 0603095-005A LSL-BL 6030950 Water 3/21/2006	S-4 A7E985013 TA A07-E985 Water 12/27/2007	S-4 A8E30608 TA A08-E150 Water 11/10/2008	S-4 RSI0312-04 TA RSI0296 Water 9/9/2009	S-4 RTF0860-05 TA RTF0798 Water 6/11/2010	S-4 480-2227-4 TA 480-2185 Water 3/4/2011	S-4 480-14339-4 TA 480-14339 Water 12/21/2011	S-4 480-23637-4 TA 480-23637 Water 8/8/2012	S-4 480-38452-2 TA 480-38452 Water 5/16/2013	S-4 480-56862-4 TA 480-38452 WATER 3/28/2014	S-4 480-70664-6 TA 480-38452 WATER 11/4/2014	S-4 480-83621-7 TA 480-83621 WATER 7/9/2015	S-4 480-101880-5 TA 480-101880 WATER 6/17/2016	S-4 480-114997-4 TA 480-114997 WATER 3/23/2017	S-4 480-125448-1 TA 480-125448 WATER 10/4/2017	S-4 480-141984-13 TA 480-141984 WATER 9/17/2018	S-4 480-155595-9 TA 480-155595 WATER 6/26/2019
CAS NO.	COMPOUND		UNITS:																	
VOLATILES																				
67-64-1	Acetone	50 (G)	(µg/L)	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1 J	ND	3.0 J	ND	19 J	ND
71-43-2	Benzene	NS	(µg/L)	0.9 J	ND	ND	ND	0.68 J	0.49 J	0.71 J	0.96 J	0.76 J	0.86 J	0.97 J	ND	1.4	ND	2.2	1.9 J	ND
75-15-0	Carbon disulfide	60 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-34-3	1,1-Dichloroethane	5	(µg/L)	1 J	ND	ND	1.3	1.2	1.7	1.4	1.8	1.5	1.4	1.2	ND	1.2	1.2	1.6	1.5 J	ND
156-59-2	cis-1,2-Dichloroethene	5	(µg/L)	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND
156-60-5	trans-1,2-Dichloroethene	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND
540-59-0	1,2-Dichloroethene (total)	NS	(µg/L)	ND	ND	ND	ND	1.9 J	1.4 J	0.96 J	1.4 J	1.7 J	1.5 J	1.7 J	1.8 J	ND	3.3	2.1	3.5	4.7 J
100-41-4	Ethylbenzene	5	(µg/L)	ND	ND	ND	1.5	1.2	0.93 J	1.1	1.2	1.2	1.4	0.96 J	ND	1.6	ND	0.92 J	ND	ND
108-10-1	4-Methyl-2-pentanone	NS	(µg/L)	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	(µg/L)	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4 J	ND
127-18-4	Tetrachloroethene	5	(µg/L)	0.5 J	ND	ND	0.72 J	0.71 J	0.63 J	0.81 J	0.98 J	0.90 J	1.0	0.91 J	ND	0.36 J	ND	ND	ND	ND
108-88-3	Toluene	5	(µg/L)	2 J	ND	ND	1.4	1.2	1.0	1.3	1.1	1.2	1.5	0.97 J	ND	1.1	ND	ND	ND	ND
79-01-6	Trichloroethene	5	(µg/L)	0.8 J	ND	ND	0.70	0.55 J	0.49 J	0.63 J	0.73 J	0.87 J	0.81 J	0.63 J	ND	0.77 J	0.46 J	ND	ND	ND
75-01-4	Vinyl chloride	2	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1330-20-7	Xylene (total)	5	(µg/L)	12	ND	ND	9.7	6.9	5.5	6.5	6.7	7.0	8.9	5.9	1.2 J	10	ND	7.4	7.2 J	ND
Total VOCs				24.2	ND	ND	18.09	13.84	11.7	13.85	15.17	14.93	17.57	13.34	4.77	19.73	6.76	15.62	36.7	ND
SEMIVOLATILES																				
83-32-9	Acenaphthene	20 (G)	(µg/L)	ND	ND	0.2 J	ND	0.93 J	1.1 J	1.2 J	1.5 J	0.94 J	1.3 J	2.1 J	0.42 J	0.47 J	ND	ND	ND	ND
208-96-8	Acenaphthylene	NS	(µg/L)	ND	ND	0.2 J	ND	0.46 J	0.62 J	0.68 J	0.70 J	0.43 J	0.81 J	1.6 J	ND	ND	ND	ND	ND	ND
120-12-7	Anthracene	50(G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.93 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
50-32-8	Benzo[a]pyrene	NS	(µg/L)	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.65 J	ND	ND	ND	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	(µg/L)	2 J	ND	ND	ND	ND	2.5 J B	ND	ND	ND	ND	3.4 J	ND	ND	ND	ND	ND	ND
85-68-7	Butyl benzyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.70 J B	ND	ND	ND	ND	ND	ND	ND
86-74-8	Carbazole	NS	(µg/L)	1 J	ND	0.5 J	1.3 J	1.1 J	1.1 J	1.4 J	1.3 J	0.86 J	1.4 J	2.4 J	0.30 J	0.34 J	ND	ND *	ND	ND
59-50-7	4-Chloro-3-methylphenol	1	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0 J	ND	ND	ND	4.8 J	ND
84-74-2	Di-n-butyl phthalate	50	(µg/L)	ND	0.3 B, J	0.5 J B	ND	0.35 J	0.80 J B	ND	ND	0.51 J	ND	0.44 J	0.71 J	ND	0.45 J	0.37 J	ND	ND
117-84-0	Di-n-octyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5 J	ND	ND	ND	ND	ND	ND
132-64-9	Dibenzofuran	NS	(µg/L)	ND	ND	ND	ND	ND	0.57 J	0.58 J	0.75 J	0.53 J	ND	1.5 J	ND	ND	ND	ND	ND	ND
95-50-1	1,2-Dichlorobenzene	3	(µg/L)	ND	ND	ND	ND	0.48 J, B	ND	ND	ND	0.85 J	ND	ND	ND	ND	ND	ND	ND	ND
541-73-1	1,3-Dichlorobenzene	3	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	0.51 J	0.79 J	ND	ND	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	3	(µg/L)	1 J	ND	ND	ND	ND	ND	0.47 J	ND	1.9 J	0.93 J	ND	ND	ND	ND	ND	ND	ND
84-86-2	Diethyl phthalate	50 (G)	(µg/L)	ND	ND	0.6 J B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28 J	ND	ND
131-11-3	Dimethyl phthalate	50 (G)	(µg/L)	ND	ND	ND	ND	ND	0.77 J	ND	ND	1.9 J	ND	1.9 J	ND	ND	ND	1.4 J *	ND	ND
105-67-9	2,4-Dimethylphenol	1	(µg/L)	46	ND	6	21	5.5	4.8 J	21	18	28	41	20	4.9	32	ND	ND	8.1 J	ND
206-44-0	Fluoranthene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.73 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
86-73-7	Fluorene	50 (G)	(µg/L)	ND	ND	0.3 J	ND	ND	1.0 J *	0.77 J	1.3 J	0.78 J	1.1 J	2.0 J	0.43 J	0.42 J	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	NS	(µg/L)	3 J	ND	0.6 J B	1.5 J	1.3 J	2.5 J	3.0 J	2.7 J	2.8 J	4.3 J	2.6 J	ND	ND	ND	ND	ND	ND
95-48-7	2-Methylphenol	1	(µg/L)	14	ND	1 J	7.4	4.3 J	5.9	12	13	9.4	11	6.5	0.63 J	12	0.87 J	ND	ND	ND
106-44-5	4-Methylphenol	1	(µg/L)	22	ND	1 J	11 ID7	7.8 J	11	22	24	19	18	9.5	ND	27	ND	ND	ND	ND
91-20-3	Naphthalene	10 (G)	(µg/L)	15	ND	1 J B	4.3 J	1.8 J	8.0	11	9.9	12	18	8.7	ND	3.6 J	ND	ND	ND	ND
85-01-8	Phenanthrene	50 (G)	(µg/L)	ND	ND	0.3 J B	ND	0.57 J	0.74 J	ND	0.95 J	0.74 J	0.94 J	1.7 J	ND	0.71 J	ND	ND	ND	ND
108-95-2	Phenol	1	(µg/L)	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
129-00-0	Pyrene	50 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	0.53 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
120-82-1	1,2,4-Trichlorobenzene	5	(µg/L)	ND	ND	ND	ND	ND	0.52 J	ND	0.54 J	0.90 J	ND	ND	ND	ND	ND	ND	ND	ND
95-95-4	2,4,5-Triclorophenol	NS	(µg/L)	ND	ND	ND	ND	ND	0.66 J	ND	0.52 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total SVOCs				107	0.3	3.6	51.4	24.59	40.63	76.05	76.29	82.21	101.17	67.49	11.49	76.54	1.32	2.05	12.9	ND

Notes:

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.

NA = Not analyzed/applicable

NS = No Standard

(G) = Guidance Value

ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.

J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

ID7 = 4-Methylphenol concentration is the sum of 3- and 4-Methylphenol.

CF6 = Results confirmed by reanalysis

B = Compound was found in the blank and sample.

E = Concentration exceeds method limit.

* = RPD of the LCS and LCSD exceeds the control limits

QSU = Sulfur (EPA 3660) clean-up performed on extract.



