# SIXTH FIVE-YEAR REVIEW REPORT FOR SUMMIT NATIONAL SUPERFUND SITE PORTAGE COUNTY, OHIO

**Prepared by**

**U.S. Environmental Protection Agency**
**Region 5**
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7/7/2023

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Signed by: DOUGLAS BALLOTTI

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**APPENDICES**

## LIST OF ABBREVIATIONS & ACRONYMS

| | |
|---|---|
| ARAR | Applicable or Relevant and Appropriate Requirement |
| C-56 | hexachlorocyclopentadiene |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CFR | Code of Federal Regulations |
| COC | Contaminant of Concern |
| EC | Environmental Covenant |
| EPA | United States Environmental Protection Agency |
| ESD | Explanation of Significant Differences |
| FYR | Five-Year Review |
| ICs | Institutional Controls |
| ISCO | In-Situ Chemical Oxidation |
| LIL | Lower Intermediate Units |
| MCL | Maximum Contaminant Level |
| NCP | National Oil and Hazardous Substances Pollution Contingency Plan |
| NPL | National Priorities List |
| O&M | Operation and Maintenance |
| Ohio EPA | Ohio Environmental Protection Agency |
| OU | Operable Unit |
| PAHs | Polycyclic Aromatic Hydrocarbons |
| PCBs | Polychlorinated Biphenyls |
| PCE | Tetrachloroethene |
| PFAS | Per- and Polyfluoroalkyl Substances |
| PQL | Practical Quantitation Limit |
| PRP | Potentially Responsible Party |
| RAO | Remedial Action Objective |
| ROD | Record of Decision |
| RPM | Remedial Project Manager |
| RSL | Regional Screening Level |
| Site | Summit National Superfund Site |
| SNFT | Summit National Facility Trust |
| SSIPL | Site-specific Indicator Parameter List |
| SVOCs | Semi-Volatile Organic Compounds |
| TAL | Target Analyte List |
| TCA | 1,1,1-trichloroethane |
| TCL | Target Compound List |
| TSCA | Toxic Substances Control Act |
| UECA | Uniform Environmental Covenants Act |
| UIU | Upper Intermediate Units |
| UU/UE | Unlimited Use and Unrestricted Exposure |
| VOCs | Volatile Organic Compounds |
| WTU | Water Table Unit |

## I. INTRODUCTION

The purpose of a Five-Year Review (FYR) is to evaluate the implementation and performance of a remedy in order to determine if the remedy is and will continue to be protective of human health and the environment. The methods, findings, and conclusions of reviews are documented in FYR reports such as this one. In addition, FYR reports identify issues found during the review, if any, and document recommendations to address them.

The United States Environmental Protection Agency (EPA) is preparing this FYR pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 121, consistent with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) (40 CFR Section 300.430(f)(4)(ii)), and considering EPA policy.

This is the sixth FYR for the Summit National Superfund Site (Site). The triggering action for this statutory review is the completion date of the previous FYR. The FYR has been prepared due to the fact that hazardous substances, pollutants, or contaminants remain at the site above levels that allow for unlimited use and unrestricted exposure (UU/UE).

The Site consists of one operable unit (OU), which is addressed in this FYR. The site-wide OU addresses the Site's soil, sediment, and groundwater.

The Summit National Superfund Site FYR was led by EPA remedial project manager (RPM), Mitchell Latta. Participants included Ohio Environmental Protection Agency (Ohio EPA) project manager, Ed D'Amato. The potentially responsible parties (PRPs) and Ohio EPA were notified of the initiation of the FYR. The review began on 12/8/2022.

### Site Background

The Site is located at 1240 Alliance Road in Deerfield Township, Portage County, approximately 45 miles southeast of Cleveland, Ohio. It includes a roughly rectangular property at the southeast corner of the intersection of Ohio Route 225 and U.S. Route 224 (see Appendix B, Figure 1). Prior to the remedial construction, the Site contained the remains of a coal tipple and a scale house in the northwest corner, two dilapidated buildings in the northeast corner, an abandoned incinerator and two small buildings in the southeast corner, and two ponds (referred to as the east pond and the west pond) across the center of the property (see Appendix B, Figure 2). All these features were removed during the final cleanup. There are currently two storage structures on the site, one that houses the former pump and treat system. The site is otherwise vacant with no regular activity outside of standard operations and maintenance.

Prior to 1974, the 11.5-acre Site was formerly a coal strip mine and contained a coal wash pond and coal stockpile. The Site was used for storage and disposal of industrial waste and incineration of liquid waste from April 1974 until June 1978. EPA placed the Site on the National Priorities List (NPL) in September 1983.

The Site is currently bordered by a skating rink, a school bus storage facility and a residence to the north, a permitted solid waste landfill to the west, an undeveloped brushy wooded area to the east, and a commercial concrete facility and an old unpermitted landfill to the south. The surrounding area is a mix of commercial, agricultural, and residential properties. It is anticipated that the future land use in the surrounding area will not change from current use. Approximately 4,500 people live within three miles

of the Site. Surface water and shallow groundwater in the vicinity of the Site flow to the southeast, toward the Berlin Lake reservoir, which is a standby water supply for the City of Youngstown.

The strata at the Site have been characterized as three separate hydrogeologic units: the Water Table Unit (WTU), the Upper and Lower Intermediate Units (UIU and LIU) and the Upper Sharon aquifer. The WTU is generally from 5 to 12 feet below grade and flows to the southeast. Groundwater in the UIU flows generally southeastward and in the LIU, it flows westward. The Upper Sharon aquifer flows to the north. Surface water and shallow WTU groundwater in the vicinity of the Site flow to the southeast, toward the Berlin Lake reservoir.

## FIVE-YEAR REVIEW SUMMARY FORM

| SITE IDENTIFICATION | | |
|---|---|---|
| **Site Name:** Summit National | | |
| **EPA ID:** OHD980609994 | | |
| **Region:** 5 | **State:** OH | **City/County:** Deerfield Township/ Portage County |
| **SITE STATUS** | | |
| **NPL Status:** Final | | |
| **Multiple OUs?** No | **Has the site achieved construction completion?** Yes | |
| **REVIEW STATUS** | | |
| **Lead agency:** EPA<br>***[If "Other Federal Agency", enter Agency name]*:** | | |
| **Author name (Federal or State Project Manager):** Mitchell Latta | | |
| **Author affiliation:** EPA Region 5 | | |
| **Review period:** 12/8/2022 – 1/25/2023 | | |
| **Date of site inspection:** 11/15/2022 | | |
| **Type of review:** Statutory | | |
| **Review number:** 6 | | |
| **Triggering action date:** 7/13/2018 | | |
| **Due date *(five years after triggering action date)*:** 7/13/2023 | | |

## II. RESPONSE ACTION SUMMARY

### Basis for Taking Action

The Remedial Investigation included a risk assessment to determine the potential risk the Site may have on human health. The study concluded that unacceptable health risks [i.e., greater than an excess lifetime cancer risk of 1 x 10-4 to 1 x 10-6 or a non-cancer hazard index (HI) greater than 1] may occur under current and potential future conditions (CH2M Hill; 1988). The potential pathways of human exposure are incidental ingestion and direct contact of soil, and consumption of contaminated groundwater in the shallow and intermediate water bearing units beneath the site. Risks were evaluated for:

- Current on-site trespasser exposure to soil,
- Current off-site worker exposure to soil at the southern perimeter of the Site,
- Current off-site resident exposure to soil at the eastern perimeter of the Site,
- Current risks to children from sediment in the off-site ditches and to teenagers from the sediment in the impoundment south of the Site,
- Risks to future on-site workers and residents living on the Site from exposure to on-site soil and groundwater.

Hazardous substances and other contaminants released at the Site in each medium included a variety of volatile organic chemicals (VOCs), semi-volatile organic chemicals (SVOCs), pesticides, polychlorinated biphenyls (PCBs), and inorganic chemicals (i.e., metals). The contaminants of concern (COCs) at the Site in various media are shown in the four tables below: soils (Table 1), sediments (Table 2), surface water (Table 3), and groundwater (Table 4).

**Table 1: Soil COCs**

| Contaminant |
|---|
| Bis(2-ethylhexyl) Phthalate |
| 1,2-Dichloroethane |
| Hexachlorobenzene |
| PCBs |
| PAHs |
| TCE |

**Table 2: Sediment COCs**

| Contaminant |
|---|
| Bis(2-ethylhexyl) Phthalate |
| 1,2-Dichloroethane |
| PCBs |
| PAHs |

**Table 3: Groundwater & Surface Water COCs**

| Contaminant |
|---|
| Antimony |
| Acetone |
| Barium |
| Bis(2-ethylhexyl) phthalate |
| Chlorobenzene |
| Chromium (VI) |
| Cyanides |
| Cis-1,2-Dichloroethene |
| Trans-1,2-Dicholoethene |
| 1.2-dichloroethane |
| 1.1-dichloroethene |
| Ethylbenzene |
| Nickel |
| Phenol |
| PAHs |
| Tetrachloroethene |
| Toluene |
| Trichloroethene |
| Vinyl Chloride |
| Zinc |

## Response Actions

*Initial Response Actions*

In August 1979, the State of Ohio filed a complaint alleging the operation of a solid waste disposal facility without a permit, creation of a public nuisance, failure to comply with orders from Ohio EPA and installation of facilities for the storage and disposal of liquid wastes without submitting plans to the state agency. After an investigation confirmed the presence of more than 7,500 gallons of hexachlorocyclopentadiene, also known as C-56, a chemical used in the manufacture of pesticides, EPA informed the then-owner of the Site that remedial action was being planned pursuant to Section 311 of the Clean Water Act. The owner declined to act or to fund a cleanup, so EPA funded the cleanup of C-56 waste from September through November 1980. From early spring to late fall of 1980, Ohio EPA fenced the Site, graded the surface to control surface water run on and run off, identified the contents and staged about 2,000 drums, characterized the contents of several bulk tanks, and installed two on-site and four off-site monitoring wells.

During 1980 and 1981, some of the companies that had brought waste to the Site identified themselves and voluntarily removed their wastes. In November 1980, an agreement was reached between the State of Ohio and eight generators that provided $2.5 million for a surface cleanup. The cleanup operation included removal of 17,000 drums, bulk tanks, a concrete pit and its contents, surface debris, and a small amount of contaminated soil. The surface cleanup was concluded in June 1982.

During the spring of 1987, EPA Region 5 Emergency Response personnel responded to an emergency involving periodic overflows from the east pond to an adjacent residential property. The response included the removal of a buried tank near the incinerator that used to operate at the Site.

*Remedial Decisions*

EPA issued a Record of Decision (ROD) for the Site on June 30, 1988, and later issued a ROD amendment on November 2, 1990, and an Explanation of Significant Differences (ESD) on March 23, 1992 (EPA, 1988; EPA, 1990; EPA, 1992).

The selected remedy for the Site, as documented in the ROD, ROD Amendment, and ESD, included the following remedy components:

- Construction of a chain link fence around the Site's boundary.
- Excavation and on-site incineration of 24,000 cubic yards of on-site soils, 4,000 cubic yards of perimeter sediments, and the contents of an estimated 900 to 1,600 buried drums.
- Demolition or dismantling of all on-site structures for on-site disposal.
- Collection and treatment of surface water from the two on-site ponds and from drainage ditches, followed by excavation and on-site treatment of the sediments from the ponds.
- Extraction of groundwater from the WTU by a pipe and media drain system (i.e., passive system) along the southern boundary and the southern ends of the eastern and western boundaries, and extraction of additional groundwater via extraction wells in the Intermediate Unit, with treatment of all extracted groundwater
- Removal/relocation of a vacant residence and cement plant property.
- Testing of the ash from the incinerated soil and sediment to ensure compliance with EPA and State standards before using the ash as fill to re-grade the Site prior to placement of the final cover. In the event the incinerator is unable to meet Toxic Substances Control Act (TSCA) standards for PCBs during the test burn, PCB-contaminated soil exceeding 50 parts per million would be disposed off-site at a TSCA landfill.
- Regrading and installation of a soil cover over about 10.6 acres of the Site, consisting of 18 inches of loam, six inches of topsoil, and a vegetative cover.
- Rerouting the South and East drainage ditches to uncontaminated off-site areas.
- Limiting access and implementing deed restrictions to limit future uses of the Site.

The selected remedy was designed to address three major remedial action objectives (RAOs): 1) protection and enhancement of the quality of the groundwater and recovery of the groundwater resource in the vicinity of the Site; 2) protection of the quality of the surface water in the vicinity of the Site; and 3) protection of the public from direct contact with contaminated material on or near the Site, and from migration of surficial contaminants via surface runoff, wind erosion and volatilization.

COCs and cleanup levels for groundwater, surface water, soils, and sediments, as defined in the 1988 ROD, are presented in Tables 5, 6, and 7, below. Cleanup levels for surface water and groundwater contaminants were set equivalent to Safe Drinking Water Act Maximum Contaminant Levels (MCLs) or Ohio Water Quality Standards, when an MCL was not available. Soils and sediments cleanup levels are based on a $10^{-6}$ cancer risk for an adult recreator.

**Table 5: Cleanup levels for COCs in Surface & Groundwater**

| Contaminant | MCLs or *MCLGs* (µg/L) | Contaminant | MCLs or *MCLGs* (µg/L) |
|---|---|---|---|
| Antimony | 6 | 1.1-dichloroethene | 7 |
| Acetone | 78,000* | Ethylbenzene | 700 |
| Barium | 1,000 | Nickel | 506* |
| Bis(2-ethylhexyl) phthalate | 0.18 | Phenol | 370* |
| Chlorobenzene | *60* | PAHs | - |
| Chromium (VI) | 50 | Tetrachloroethene | 5 |
| Cyanides | 8.1* | Toluene | *1,700* |
| Cis-1,2-Dichloroethene | 70 | Trichloroethene | 5 |
| Trans-1,2-Dicholoethene | *70* | Vinyl Chloride | 1 |
| 1.2-dichloroethane | 5 | Zinc | 270* |

*- denotes Ohio Water Quality Standards, when MCL was not available

**Table 6: Cleanup Levels for COCs in Soils**

| Contaminant | Cleanup Level[1] (mg/Kg) |
|---|---|
| Bis(2-ethylhexyl) Phthalate | .072 |
| 1,2-Dichloroethane | 5.4 |
| Hexachlorobenzene | 0.29 |
| PCBs | 0.11 |
| PAHs | 0.043 |
| TCE | 4.5 |

1- Cleanup levels are based on a $10^{-6}$ cancer risk for an adult recreator for each chemical presented.

**Table 7: Cleanup Levels for COCs in Sediments**

| Contaminant | Cleanup Level[1] (mg/Kg) |
|---|---|
| Bis(2-ethylhexyl) Phthalate | 7,400 |
| 1,2-Dichloroethane | 5.6 |
| PCBs | 1.2 |
| PAHs | 0.44 |

1- Cleanup levels are based on a 10-6 cancer risk for an adult recreator for each chemical presented.

## Status of Implementation

A Consent Decree (Civil Action number C81-1961) between EPA, Ohio EPA, and the settling PRPs was entered and became effective on June 11, 1991. The settling PRPs formed the Summit National Facility Trust (SNFT) to implement the selected remedy. Following completion of the remedial design (Conestoga-Rovers & Associates (CRA), 1993), the remedial action was implemented in five phases

from June 30, 1993, to August 23, 1995. Between August 1994 and April 1995, the site boundary was expanded to include all contaminated areas, and a fence was installed around the site to limit access. All onsite structures were demolished including one residence which was relocated. Approximately 21,100 tons of soil and sediments were incinerated on-site. Soils were tested for organic concentrations and toxicity characteristic leaching procedure metals in 500-ton batches. A water treatment system was construction in order to collect and treat of surface water and groundwater. The only change in the selected remedy from what was anticipated was that the contents of 480 overpacked drums were taken off-site for disposal instead of being incinerated on-site. After excavation of soils and site debris, the site was regraded, and a cap was put over the excavation area using clean fill material. A vegetative cover was then grown on the site which is still maintained regularly.

EPA conducted the final Site inspection in August 1995 and the Site achieved the construction completion milestone on September 18, 1995, with EPA's issuance of the Preliminary Close-Out Report (EPA, 1995). SNFT issued a Remedial Action Report documenting that the RA construction was complete, including as-built drawings, on October 31, 1995 (CRA, 1995). An Institutional Control (IC) was implemented at a later date and is discussed below.

In May 1995, the SNFT submitted an evaluation of the groundwater extraction system to EPA and Ohio EPA which showed that the groundwater contamination in the WTU was effectively contained by the pipe and media drain system but that the extraction wells installed in the Intermediate Unit were not providing an effective horizontal area of capture to contain groundwater in the Intermediate Unit at the Site boundary (CRA, 1995). The evaluation also showed that the extraction wells in the Intermediate Unit would likely draw contaminants from the WTU into the Intermediate Unit along portions of the pipe and media drain. The evaluation also concluded that the groundwater drawdown created by the pipe and media drain in the WTU induces a natural upward gradient from the Intermediate Unit to the pipe and media drain. Based on the April 1995 evaluation, EPA and Ohio EPA approved the shutdown of the groundwater extraction wells in the Intermediate Unit in May 1995. The pipe and media drain groundwater collection system continued to operate, along with the groundwater treatment system.

In the 2004 ten-year groundwater evaluation (submitted in March 2005), the SNFT requested permission to suspend operation of the groundwater extraction and treatment system. The request was based on the stability of on-site groundwater contaminant concentrations and the absence of an indication of adverse impacts to downgradient groundwater in any of the groundwater units (CRA, 2005). In June 2005, the SNFT contractor submitted a "Work Plan for Groundwater Migration Evaluation" to Ohio EPA that included post-shutdown evaluation monitoring (CRA, 2005). Ohio EPA approved the Work Plan on July 18, 2005. Approval of the plan allowed the SNFT to shut down the groundwater collection and treatment system and to continue collecting groundwater hydraulic monitoring data as well as groundwater samples for chemical analysis to determine whether the groundwater plume would remain stable without operation of the system. On August 31, 2005, the groundwater extraction and treatment system were shut down, which commenced the shutdown evaluation period. The sampling event that took place that month was established as the pre-shutdown baseline monitoring event for the groundwater migration evaluation. The system has remained in shutdown status since that time. Contingency criteria for restarting the extraction system or taking other measures are discussed below in the Data Review section of this FYR.

In a letter to the SNFT on May 1, 2020, EPA granted the SNFT's request to discontinue sediment sampling at the Site based on recent results which suggest the presence of immobile constituents and

because no contemporary Site-related environmental conditions or activities necessitate ongoing sediment monitoring (EPA, 2020).

On August 17, 2022, EPA deleted the land/soil portion of the Site from the NPL through a partial deletion after determining that the soil cleanup was complete, and no further action was necessary other than continued operation and maintenance (O&M), monitoring, and FYRs (EPA, 2022). The groundwater portion of the site is undergoing a long-term cleanup and remains on the NPL along with the surface water and sediments that shallow groundwater may discharge to.

## Institutional Controls

An IC has been implemented at the Site in the form of an environmental covenant (EC) that conforms to the Ohio Uniform Environmental Covenants Act (UECA), as summarized in Table 8 below.

**Table 8: Summary of Planned and/or Implemented ICs**

| Media, engineered controls, and areas that do not support UU/UE based on current conditions | ICs Needed | ICs Called for in the Decision Documents | Impacted Parcel(s) | IC Objective | Title of IC Instrument Implemented and Date (or planned) |
|---|---|---|---|---|---|
| Land – Onsite | Yes | Yes | Sitewide | Prohibit any filling, grading, excavating, building, drilling, mining, farming or other development on property within the Site, except for activities required pursuant to the Consent Decree | EC per the Ohio UECA, recorded with Portage County Recorder on June 5, 2013. |
| Groundwater - On Site current area that exceeds groundwater cleanup standards | Yes | Yes | Sitewide | Prohibit groundwater use, extraction, or development until cleanup standards are achieved. | EC per the Ohio UECA, recorded with Portage County Recorder on June 5, 2013. |
| Surface Water – On site | Yes | Yes | Sitewide | Prohibit use of surface water within the Site for any purpose. | EC per the Ohio UECA, recorded with Portage County Recorder on June 5, 2013. |
| Other Remedial Action Components | Yes | Yes | Sitewide | Prohibit inconsistent uses and protect the integrity of the remedy components. | EC per the Ohio UECA, recorded with Portage County Recorder on June 5, 2013. |

A map showing the area in which the ICs apply is included in Appendix B.

Status of Access Restrictions and ICs: Access to the Site is restricted by a fence. All required ICs at the Site have been implemented.

Current Compliance: Based on the 11/15/2022 FYR Site inspection and interviews with the PRPs' site manager, EPA is not aware of Site or media uses which are inconsistent with the stated objectives for the IC in place.

IC Follow up Actions Needed: No follow up actions needed at this time.

Long Term Stewardship: Long-term protectiveness at the Site requires compliance with use restrictions to assure the remedy continues to function as intended. To assure proper maintenance and monitoring of the IC that has been implemented at the Site, long-term stewardship procedures for the IC were put in place in September 2013 as part of the Operation, Maintenance and Monitoring Plan (OMMP) (CRA 2013). These procedures are conducted by the PRPs on an annual basis to ensure proper monitoring and enforcement of the IC at the Site. The OMMP includes regular inspection of the IC and annual certification to EPA that the IC is in place and effective.

**Systems Operations/Operation & Maintenance**

Since shutdown of the groundwater collection/extraction and treatment system in August 2005, the primary activities at the Site have included groundwater, surface water, and sediment monitoring as well as inspection and maintenance of the Site cover and fence.

A site-specific indicator parameter list (SSIPL) was developed and approved by Ohio EPA and EPA for groundwater quality monitoring. Since development and approval of the SSIPL, the groundwater monitoring program includes annual sampling of selected WTU and UIU on-site and downgradient monitoring wells, with samples analyzed for the SSIPL, except that every fifth year all wells in the monitoring well network are sampled for the full target compound list/target analyte list (TCL/TAL) analysis. The wells sampled during the routine annual events include 8 WTU wells (on-site wells MW-11, MW-107, MW-108, MW-111, and MW-113, and downgradient off-site wells MW-4, MW-114 [sentinel], and MW-115 [sentinel]) and 4 UIU wells (on-site wells MW-207 and MW224, and downgradient off-site wells MW-209 and MW-220). Surface water samples are also taken from the ditch that runs along the site and analyzed for the SSIPL. As part of a partial deletion completed at the site in 2020, the PRPs no longer collect sediment samples at the site.

Per the OMMP, groundwater monitoring reports, as well as annual evaluation and progress reports, are submitted to EPA and Ohio EPA. Operation and maintenance (O&M) activities include periodic inspection and maintenance of the Site cover, monitoring wells, and perimeter fence.

## III. PROGRESS SINCE THE LAST REVIEW

This section includes the protectiveness determinations and statements from the last FYR as well as the recommendations from the last FYR and the current status of those recommendations.

**Table 9: Protectiveness Determinations/Statements from the 2018 FYR**

| OU # | Protectiveness Determination | Protectiveness Statement |
|---|---|---|
| 1 / Sitewide | Protective | The remedy at the Summit National Superfund Site is protective of human health and the environment. Exposure pathways to contaminated groundwater are being controlled and exposure to contaminated soil at the Site has been addressed by incinerating the most heavily contaminated soils, sending several hundred drums of waste off-site for disposal, applying a clean soil cover and a vegetative cover over remaining soil contamination, and by fencing that surrounds the Site. All required ICs have been implemented, with an EC under the Ohio UECA recorded on June 5, 2013. Long-term stewardship procedures are in place, and compliance with effective ICs is being ensured through long-term stewardship by maintaining, monitoring, and enforcing effective ICs. |

There were no issues and recommendations in the last FYR that affected the protectiveness of the remedy.

**OTHER FINDINGS from the 2018 FYR**

The following recommendation was identified during the 2018 FYR Site inspection that may improve management of O&M at the Site but does not affect current nor future protectiveness:

• Create new permanent labels to identify the monitoring wells; the current label identifications on the monitoring wells are barely legible.
*Status update*: Permanent labels have been placed on all monitoring wells.

## IV. FIVE-YEAR REVIEW PROCESS

### Community Notification, Involvement & Site Interviews

A public notice was made available on the EPA website for Summit National, on 12/29/2022, stating that there was a FYR and inviting the public to submit any comments to EPA. A copy of the public notice is included in Appendix C. No comments were received for this FYR resulting from the public notice. This FYR report will be made available at the Site information repository located at Reed Memorial Library, 167 E Main Street, Ravenna, Ohio, and online at http://www.epa.gov/superfund/summitnational

During the FYR process, interviews were conducted to document any perceived problems or successes with the remedy that has been implemented to date**.** The project manager and property manager were both interviewed onsite during the FYR site inspection. There were no major issues at the site identified during these interviews. They identified some minor issues that are summarized in the Site Inspection section below.

### Data Review

Monitoring of groundwater contaminant concentrations, hydraulic containment, and the groundwater treatment system (while it was operating) have been ongoing since November 1994. The data were regularly reported to and reviewed by EPA and Ohio EPA. For this FYR, all data since 1994 were reviewed, with an emphasis on data obtained since the previous FYR. The data discussed in this section is focused on annual sampling events from 2018-2022, and the five-year sampling event performed in 2019.

Groundwater

The objectives of the annual groundwater monitoring program are to characterize any changes in groundwater quality in the WTU and UIU underlying the interior affected area of the Site and in the sentinel wells downgradient of the Site. The results from the sentinel wells were evaluated using the extraction system shutdown contingency criteria established for the Site as modified in the 2010 groundwater monitoring report, as follows:

> *"If VOCs above their respective maximum contaminant level (MCL) are detected in the sentinel wells (off-site downgradient WTU monitoring wells MW-114 and MW-115), SNFT will evaluate options to mitigate the release (e.g., restart the groundwater extraction system, implement in-situ chemical oxidation (ISCO) to treat the released groundwater, phytoremediation, etc.). The sentinel wells are located 70 to 80 feet south of the southern property boundary and wet well of the pipe and media drain.*
>
> *"During pumping of groundwater from the pipe and media drain, the WTU zone of groundwater capture extends 100 to 200 feet south of the pipe and media drain at the wet well. In this case, off-site downgradient WTU monitoring wells MW-116, MW-117 and MW-118 (approximately 230 feet south of the southern property boundary) will be used to verify whether there is any long term impact to the groundwater south of the Site and outside the influence of the pipe and media drain."*

For this FYR period, water quality data from the annual events completed in 2018, 2020, 2021, and 2022 are summarized in tables 11a, 11b, and 11c (Appendix D). Water quality data collected during the 2019 full TCL/TAL five-year sampling event is presented in Appendix D. Historic groundwater sampling results are displayed graphically in Appendix E, which shows time-series plots of the results for each individual SSIPL VOC at each individual WTU and UIU annual-event monitoring well. Electronic database files containing all historic results are maintained by Eagon & Associates, Inc. (a contractor for the SNFT).