Appendix B-3

Sump Historically Detected Compounds

Cherry Farm Sump Samples Historically Detected Compounds		NYSDEC Class GA Groundwater Standards/ Guidance Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	S-4 0603095-005A LSL-BL 6030950 Water 3/21/2006	S-4 A7E985013 TA A07-E985 Water 12/27/2007	S-4 A8E30608 TA A08-E150 Water 11/10/2008	S-4 RSI0312-04 TA RSI0296 Water 9/9/2009	S-4 RTF0860-05 TA RTF0798 Water 6/11/2010	S-4 480-2227-4 TA 480-2185 Water 3/4/2011	S-4 480-14339-4 TA 480-14339 Water 12/21/2011	S-4 480-23637-4 TA 480-23637 Water 8/8/2012	S-4 480-38452-2 TA 480-38452 Water 5/16/2013	S-4 480-56862-4 TA 480-38452 WATER 3/28/2014	S-4 480-70664-6 TA 480-38452 WATER 11/4/2014	S-4 480-83621-7 TA 480-83621 WATER 7/9/2015	S-4 480-101880-5 TA 480-101880 WATER 6/17/2016	S-4 480-114997-4 TA 480-114997 WATER 3/23/2017	S-4 480-125448-1 TA 480-125448 WATER 10/4/2017	S-4 480-141984-13 TA 480-141984 WATER 9/17/2018	S-4 480-155595-9 TA 480-155595 WATER 6/26/2019
CAS NO.	COMPOUND		UNITS:																	
PESTICIDES																				
309-00-2	Aldrin	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.019 J	ND	ND	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012 J B	0.014 J	ND	0.0097 J	ND	0.0086 J	ND
319-85-7	beta-BHC	0.04	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
319-86-8	delta-BHC	0.04	(µg/L)	ND	ND	0.039 B, J	ND	ND	ND	ND	ND	0.076	0.070	0.064	ND	0.014 J	0.021 J	ND	ND	ND
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	0.018 J, P	0.030 J	0.042 J	0.041 J	0.028 QSU, J	ND	ND	ND	0.025 J	0.019 J	0.053	0.016 J	ND	ND	0.028 J	0.017 J	ND
5103-71-9	alpha-Chlordane	0.05	(µg/L)	ND	0.011 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5103-74-2	gamma-Chlordane	0.05	(µg/L)	ND	ND	0.034 J	0.012 J	0.012 QSU, J	ND	ND	ND	0.013 J	ND	ND	ND	ND	0.011 J	ND	ND	ND
72-54-8	4,4'-DDD	0.3	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011 J	ND	ND	ND
72-55-9	4,4'-DDE	0.2	(µg/L)	ND	0.039 J	0.048 J	0.021 J	0.018 QSU, J	ND	ND	ND	0.023 J	ND	ND	ND	ND	ND	ND	ND	ND
50-29-3	4,4'-DDT	0.2	(µg/L)	ND	0.046 J	0.040 J	ND	ND	ND	ND	ND	0.022 J	ND	ND	ND	ND	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	(µg/L)	0.0027 J	ND	ND	ND	ND	ND	ND	ND	0.011 J	ND	ND	ND	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	(µg/L)	ND	ND	0.064	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.043 J	ND	ND	ND
33213-65-9	Endosulfan II	NS	(µg/L)	ND	ND	0.019 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	(µg/L)	0.0063 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
72-20-8	Endrin	NS	(µg/L)	ND	ND	0.029	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	(µg/L)	0.0068 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
53494-70-5	Endrin ketone	5	(µg/L)	0.0023 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.022 J
75-44-9	Heptachlor	0.03	(µg/L)	ND	0.019 J	0.031 J	ND	0.011 QSU, J	0.024 J	ND	ND	0.022 J	0.018 J	0.010 J	ND	ND	0.049 J	ND	0.021 J	0.016 J
1024-57-3	Heptachlor epoxide	0.03	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
72-43-5	Methoxychlor	35	(µg/L)	0.018 J, P	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Pesticides				0.0541	0.145	0.346	0.074	0.069	0.024	ND	ND	0.192	0.126	0.139	0.030	0.033	0.245	0.028	0.0466	0.038
PCBs																				
12674-11-2	Aroclor-1016	Sum of all PCBs < 0.09	(µg/L)	0.96 J	ND	ND	ND	2.0 QSU	2.6	2.7	1.7	ND	1.9	ND	ND	ND	ND	ND	ND	ND
53469-21-9	Aroclor-1242		(µg/L)	ND	0.46 J	1.4	3.5	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	0.73	2.6	ND
11141-16-5	Aroclor-1232		(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.6	1.7	0.79	4.4	ND	ND	ND
12672-29-6	Aroclor-1248		(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs				0.96	0.46	1.4	3.5	2.0	2.6	2.7	1.7	2.2	1.9	7.6	1.7	0.79	4.4	0.73	2.6	ND
INORGANICS																				
7429-90-5	Aluminum	NS	(µg/L)	125 B	1,920	42.4 B	316 B	532 CF6	620	460	500	460	400	570	120 J	350	ND	ND	ND	220
7440-36-0	Antimony	3	(µg/L)	3.1 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-38-2	Arsenic	25	(µg/L)	11.1	7.3 B	4.6 B	9.4 J	ND	ND	ND	8.8 J	6.1 J	ND	ND	8.2 J	ND	ND	ND	ND	ND
7440-39-3	Barium	1,000	(µg/L)	13.7 B	19.3	9.6	19.3	20.8 CF6	22	30	23 B	30	31	32	40	45	85	110	79	15
7440-41-7	Beryllium	3 (G)	(µg/L)	ND	0.49 B	0.52 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-43-9	Cadmium	5	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-70-2	Calcium	NS	(µg/L)	114,000	34,800	54,000	121,000 B	107,000	89,200 B	98,000 B	93,200	111,000	98,100	96,000	140,000	70,000 B	201,000	445,000	246,000	49,700
7440-47-8	Chromium	50	(µg/L)	ND	2.5 B	1.6 B	1.2 J	ND	1.0 J	13	ND	ND	ND	1.2 J	ND	1.1 J	ND	3.5 J	ND	1.4 J
7440-48-4	Cobalt	NS	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8	ND	ND
7440-50-9	Copper	200	(µg/L)	ND	4.5 B	13.0	17.6	ND	ND	ND	2.2 J	ND	ND	ND	3.5 J	ND	4.8 J	22	ND	10
7439-89-6	Iron	300	(µg/L)	473	1,110	86.6	370	82	71	370	720	130	22 J	96	520	200	370	7,800	620	260
7439-92-1	Lead	25	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8 J	ND	ND	3.8 J	3.4 J	ND	ND
7439-95-4	Magnesium	35,000 (G)	(µg/L)	708 B	4,640	2,760	1,010	757	240	1,000	970	900	410	1,500	5,800	310	6,900	16,900	11,600	5,500
7439-96-5	Manganese	300	(µg/L)	28.5 E	32.2	4.2	66.4	14.9 CF6	5.5	27	100	49 B	2.2 J	47	180 B	9.7	86	1,600 B	400	89
7439-97-6	Mercury	0.7	(µg/L)	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-02-0	Nickel	100	(µg/L)	2.4 B	8.7 B	4.0 B	4.5 J	ND	2.0 J	8.5 J	ND	1.3 J	1.8 J	ND	ND	1.6 J	16	310	5.3 J	14
7440-09-7	Potassium	NS	(µg/L)	54,400	11,500	34,500	50,800	52,900	55,800	51,300	51,200	59,100	66,600	61,800	53,700	57,400	87,200	91,600	105,000	14,900
7782-49-2	Selenium	10	(µg/L)	3.8 B	10.0 B	ND	ND	ND	12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-22-4	Silver	50	(µg/L)	ND	1.3 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-23-5	Sodium	20,000	(µg/L)	52,400	5,140	24,700	50,500	53,500	51,900	51,000	50,400	57,000	59,000	58,000	48,800	116,000	101,000	115,000	188,000	5,000
7440-28-0	Thallium	0.5 (G)	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7440-62-2	Vanadium	NS	(µg/L)	9.2 B	8.4	6.7	4.6 J	5.0	67	22	11	11	5.6	10	3.5 J	7.7	1.6 J	1.7 J	2.1 J	1.8 J
7440-66-6	Zinc	2,000 (G)	(µg/L)	3.9 B	15.5	81.4	250	2.3 J	2.2 J	2.9 J	3.6 J	ND	1.8 J	2.4 J B	33	8.8 J B	110 B	43	10 B	140 B
57-12-5	Cyanide	200	(µg/L)	24.2	ND	ND	6.3 J	16.7	ND	37	ND	26	7.0 J	13 B	11	53	31	33	37	9.4 J*
Total Inorganics				169,803	59,220	116,215	224,375	214,831	197,943	202,270	197,139	228,713	224,583	218,075	249,220	244,386	396,808	678,432	551,753	75,861

Notes:
NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.
NA = Not analyzed/applicable
NS = No Standard
(G) = Guidance Value
ND = Indicates compound was analyzed for, but not detected at or above the reporting limit.
J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
ID7 = 4-Methylphenol concentration is the sum of 3- and 4-Methylphenol.
CF6 = Results confirmed by reanalysis
B = Compound was found in the blank and sample.
E = Concentration exceeds method limit.
* = RPD of the LCS and LCSD exceeds the control limits
QSU = Sulfur (EPA 3660) clean-up performed on extract.



Appendix B-4 – Historically Detected Compounds (Surface Water, 1997-2007)

Appendix B-4

Surface Water Collection SW-1 Historically Detected Compounds

Cherry Farm Surface Water Historically Detected Compounds		NYSDEC Class A Surface Water Standards/ Guideline Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	SW-1 G5192	SW-1 H0921	SW-1 H7401	SW-1 M0192	SW-1 A9751102	SW-1 R7147
CAS NO.	COMPOUND		UNITS:						
VOLATILES									
67-64-1	Acetone	50 (G)	(µg/L)	U	U	U	U	U	U
75-15-0	Carbon disulfide	60 (G)	(µg/L)	U	U	U	5 J	U	U
75-09-2	Methylene chloride	5	(µg/L)	U	U	U	U	U	U
1330-20-7	Xylene (total)	5	(µg/L)	U	U	U	U	U	2 J
Total VOCs				ND	ND	ND	5	ND	2
SEMIVOLATILES									
117-81-7	bis(2-Ethylhexyl)phthalate	5	(µg/L)	U	U	1 J	U	U	4 J
84-74-2	Di-n-butyl phthalate	50	(µg/L)	U	U	U	U	U	U
Total SVOCs				ND	ND	1	ND	ND	4
PESTICIDES									
319-84-6	alpha-BHC	0.01	(µg/L)	0.0031 J, P	0.0068 J	U	0.0083 J, P, B	U	0.006 J
319-85-7	beta-BHC	0.01	(µg/L)	U	U	U	U	U	0.0087 J, P
319-86-8	delta-BHC	0.04	(µg/L)	U	U	U	U	U	U
72-54-8	4,4'-DDD	0.3	(µg/L)	0.0022 J, P	U	U	0.002 J	U	0.0031 J, P
72-55-9	4,4'-DDE	0.2	(µg/L)	0.021 J	0.0019 J, P	0.0032 J, P	U	U	U
50-29-3	4,4'-DDT	0.2	(µg/L)	0.1 J, P	U	U	U	U	U
60-57-1	Dieldrin	0.004	(µg/L)	U	U	0.0016 J, P	0.00096 J, P	U	0.0038 J, P
33213-65-9	Endosulfan II	NS	(µg/L)	U	0.0059 J	U	0.00052 J, P	U	U
1031-07-8	Endosulfan sulfate	NS	(µg/L)	U	U	0.001 J, P	0.0018 J, P	U	U
72-20-8	Endrin	0.05	(µg/L)	U	U	0.0017 J, P	0.00056 J, P	U	0.0032 J, P
7421-93-4	Endrin aldehyde	5 (G)	(µg/L)	U	0.0059 J, P	U	U	U	U
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	U	0.0023 J	0.0019 J, P, B	U	U	U
5103-74-2	gamma-Chlordane	0.05	(µg/L)	U	U	0.0026 J, P	0.0048 J, P, B	U	U
72-43-5	Methoxychlor	35	(µg/L)	U	U	U	U	U	0.061 J, P, B
Total Pesticides				0.1263	0.0228	0.012	0.01894	ND	0.0858
PCBs									
None Detected									
Total SVOCs				ND	ND	ND	ND	ND	ND
INORGANICS									
7429-90-5	Aluminum	NS	(µg/L)	263	2630	73.6 B	153 B	315	380 E
7440-36-0	Antimony	3	(µg/L)	U	U	2.9 B	8.3 B	U	3.4 B
7440-38-2	Arsenic	10	(µg/L)	U	U	7.2 B	5.2 B	8.9 B	5 B
7440-39-3	Barium	1000	(µg/L)	12.2 B	33.9 B	26 B	50.3 B	51.4 B	37.6 B
7440-41-7	Beryllium	3 (G)	(µg/L)	U	0.08 B	U	U	U	0.27 B
7440-70-2	Calcium	NS	(µg/L)	34600	68900	134000	189000	152000	125000
7440-47-8	Chromium	50	(µg/L)	2.6 B	7.4 B	U	8.7 B	U	10.3
7440-48-4	Cobalt	5	(µg/L)	U	U	U	U	U	U
7440-50-8	Copper	200	(µg/L)	3.4 B	8.1 B	U	3.6 B	4.3 B	2.5 B
7439-89-6	Iron	300	(µg/L)	300	2030	352	223	282	473
7439-92-1	Lead	50	(µg/L)	U	10.2	U	U	U	2.3 B
7439-95-4	Magnesium	35000 (G)	(µg/L)	11000	19200	57900	53200	40400	29800
7439-96-5	Manganese	300	(µg/L)	6.4 B	70.5	220	71.6	39.8	93
7439-97-6	Mercury	0.7	(µg/L)	1.2 B	3.6 B	2.3 B	3.2 B	3.6 B	3.1 B
7440-02-0	Nickel	100	(µg/L)	4330 B	9890	76900	66300	46700	29200 E
7440-09-7	Potassium	NS	(µg/L)	4.4 B	U	U	U	9.8	2.4 B
7782-49-2	Selenium	10	(µg/L)	U	U	U	U	U	U
7440-22-4	Silver	50	(µg/L)	6090	30400	134000	133000	79400	93600
7440-23-5	Sodium	20000	(µg/L)	6090	30400	134000	133000	79400	93600
7440-62-2	Vanadium	NS	(µg/L)	1.2 B	6.4 B	1.2 B	9.5	U	2.9 B
7440-66-6	Zinc	2000 (G)	(µg/L)	6.5 B	29.9	9.3 B	23.7	15.8 B	15.4 B
57-12-5	Cyanide	200	(µg/L)	U	U	U	U	U	U
Total Inorganics				62,711	163,620	537,495	575,061	398,631	372,231

Notes:

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.

NS = No Standard

(G) = Guidance Value

U = Indicates compound was analyzed for, but not detected at or above the reporting limit.

B (organics) = The analyte was found in the associated blank, as well as in the sample

J or B (inorganics) = Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.