The groundwater monitoring data collected from 2018 through 2022 from the two WTU sentinel wells show the following:

- MW-114

  At MW-114, two SSIPL VOCs – toluene (MCL=1000 µg/L), and xylene (total) (MCL= 70µg/L) – were detected, in 2020, at estimated "J-flagged" values that were less than the practical quantitation limit (PQL). (Appendix D)

- MW-115

- Two VOCs – 1,1-dichloroethane (no MCL) and cis-1,2-dichloroethene (MCL = 70 µg/L) – were detected each year, which is consistent with historic data, but with decreasing concentration trends compared to historic data. Cis-1,2-dichloroethene was well below its MCL. (Appendix D)
- Additional VOC detections include 1,2-dichloroethane from 2019-2022 (MCL=5µg/L), toluene (MCL=1000 µg/L), and xylene (total) (MCL= 70µg/L). All of which were detected at estimated "J-flagged" values that were less than the PQL and well below their respective MCLs. (Appendix D)

Table 11b (Appendix D) summarizes the detections at the sentinel wells during this review period and presents a comparison with MCLs, where applicable. Based on the data from the sentinel wells, EPA and Ohio EPA agree that no contingency actions need to be taken at this time, and the groundwater collection and treatment system can remain off, pending the results of the 2023 and future groundwater sampling events.

A review of the groundwater data collected from 2018 through 2022 from the other WTU and UIU annual-event monitoring wells shows the following:

- Contaminant concentrations in downgradient WTU monitoring wells (MW-4, in addition to sentinel wells MW-114 and MW-115) have remained either non-detect or similar to the concentrations detected since the 2005 baseline sampling event. Cis-1,2 DCE values ranging from 4.9µg/L (2020) to 4.3µg/L (2021-22) (MCL=100µg/L). 1,1-DCE values ranging from 1.3µg/L (2020) to 1.5µg/L(2022) (no MCL). Full results are shown in Appendix D.
- Contaminant concentrations at most on-site WTU monitoring wells (MW-11, MW-107, MW111, MW-113) were consistent with historic results with detections of Trichloroethene, Benzene, and Vinyl Chloride above MCLs (full results in appendix D). Detections of the following contaminants were found at these wells below MCLs: 1,1,1-Trichlorothane, 1,1-DCE, 1,2-DCE, cis-1,2-DCE, trans-1,2-DCE (Appendix D), Contaminant concentrations at the other on-site WTU monitoring well (MW-108) continued to show increasing trends for the following SSIPL VOCs; 1,1-DCE, Benzene, cis-1,2-DCE, trans-1,2-DCE and Vinyl Chloride, as shown in the plots in Appendix E. While the detected compounds seem to be contained within the Site boundaries, as evidenced by continued non-detections of SSIPL VOCs in the closest WTU downgradient well (MW-4), EPA will continue to monitor trends at MW-108 closely. This FYR includes a recommendation for additional monitoring activities to ensure contamination detected at MW-108 is contained within the site boundaries.
- Contaminant concentrations in downgradient UIU monitoring wells (MW-209 and MW220) have remained either non-detect or similar to (if not lower than) the concentrations detected since the 2005 baseline sampling event. The only detections were for acetone (detected at MW-209 each year during this review period at concentrations consistent with historic results and detected in 2018-2020 at concentrations lower than historic results, ranging from low "J-flagged" estimated concentrations 4.4-6.9µg/L ) and toluene and xylene (total) (detected at MW-209 only in 2018-2020 at a low "J-flagged" estimated concentration 0.19-0.43µg/L J). Results for detections at MW-209 are summarized in table 11c (Appendix D).

- Contaminant concentrations at on-site UIU wells (MW-207 and MW-224) were all non-detect during this review period for MW-224. There were two detections for well MW-207 for contaminants toluene and xylene (total) in 2020. These were detected at estimated "J-flagged" values that were less than the PQL.

Overall, the groundwater monitoring results collected and evaluated during this review period confirm that the Site continues to achieve the post-shutdown goal of on-site containment of waste-derived constituents as defined in the 2005 Work Plan for Groundwater Migration (CRA, 2005). Off-site boundary wells were installed to monitor for off-site migration of site-related contamination. No significant detections of site related contamination have been observed at the off-site wells. All post-shutdown monitoring, including the data collected during this FYR period, have demonstrated that the cessation of pumping operations in 2005 has not resulted in detrimental impacts to groundwater quality off-site. Current groundwater contaminant concentrations within the Site boundaries are still well above the groundwater cleanup standards.

Hydraulic Monitoring

Review of hydraulic monitoring data since the startup of the groundwater collection system, in conjunction with a review of the groundwater quality monitoring data, have shown that hydraulic containment has been consistently maintained, even following shutdown of the groundwater collection and treatment system. Groundwater hydraulic monitoring is currently performed annually and consists of taking groundwater level measurements at the network of on-site and off-site monitoring wells and piezometers in the WTU and UIU. The groundwater elevation contours during this review period demonstrate that the horizontal direction of groundwater flow is generally southeasterly in the WTU, as has been consistently observed in the past. The groundwater flow direction in the UIU is generally easterly and is consistent with the pre-shutdown groundwater flow direction in this unit. Potentiometric surface maps from the most recent annual report are attached in Appendix B. Contaminated groundwater was effectively contained within the Site boundaries by the pipe and media drain groundwater collection system during its operation (1995-2005) and continues to be contained by the low permeability of the hydrogeologic units, and groundwater contamination has not migrated off-site.

Surface Water

Surface water samples are collected annually from the confluence of the south and east (or "S&E") ditches adjacent to the Site and analyzed for VOCs and SVOCs. Appendix F presents time-series concentration plots for VOCs detected in surface water since 1996. The results during this review period (2018 through 2022) were consistent with historical results, non-detect or below detection limits, and show that there are no significant impacts to surface water quality as the result of the Site.

Sediment

SNFT sampled for sediment in their 2018 annual sampling event. The sediment samples included several polycyclic aromatic hydrocarbons (PAHs) that were detected at or above their respective PQLs, The April 2018 list of detected constituents was consistent with 2019 results as well (Appendix D, Table 2B). None of the quantified sediment COC concentrations exceeded either residential or industrial Regional Screening Levels (RSLs) in April 2018 or the 2019 five-year sampling events and no VOCs were detected in the sediment samples (Appendix D, Table 2B). Detections of PAHs in the sediment samples are attributed to past coal mining activities in the area

In the 2019 five-year sampling event report, SNFT requested discontinuing sampling of ditch sediments during annual (and five-year) events because past monitoring has found only immobile constituents related to historic coal-mining activities. In a letter from Ohio EPA on July 1, 2020, Ohio EPA and EPA agreed to the proposal to discontinue sediment sampling at the Site. EPA agreed that sediment sampling could be discontinued at the Site based on recent results which suggest the presence of immobile constituents and because no contemporary Site-related environmental conditions or activities necessitate ongoing sediment monitoring. Sediment samples show multiple detections of SVOCs comprised of PAHs presumed to be associated with historic coal-mining activities on and adjacent to the Site. Surface water samples suggest that there are no significant influences on surface water or sediment quality as the result of the Site. EPA determined that the site had achieved RAOs related to sediment and issued a partial deletion for the site in 2020.

**Site Inspection**

The inspection of the Site was conducted on 11/15/2022. In attendance were Mitchell Latta, EPA RPM; Ed D'Amato, Ohio EPA; and Michael Gibson with Eagon, Inc.; and On-Site O&M Staff David Miller with D&M Consultants representing the PRPs. The purpose of the inspection was to assess the protectiveness of the remedy.

Mitchell Latta and Ed D'Amato met with SNFT's representatives in the onsite building to begin the inspection and began with an interview. The PRPs' representatives noted no major issues or changes since the previous FYR. The team started by inspecting the inactive groundwater treatment plant. The PRPs' representatives had all required safety plans on site. The team walked around the Site. No major issues were observed during the walk through. The cap and vegetative cover were in good condition with no visible issues noted. Monitoring wells were clearly labeled and locked. Fencing was in good condition and all gates were locked and secure. The PRPs' representatives mentioned that there were some issues with cars damaging fencing on the Northwest corner of the Site, which is next to a busy intersection, but all damaged fencing has been replaced. Based on the Site inspection, there are no Site or media uses occurring which are incompatible with the stated objectives of the IC in place.

## V. TECHNICAL ASSESSMENT

**QUESTION A:** Is the remedy functioning as intended by the decision documents?

**Question A Summary:**
Yes. Based on a review of relevant Site documents, environmental data, risk assumptions, and the results of the Site inspection, the remedy appears to be functioning as intended by the decision documents (1988 ROD, 1990 ROD amendment, and 1992 ESD) and is expected to continue to do so.

***Remedial Action Performance***

The contamination remaining at the site is in groundwater. The remaining contaminants in the groundwater are effectively contained by the remedy and are gradually being reduced. Contaminated soils were covered with 2.5 feet of clean soil and by a vegetative cover and the Site is entirely fenced to prevent access and direct contact exposures. Contaminated groundwater was effectively contained within the Site boundaries by the pipe and media drain groundwater collection system during its

operation (1995-2005) and continues to be contained by the low permeability of the hydrogeologic units, and groundwater contamination has not migrated off-site. The offsite monitoring wells have consistently shown that groundwater contamination is contained onsite. An effective IC is in place to prevent use of onsite groundwater until cleanup standards are achieved.

***System Operations/O&M***

Current O&M activities include groundwater monitoring, hydraulic monitoring, surface water monitoring, soil cover maintenance, and fence repairs as needed.

***Implementation of Institutional Controls and Other Measures***

The required ICs have been implemented, in the form of an EC recorded on June 5, 2013, and there are no Site or media uses occurring which are incompatible with the stated objectives of the IC in place. Long-term stewardship procedures were put in place in September 2013 as part of the OMMP and include regular inspection of the ICs and annual certification to EPA that the ICs are in place and effective.

**QUESTION B:** Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection still valid?

**Question B Summary:**

No. The RAOs are still valid, but there have been some changes to toxicity factors and cancer slope factors since the time the remedy was selected, as discussed below. Further, the potential for emerging contaminants such as per- and polyfluoroalkyl substances (PFAS) and 1,4 Dioxane in site groundwater could affect the exposure assumptions made at the time of remedy selection if they are determined to be present and site related. These changes do not affect the protectiveness of the remedy as ICs are in place to prohibit use of groundwater at the site and data shows that site-related contamination is not migrating off-site.

Also, based on the types of waste that were historically accepted by the landfill, there is potential for the emerging contaminant PFAS in the groundwater at the Site. Out of an abundance of caution, the Site should be evaluated for the presence of PFAS compounds and 1,4-Dioxane to be considered protective in the long-term.

***Changes in Standards and TBCs***

The values that are the basis for the groundwater cleanup standards that are part of the selected remedy have changed over the years, with some having increased and some having decreased. Cleanup levels for surface water and groundwater contaminants were set equivalent to Safe Drinking Water Act MCLs or Ohio Water Quality Standards, when an MCL was not available. The cleanup standards for benzene, 1,2-dichloroethane, PCE, TCE and vinyl chloride have become more stringent compared to the standards in the remedy selection decision documents that are based on MCLs, while the standard for chloroethane has become less stringent. Groundwater results are compared with the updated MCLs. At this time, however, data shows that groundwater contamination is contained, and there are ICs in place preventing use of the groundwater and there is not an impact on current protectiveness. However, because these standards have changed and are more stringent, EPA needs to evaluate whether a decision document is needed to update the groundwater cleanup standards.

***Expected Progress Towards Meeting RAOs***

The selected remedy was designed to address the three RAOs: 1) protection and enhancement of the quality of the groundwater and recovery of the groundwater resource in the vicinity of the Site; 2) protection of the quality of the surface water in the vicinity of the Site; and 3) protection of the public from direct contact with contaminated material on or near the Site, and from migration of surficial contaminants via surface runoff, wind erosion and volatilization.

Overall, the groundwater monitoring results collected and evaluated during this review period confirm that the Site continues to achieve the post-shutdown criteria of on-site containment of waste-derived constituents. All post-shutdown monitoring, including the data collected during this FYR period, have demonstrated that the cessation of pumping operations in 2005 has not resulted in detrimental impacts to groundwater quality off-site. These results are effectively addressing the second RAO. Current groundwater contaminant concentrations within the Site boundaries are still well above the groundwater cleanup standards, and it appears that it will be many years before the concentrations will fall below those standards and fully meet the first RAO. The third RAO is being met through placement of the cap and a fence. Containment of the contaminants on site is addressing the third RAO.

**QUESTION C:** Has any other information come to light that could call into question the protectiveness of the remedy?

**Question C Summary:**
No. No additional information was discovered as part of this FYR to call into question the protectiveness of the remedy. EPA is not aware of any impacts from climate change or natural disasters at this site in this five-year period.

## VI. ISSUES/RECOMMENDATIONS

| **Issues and Recommendations Identified in the Five-Year Review:** |
|---|

| **OU(s): OU1/Sitewide** | **Issue Category: Monitoring** | | | |
|---|---|---|---|---|
| | **Issue:** There is the potential for the emerging contaminants PFAS and 1,4 Dioxane in the groundwater at the Site based on Site history. | | | |
| | **Recommendation:** Samples should be collected and analyzed for PFAS and 1,4-Dioxane in the next groundwater sampling event under an EPA-approved Uniform Federal Policy-Quality Assurance Project Plan to determine if they are present and site-related. | | | |
| **Affect Current Protectiveness** | **Affect Future Protectiveness** | **Party Responsible** | **Oversight Party** | **Milestone Date** |
| No | Yes | PRP | EPA/State | 12/30/2024 |

| | **Issue Category: Monitoring** |
|---|---|

| OU(s): OU1/Sitewide | **Issue:** Increasing contamination observed at MW-108 and recent surface water results shows cis-DCE detections. These results could indicate this water body is receiving contaminants from the landfill. | | | |
|---|---|---|---|---|
| | **Recommendation:** PRPs should further investigate potential transport of site-related contaminants to the surface water body and potential offsite migration of COCs. PRPs should also analyze current off-site well placement to determine if more monitoring wells are necessary to address data gaps. | | | |
| **Affect Current Protectiveness** | **Affect Future Protectiveness** | **Party Responsible** | **Oversight Party** | **Milestone Date** |
| No | Yes | PRP | EPA/State | 12/30/2024 |

| OU(s): OU1/Sitewide | **Issue Category: Monitoring** | | | |
|---|---|---|---|---|
| | **Issue:** Some of the groundwater standards have changed and are more stringent. | | | |
| | **Recommendation:** EPA needs to evaluate whether a decision document is needed to update the groundwater cleanup standards, and if so, complete one. | | | |
| **Affect Current Protectiveness** | **Affect Future Protectiveness** | **Party Responsible** | **Oversight Party** | **Milestone Date** |
| No | Yes | EPA | EPA/State | 12/30/2024 |

## VII. PROTECTIVENESS STATEMENT

| **OU1 and Sitewide Protectiveness Statement(s)** |
|---|
| *Protectiveness Determination:*<br>Short-term Protective |
| *Protectiveness Statement:* The remedy at the Site currently protects human health and the environment because exposure pathways that could result in unacceptable risks are being controlled. Exposure pathways to contaminated groundwater are being controlled through groundwater containment and ICs. Exposure to contaminated soil at the Site has been addressed by incinerating the most heavily contaminated soils, sending several hundred drums of waste off-site for disposal, applying a clean soil cover and a vegetative cover over remaining soil contamination, and by fencing that surrounds the Site. All required ICs have been implemented, with an EC under the Ohio UECA recorded on June 5, 2013, to prevent unacceptable exposures, and recent inspection results indicate there are no Site or media uses occurring which are incompatible with the objectives of this implemented IC.<br><br>Current data shows that the Site continues to achieve the post-shutdown criteria of on-site containment of waste-derived constituents, following the 2005 shutdown of the water treatment system.<br><br>However, in order for the remedy to be protective in the long term, the following actions need to be taken to ensure protectiveness:<br>• Samples should be collected and analyzed for PFAS and 1,4-Dioxane in the next groundwater sampling event under an EPA-approved Uniform Federal Policy-Quality Assurance Project Plan to determine if they are present and site-related. |

- Further investigation into the hydrogeological connection between groundwater and surface water is required to determine whether site-related contaminants are being transported into the water body.
- EPA needs to evaluate whether a decision document is needed to update the groundwater cleanup standards, and if so, complete one.

## VIII. NEXT REVIEW

The next FYR report for the Summit National Superfund Site is required five years from the completion date of this review.

# APPENDIX A – REFERENCE LIST


CH2M Hill; 1988 - Feasibility Study Report - Summit National Superfund Site - February 10, 1988

CH2M Hill; 1988 - Remedial Investigation Report - Summit National Superfund Site - January 11,1988

Eagon & Associates; 2013 through 2017 - Annual Progress Reports - Summit National Superfund Site

Eagon & Associates; 2016 through 2017 - Groundwater Monitoring Reports - Summit National Superfund Site

Eagon & Associates; 2018 through 2022 - Groundwater Monitoring Reports - Summit National Superfund Site

Conestoga-Rovers& Associates; 1993 - Final Design Report - Summit National Superfund Site - May 27, 1993

Conestoga-Rovers & Associates; 2013 - Groundwater Monitoring Reports - Summit National Superfund Site

Conestoga-Rovers & Associates; 1994 through 2008 - Hydraulic Monitoring Reports - Summit National Superfund Site

Conestoga-Rovers & Associates; 1999 - Interim Evaluation of Remedial Action - Summit National Superfund Site - March 4, 1999

Conestoga-Rovers & Associates; 1995 – Extraction Well Shutdown & Hydraulic Monitoring Report – Summit National Superfund Site – May 23, 1995

Conestoga-Rovers & Associates; 1995 - Operation, Maintenance and Monitoring Plan - Summit National Superfund Site - November 3, 1995

Conestoga-Rovers & Associates; 1995 - Remedial Action Report - Summit National Superfund Site - October 31, 1995

Conestoga-Rovers & Associates; 2004 - October 2004 Groundwater Monitoring Report Summit National Superfund Site Deerfield Ohio- March 16, 2005

Conestoga-Rovers & Associates; 2005 - Work Plan for Groundwater Migration Evaluation Summit National Superfund Site Deerfield Ohio- June 10, 2005

Conestoga-Rovers & Associates; 2013 – Operation Maintenance and Monitoring Plan Summit National Superfund Site Deerfield Ohio- September 13, 2013

Ohio EPA; 1998 - Five Year Review Report - Summit National Superfund Site - October 21, 1998

Ohio EPA; 2003 - Second Five Year Review Report - Summit National Superfund Site - September 22, 2003

Ohio EPA; 1994 - Substantive Permit to Discharge- Summit National Superfund Site - May 18, 1994

Ohio EPA; 2020 – Letter to SNFT, Comments on 2019 Five-Year Groundwater Monitoring Report Summit National Superfund Site – July 1, 2020

Summit National Facility Trust; 1994 through 2008 - Monthly Effluent Reports for the Groundwater Treatment Plant - Summit National Superfund Site

United States Environmental Protection Agency; 2001 - Comprehensive Five-Year Review Guidance, June 2001 - Office of Solid Waste and Emergency Response (OSWER) Directive 9355.7-03B-P

United States Environmental Protection Agency; 1988 - EPA Superfund Record of Decision: Summit National Superfund Site - June 30, 1988

United States Environmental Protection Agency; 1990 - EPA Superfund Record of Decision: Summit National Superfund Site - November 2, 1990

United States Environmental Protection Agency; 1992 - Explanation of Significant Differences Summit National Superfund Site - March 23, 1992

United States Environmental Protection Agency; 1995 - EPA Superfund Preliminary Closeout Report: Summit National Superfund Site - September 18, 1995

United States Environmental Protection Agency; 2013 - Fourth Five Year Review Report - Summit National Superfund Site - July 16, 2013

United States Environmental Protection Agency; 2018 - Fifth Five Year Review Report - Summit National Superfund Site - July 13, 2018

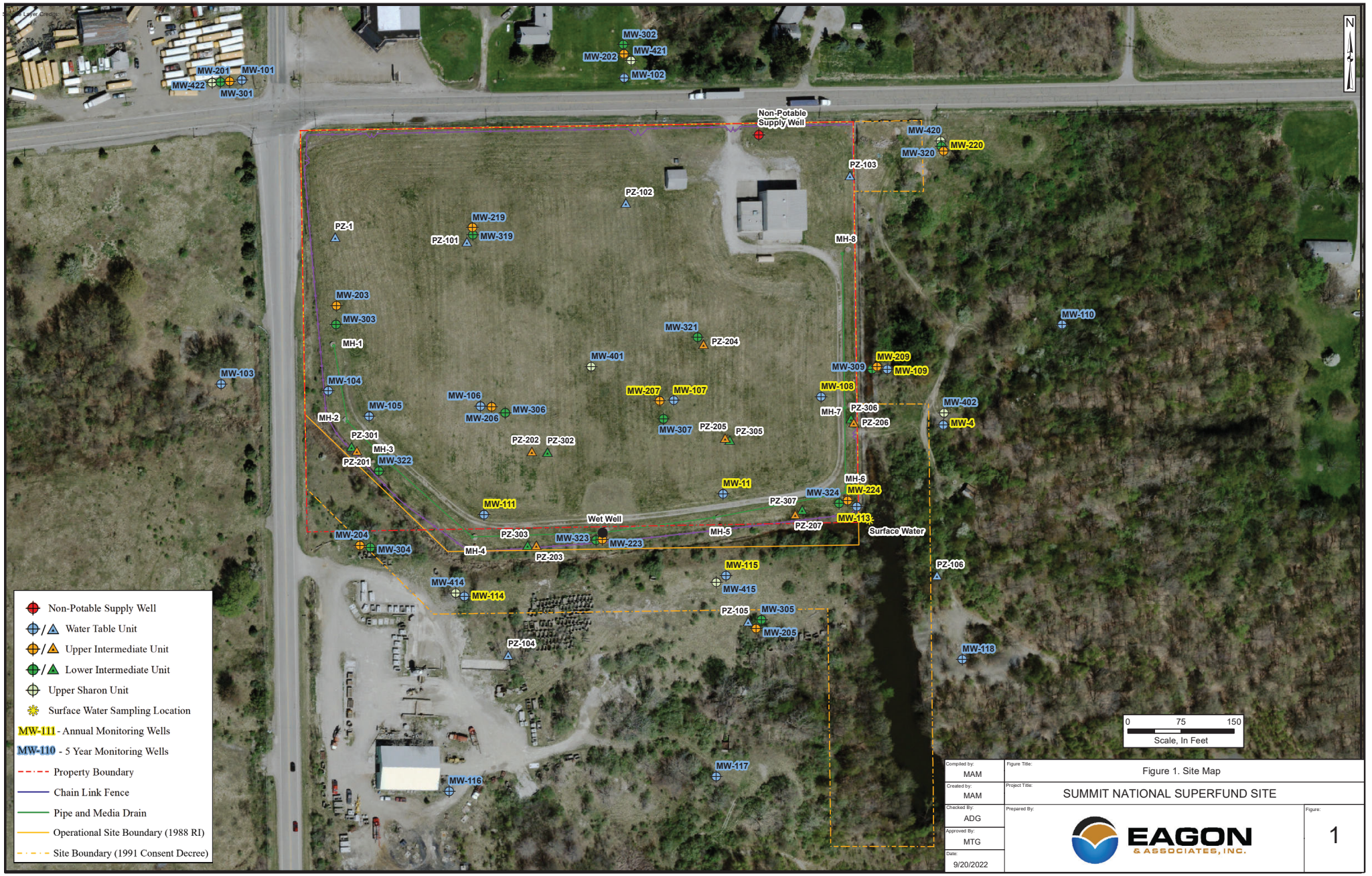
United States Environmental Protection Agency; 2020 – EPA Letter to Ohio EPA Regarding 2019 Five-Year Groundwater Monitoring Event Report - Summit National Superfund Site – May 1, 2020

Consent Decree (Civil Action number C81-1961) - Summit National Superfund Site - June 11, 1991

United States Environmental Protection Agency; 2022 - Site-Specific Justification for the Deletion of the Land/Soil Portion of the Summit National Superfund Site from the National Priorities List Deerfield Township, Portage County, Ohio - January 2022

# APPENDIX B

# SITE MAP & POTENTIOMETRIC SURFACE MAP




Compiled by: MAM
Created by: MAM
Checked By: ADG
Approved By: MTG
Date: 9/20/2022

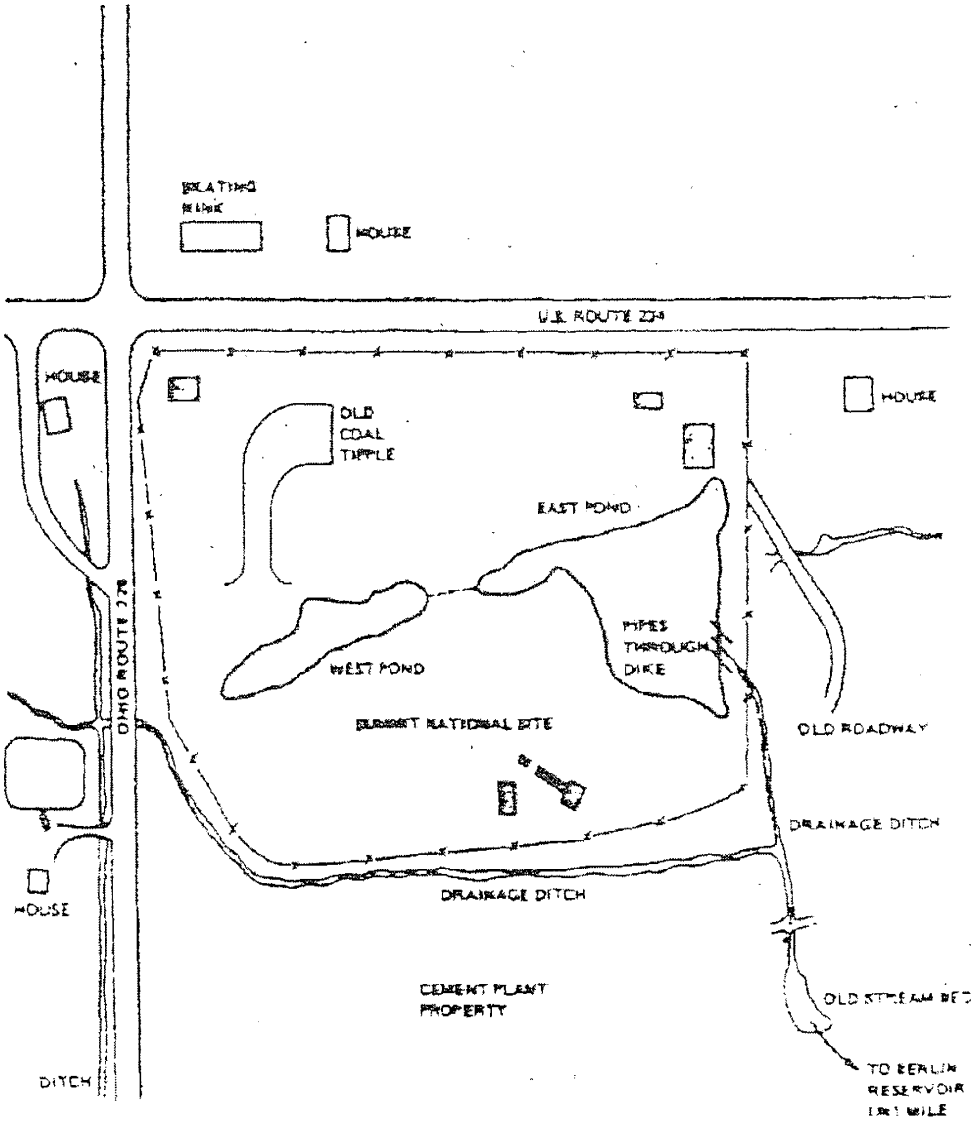
Figure Title: Figure 1. Site Map

Project Title: SUMMIT NATIONAL SUPERFUND SITE

Prepared By: EAGON & ASSOCIATES, INC.