J (organics) = Indicates an estimated value

Appendix B-4

Surface Water Collection SW-1 Historically Detected Compounds

Cherry Farm Surface Water Historically Detected Compounds		NYSDEC Class A Surface Water Standards/ Guideline Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	SW-1 T7110 OBG 764 Water 12/13/2001	SW-1 Z7446 OB 4203 Water 12/17/2002	SW-1 B4289 OB 6968 Water 12/16/2003	SW-1 E1194 OB 6968 Water 6/9/2004	SW-1 0603095-001A LSL-BL 6030950 Water 3/21/2006	SW-1 A7E985015 TA A07-E985 Water 12/27/2007
CAS NO.	COMPOUND		UNITS:						
VOLATILES									
67-64-1	Acetone	50 (G)	(µg/L)	U	2 J, B	U	4 J, B	2 J, B	U
75-15-0	Carbon disulfide	60 (G)	(µg/L)	U	U	U	U	U	U
75-09-2	Methylene chloride	5	(µg/L)	0.6 J, B	0.8 J, B	2 J, B	0.7 J, B	1 J, B	U
1330-20-7	Xylene (total)	5	(µg/L)	U	U	U	U	U	U
Total VOCs				0.6	2.8	2	4.7	3	ND
SEMIVOLATILES									
117-81-7	bis(2-Ethylhexyl)phthalate	5	(µg/L)	U	U	U	U	U	U
84-74-2	Di-n-butyl phthalate	50	(µg/L)	U	U	U	U	U	0.3 J, B
Total SVOCs				ND	ND	ND	ND	ND	0.3
PESTICIDES									
319-84-6	alpha-BHC	0.01	(µg/L)	U	U	U	U	U	U
319-85-7	beta-BHC	0.02	(µg/L)	U	U	0.02 J	U	U	U
319-86-8	delta-BHC	0.04	(µg/L)	U	U	U	U	0.0017 J, P, B	U
72-54-8	4,4'-DDD	0.3	(µg/L)	U	U	U	U	0.0019 J, P	U
72-55-9	4,4'-DDE	0.2	(µg/L)	U	U	U	U	U	U
50-29-3	4,4'-DDT	0.2	(µg/L)	U	U	U	U	U	U
60-57-1	Dieldrin	0.004	(µg/L)	0.0016 J, P, B	U	U	U	0.0027 J, P	U
33213-65-9	Endosulfan II	NS	(µg/L)	U	U	U	U	U	U
1031-07-8	Endosulfan sulfate	NS	(µg/L)	U	U	U	U	U	U
72-20-8	Endrin	0.2	(µg/L)	U	U	U	U	U	U
7421-93-4	Endrin aldehyde	5 (G)	(µg/L)	0.01 J, P, B	U	U	U	U	U
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	U	U	U	U	U	U
5103-74-2	gamma-Chlordane	0.05	(µg/L)	U	U	U	0.0033 J, P, B	0.0042 J, P	U
72-43-5	Methoxychlor	35	(µg/L)	U	U	U	U	U	U
Total Pesticides				0.0116	ND	0.02	0.0033	0.0105	ND
PCBs									
None Detected									
Total SVOCs				ND	ND	ND	ND	ND	ND
INORGANICS									
7420-90-5	Aluminum	NS	(µg/L)	127 B	157 B	152 B	528	72.6 B	1180
7440-36-0	Antimony	3	(µg/L)	U	U	2.6 B	U	2.7 B	U
7440-38-2	Arsenic	0.2	(µg/L)	5.3 B	6.3 B	3.4 B	8.3 B	4.6 B	8.8 B
7440-39-3	Barium	1000	(µg/L)	46.1 B	34.5 B	40.6 B	46.1 B	45 B	40.5
7440-41-7	Beryllium	3 (G)	(µg/L)	0.1 B	U	U	U	U	0.47 B
7440-70-2	Calcium	NS	(µg/L)	192000	138000	152000	137000	146000	132000
7440-47-8	Chromium	50	(µg/L)	7.6 B	6 B	4.1 B	4.4 B	2.9 B	2.8 B
7440-48-4	Cobalt	5	(µg/L)	1.1 B	U	U	U	U	U
7440-50-8	Copper	200	(µg/L)	1.9 B	3.2 B	U	1.1 B	1.5 B	U
7439-89-6	Iron	300	(µg/L)	305	239	188	1070	81.9 B	172
7439-92-1	Lead	50	(µg/L)	U	U	U	2 B	U	U
7439-95-4	Magnesium	35000 (G)	(µg/L)	56300	38900	38400	48800	41000	31900
7439-96-5	Manganese	300	(µg/L)	48.7	12.8 B	7.8 B	541	8.3 B, E	8.9
7439-97-6	Mercury	0.7	(µg/L)	4.7 B	U	1.5 B	0.04 B	0.011 B	U
7440-02-0	Nickel	100	(µg/L)	59600	28800	28500	4.2 B	2.2 B	U
7440-09-7	Potassium	NS	(µg/L)	2.6 B	3.3 B	3.8 B	50800	32600	24400
7782-49-2	Selenium	10	(µg/L)	U	1.5 B	U	U	3.6 B	10.3 B
7440-22-4	Silver	50	(µg/L)	99300	82700	67700	U	U	U
7440-23-5	Sodium	20000	(µg/L)	99300	82700	67700	106000	112000	92200
7440-62-2	Vanadium	NS	(µg/L)	2.7 B	4.3 B	2.3 B	3.4 B	U	3.4 B
7440-66-6	Zinc	2000 (G)	(µg/L)	15.9 B	15.5 B	5.3 B	12.3 B	5.6 B	6.1 B
57-12-5	Cyanide	200	(µg/L)	U	U	U	U	3.6 B	U
Total Inorganics				507,069	371,583	354,711	344,821	178,744	281,933

Notes:

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.

NS = No Standard

(G) = Guidance Value

U = Indicates compound was analyzed for, but not detected at or above the reporting limit.

B (organics) = The analyte was found in the associated blank, as well as in the sample

J or B (inorganics) = Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.

J (organics) = Indicates an estimated value

Appendix B-4

Surface Water Collection SW-2 and SW-3
Historically Detected Compounds

Cherry Farm Surface Water Historically Detected Compounds		NYSDEC Class A Surface Water Standards/ Guideline Values	Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled:	SW-2 G5193 OBG 5116 Water 11/21/1997	SW-3 G5117 OBG 5116 Water 11/20/1997	SW-3 N4876 OBG 3856 Water 11/9/1999	SW-3 Q3847 OBG 5490 Water 4/26/2000
CAS NO.	COMPOUND		UNITS:				
67-64-1	VOLATILES	50 (G)	(µg/L)				
	Acetone			2 J	U	U	U
	Total VOCs			2	ND	ND	ND
	SEMIVOLATILES						
	None Detected						
	Total SVOCs			ND	ND	ND	ND
	PESTICIDES						
309-00-2	Aldrin	0.022 (G)	(µg/L)	U	U	U	0.0017 J, P
319-84-6	alpha-BHC	0.01	(µg/L)	U	U	U	U
319-85-7	beta-BHC	0.04	(µg/L)	U	U	U	U
319-86-8	delta-BHC	0.04	(µg/L)	U	U	U	U
72-54-8	4,4'-DDD	0.3	(µg/L)	U	U	0.0015 J, P	0.0014 J, P
72-55-9	4,4'-DDE	0.2	(µg/L)	0.0043 J, P	U	U	U
50-29-3	4,4'-DDT	0.2	(µg/L)	0.0014 J, P	U	U	U
60-57-1	Dieldrin	0.004	(µg/L)	U	U	0.0064 J, P	U
33213-65-9	Endosulfan II	NS	(µg/L)	U	U	0.0013 J, P	U
1031-07-8	Endosulfan sulfate	NS	(µg/L)	U	U	0.0021 J, P	U
72-20-8	Endrin	0.2	(µg/L)	U	U	0.0018 J, P	U
7421-93-4	Endrin aldehyde	5 (G)	(µg/L)	U	U	0.0016 J, P	U
58-89-9	gamma-BHC (Lindane)	0.05	(µg/L)	U	U	U	U
5103-74-2	gamma-Chlordane	0.05	(µg/L)	U	U	U	U
72-43-5	Methoxychlor	35	(µg/L)	U	0.012 J	U	U
	Total Pesticides			0.0057	0.012	0.0147	0.0031
	PCBs						
	None Detected						
	Total PCBs			ND	ND	ND	ND
	INORGANICS						
7429-90-5	Aluminum	NS	(µg/L)	687	358	271	203
7440-38-2	Arsenic	25	(µg/L)	U	U	5 B	5.1 B
7440-39-3	Barium	1000	(µg/L)	20 B	25.8 B	44.3 B	35.5 B
7440-70-2	Calcium	NS	(µg/L)	38100	131000	153000	130000
7440-47-8	Chromium	50	(µg/L)	3 B	8.1 B	5.3 B, E	7.1 B
7440-50-8	Copper	200	(µg/L)	5.3 B	2.9 B	4 B	3.1 B
7439-89-6	Iron	300	(µg/L)	1080	559	379	291
7439-92-1	Lead	50	(µg/L)	4.6	U	U	U
7439-95-4	Magnesium	35000 (G)	(µg/L)	10200	31800	38700	40300
7439-96-5	Manganese	300	(µg/L)	25.1	56	18.5	23.4
7439-97-6	Mercury	0.7	(µg/L)	2.3 B	3 B	3.9 B, E	U
7440-02-0	Nickel	100	(µg/L)	1040 B	24700	39200	31000
7440-09-7	Potassium	NS	(µg/L)	U	4.2 B	3.9 B	U
7782-49-2	Selenium	10	(µg/L)	0.9 B	U	U	U
7440-22-4	Silver	50	(µg/L)	3980 B	95400	84600 E	89800
7440-23-5	Sodium	20000	(µg/L)	3980 B	95400	84600 E	89800
7440-62-2	Vanadium	NS	(µg/L)	2.2 B	3.5 B	3.5 B, E	2.6 B
7440-66-6	Zinc	2000 (G)	(µg/L)	26.2	12.1 B	41.2	14 B
57-12-5	Cyanide	200	(µg/L)	U	138	U	U
	Total Inorganics			59,157	379,471	400,880	381,485

Notes:

NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
Bold and shaded values exceed the NYSDEC Class GA groundwater standard/guidance value.

NS = No Standard

(G) = Guidance Value

U = Indicates compound was analyzed for, but not detected at or above the reporting limit.

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J or B (inorganics) = Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.

J (organics) = Indicates an estimated value

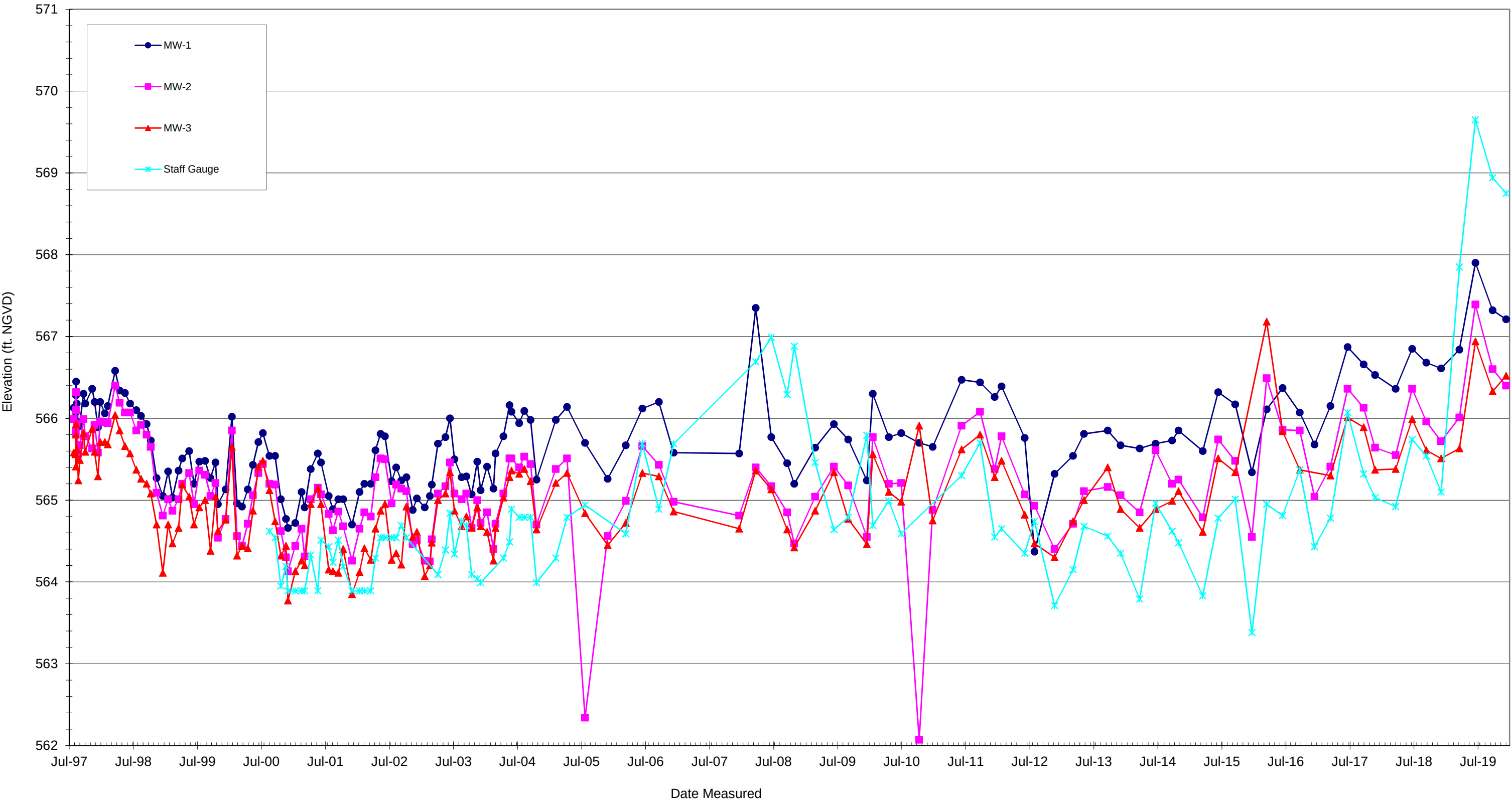


Appendix B-5 – Historical Hydrographs (Monitoring Wells, 1997-2019)