Figure: 1

Document Path: F:\ARCGIS\Summit National\Summit\Figures\TableRecreate\SUMMIT NAT\Figures\Summit_Figures_1_SiteMap-REV3.mxd




LEGEND

ABANDONED STRUCTURES

0 200

100

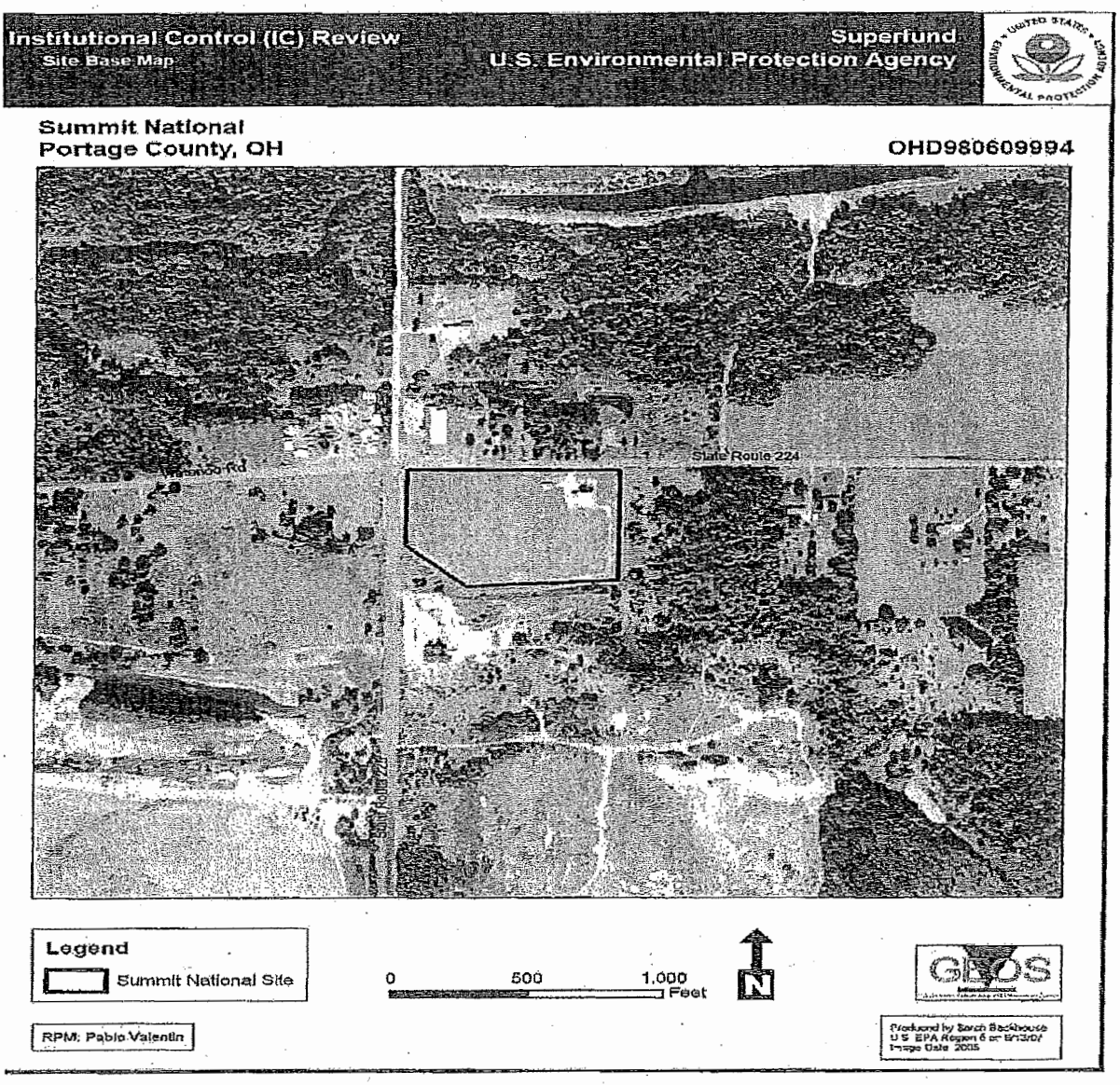
SCALE IN FEET

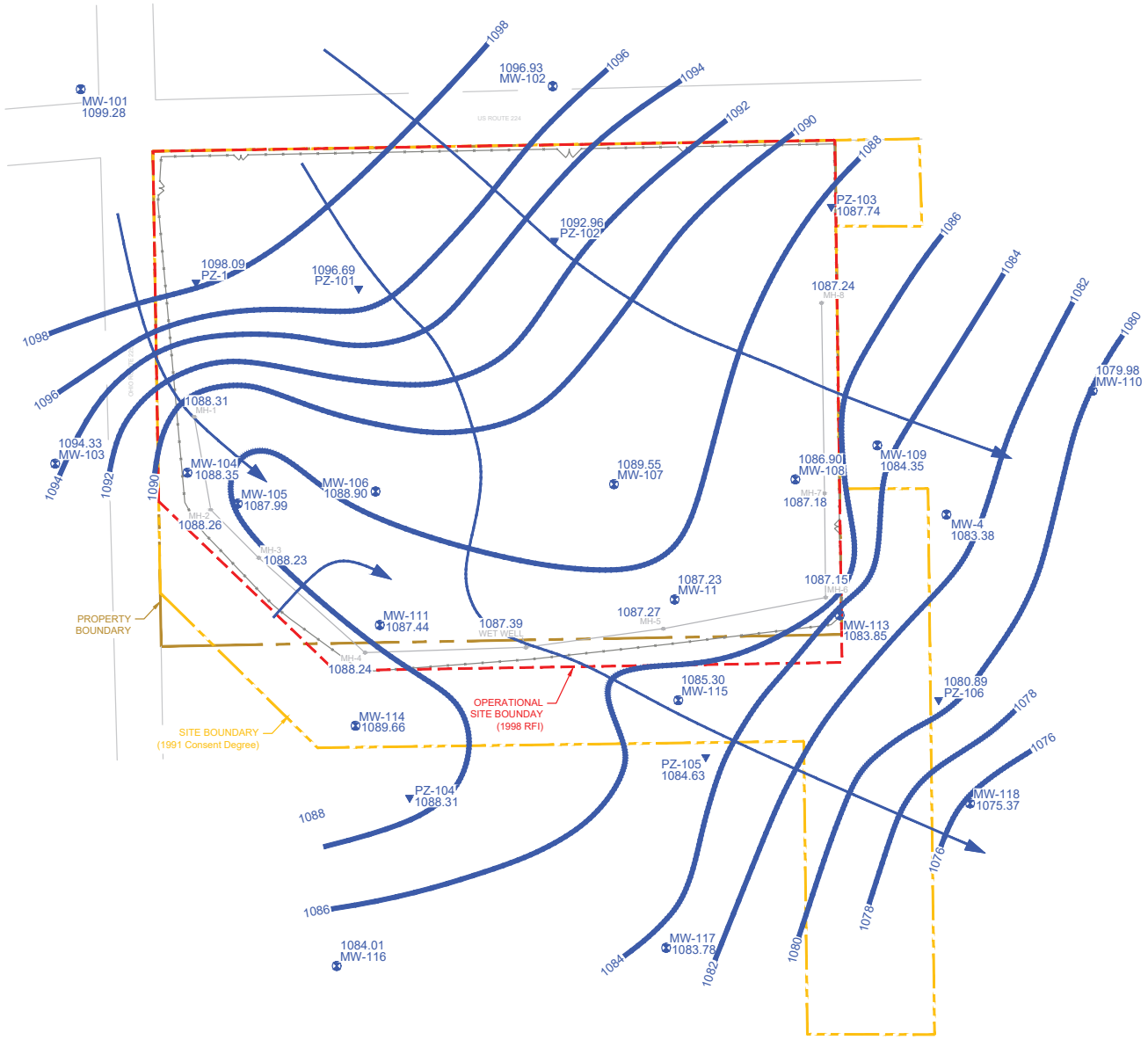
NOTE: ALL LOCATIONS OF STRUCTURES AND PHYSICAL FEATURES APPROXIMATE.

Figure 2
Site Map

## EXHIBIT B

**Portage County, Ohio, Auditor's Tax Map of the Site**






## LEGEND

- MONITORING WELL
- PIEZOMETER
- MEDIA DRAIN MANHOLES
- 1090 GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

SCALE IN FEET

0 125 250

| | |
|---|---|
| COMPILED BY: ADG | FIGURE TITLE: POTENTIOMETRIC SURFACE OF THE WATER TABLE UNIT, APRIL 12, 2022 |
| DRAFTED BY: MAM | PROJECT TITLE: SUMMIT NATIONAL SUPERFUND SITE |
| CHECKED BY: MTG | PREPARED BY: EAGON & ASSOCIATES, INC. |
| APPROVED BY: MTG | FIGURE NUMBER: 2 |
| DATE: 6/13/2022 | |

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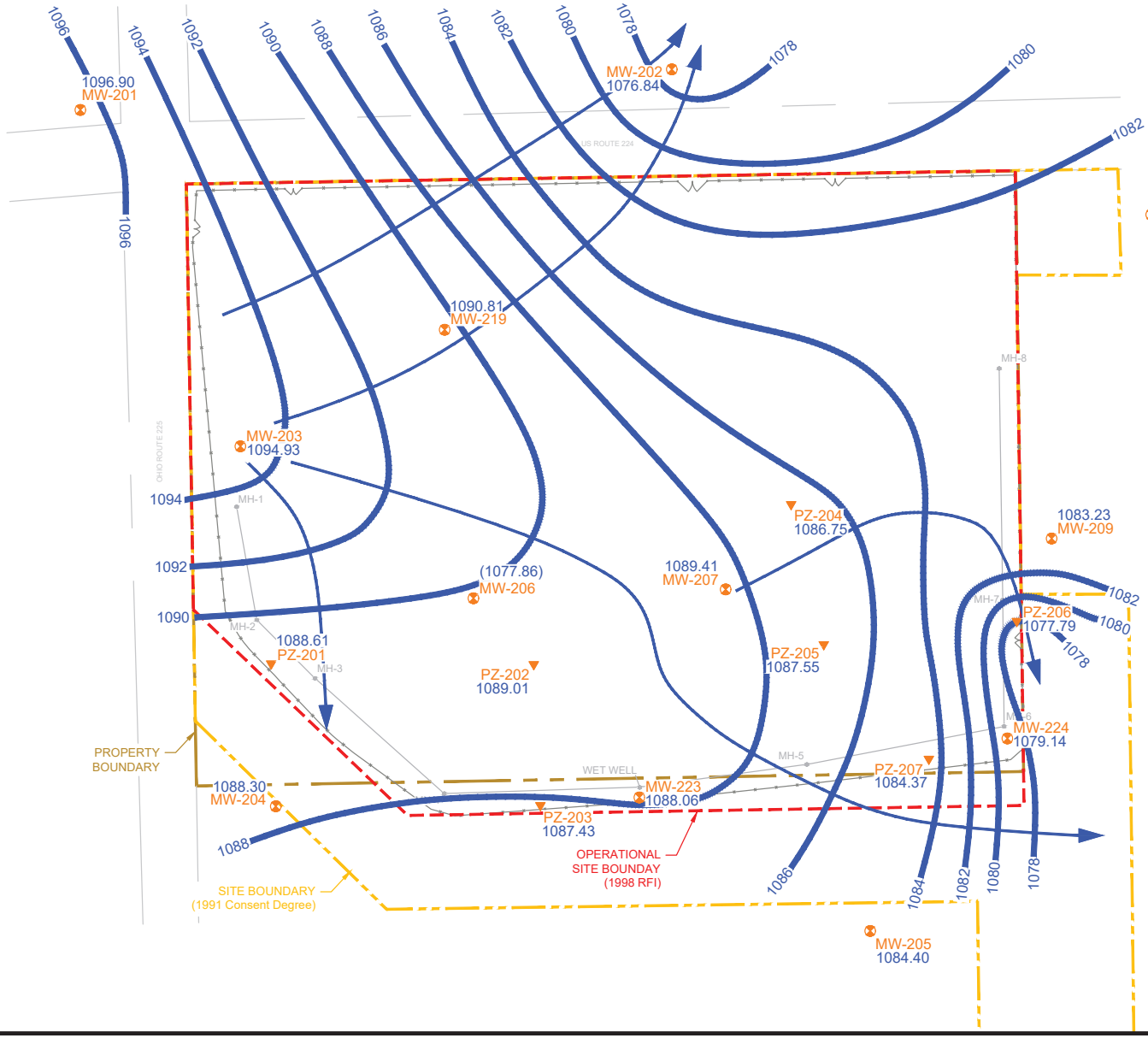


## LEGEND

- MONITORING WELL
- PIEZOMETER
- MEDIA DRAIN MANHOLES
- 1090 — GROUNDWATER ELEVATION CONTOUR
- (1077.10) — WATER LEVEL NOT USED FOR CONTOURING
- GROUNDWATER FLOW DIRECTION

SCALE IN FEET

0 100 200

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| COMPILED BY: ADG | FIGURE TITLE: POTENTIOMETRIC SURFACE OF THE UPPER INTERMEDIATE UNIT, APRIL 12, 2022 |
| DRAFTED BY: MAM | PROJECT TITLE: SUMMIT NATIONAL SUPERFUND SITE |
| CHECKED BY: MTG | PREPARED BY: EAGON & ASSOCIATES, INC. |
| APPROVED BY: MTG | FIGURE NUMBER: 3 |
| DATE: 6/13/2022 | |

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# APPENDIX C

# PUBLIC NOTICE OF FIVE-YEAR REVIEW

**Related Topics: Public Notices at U.S. EPA** <https://epa.gov/publicnotices>

CONTACT US <https://epa.gov/publicnotices/forms/contact-us-about-public-notices-us-epa>

# Public Notice: Summit National Site – Five Year-Review in Process

**Publish Date:** December 29, 2022

## Summary

### Sixth Five-Year Review in Process

U.S. Environmental Protection Agency is conducting a five-year review of the Summit National site at 1240 Alliance Rd. in Deerfield Township, Ohio. The Superfund law requires regular checkups of sites that have been cleaned up – with waste managed on-site – to make sure the cleanup continues to protect people and the environment. This is the sixth five-year review of this site.

EPA's cleanup of the site involved removing over 17,000 drums and tanks from the site for off -site disposal and excavating 18,600 tons of contaminated soil for on-site thermal treatment. The treated soil was tested, retreated if needed, backfilled onto the site, covered by a 2-foot soil cover, and then revegetated. On August 17, 2022, EPA removed the land/soil portion of the site from the National Priorities List (NPL) after determining that the soil cleanup was complete. The groundwater portion of the site is undergoing a long-term cleanup and remains on the NPL along with the surface water and sediments that shallow groundwater may discharge to. Operation and maintenance, land and groundwater use restrictions, and groundwater monitoring continue.

More information is available online at the Summit National site webpage. The review is expected to be completed by the end of July 2023.

### How to Comment

**Comments Due:** March 29, 2023

The five-year review is an opportunity for you to tell EPA about site conditions and any concerns you have. Contact:

Adrian Palomeque
<https://epa.gov/palomeque.adrian%40epa.gov>
(palomeque.adrian@epa.gov)
Community Involvement Coordinator
312-353-2035

Mitchell Latta
<https://epa.gov/latta.mitchell%40epa.gov>
(latta.mitchell@epa.gov)
Remedial Project Manager
312-886-4783

You may also call EPA toll-free at 800-621-8431, 9 a.m. to 5:30 p.m., weekdays.

## Applicants or Respondents

United States

Contact Us <https://epa.gov/publicnotices/forms/contact-us-about-public-notices-us-epa> to ask a question, provide feedback, or report a problem.

LAST UPDATED ON DECEMBER 29, 2022

**Contracting**
<https://epa.gov/contracts>

**EPA www Web Snapshot**
<https://epa.gov/utilities/wwwepagov-snapshots>

**Grants** <https://epa.gov/grants>

**No FEAR Act Data**
<https://epa.gov/ocr/whistleblower-protections-epa-and-how-they-relate-non-disclosure-agreements-signed-epa>

**Plain Writing**
<https://epa.gov/web-policies-and-procedures/plain-writing>

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## Follow.

# APPENDIX D

# SUMMARIZED WATER QUALITY DATA

# ANNUAL REPORTS 2018-2022

| Table 11a. WTU Wells - Summarized Water Quality Data 2018-2022 (2019 excluded) | | | | | | |
|---|---|---|---|---|---|---|
| **Well ID** | **Parameter** | **Apr-18** | **Apr-20** | **Apr-21** | **Apr-22** | **MCL (µg/L)** |
| MW-11 | 1,1,1-Trichloroethane | 15 | 13 | 15 | 19 | 200 |
| | 1,1-Dichloroethane | 70 | 65 | 71 | 80 | - |
| | 1,2-Dichloroethane | 1 | 1.1 | 0.90 J | 1.2 | 5 |
| | Benzene | 0.48 J | 0.29 J | 0.54 J | 0.59 J | 5 |
| | cis-1,2-Dichloroethene | 49 | 29 | 38 | 39 | 70 |
| | trans-1,2-Dichloroethene | 1.3 | 0.80 J | 1.5 | 1.4 | 100 |
| | Trichlroethene | 88 | 32 | 79 | 53 | 5 |
| | Vinyl Chloride | 6.6 | 3.4 | 5.5 | 7.1 | 2 |
| | Xylene (total) | ND (2.0) | ND (2.0) | ND (2.0) | ND (2.0) | 10,000 |
| MW-107 | 1,1,1-Trichloroethane | 9.4 | 6.6 J | 4.2 J | ND (10) | 200 |
| | 1,1-Dichloroethane | 1100 | 890 | 530 | 660 | - |
| | 1,2-Dichloroethane | - | 28 | 15 | 18 | 5 |
| | Benzene | 87 J | 93 | 94 | 97 | 5 |
| | cis-1,2-Dichloroethene | 15 | 5.8 J | 60 | ND (10) | 70 |
| | trans-1,2-Dichloroethene | 2.7 | ND (10) | ND (10) | ND (10) | 100 |
| | Trichlroethene | 1.6 | ND (10) | 1.4 J | ND (10) | 5 |
| | Vinyl Chloride | 21 | 8.1 J | ND (10) | ND (10) | 2 |
| | Xylene (total) | 820 | 4,300 | 4,800 | 3,900 | 10,000 |
| MW-108 | 1,1,1-Trichloroethane | 2.4 J | 2 | 1.9 | 1.8 | 200 |
| | 1,1-Dichloroethane | 270 | 280 | 310 | 320 | - |
| | 1,2-Dichloroethane | 49 | 46 | 43 | 42 | 5 |
| | Benzene | 110 | 110 | 120 | 130 | 5 |
| | cis-1,2-Dichloroethene | 200 | 210 | 200 | 230 | 70 |
| | trans-1,2-Dichloroethene | 4.7 | 5.7 | 6.3 | 6.1 | 100 |
| | Trichlroethene | 22 | 23 | 18 | 20 | 5 |
| | Vinyl Chloride | 85 | 86 | 99 | 82 | 2 |
| | Xylene (total) | ND (2.0) | 0.22 J | 0.64 J | 54 | 10,000 |
| MW-111 | 1,1,1-Trichloroethane | 1.1 J | 0.81 J | 0.87 J | 1.8 | 200 |
| | 1,1-Dichloroethane | 28 | 26 | 32 | 53 | - |
| | 1,2-Dichloroethane | 120 | 91 | 110 | 200 | 5 |
| | Benzene | ND (1.0) | 0.18 J | 0.20 J | ND (1.0) | 5 |
| | cis-1,2-Dichloroethene | 6.4 | 6.1 | 7.4 | 12 | 70 |
| | trans-1,2-Dichloroethene | ND (1.0) | ND (1.0) | 0.24 J | ND (1.0) | 100 |
| | Trichlroethene | ND (1.0) | 0.11 J | 0.15 J | ND (1.0) | 5 |
| | Vinyl Chloride | 7.6 | 7.3 | 11 | 24 | 2 |
| | Xylene (total) | ND (2.0) | 0.70 J | ND (2.0) | ND (2.0) | 10,000 |

All results in µg/L
ND(x) = Not Dectected (Detection Limit)
J = Estimated result less than practical quantitation limit and greater than method detection limit.

| Table 11b. WTU Offsite Wells - Summarized Water Quality Data 2018-2022 (2019 excluded) | | | | | | |
|---|---|---|---|---|---|---|
| **Well ID** | **Parameter** | **Apr-18** | **Apr-20** | **Apr-21** | **Apr-22** | **MCL (µg/L)** |
| MW-4 | Xylene (total) | 0.41 J | ND (2.0) | ND (2.0) | ND (2.0) | 10,000 |
| MW-114 | Xylene (total) | ND (2.0) | 0.25 J | ND (2.0) | ND (2.0) | 10,000 |
| MW-115 | 1,1,1-Trichloroethane | ND (1.0) | ND (1.0) | ND (1.0) | ND (1.0) | 200 |
| | 1,1-Dichloroethane | 0.43 J | 1.3 | 1.3 | 1.5 | - |
| | 1,2-Dichloroethane | ND (1.0) | 0.40 J | 0.34 J | 0.29 J | 5 |
| | Benzene | ND (1.0) | ND (1.0) | ND (1.0) | ND (1.0) | 5 |
| | cis-1,2-Dichloroethene | 0.72 J | 4.9 | 4.3 | 4.3 | 70 |
| | trans-1,2-Dichloroethene | ND (1.0) | ND (1.0) | ND (1.0) | ND (1.0) | 100 |
| | Trichlroethene | ND (1.0) | ND (1.0) | 0.10 J | ND (1.0) | 5 |
| | Vinyl Chloride | ND (1.0) | ND (1.0) | ND (1.0) | ND (1.0) | 2 |
| | Xylene (total) | ND (2.0) | 0.19 J | ND (2.0) | ND (2.0) | 10,000 |

All results in µg/L
ND(x) = Not Dectected (Detection Limit)
J = Estimated result less than practical quantitation limit and greater than method detection limit.

| Table 11c. UIU Wells - Summarized Water Quality Data 2018-2022 (2019 excluded) | | | | | | |
|---|---|---|---|---|---|---|
| **Well ID** | **Parameter** | **Apr-18** | **Apr-20** | **Apr-21** | **Apr-22** | **MCL** |
| MW-209 | Acetone | 4.4 J | 6.9 J | ND (10) | ND (10) | - |
| | Toulene | 0.31 J | 0.19 J | 0.43 J | ND (1.0) | - |
| | Xylene (total) | 0.26 J | 0.18 J | 0.62 J | ND (2.0) | 10,000 |

All results in µg/L
ND(x) = Not Dectected (Detection Limit)
J = Estimated result less than practical quantitation limit and greater than method detection limit.
Wells MW-207, MW-224, MW-220, excluded due to non-detect or insignificant J-values.

**TABLE 1.**
**SUMMARY OF WATER-LEVEL & TOTAL WELL DEPTH MEASUREMENTS**
**APRIL 8, 2019**
**SUMMIT NATIONAL SUPERFUND SITE**

| Well Number | Measuring Point Elevation (ft., MSL) | Time (24:00) | Depth to Water (feet) | Water Level Elevation (ft., MSL) | Total Well Depth (ft., TOC) | Comments |
|---|---|---|---|---|---|---|
| **Water Table Unit (WTU) Monitoring Wells and Piezometers** | | | | | | |
| MW-4 | 1091.09 | 1315 | 5.68 | 1085.41 | 24.65 | |
| MW-11 | 1095.93 | 1035 | 8.81 | 1087.12 | 26.50 | |
| MW-101 | 1107.57 | 1500 | 8.04 | 1099.53 | 24.32 | |
| MW-102 | 1100.17 | 1422 | 3.53 | 1096.64 | 21.15 | |
| MW-103 | 1096.22 | 1410 | 2.02 | 1094.2 | 19.96 | |
| MW-104 | 1099.81 | 1123 | 11.75 | 1088.06 | 30.02 | |
| MW-105 | 1101.32 | 1120 | 13.53 | 1087.79 | 29.14 | |
| MW-106 | 1102.88 | 1312 | 14.39 | 1088.49 | 35.07 | |
| MW-107 | 1098.27 | 1345 | 10.22 | 1088.05 | 30.83 | |
| MW-108 | 1091.96 | 1411 | 5.11 | 1086.85 | 18.38 | |
| MW-109 | 1087.42 | 1328 | 2.9 | 1084.52 | 10.71 | |
| MW-110 | 1086.87 | 1243 | 5.5 | 1081.37 | 15.29 | |
| MW-111 | 1099.67 | 1101 | 12.43 | 1087.24 | 29.20 | |
| MW-113 | 1088.46 | 1018 | 4.65 | 1083.81 | 16.53 | |
| MW-114 | 1097.27 | 1500 | 7.89 | 1089.38 | 21.66 | |
| MW-115 | 1101.83 | 1423 | 16.59 | 1085.24 | 40.81 | |
| MW-116 | 1105.54 | 1452 | 21.57 | 1083.97 | 26.53 | |
| MW-117 | 1123.97 | 1446 | 40.13 | 1083.84 | 60.86 | |
| MW-118 | 1098.38 | 1350 | 22.61 | 1075.77 | 37.25 | |
| PZ-1 | 1104.43 | 1150 | 6.77 | 1097.66 | 18.65 | |
| PZ-101 | 1108.53 | 1107 | 12.1 | 1096.43 | 32.83 | |
| PZ-102 | 1100.21 | 1327 | 7.6 | 1092.61 | 27.13 | |
| PZ-103 | 1093.98 | 938 | 6.41 | 1087.57 | 19.72 | |
| PZ-104 | 1097.54 | 1506 | 9.22 | 1088.32 | 25.72 | |
| PZ-105 | 1101.60 | 1434 | 16.81 | 1084.79 | 41.11 | |
| PZ-106 | 1102.23 | 1346 | 21.37 | 1080.86 | 34.18 | |