Appendix B-5

Historical Hydrograph MW-1, MW-2, MW-3, and Staff Gauge

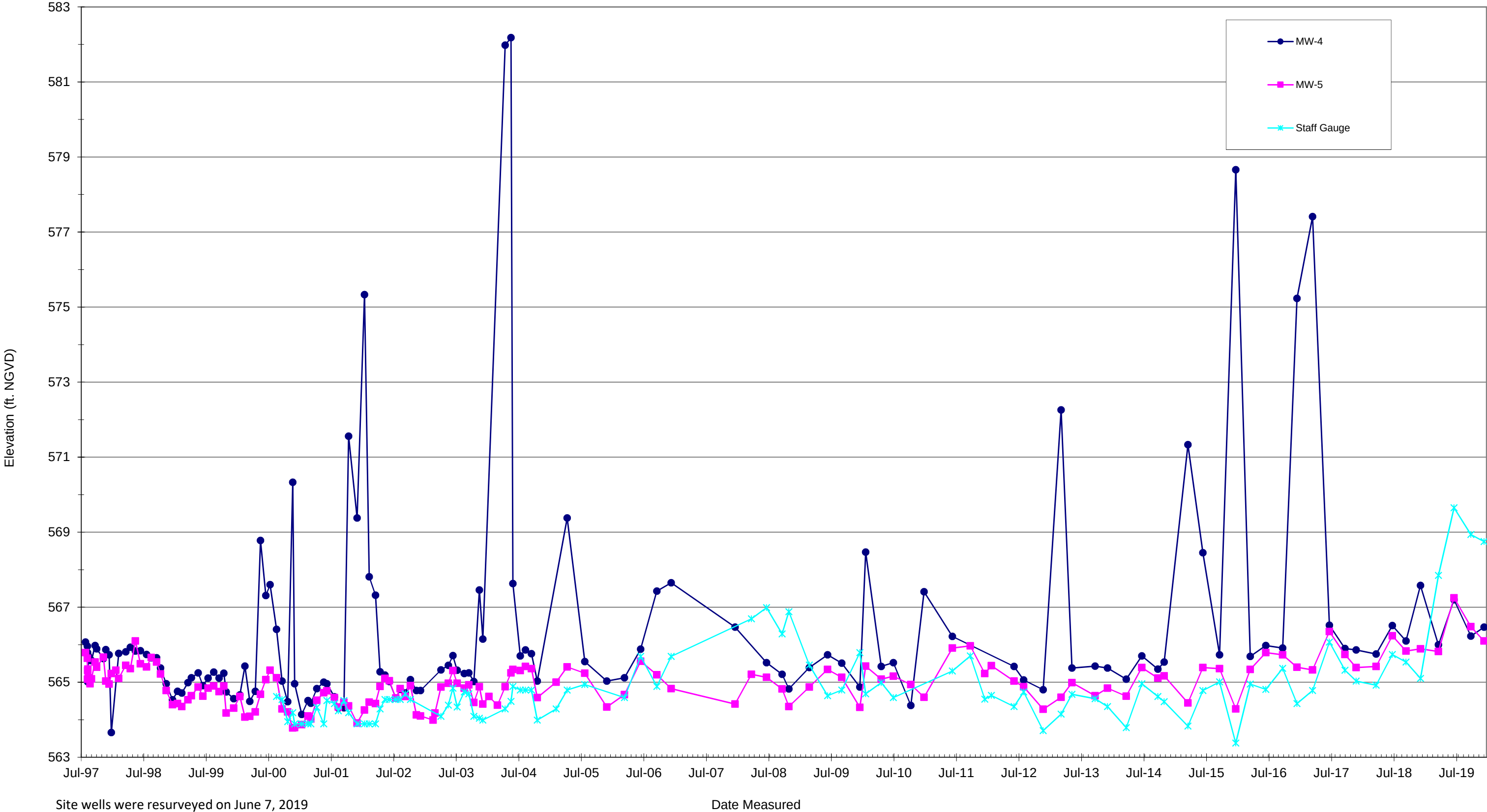


Site wells were resurveyed on June 7, 2019



Appendix B-5

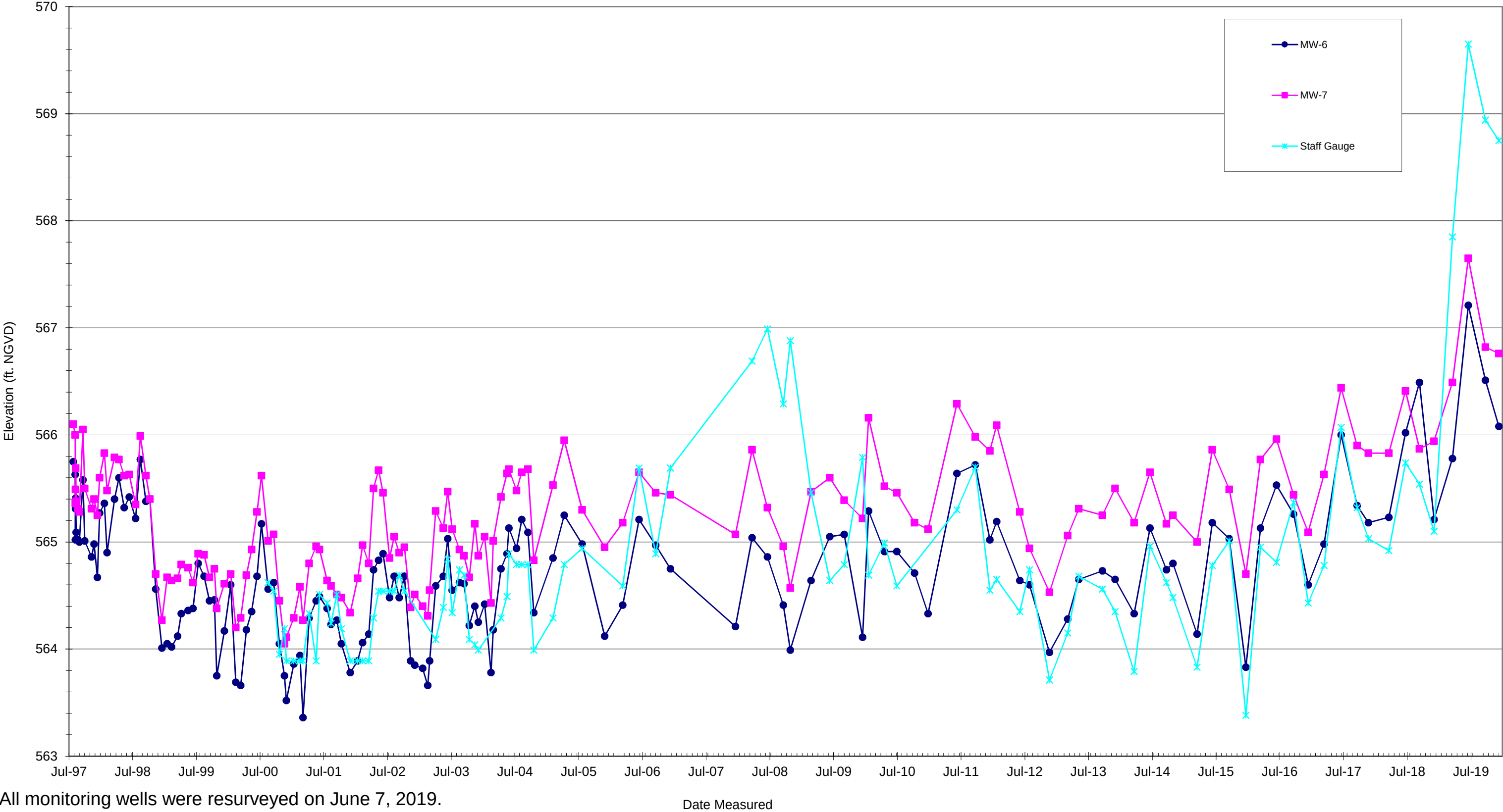
Historical Hydrograph MW-4, MW-5, and Staff Gauge





Appendix B-5

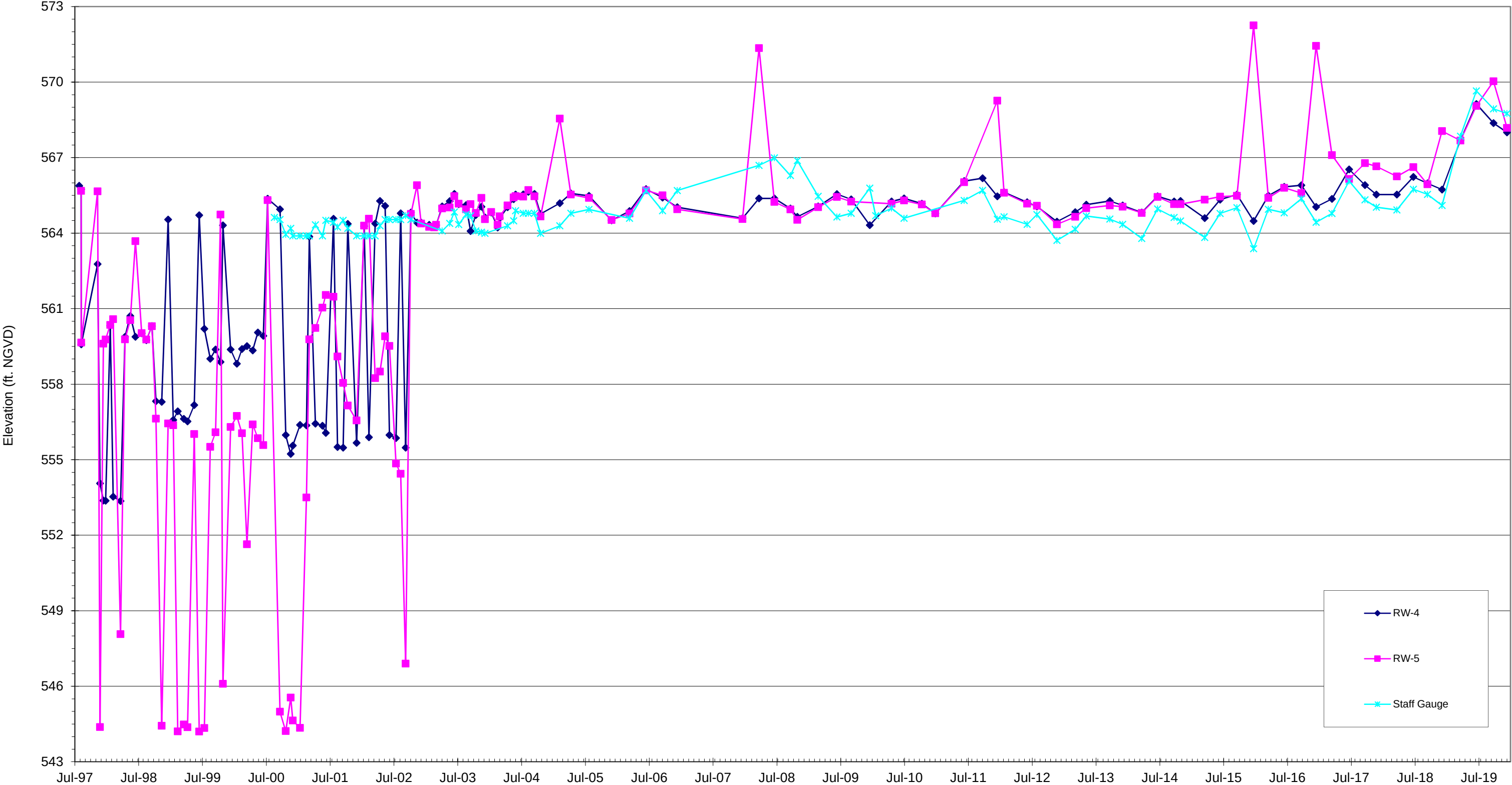
Historical Hydrograph MW-6, MW-7, and Staff Gauge