**TABLE 1.**
**SUMMARY OF WATER-LEVEL & TOTAL WELL DEPTH MEASUREMENTS**
**APRIL 8, 2019**
**SUMMIT NATIONAL SUPERFUND SITE**

| Well Number | Measuring Point Elevation (ft., MSL) | Time (24:00) | Depth to Water (feet) | Water Level Elevation (ft., MSL) | Total Well Depth (ft., TOC) | Comments |
|---|---|---|---|---|---|---|
| **Water Table Unit Media Drain Manholes** | | | | | | |
| MH-1 | 1102.78 | 1251 | 14.7 | 1088.08 | -- | |
| MH-2 | 1101.04 | 1249 | 13 | 1088.04 | -- | |
| MH-3 | 1100.95 | 1245 | 12.94 | 1088.01 | -- | |
| MH-4 | 1100.05 | 1245 | 12.02 | 1088.03 | -- | |
| MH-5 | 1095.68 | 1236 | 8.52 | 1087.16 | -- | |
| MH-6 | 1088.64 | 1003 | 1.6 | 1087.04 | -- | |
| MH-7 | 1089.29 | 948 | 2.14 | 1087.15 | -- | |
| MH-8 | 1089.23 | 935 | 2.15 | 1087.08 | -- | |
| Wet Well | 1098.86 | 1241 | 11.66 | 1087.20 | -- | |
| **Upper Intermediate Unit (UIU) Monitoring Wells and Piezometers** | | | | | | |
| MW-201 | 1107.52 | 1456 | 11.4 | 1096.12 | 63.29 | |
| MW-202 | 1099.50 | 1432 | 23.35 | 1076.15 | 50.10 | |
| MW-203 | 1103.35 | 1144 | 8.92 | 1094.43 | 54.08 | |
| MW-204 | 1098.01 | 1508 | 10.33 | 1087.68 | 46.52 | |
| MW-205 | 1100.90 | 1440 | 16.39 | 1084.51 | 53.21 | |
| MW-206 | 1103.22 | 1308 | 26.1 | 1077.12 | 63.57 | |
| MW-207 | 1098.51 | 1341 | 9.55 | 1088.96 | 49.63 | |
| MW-209 | 1087.66 | 1331 | 4.63 | 1083.03 | 37.76 | |
| MW-219 | 1108.24 | 1203 | 18.29 | 1089.95 | 62.89 | |
| MW-220 | 1090.92 | 1255 | 7.78 | 1083.14 | 38.75 | |
| MW-223 | 1098.37 | 1047 | 10.4 | 1087.97 | 45.55 | |
| MW-224 | 1089.41 | 1005 | 10.51 | 1078.90 | 36.03 | |
| PZ-201 | 1099.74 | 1110 | 11.33 | 1088.41 | 47.03 | |
| PZ-202 | 1101.56 | 1258 | 12.98 | 1088.58 | 54.98 | |
| PZ-203 | 1098.31 | 1052 | 10.98 | 1087.33 | 10.65 | |
| PZ-204 | 1095.41 | 1337 | 9.35 | 1086.06 | 50.04 | |
| PZ-205 | 1096.63 | 1357 | 9.25 | 1087.38 | 42.65 | |
| PZ-206 | 1088.05 | 956 | 10.49 | 1077.56 | 39.12 | |
| PZ-207 | 1091.36 | 1027 | 7.02 | 1084.34 | 38.95 | |

**TABLE 1.**
**SUMMARY OF WATER-LEVEL & TOTAL WELL DEPTH MEASUREMENTS**
**APRIL 8, 2019**
**SUMMIT NATIONAL SUPERFUND SITE**

| Well Number | Measuring Point Elevation (ft., MSL) | Time (24:00) | Depth to Water (feet) | Water Level Elevation (ft., MSL) | Total Well Depth (ft., TOC) | Comments |
|---|---|---|---|---|---|---|
| **Lower Intermediate Unit (LIU) Monitoring Wells and Piezometers** | | | | | | |
| MW-301 | 1107.91 | 1452 | 27.6 | 1080.31 | 81.09 | |
| MW-302 | 1100.39 | 1438 | 24.6 | 1075.79 | 78.20 | |
| MW-303 | 1103.15 | 1139 | 25.63 | 1077.52 | 69.28 | |
| MW-304 | 1097.73 | 1517 | 14.5 | 1083.23 | 72.38 | |
| MW-305 | 1101.22 | 1436 | 24.71 | 1076.51 | 67.94 | |
| MW-306 | 1103.14 | 1303 | 27.25 | 1075.89 | 93.00 | |
| MW-307 | 1098.83 | 1350 | 22.95 | 1075.88 | 74.23 | |
| MW-309 | 1087.81 | 1333 | 12.07 | 1075.74 | 60.21 | |
| MW-319 | 1108.07 | 1156 | 18.13 | 1089.94 | 76.15 | |
| MW-320 | 1091.14 | 1255 | 18.3 | 1072.84 | 100.98 | |
| MW-321 | 1095.32 | 1333 | 19.46 | 1075.86 | 69.26 | |
| MW-322 | 1098.88 | 1105 | 14.5 | 1084.38 | 70.78 | |
| MW-323 | 1097.51 | 1042 | 21.5 | 1076.01 | 84.25 | |
| MW-324 | 1089.39 | 1012 | 15.31 | 1074.08 | 89.08 | |
| PZ-301 | 1100.07 | 1115 | 18.3 | 1081.77 | 69.43 | |
| PZ-302 | 1101.25 | 1254 | 25.56 | 1075.69 | 72.70 | |
| PZ-303 | 1098.39 | 1057 | 22.5 | 1075.89 | 81.84 | |
| PZ-305 | 1096.49 | 1404 | 20.8 | 1075.69 | 59.62 | |
| PZ-306 | 1088.35 | 950 | 12.19 | 1076.16 | 99.73 | |
| PZ-307 | 1091.40 | 1023 | 12.08 | 1079.32 | 71.66 | |
| **Upper Sharon Unit (USU) Monitoring Wells and Piezometers** | | | | | | |
| MW-401 | 1099.75 | 1320 | 29.86 | 1069.89 | 141.91 | |
| MW-402 | 1089.90 | 1312 | 26.05 | 1063.85 | 131.5 | |
| MW-414 | 1096.99 | 1503 | 22.36 | 1074.63 | 103.5 | |
| MW-415 | 1102.25 | 1419 | 27.11 | 1075.14 | 89.3 | |
| MW-420 | 1091.66 | 1258 | 23.53 | 1068.13 | 131.35 | |
| MW-421 | 1099.93 | 1427 | 26.89 | 1073.04 | 104.08 | |
| MW-422 | 1107.38 | 1448 | 26.21 | 1081.17 | 111.4 | |
| Non-Pot. Well | 1099.34 | 1541 | 108.11 | 991.23 | -- | Pump Running |

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**GROUNDWATER MONITORING WELLS**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | MW-4 4/10/2019 Result | Dup #3 4/10/2019 Result | MW-11 4/12/2019 Result | MW-101 (bg) 4/10/2019 Result | Dup #1 4/10/2019 Result | MW-102 (bg) 4/9/2019 Result | MW-103 (bg) 4/11/2019 Result | MW-104 4/11/2019 Result | MW-105 4/10/2019 Result | Dup #4 4/10/2019 Result | MW-106 4/11/2019 Result | MW-107 4/12/2019 Result | MW-108 4/12/2019 Result | MW-109 4/11/2019 Result | MW-110 4/12/2019 Result | MW-111 4/12/2019 Result | MW-113 4/9/2019 Result | MW-114 4/11/2019 Result | MW-115 4/10/2019 Result | MW-116 4/10/2019 Result | MW-117 4/10/2019 Result | Dup #2 4/10/2019 Result | MW-118 4/11/2019 Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | J 73 | < 200 | < 200 | < 200 | < 200 | 610 | J 85 | < 200 | 280 | 270 | < 200 | < 200 | < 200 | < 200 | < 200 | J 150 | 550 | 200 | J 100 | J 64 | < 200 | < 200 | 250 |
| Antimony | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 |
| Arsenic (c) | < 15 | < 15 | < 15 | J 5.2 | J 6.4 | < 15 | 30 | < 15 | J 13 | J 11 | < 15 | 44 | 22 | < 15 | < 15 | J 12 | J 7.9 | 38 | < 15 | < 15 | < 15 | < 15 | < 15 |
| Barium | J 18 | J 13 | J 10 | J 6.9 | J 6.8 | J 8.3 | J 9.6 | J 41 | J 20 | J 21 | J 5.4 | 420 | J 45 | J 8.3 | J 40 | J 8.6 | J 15 | J 13 | J 9.7 | J 7 | J 5.6 | J 6 | J 12 |
| Beryllium | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | J 1 | J 1.1 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 |
| Cadmium | J 0.67 | J 0.5 | J 0.23 | J 0.6 | J 0.67 | J 0.83 | < 5 | < 5 | < 5 | < 5 | J 0.24 | < 5 | < 5 | J 0.32 | < 5 | J 0.2 | J 0.81 | < 5 | J 0.4 | J 0.8 | J 0.51 | J 0.59 | < 5 |
| Calcium | 360000 | 330000 | 300000 | 270000 | 270000 | 220000 | 270000 | 190000 | 280000 | 290000 | 350000 | 170000 | 170000 | 430000 | 100000 | 450000 | 520000 | 400000 | 270000 | 490000 | 420000 | 440000 | 270000 |
| Chromium | J 0.71 | < 10 | J 1.2 | J 6.3 | J 2.7 | J 2.2 | J 2.1 | J 1.8 | J 9.5 | J 9.1 | J 3 | 12 | J 3.5 | J 1.5 | 5.6 | J 3.4 | J 2.9 | J 2.7 | 39 | J 7.6 | J 7.6 | 12 | 27 |
| Cobalt | 28 | 14 | J 2.5 | 43 | 44 | 26 | < 10 | < 10 | J 6.8 | J 7.2 | J 0.88 | J 2 | J 2.4 | 55 | < 10 | J 3 | J 2.1 | 15 | < 10 | < 10 | J 1.9 | J 2.3 | J 4 |
| Copper | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | J 7.3 | < 25 | < 25 | J 3.5 | < 25 | J 3.5 | < 25 | J 3.8 | J 4.6 | < 25 | < 25 | < 25 | J 4.8 |
| Iron (c) | 4400 | 2800 | 3400 | 25000 | 26000 | 89000 | 8500 | 15000 | 23000 | 23000 | 5500 | 460 | 35000 | 1100 | 260 | 140000 | 1800 | 61000 | 5800 | J 230 | 5200 | 6000 | 5500 |
| Lead (c) | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Magnesium | 200000 | 180000 | 68000 | 130000 | 130000 | 110000 | 67000 | 44000 | 95000 | 100000 | 130000 | 85000 | 49000 | 200000 | 25000 | 130000 | 230000 | 24000 | 55000 | 600000 | 110000 | 120000 | 91000 |
| Manganese | 2700 | 1400 | 2100 | 5200 | 5300 | 1500 | 1600 | 1400 | 4400 | 4700 | 890 | 410 | 1300 | 5400 | 110 | 3200 | 6000 | 1300 | 360 | 420 | 3900 | 4100 | 4700 |
| Nickel | J 8.2 | J 5.4 | J 4.3 | 85 | 82 | 59 | J 4 | J 4.7 | J 28 | J 29 | J 11 | J 9.9 | J 5.8 | 120 | J 5.1 | J 12 | J 18 | J 25 | J 31 | J 7.5 | J 37 | 43 | J 26 |
| Potassium | 6100 | 5600 | 5100 | 6000 | 6100 | 5700 | J 2800 | J 3800 | 8800 | 9300 | 11000 | 7500 | J 4400 | J 2400 | J 1400 | 8900 | 6700 | 23000 | 5500 | 15000 | 13000 | 13000 | 6200 |
| Selenium | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 |
| Silver | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Sodium | 17000 | 15000 | 40000 | 33000 | 33000 | 33000 | 33000 | 590000 | 180000 | 180000 | 47000 | 130000 | 70000 | 9800 | J 3800 | 80000 | 160000 | 66000 | 65000 | 230000 | 45000 | 47000 | 69000 |
| Thallium | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | J 2.9 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 |
| Vanadium | J 5.9 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 |
| Zinc | < 50 | < 50 | J 16 | 140 | 140 | 190 | < 50 | < 50 | J 48 | 51 | < 50 | < 50 | < 50 | J 44 | < 50 | < 50 | < 50 | 100 | < 50 | < 50 | J 20 | J 22 | < 50 |
| Mercury | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| 1,1,1-Trichloroethane | < 1 | < 1 | 11 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | J 0.89 | J 3.2 | 2.3 | < 1 | < 1 | J 0.8 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1,2,2-Tetrachloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1,2-Trichloroethane (c) | < 1 | < 1 | J 0.2 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | J 3.4 | J 0.37 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1-Dichloroethane (c) | < 1 | < 1 | 56 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | 1.1 | 690 | 330 | < 1 | < 1 | 28 | < 1 | < 1 | 1.4 | < 1 | < 1 | < 1 | < 1 |
| 1,1-Dichloroethene (c) | < 1 | < 1 | J 0.73 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | 3.2 | < 1 | < 1 | J 0.4 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,2-Dichloroethene (c) | < 1 | < 1 | J 0.9 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | J 0.69 | 17 | 44 | < 1 | < 1 | 88 | < 1 | < 1 | J 0.37 | < 1 | < 1 | < 1 | 2.2 |
| 1,2-Dichloroethene [total] | < 2 | < 2 | 30 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 20 | 250 | < 2 | < 2 | 6.4 | < 2 | < 2 | 5.7 | < 2 | < 2 | < 2 | < 2 |
| 1,2-Dichloropropane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 2-Butanone [Methyl ethyl ketone] [MEK] | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 100 | < 13 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| 2-Hexanone | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 100 | < 13 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| 4-Methyl-2-pentanone [Methyl isobutyl ketone] [MIBK] | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 100 | < 13 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Acetone (c) | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 100 | < 13 | < 10 | < 10 | < 10 | J 6.5 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Benzene (c) | < 1 | < 1 | J 0.25 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | 89 | 140 | < 1 | < 1 | J 0.18 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Bromodichloromethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Bromoform (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Bromomethane [Methyl bromide] | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Carbon disulfide | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Carbon tetrachloride (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chlorobenzene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | J 0.29 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chloroethane | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | 390 | < 1.3 | < 1 | < 1 | 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |

*All results in ug/L*
*c = potential carcinogen*
*bg = background well*
*J = estimated value between MDL and PQL*