Appendix B-5

Historical Hydrograph RW-4, RW-5, and Staff Gauge



Site wells were resurveyed on June 7, 2019

Date Measured

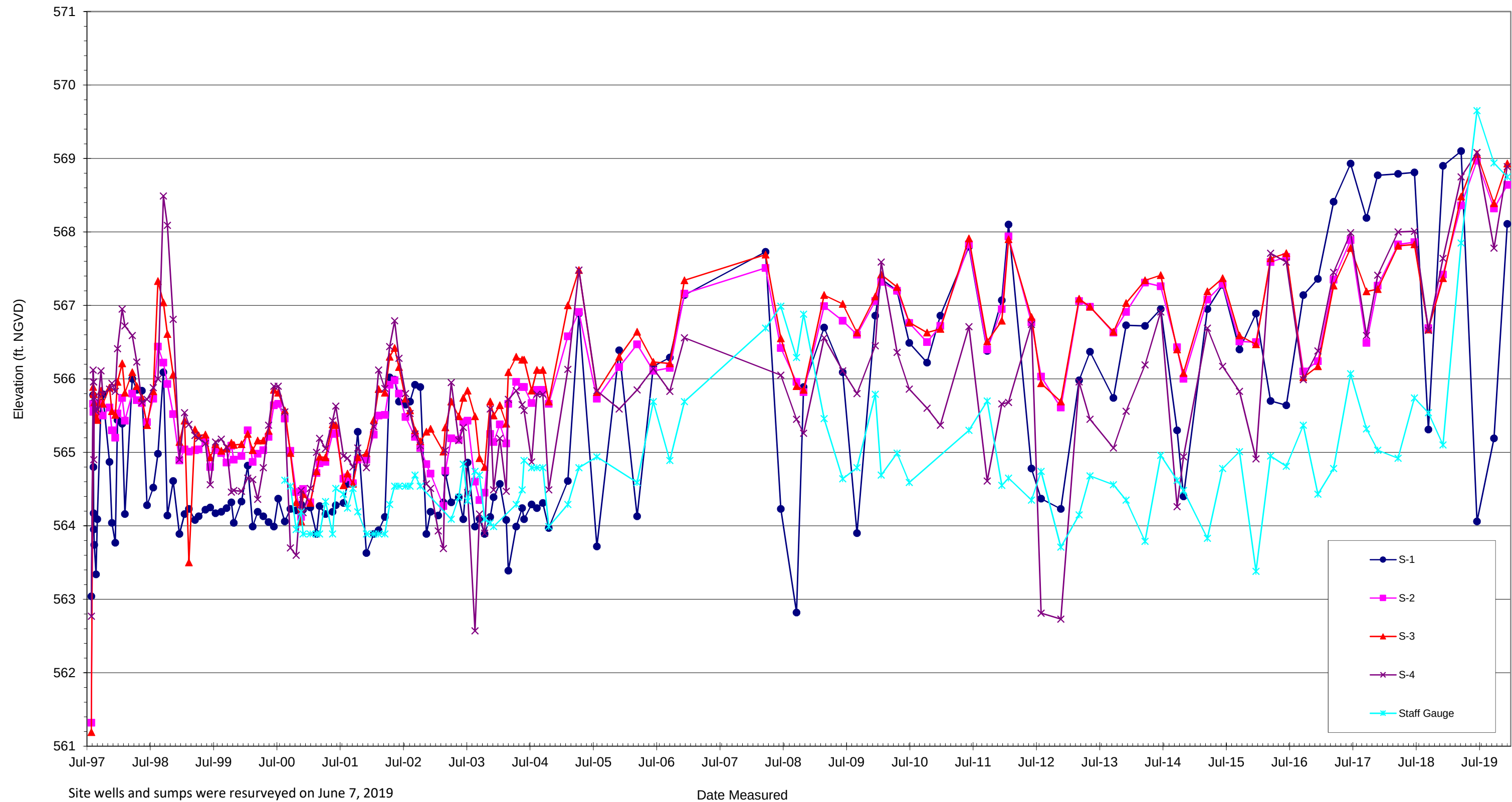


Appendix B-6 – Historical Hydrographs (Sumps and Observation Wells, 1997-2019)



Appendix B-6

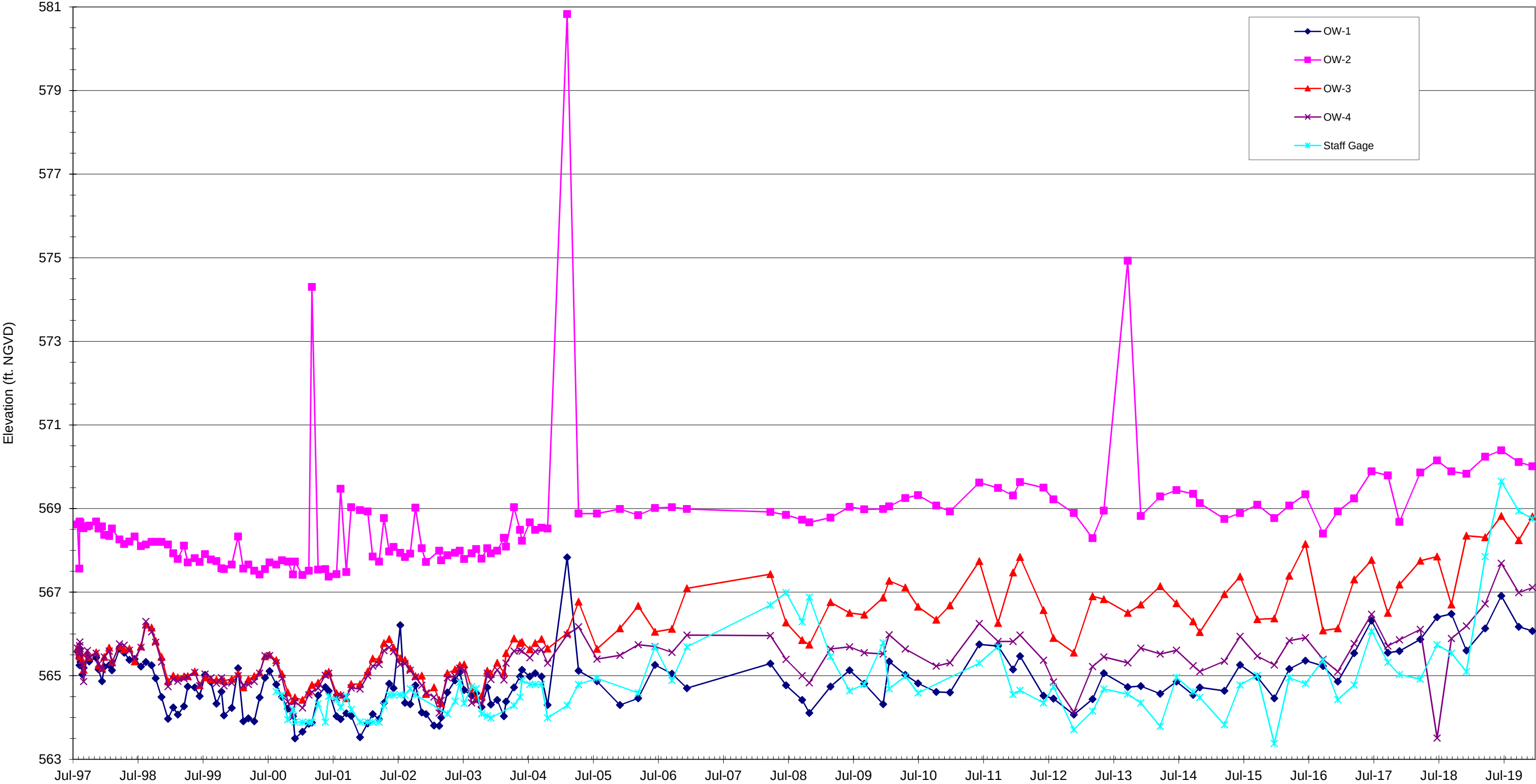
Historical Hydrograph S-1, S-2, S-3, S-4, and Staff Gauge





Appendix B-6

Historical Hydrograph OW-1, OW-2, OW-3, OW-4, and Staff Gauge



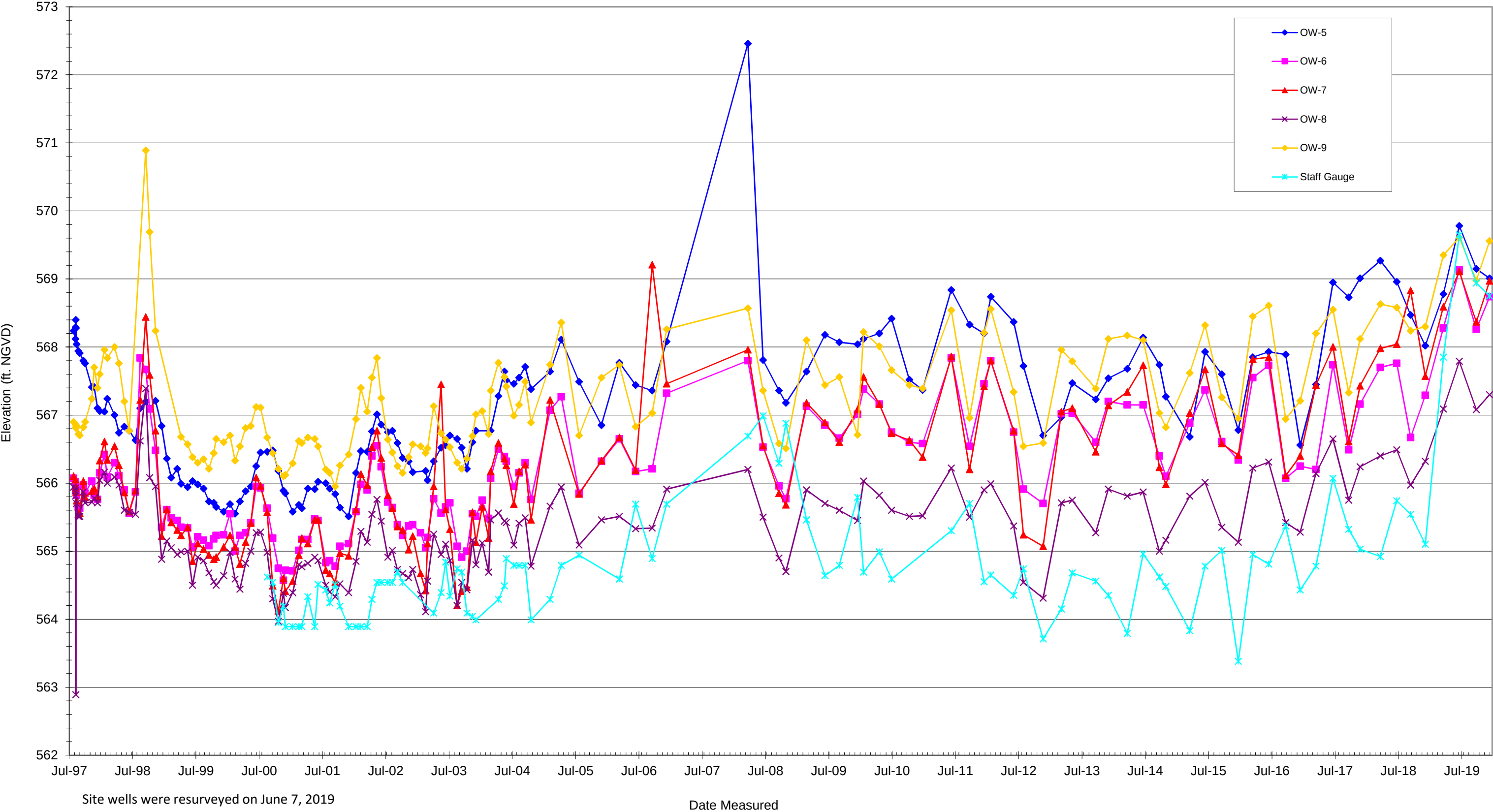
Site wells were resurveyed on June 7, 2019

Date Measured



Appendix B-6

Historical Hydrograph OW-5, OW-6, OW-7, OW-8, OW-9, and Staff Gauge





Appendix C – June Groundwater Sampling Logs

WELL SAMPLING RECORD

Site Name Cherry Farms Well ID MW-4

Samplers Mike Reisch

Total Well Depth (TOC)	49.83	feet
Initial Static Water Level (TOC)	17.00	feet
Well Diameter	2.0	inches

Purging Data

Method Bailer Date/Time 6/26/2019 12:00

Well depth	DTW	Casing Vol. per foot	Water Volume	
49.83	17.00	0.16	5.25	gallons

Casing Volumes (gal/ft.):					
1-inch	0.041	3-inch	0.36	6-inch	1.4
2-inch	0.16	4-inch	0.64	8-inch	2.5

Volume of Purge Water Removed 16 gallons

Sampling Data

Method Grab Date/Time 6/26/2019 14:00

Parameters	Bottle	Preservation	Method
VOC	3x 40 ml	1:1 HCl	Grab
SVOC	2x 250 mL	None	Grab
PCB	2x 250 mL	None	Grab

Field Parameters

Field Parameters	0 Volume	1 Volume	2 Volume	3Vol/Sample
pH	7.23	7.05	6.96	6.85
Temp. (°C)	12.90	11.8	12.0	12.25
Spec. Cond. (mS/cm)	0.484	0.479	0.622	0.918
Turbidity (NTU)	10.80	37.08	75.6	53.6

Comments:

PSID: 790235

Black water with some solids and a bit of oil on bailer

WELL SAMPLING RECORD

Site Name Cherry Farms Well ID MW-5

Samplers Mike Reisch

Total Well Depth (TOC)	49.40	feet
Initial Static Water Level (TOC)	17.25	feet
Well Diameter	10.0	inches

Purging Data

Method Bailer Date/Time 6/26/2019 12:45

Well depth	DTW	Casing Vol. per foot	Water Volume
49.40	17.25	0.16	5.14

Casing Volumes (gal/ft.):					
1-inch	0.041	3-inch	0.36	6-inch	1.4
2-inch	0.16	4-inch	0.64	8-inch	2.5

Volume of Purge Water Removed 16 gallons

Sampling Data

Method Grab Date/Time 6/26/2019 13:30

Parameters	Bottle	Preservation	Method
VOC	3x 40 ml	1:1 HCl	Grab
SVOC	2x 250 mL	None	Grab
PCB	2x 250 mL	None	Grab

Field Parameters

0 Volume	1 Volume	2 Volume	3Vol/Sample
pH	7.32	7.09	6.79
Temp. (°C)	11.90	11.6	11.9
Spec. Cond. (mS/cm)	0.542	0.566	1.150
Turbidity (NTU)	50.60	16.55	7.34

Comments:

PSID: 790235

Started black, ended clear during purging

WELL SAMPLING RECORD

Site Name Cherry Farms Well ID MW-6

Samplers Mike Reisch

Total Well Depth (TOC)	50.80	feet
Initial Static Water Level (TOC)	19.15	feet
Well Diameter	2.0	inches

Purging Data

Method Bailer Date/Time 6/26/2019 9:30

Well depth	DTW	Casing Vol. per foot	Water Volume
50.80	19.15	0.16	5.06

Casing Volumes (gal/ft.):					
1-inch	0.041	3-inch	0.36	6-inch	1.4
2-inch	0.16	4-inch	0.64	8-inch	2.5

Volume of Purge Water Removed 15 gallons

Sampling Data

Method Grab Date/Time 6/26/2019 10:30

Parameters	Bottle	Preservation	Method
VOC	3x 40 ml	1:1 HCl	Grab
SVOC	2x 250 mL	None	Grab
PCB	2x 250 mL	None	Grab

Field Parameters

Field Parameters	0 Volume	1 Volume	2 Volume	3Vol/Sample
pH	7.07	7.10	6.92	6.94
Temp. (°C)	15.8	12.9	12.7	12.5
Spec. Cond. (mS/cm)	0.901	0.901	0.966	0.972
Turbidity (NTU)	13.98	9.02	5.67	5.80

Comments:

PSID: 790235

MS/MSD Collected
DUP Collected

WELL SAMPLING RECORD

Site Name Cherry Farms Well ID RW-4

Samplers Mike Reisch

Total Well Depth (TOC)	52.15	feet
Initial Static Water Level (TOC)	14.75	feet
Well Diameter	10.0	inches

Purging Data

Method Low Flow Pumping Date/Time 6/27/2019 12:15

Well depth	DTW	Casing Vol. per foot	Water Volume
NA	NA	NA	NA

Casing Volumes (gal/ft.):					
1-inch	0.041	3-inch	0.36	6-inch	1.4
2-inch	0.16	4-inch	0.64	8-inch	2.5

Volume of Purge Water Removed 1.78 gallons

Sampling Data

Method Grab Date/Time 6/27/2019 13:00

Parameters	Bottle	Preservation	Method
VOC	3x 40 ml	1:1 HCl	Grab
SVOC	2x 250 mL	None	Grab
PCB	2x 250 mL	None	Grab

Field Parameters		Depth to Water	pH	Temp (°C)	Spec. Cond. (mS/cm)	Turbidity	Flow Rate (mL/min)
Elapsed Time (min)	0	14.75	7.30	14.40	0.176	10.8	150
	5	14.89	6.73	14.30	0.171	10.04	150
	10	14.92	6.62	14.80	0.170	9.84	150
	15	14.97	6.57	14.40	0.170	32.40	150
	20	15.02	6.54	14.40	0.170	23.90	150
	25	15.04	6.53	14.40	0.170	10.43	150
	30	15.07	6.50	14.20	0.170	9.94	150
	35	15.10	6.49	14.30	0.170	10.14	150
	40	15.14	6.48	14.30	0.170	10.24	150
	45	15.16	6.51	14.40	0.170	10.2	150
	50						
	55						
60							

Comments:

PSID: 790235

WELL SAMPLING RECORD

Site Name Cherry Farms Well ID RW-5

Samplers Mike Reisch

Total Well Depth (TOC)	52.30	feet
Initial Static Water Level (TOC)	15.12	feet
Well Diameter	8.0	inches

Purging Data

Method Low Flow Pumping Date/Time 6/27/2019 13:20

Well depth	DTW	Casing Vol. per foot	Water Volume
NA	NA	NA	NA

Casing Volumes (gal/ft.):					
1-inch	0.041	3-inch	0.36	6-inch	1.4
2-inch	0.16	4-inch	0.64	8-inch	2.5

Volume of Purge Water Removed 1.59 gallons

Sampling Data

Method Grab Date/Time 6/27/2019 14:10

Parameters	Bottle	Preservation	Method
VOC	3x 40 ml	1:1 HCl	Grab
SVOC	2x 250 mL	None	Grab
PCB	2x 250 mL	None	Grab

Field Parameters	Depth to Water	pH	Temp (°C)	Spec. Cond. (mS/cm)	Turbidity	Flow Rate (mL/min)
Elapsed Time (min)	0	15.15	7.28	15.6	0.613	10.57
	5	15.20	7.35	15.9	0.616	8.20
	10	15.22	7.38	15.2	0.618	7.17
	15	15.34	7.38	15.5	0.618	3.70
	20	15.45	7.39	15.3	0.618	2.63
	25	15.54	7.39	15.3	0.617	5.22
	30	15.61	7.39	15.4	0.617	3.14
	35	15.66	7.40	15.5	0.617	3.10
	40	15.71	7.41	15.60	0.617	3.09
	45					
	50					
	55					
	60					

Comments:

PSID: 790235

SUMP WATER SAMPLING RECORD

Site Name Cherry Farms Well ID S-1

Samplers Mike Reisch

Sample Description

Depth to Water: 8.42
 Type of water body: Sump
 Physical Appearance/Odor: Clear, Slight petroleum odor, some sheen
 Color/Stain: None

Sampling Data

Method Grab Date/Time 6/27/2019 10:15

Parameters	Bottle	Preservation	Method
VOC	3x 40 mL	1:1 HCl	Grab
Semi Volatile	2x 250 mL	None	Grab
PCB	2x 250 mL	None	Grab
Pesticides	2x 250 mL	None	Grab
Metals	1x 250 mL	HNO3	Grab
Cyanide	1x 250 mL	NaOH	Grab

Field Parameters

pH	7.57
Temp. (°C)	13.9
Spec. Cond. (mS/cm)	0.553
Turbidity (NTU)	0.52

Comments: PSID: 790235

Slight Petroleum odor, couple of spots of sheen, water is clear

SUMP WATER SAMPLING RECORD

Site Name Cherry Farms Well ID S-2

Samplers Mike Reisch

Sample Description

Depth to Water: 3.45
 Type of water body: Sump
 Physical Appearance/Odor: Clear, some grit, no odor
 Color/Stain: None

Sampling Data

Method Grab Date/Time 6/26/2019 14:45

Parameters	Bottle	Preservation	Method
VOC	3x 40 mL	1:1 HCl	Grab
Semi Volatile	2x 250 mL	None	Grab
PCB	2x 250 mL	None	Grab
Pesticides	2x 250 mL	None	Grab
Metals	1x 250 mL	HNO3	Grab
Cyanide	1x 250 mL	NaOH	Grab

Field Parameters

pH	10.04
Temp. (°C)	17.9
Spec. Cond. (mS/cm)	7.12
Turbidity (NTU)	1.46

Comments:

PSID: 790235

Clear, slightly gritty water

SUMP WATER SAMPLING RECORD

Site Name	<i>Cherry Farms</i>	Well ID	S-3
Samplers	<i>Mike Reisch</i>		

Sample Description

Depth to Water:	3.5
Type of water body:	Sump
Physical Appearance/Odor:	<i>Clear, no odor</i>
Color/Stain:	None

Sampling Data

Method	<i>Grab</i>	Date/Time	<i>6/26/2019 15:30</i>
---------------	-------------	------------------	------------------------

Parameters	Bottle	Preservation	Method
VOC	3x 40 mL	1:1 HCl	Grab
Semi Volatile	2x 250 mL	None	Grab
PCB	2x 250 mL	None	Grab
Pesticides	2x 250 mL	None	Grab
Metals	1x 250 mL	HNO3	Grab
Cyanide	1x 250 mL	NaOH	Grab

Field Parameters

pH	9.27
Temp. (°C)	15.4
Spec. Cond. (mS/cm)	1.391
Turbidity (NTU)	3.95

Comments:

PSID: 790235

SUMP WATER SAMPLING RECORD

Site Name	<i>Cherry Farms</i>	Well ID	<i>S-4</i>
Samplers	<i>Mike Reisch</i>		

Sample Description

Depth to Water:	<i>3.11</i>
Type of water body:	<i>Sump</i>
Physical Appearance/Odor:	<i>Clear, no odor</i>
Color/Stain:	<i>None</i>

Sampling Data

Method	<i>Grab</i>	Date/Time	<i>6/26/2019 11:00</i>
---------------	-------------	------------------	------------------------

Parameters	Bottle	Preservation	Method
VOC	3x 40 mL	1:1 HCl	Grab
Semi Volatile	2x 250 mL	None	Grab
PCB	2x 250 mL	None	Grab
Pesticides	2x 250 mL	None	Grab
Metals	1x 250 mL	HNO3	Grab
Cyanide	1x 250 mL	NaOH	Grab

Field Parameters

pH	7.39
Temp. (°C)	15.6
Spec. Cond. (mS/cm)	0.388
Turbidity (NTU)	2.43

Comments:

PSID: 790235



Appendix D – 2019 Remedial System Monitoring Data and Town of Tonawanda Industrial Sewer Connection Permit

Appendix D

2019 Remedial System Monitoring Data

	Wastewater Discharge Limit	Units	1/8/18	2/12/18	3/9/18	4/16/18	5/7/18*	6/4/2018	7/9/18	8/3/18	9/10/18	10/5/18	11/5/18*	12/3/18
OWS/Influent														
PCBs														
Aroclor 1016	NA	(µg/L)	ND	ND	ND	0.45	0.39	0.43	0.43	ND	ND	ND	ND	ND
Aroclor 1221	NA	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	NA	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	NA	(µg/L)	0.28	0.069	0.23	ND	ND	ND	ND	0.87	0.58	0.53	0.84	0.51
Aroclor 1248	NA	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NA	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NA	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Oil & Grease	100	(mg/L)	1.4 J	1.7 J	ND	1.9 J	1.6 J	ND	4.1 J	5.5	1.8 J	5.3	3.0 J B	2.9 J
Between Carbon														
PCBs														
Aroclor 1016	NA	(µg/L)	0.085	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.071
Aroclor 1221	NA	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	NA	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	NA	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	NA	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NA	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NA	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Oil & Grease	100	(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-
ML-2 (Post-Carbon)														
PCBs														
Aroclor 1016	0.065 **	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	0.065 **	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	0.065 **	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	0.065 **	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	0.065 **	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	0.065 **	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	0.065 **	(µg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS	250	(mg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH	5.0-9.5	(SU)	6.6	6.3	6.4	6.4	6.4	6.5	6.5	6.6	6.9	6.6	6.7	6.3
BOD	250	(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-
SGT TPH	100	(mg/L)	ND	ND	ND	ND	ND	ND	2.4 J	ND	8.6	ND	ND	ND
Total Cyanide	1.1	(mg/L)	-	-	-	-	0.052 B	-	-	-	-	-	0.056	-
Total Phosphorous	6	(mg/L)	-	-	-	-	ND	-	-	-	-	-	ND	-
Total Arsenic	0.5	(mg/L)	-	-	-	-	ND	-	-	-	-	-	ND	-
Total Zinc	4.4	(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-
Effluent Volume	NA	(GPM)	280,781	170,827	216,613	184,129	298,014	257,189	230,301	208,218	243,722	332,456	333,876	332,078

Notes:

- = not analyzed

* = semi-annual sampling event for ML-2.

** = discharge limit for all aroclors.

*** = Re-sample due to detection in first sample.

(µg/L) = micrograms per liter

(mg/L) = milligrams per liter

(SU) = standard unit (logarithmic scale)

PCBs = Polychlorinated Biphenyls

TSS = Total Suspended Solids

BOD = Biochemical Oxygen Demand

SGT TPH = Silica Gel Treated Total Petroleum Hydrocarbon per EPA Method 1664A

ND = Not Detected

(GPM) = Gallons per month

(J) = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

(B) = Compound was found in the blank and sample

BOLD = concentration exceeds permitted Wastewater Discharge Limit

Total Zinc was removed from the 2017-2019 discharge permit and Total Arsenic was added.

TOWN OF TONAWANDA

INDUSTRIAL SEWER CONNECTION PERMIT

Company Name: Cherry Farm/River Road PRP Group

Division Name (if Applicable) _____

Mailing Address: 495 Aero Drive, Suite 3
Street or P.O. Box
Cheektowaga, New York, 14225

City, State and Zip Code

Facility Address: Cherry Farms 4100 River Road
Street or P.O. Box
Tonawanda, New York, 14150

City, State and Zip Code

The above Industrial User is authorized to discharge industrial wastewater to the Town of Tonawanda sewer system in compliance with the Town's Sewer Use Ordinance Number 2-2000, any applicable provisions of Federal or State law or regulation, and in accordance with discharge point(s), effluent limitations, monitoring requirements, and other conditions set forth herein.

This permit is granted in accordance with the application filed on December 15, 2016 in the office of the Pretreatment Administrator, and in conformity with plans, specifications, and other data submitted to the Town in support of the above application.

Effective Date: January 1, 2017

Expiration Date: December 31, 2019

Permit No. 613

Date: 12/20/16 Signed: Paul Morrow

Paul Morrow
Town of Tonawanda
Office of the Compliance Coordinator

Permit No. 613

Modified Date:

PART 1 - WASTEWATER DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

A. LOCALLY DERIVED LIMITATIONS

The industrial user shall comply with the following locally derived effluent limitations effective as of January 1, 2017

MONITORING LOCATION: Inlet Sump (prior to any treatment)

PARAMETERS	SAMPLE FREQUENCY	SAMPLE TYPE	PURPOSE
Oil and Grease	Monthly	Grab	Monitoring
PCB's (All Arochlors)	Monthly	Grab	Monitoring

MONITORING LOCATION #2: Discharge Point to the Town Sewer

MONITORING SPECIFICATIONS

A. Monitoring for compliance with these locally derived limitations at Monitoring Point 2 Discharge Point to Town Sewer shall be performed as follows:

Sample Type: Grab

PARAMETERS	SAMPLE FREQUENCY	Limit	PURPOSE
TPH* (1664 SGT)	Monthly	100 mg/l	Compliance
PCB's (All Arochlors)	Monthly	0.065 ug/l	Compliance
pH	Monthly	5.0-9.5	Compliance
BOD	Semi-annual	250 mg/l	Surcharge
TSS	"	250 mg/l	"
Total Phosphorous	"	6.0 mg/l	"
Total Arsenic	"	0.5 mg/l	Compliance ¹
Total Cyanide	"	1.1 mg/l	Compliance ¹

* = Total Petroleum Hydrocarbons.

Additional Analysis:

PARAMETERS	SAMPLE FREQUENCY	SAMPLE TYPE	PURPOSE
PCB's (Recovered Oil)	Upon Disposal	Grab	Monitoring

All Self -Monitoring reports shall be submitted to this office no later than the twenty-fifth (25) day of the month following when the sample was taken.

Flows must be mailed, faxed, or called to this office no later than the 10th of the month.

PART II - SPECIAL CONDITIONS/COMPLIANCE SCHEDULE

1. *The Industrial User shall develop, within 6 months of the effective date of this permit, an accidental spill prevention plan to eliminate or minimize the accidental or slug discharge of pollutants into the sewer system, which could have an effect on the Town's treatment plant, sludge, or cause the Town to violate its SPDES permit.*

PART III - REPORTING REQUIREMENTS

1. *All Industries requiring submittal of self-monitoring reports (SMR's) must submit all laboratory results on all discharged samples. If a lab analysis was performed using an EPA approved test method, then those results must be included in the SMR. Persons signing SMR's must be a responsible company official, ie; owner, corporate manager, or supervise more than two hundred fifty (250) employees. Any of the above may appoint a company representative to sign SMR's but written notice must be supplied to this office authorizing said employee to sign.*

The following statement will be required on all SMR's and baseline monitoring reports (BMR):

"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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed 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 fines and imprisonment for knowing violation."

2. *The Industrial User shall notify the Town immediately upon any accidental or slug discharge to the sanitary sewer system. Formal written notification discussing circumstances and remedies shall be submitted to the Town within 5 days of the occurrence.*
3. *The Industrial User shall notify the Town 30 days prior to the introduction of new wastewater or pollutants or any substantial change in the volume or characteristics of the wastewater being introduced into the POTW from the User's industrial processes.*
4. *Any upset experienced by the Industrial User of its treatment that places it in a temporary state of non-compliance with wastewater discharge limitations contained in this permit or other limitations specified in the Town's Ordinance shall be reported to the Town within 24 hours of first awareness of the commencement of the upset. Immediate resampling for the non-compliance pollutant shall begin. A detailed report shall be filed within 5 days.*

5. *The Industrial User is required to submit to the Town reports on the results of its sampling of the pollutants specified in Part I of this Permit. This report shall also contain monthly flows.*
6. *Analytical procedures must be performed in accordance with 40 CFR Part 136. Additional pollutants not contained in Part 136 must be performed using validated analytical methods approved by EPA (40 CFR 403.12 [g] [4]).*
7. *All reports shall be submitted to the following address:*

***Paul Morrow, Pretreatment Coordinator
Wastewater Treatment Facility
779 Two Mile Creek Road
Tonawanda, New York 14150***

PART IV - STANDARD CONDITIONS

1. *The Industrial User shall comply with all the general prohibitive discharge standards in Article IV of the Local Law 2-2000.*
 - a. *BOD 250 mg/l, TSS 250 mg/l, P 6 mg/l are not to be construed as discharge limits of the above pollutants but as a baseline for generating abnormal sewer charges.*

2. RIGHT OF ENTRY

The Industrial User shall, after reasonable notification by the Town, allow the Town or its representatives, exhibiting proper credentials and identification, to enter upon the premises of the User, at all reasonable hours, for the purposes of inspection, sampling, or records inspection. Reasonable hours in the context of inspection and sampling includes any time the Industrial User is operating any process which results in a process wastewater discharge to the Town's sewerage system.

3. RECORDS RETENTION

The Industrial User shall retain and preserve for no less than three (3) years, any records, books, documents, memoranda, reports, correspondence and all summaries thereof, relating to monitoring, sampling and chemical analysis made by or in behalf of the User in connection with its discharge.

- a) *All records that pertain to matters that are the subject of special orders or any other enforcement or litigation activities brought by the Town shall be retained and preserved by the Industrial User until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.*

4. CONFIDENTIAL INFORMATION

Except for data determined to be confidential under Article VII, Section 4 of the Town's Ordinance, all reports required by this permit shall be available for public inspection at the office of the Pretreatment Coordinator, Wastewater Treatment Facility, 779 Two Mile Creek Road, Tonawanda, New York 14150.

5. RECORDING OF RESULTS

For each measurement or sample taken pursuant to the requirements of this permit, the user shall record the following information:

- a) The exact place, date and time of sampling;*
- b) The dates the analyses were performed;*
- c) The person(s) who performed the analyses;*
- d) The analytical techniques or methods used, and*
- e) The results of all required analyses.*
- f) Where sanitary sewer discharge is measured by a mechanical or electronic device, accuracy of device shall be certified correct every year by the manufacturer. Certification shall begin September 2017.*

6. DILUTION

No Industrial User shall increase the use of potable or process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit

7. PROPER DISPOSAL OF PRETREATMENT SLUDGES AND SPENT CHEMICALS

The disposal of sludges and spent chemicals generated shall be done in accordance with Section 405 of the Clean Water Act and Subtitles C and D of the Resource Conservation and Recovery Act.

8. TOXIC SUBSTANCES

All waters shall be maintained free of toxic substances in concentrations that are toxic to or produce detrimental physiological responses in human, plant, animal, or aquatic life.

9. SIGNATORY REQUIREMENTS

All reports required by this permit shall be signed by a principal executive officer of the User, or his designee.

10. REVOCATION OF PERMIT

The permit issued to the Industrial User by the Town may be revoked when after inspection, monitoring or analysis it is determined that the discharge of wastewater to the sanitary sewer is in violation of Federal, State, or local laws, ordinances, or regulations. Additionally, falsification or intentional misrepresentation of data or statements pertaining to the permit application or any other required reporting form, shall be cause for permit revocation.

11. LIMITATIONS ON PERMIT TRANSFER

Transfer of permit. Industrial waste permits are issued to a specific user for a specific operation. In the event of any change in ownership of the industrial facility, the permittee shall notify the new owner of the existence of the permit by letter, a copy of which shall be forwarded to the Pretreatment Administrator 30 days prior to change of ownership. A new industrial waste permit must be issued to the new owner.

12. FALSIFYING INFORMATION OR TAMPERING WITH MONITORING EQUIPMENT

Knowingly making any false statement on any report or other document required by this permit or knowingly rendered any monitoring device or method inaccurate, may result in punishment under the criminal law of the Town, as well as being subjected to civil penalties and relief.

13. MODIFICATION OR REVISION OF THE PERMIT

- a) The terms and conditions of this permit may be subject to modification by the Town at any time as limitations or requirements as identified the Town's Ordinance, are modified or other just cause exists.*
- b) This permit may also be modified to incorporate special conditions resulting from the issuance of a special order.*
- c) The terms and conditions may be modified as a result of EPA promulgating a new federal pretreatment standard.*
- d) Any permit modifications which result in new conditions in the permit shall include a reasonable time schedule for compliance if necessary.*

14. DUTY TO REAPPLY

The Town shall notify a User one hundred and eighty (180) days prior to the expiration of the User's Permit. Within ninety (90) days of the notification, the User shall reapply for re-issuance of the permit on a form provided by the Town.

15. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

16. LIMITATIONS

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any invasion of personal rights, nor any infringement of Federal, State or Local regulations.

17. A. VIOLATIONS

- (1) Any violation of sections 165-3 through 165-19 of this Part 1 of Local Law 2-2000 is hereby declared a violation except as otherwise provided by law.*
- (2) Any person who violates the provisions of sections 165-3 through 165-19 of the Part 1, upon conviction thereof in a court of competent jurisdiction, may be punished by a fine of not more than two hundred fifty dollars (\$250.), and each day on which there is a failure to comply shall be and is hereby declared to be a distinct and separate offense and punishable as such.*
- (3) The Town of Tonawanda may also maintain an action of proceeding in the name of the Town of Tonawanda in a court of competent jurisdiction to collect a civil penalty of not over two hundred dollars (\$200.) for each violation of sections 165-3 through 165-19 of this Part 1.*
- (4) The Town of Tonawanda may also maintain an action or proceeding in the name of the Town of Tonawanda in a court of competent jurisdiction for injunctive relief for any violation Articles III, IV or V of this Part 1.*

B. MISDEMEANORS

- (1) Any violation of sections 165-20 through 165-30 of this Part 1 is hereby declared a misdemeanor except as otherwise provided by law.*
- (2) Any person who violates the provisions of sections 165-20 through 165-30 of this Part 1, upon conviction thereof in a court of competent jurisdiction, may be punished by a fine of not more than five hundred dollars (\$500.), and each day on which there is a failure to comply shall be and is hereby deemed to be a distinct and separate offense and punishable as such.*
- (3) The Town of Tonawanda may also maintain an action or proceeding in the name of the Town of Tonawanda in a court of competent jurisdiction to collect a civil penalty of not over one thousand dollars (\$1,000.) for each violation of section 165-20 through 165-30 of this Part 1.*
- (4) The Town of Tonawanda may also maintain an action or proceeding in the name of the Town of Tonawanda in a court of competent jurisdiction for injunctive relief for any violation of Article VI of this Part 1.*

18. ENFORCEMENT OF THE SEWER USE LAW AND PERMITS

The Town has developed and received USEPA approval of its Enforcement Response Plan which details the standard responses to be taken by the Town when it encounters various violations of the Sewer Use Law or the terms of this permit. Copies of this document are available at the office of the Pretreatment Administrator.

Footnotes from page 2

Footnote 1- The Town of Tonawanda Wastewater Treatment Plant SPDES permit states that the Pretreatment Program will, "Require through Permits each SIU to collect one 24 hour flow proportioned sample composite (where feasible) effluent sample every six months and analyze each of those samples for all priority pollutants that can reasonably be expected to be detectable in that discharge at levels greater than level found in domestic sewage." Upon historical data review and review of your Industrial Waste Questionnaire analysis marked with this footnote were added to your permit to comply with our SPDES permit.



Appendix E – Institutional and Engineering Controls Certification Forms



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details

Box 1

Site No. **915063**

Site Name **Niagara Mohawk - Cherry Farm**

Site Address: River Road (near 4000 River Road) Zip Code: 14150

City/Town: Tonawanda

County: Erie

Site Acreage: 56.000

Reporting Period: December 31, 2018 to December 31, 2019

YES NO

1. Is the information above correct? ☒ ☐

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? ☐ ☒

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? ☐ ☒

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? ☐ ☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development? ☐ ☒

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?
Closed Landfill ☒ ☐

7. Are all ICs/ECs in place and functioning as designed? ☒ ☐

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Description of Institutional ControlsParcelOwnerInstitutional Control**51.20-1-1**

Niagara Mohawk Power Corp.

Monitoring Plan
O&M Plan

Building Use Restriction

Landuse Restriction

Soil Management Plan

A Consent Order (CO) for a Remedial Investigation / Feasibility Study (RI/FS) was signed by the PRP group in April 1988. The RI/FS was completed and a Record of Decision (ROD) was signed in February 1991. Based on the results of additional investigations and pump tests completed in 1992, the ROD was amended on October 7, 1993. Due to common site history, former common ownership, similar waste and a similar Remedial Program, this site was combined with the adjacent River Road Site for Remedial Action. The remedy consisted of stabilization of the river bank, installation of a clean earth cover, extraction and treatment of groundwater and recovery and disposal of non-aqueous phase liquid. The design incorporated several habitat improvements including development of wetland buffer areas, fish embayment structures and specific vegetative cover along the Niagara River. A Consent Order for Remedial Design/Remedial Action (RD/RA) was signed in September 1994. The PRP Group developed a comprehensive remedial design for Cherry Farm and the adjoining River Road Site. The Remedial Design work was completed in February 1996. Shortly afterwards, in May 1996, Remedial Action work began and was completed in August of 1999. A Deed Restriction was placed on the property on January 27, 1999. The Construction Certification Report and the Operation, Maintenance and Monitoring Plan were approved in January, 2000.

Description of Engineering ControlsParcelEngineering Control**51.20-1-1**Leachate Collection
Groundwater Treatment System
Monitoring Wells
Cover System
Fencing/Access Control

Hazardous wastes were excavated and pulled back from the perimeter remedial investigation areas and consolidated. PAH sediments were hydraulically dredged from the Niagara River and discharged on to the River Road portion of the site to settle. Shallow groundwater recovery wells were installed along the shoreline. Recovered leachate is pumped to an onsite treatment plant. A permeable soil cap/cover was installed and seeded. Embayments and plantings were installed along the shoreline for habitat objectives.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 915063

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Brian Stearns at 300 Erie Blvd West, Syracuse, NY 13202
print name print business address

am certifying as National Grid (owner) (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

[Signature]
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

2/24/2020
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Genevieve F. Bock at GES, Inc. 89A Cabot Court, Hauppauge, NY 11788,
print name print business address

am certifying as a Professional Engineer for the Remedial Party
(Owner or Remedial Party)




Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification

Stamp
(Required for PE)

2/28/2000
Date

Site Details

Site No. 915031

Box 1

Site Name River Road Site

Site Address: 4100 RIVER ROAD Zip Code: 14150
City/Town: Tonawanda
County: Erie
Site Acreage: 23.000

Reporting Period: December 31, ~~2017~~ to December 31, ~~2018~~
2018 2019

YES NO

- | | | | |
|----|--|-------------------------------------|-------------------------------------|
| 1. | Is the information above correct? | ☒ | ☐ |
| | If NO, include handwritten above or on a separate sheet. | | |
| 2. | Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? | ☐ | ☒ |
| 3. | Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | ☐ | ☒ |
| 4. | Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | ☐ | ☒ |

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development? ☐ ☒

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below? ☒ ☐
Closed Landfill
7. Are all ICs/ECs in place and functioning as designed? ☒ ☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date _____

Description of Institutional ControlsParcelOwnerInstitutional Control**64.08-1-1.1**

Niagara River World Inc. Bonnie Leto

Monitoring Plan
O&M Plan

The property located at 4002 River Road owned by Niagara River World extends onto the River Road (915031) site and is a portion of the overall River Road (915031) site. The Cherry Farm (915063) River Road (915031) PRP Group performed the remedial action of the site based on the Amended ROD. The owner of Niagara River World did not participate in the remedial action. The site owner has not filed a deed restriction for this property. The Cherry Farm/River Road PRP Group continues to conduct the OM&M activities at the site and submits periodic inspection and annual reports.

64.08-1-3

Clarence Mat.Corp.c/o Lafarge N.Amr. Lan

The Clarence Materials property located at 4010 River Road in the Town of Tonawanda, Erie County is identified as part of the River Road site in the ROD dated March 24, 1994. However, the Clarence Materials site was not investigated as part of the River Road RI/FS nor was any remedial work completed on this site. Clarence Material Corporation is an active ready mix cement plant. No deed restrictions or environmental easements are in place.

64.08-1-4

Matthew L. Duggan, Jr.

Monitoring Plan
O&M Plan

The property located at 4100 River Road owned by Matthew L. Duggan is a portion of the overall River Road (915031) site. The Cherry Farm (915063) River Road (915031) PRP Group performed the remedial action of the site based on the Amended ROD. The owner of 4100 River Rd. (Duggan) did not participate in the remedial action. The site owner has not filed a deed restriction for this property. The Cherry Farm/River Road PRP Group continues to conduct the OM&M activities at the site and submits periodic inspection and annual reports.

Description of Engineering ControlsParcelEngineering Control**64.08-1-1.1**Cover System
Fencing/Access Control
Leachate Collection
Groundwater Treatment System

Hazardous wastes were excavated and pulled back from the perimeter remedial investigation areas and consolidated. PAH sediments were hydraulically dredged from the Niagara River and discharged into a cell on the River Road portion of the site to settle. A permeable soil/cap cover was installed and seeded along with the installation of a shallow groundwater recovery well along the shoreline to collect leachate. The leachate is then pumped to an onsite treatment plant with discharge to the Town of Tonawanda POTW for further treatment.

64.08-1-3

Fencing/Access Control

64.08-1-4Cover System
Fencing/Access Control
Groundwater Treatment System
Leachate Collection

Hazardous wastes were excavated and pulled back from the perimeter remedial investigation areas

Parcel

Engineering Control

and consolidated. PAH sediments were hydraulically dredged from the Niagara River and discharged into a cell on the River Road portion of the site to settle. A permeable soil/cap cover was installed and seeded along with the installation of a shallow groundwater recovery well along the shoreline to collect leachate. The leachate is then pumped to an onsite treatment plant with discharge to the Town of Tonawanda POTW for further treatment.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒

☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒

☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 915031

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as _____ (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Genevieve F. Bock at GES, Inc. 89A Cabot Court, Hauppauge, NY 11788,
print name print business address

am certifying as a Professional Engineer for the Remedial Party
(Owner or Remedial Party)



[Handwritten Signature]
Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification

Stamp
(Required for PE)

2/22/2020
Date



Appendix F – 2019 Periodic Well Gauging Data



Appendix F

2019 Periodic Gauging Table

Location ID	OW-1		OW-2		MW-4		MW-5		RW-4		RW-5		Staff Gauge	
TOC Elev (ft msl)	574.10		584.51		584.20		584.50		583.85		584.13		570.35	
Date	DTW (ft btoc)	Elev (ft msl)	DTW (ft btoc)	Elev (ft msl)	DTW (ft btoc)	Elev (ft msl)	DTW (ft btoc)	Elev (ft msl)	DTW (ft btoc)	Elev (ft msl)	DTW (ft btoc)	Elev (ft msl)	DTW (ft btoc)	Elev (ft msl)
1/11/19	7.71	566.39	14.36	570.15			18.57	565.93	16.03	567.82	12.10	572.03	2.10	568.25
1/18/19	7.83	566.27	14.21	570.30			18.49	566.01	16.02	567.83	13.04	571.09	2.25	568.10
2/15/19	7.65	566.45	14.11	570.40			18.36	566.14	15.81	568.04	12.11	572.02	1.16	569.19
2/21/19	8.01	566.09	14.22	570.29	14.95	569.25	18.41	566.09	15.66	568.19	11.91	572.22	2.50	567.85
3/8/19	7.71	566.39	14.22	570.29	17.84	566.36	18.40	566.10	15.87	567.98	16.20	567.93		570.35
3/14/19	7.66	566.44	14.10	570.41	18.06	566.14	18.11	566.39	15.90	567.95	16.15	567.98		570.35
3/25/19	7.97	566.13	14.27	570.24	18.20	566.00	18.68	565.82	16.15	567.70	16.45	567.68	2.50	567.85
4/5/19	9.62	564.48	16.31	568.20	20.38	563.82	21.29	563.21	17.85	566.00	14.70	569.43	1.70	568.65
4/12/19	7.82	566.28	14.19	570.32	17.83	566.37	18.33	566.17	15.90	567.95	15.99	568.14		570.35
4/19/19	7.80	566.30	14.20	570.31	18.15	566.05	18.44	566.06	15.92	567.93	14.11	570.02	2.00	568.35
5/3/19	7.21	566.89	14.23	570.28	17.42	566.78	17.65	566.85	15.15	568.70	2.39	581.74	1.00	569.35
5/13/19	7.16	566.94	14.12	570.39	17.20	567.00	17.65	566.85	15.11	568.74	11.30	572.83	1.20	569.15
5/31/19	7.33	566.77	14.18	570.33	16.98	567.22	17.77	566.73	15.16	568.69	13.90	570.23	1.46	568.89
6/14/19	6.89	567.21	14.20	570.31	16.87	567.33	17.00	567.50	14.50	569.35	14.85	569.28	0.40	569.95
7/12/19	7.14	566.96	14.21	570.30	17.24	566.96	17.60	566.90	15.21	568.64	15.07	569.06	1.05	569.30
7/26/19	7.62	566.48	14.42	570.09	17.38	566.82	17.64	566.86	15.10	568.75	15.40	568.73	1.21	569.14
8/9/19	7.50	566.60	14.28	570.23	17.25	566.95	17.55	566.95	15.28	568.57	15.47	568.66	1.25	569.10
8/30/19	7.91	566.19	14.29	570.22	17.51	566.69	17.92	566.58	15.37	568.48	15.50	568.63	1.80	568.55
10/18/19	8.00	566.10	14.49	570.02	17.51	566.69	18.11	566.39	15.55	568.30	13.68	570.45	1.68	568.67
11/1/19	7.42	566.68	14.68	569.83	16.83	567.37	17.53	566.97	14.96	568.89	13.40	570.73	1.40	568.95

Note:
TOC Elev (ft msl) = Top-of-casing elevation (feet above mean sea level)
DTW = Depth to water measured in feet below top of casing
Elev = Groundwater or surface water elevation measured in feet above mean sea level
Wells were resurveyed on June 7, 2019. New elevation data was used for all 2019 measurements.