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**GROUNDWATER MONITORING WELLS**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | MW-4 4/10/2019 Result | Dup #3 4/10/2019 Result | MW-11 4/12/2019 Result | MW-101 (bg) 4/10/2019 Result | Dup #1 4/10/2019 Result | MW-102 (bg) 4/9/2019 Result | MW-103 (bg) 4/11/2019 Result | MW-104 4/11/2019 Result | MW-105 4/10/2019 Result | Dup #4 4/10/2019 Result | MW-106 4/11/2019 Result | MW-107 4/12/2019 Result | MW-108 4/12/2019 Result | MW-109 4/11/2019 Result | MW-110 4/12/2019 Result | MW-111 4/12/2019 Result | MW-113 4/9/2019 Result | MW-114 4/11/2019 Result | MW-115 4/10/2019 Result | MW-116 4/10/2019 Result | MW-117 4/10/2019 Result | Dup #2 4/10/2019 Result | MW-118 4/11/2019 Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloroform [Trichloromethane] (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chloromethane [Methyl chloride] | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| cis-1,2-Dichloroethene | < 1 | < 1 | 29 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | 240 | < 1 | < 1 | 6.2 | < 1 | < 1 | 5.7 | < 1 | < 1 | < 1 | < 1 |
| cis-1,3-Dichloropropene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Dibromochloromethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Ethylbenzene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | 940 | J 0.37 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Methylene chloride (c) | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 50 | < 6.3 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 |
| Styrene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Tetrachloroethene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Toluene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | 3000 | J 0.81 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| trans-1,2-Dichloroethene | < 1 | < 1 | J 0.8 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | J 6.3 | < 1 | < 1 | J 0.2 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| trans-1,3-Dichloropropene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Trichloroethene (c) | < 1 | < 1 | 31 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | 23 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Vinyl chloride (c) | < 1 | < 1 | 3.2 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | 98 | < 1 | < 1 | 8.9 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Xylenes [total] (c) | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | 3300 | J 0.64 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 1,2-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | 1.3 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Acenaphthylene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Anthracene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[a]anthracene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[a]pyrene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[b]fluoranthene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[g,h,i]perylene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[k]fluoranthene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| bis[2-Chloroethoxy]methane | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| bis[2-Chloroethyl]ether (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| bis[2-Ethylhexyl]phthalate [DEHP] (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| Butyl benzylphthalate [BBP] (c) | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Carbazole | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Chrysene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Dibenz[a,h]anthracene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Dibenzofuran | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Diethyl phthalate | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | J 3.4 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| Dimethyl phthalate | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Di-n-butylphthalate [DBP] | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| Di-n-octyl phthalate [DnOP] | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Hexachlorobutadiene (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Indeno[1,2,3-cd]pyrene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Isophorone (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | 2.8 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,2,4-Trichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,3-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,4-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2,2`-Oxybis[1-chloropropane] [bis[2-Chloroisopropyl] ether] (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2,4,5-Trichlorophenol | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,4,6-Trichlorophenol (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,4-Dichlorophenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |

*All results in ug/L*
*c = potential carcinogen*
*bg = background well*
*J = estimated value between MDL and PQL*

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**GROUNDWATER MONITORING WELLS**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | MW-4 4/10/2019 Result | Dup #3 4/10/2019 Result | MW-11 4/12/2019 Result | MW-101 (bg) 4/10/2019 Result | Dup #1 4/10/2019 Result | MW-102 (bg) 4/9/2019 Result | MW-103 (bg) 4/11/2019 Result | MW-104 4/11/2019 Result | MW-105 4/10/2019 Result | Dup #4 4/10/2019 Result | MW-106 4/11/2019 Result | MW-107 4/12/2019 Result | MW-108 4/12/2019 Result | MW-109 4/11/2019 Result | MW-110 4/12/2019 Result | MW-111 4/12/2019 Result | MW-113 4/9/2019 Result | MW-114 4/11/2019 Result | MW-115 4/10/2019 Result | MW-116 4/10/2019 Result | MW-117 4/10/2019 Result | Dup #2 4/10/2019 Result | MW-118 4/11/2019 Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | 15 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 2,4-Dinitrophenol | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| 2,4-Dinitrotoluene (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,6-Dinitrotoluene (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2-Chloronaphthalene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Chlorophenol | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Methylnaphthalene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | 1.6 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| 2-Methylphenol | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | 15 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 2-Nitrophenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 3&4-Methylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | 6.4 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 3,3`-Dichlorobenzidine (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 3-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4,6-Dinitro-2-methylphenol | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 4-Bromophenyl phenyl ether | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chloro-3-methylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | 8.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chloroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chlorophenyl phenyl ether | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Nitrophenol | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Acenaphthene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Fluoranthene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Fluorene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Hexachlorobenzene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Hexachlorocyclopentadiene | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Hexachloroethane (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Naphthalene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | 7.7 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Nitrobenzene (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| N-Nitrosodi-n-propylamine (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| N-Nitrosodiphenylamine (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Pentachlorophenol (c) | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Phenanthrene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Phenol (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | 1.1 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Pyrene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Cyanide | < 0.01 | < 0.01 | 0.012 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | J 0.0069 | J 0.0076 | < 0.01 | J 0.0066 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |

*All results in ug/L*
*c = potential carcinogen*
*bg = background well*
*J = estimated value between MDL and PQL*

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**GROUNDWATER MONITORING WELLS**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | MW-201 (bg) 4/10/2019 Result | MW-202 4/9/2019 Result | MW-203 4/11/2019 Result | MW-204 (bg) 4/9/2019 Result | MW-205 (bg) 4/11/2019 Result | MW-206 4/11/2019 Result | MW-207 4/12/2019 Result | MW-209 4/11/2019 Result | MW-219 4/11/2019 Result | MW-220 4/11/2019 Result | MW-223 4/10/2019 Result | MW-224 4/9/2019 Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | < 200 | 310 | J 150 | < 200 | < 200 | 2000 | J 54 | < 200 | < 200 | J 57 | < 200 | < 200 |
| Antimony | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 |
| Arsenic (c) | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 |
| Barium | J 14 | J 190 | J 15 | J 8.7 | J 3 | J 29 | J 5.7 | J 12 | J 14 | J 18 | J 13 | J 7.6 |
| Beryllium | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 |
| Cadmium | J 0.43 | < 5 | < 5 | J 0.66 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | J 0.53 | J 0.43 |
| Calcium | 90000 | 10000 | 8000 | 260000 | 170000 | 22000 | 310000 | 270000 | 6800 | 310000 | 390000 | 200000 |
| Chromium | J 2.9 | 13 | J 9.3 | J 1.7 | 18 | J 8.5 | J 2.6 | J 2.5 | J 4.5 | J 2.8 | J 1.2 | < 10 |
| Cobalt | < 10 | < 10 | < 10 | < 10 | J 1.9 | J 1 | < 10 | J 2.4 | < 10 | < 10 | J 7 | < 10 |
| Copper | < 25 | < 25 | < 25 | < 25 | < 25 | J 3.7 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 |
| Iron (c) | J 1500 | 880 | 350 | 2700 | 7800 | 2600 | 2500 | 920 | 190 | J 60 | 110000 | 1800 |
| Lead (c) | < 10 | < 10 | J 5.5 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Magnesium | 41000 | 6000 | J 4300 | 110000 | 110000 | 8500 | 160000 | 130000 | J 2900 | 81000 | 130000 | 81000 |
| Manganese | 71 | 16 | J 8.2 | 190 | 730 | 100 | 100 | 2900 | 22 | 59 | 6300 | 480 |
| Nickel | J 3.6 | J 11 | J 6.7 | J 2.3 | J 15 | 7.7 | J 2.5 | J 5.2 | J 3.8 | J 4.7 | J 17 | J 2.3 |
| Potassium | 9300 | 6300 | 5000 | 15000 | 12000 | 6700 | 18000 | 15000 | J 4200 | 17000 | 16000 | 15000 |
| Selenium | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 |
| Silver | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Sodium | 880000 | 570000 | 730000 | 440000 | 110000 | 630000 | 190000 | 180000 | 570000 | 380000 | 180000 | 490000 |
| Thallium | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | J 2.7 | < 20 | < 20 |
| Vanadium | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 |
| Zinc | < 50 | < 50 | < 50 | < 50 | < 50 | J 12 | < 50 | < 50 | < 50 | < 50 | < 50 | J 13 |
| Mercury | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| 1,1,1-Trichloroethane | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1,2,2-Tetrachloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1,2-Trichloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1-Dichloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | 1.7 | < 1 |
| 1,1-Dichloroethene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,2-Dichloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | 3 | < 1 |
| 1,2-Dichloroethene [total] | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | J 1.7 | < 2 |
| 1,2-Dichloropropane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 2-Butanone [Methyl ethyl ketone] [MEK] | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| 2-Hexanone | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| 4-Methyl-2-pentanone [Methyl isobutyl ketone] [MIBK] | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Acetone (c) | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | J 6.5 | < 10 |
| Benzene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Bromodichloromethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Bromoform (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Bromomethane [Methyl bromide] | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Carbon disulfide | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Carbon tetrachloride (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chlorobenzene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chloroethane | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |

*All results in ug/L*
*c = potential carcinogen*
*bg = background well*
*J = estimated value between MDL and PQL*

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**GROUNDWATER MONITORING WELLS**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | MW-201 (bg) 4/10/2019 Result | MW-202 4/9/2019 Result | MW-203 4/11/2019 Result | MW-204 (bg) 4/9/2019 Result | MW-205 (bg) 4/11/2019 Result | MW-206 4/11/2019 Result | MW-207 4/12/2019 Result | MW-209 4/11/2019 Result | MW-219 4/11/2019 Result | MW-220 4/11/2019 Result | MW-223 4/10/2019 Result | MW-224 4/9/2019 Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloroform [Trichloromethane] (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chloromethane [Methyl chloride] | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| cis-1,2-Dichloroethene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | 1.7 | < 1 |
| cis-1,3-Dichloropropene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Dibromochloromethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Ethylbenzene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Methylene chloride (c) | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 |
| Styrene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Tetrachloroethene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Toluene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| trans-1,2-Dichloroethene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| trans-1,3-Dichloropropene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Trichloroethene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | J 0.28 | < 1 |
| Vinyl chloride (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Xylenes [total] (c) | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 1,2-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Acenaphthylene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Anthracene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[a]anthracene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[a]pyrene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[b]fluoranthene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[g,h,i]perylene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[k]fluoranthene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| bis[2-Chloroethoxy]methane | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| bis[2-Chloroethyl]ether (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| bis[2-Ethylhexyl]phthalate [DEHP] (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| Butyl benzylphthalate [BBP] (c) | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Carbazole | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Chrysene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Dibenz[a,h]anthracene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Dibenzofuran | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Diethyl phthalate | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| Dimethyl phthalate | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Di-n-butylphthalate [DBP] | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| Di-n-octyl phthalate [DnOP] | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Hexachlorobutadiene (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Indeno[1,2,3-cd]pyrene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Isophorone (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,2,4-Trichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,3-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,4-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2,2`-Oxybis[1-chloropropane] [bis[2-Chloroisopropyl] ether] (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2,4,5-Trichlorophenol | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,4,6-Trichlorophenol (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,4-Dichlorophenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |

*All results in ug/L*
*c = potential carcinogen*
*bg = background well*
*J = estimated value between MDL and PQL*

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**GROUNDWATER MONITORING WELLS**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | MW-201 (bg) 4/10/2019 Result | MW-202 4/9/2019 Result | MW-203 4/11/2019 Result | MW-204 (bg) 4/9/2019 Result | MW-205 (bg) 4/11/2019 Result | MW-206 4/11/2019 Result | MW-207 4/12/2019 Result | MW-209 4/11/2019 Result | MW-219 4/11/2019 Result | MW-220 4/11/2019 Result | MW-223 4/10/2019 Result | MW-224 4/9/2019 Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 2,4-Dinitrophenol | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| 2,4-Dinitrotoluene (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,6-Dinitrotoluene (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2-Chloronaphthalene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Chlorophenol | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Methylnaphthalene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| 2-Methylphenol | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 2-Nitrophenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 3&4-Methylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 3,3`-Dichlorobenzidine (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 3-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4,6-Dinitro-2-methylphenol | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 4-Bromophenyl phenyl ether | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chloro-3-methylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chloroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chlorophenyl phenyl ether | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Nitrophenol | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Acenaphthene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Fluoranthene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Fluorene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Hexachlorobenzene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Hexachlorocyclopentadiene | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Hexachloroethane (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Naphthalene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Nitrobenzene (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| N-Nitrosodi-n-propylamine (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| N-Nitrosodiphenylamine (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Pentachlorophenol (c) | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Phenanthrene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Phenol (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Pyrene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Cyanide | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |

*All results in ug/L*
*c = potential carcinogen*
*bg = background well*
*J = estimated value between MDL and PQL*

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**GROUNDWATER MONITORING WELLS**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | MW-301 (bg) 4/9/2019 Result | MW-302 (bg) 4/9/2019 Result | MW-303 4/11/2019 Result | Dup #6 4/11/2019 Result | MW-304 (bg) 4/9/2019 Result | MW-305 4/10/2019 Result | Dup #5 4/10/2019 Result | MW-306 4/12/2019 Result | MW-307 4/12/2019 Result | MW-309 4/11/2019 Result | MW-319 4/11/2019 Result | MW-320 4/11/2019 Result | MW-321 4/12/2019 Result | MW-322 4/10/2019 Result | MW-323 4/10/2019 Result | MW-324 4/9/2019 Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 360 | 7000 | < 200 | < 200 | J 74 | < 200 | < 200 | J 99 | 640 | J 150 | 940 | J 67 | J 130 | < 200 | 310 | < 200 |
| Antimony | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 |
| Arsenic (c) | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 | J 4.8 | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 |
| Barium | J 14 | J 53 | J 21 | J 22 | J 16 | J 4 | < 200 | J 30 | J 27 | J 36 | J 110 | J 98 | J 40 | J 11 | J 24 | J 14 |
| Beryllium | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 |
| Cadmium | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | J 0.22 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | J 0.49 |
| Calcium | 8600 | J 3000 | 28000 | 28000 | 21000 | 59000 | 67000 | J 4700 | 5900 | J 3800 | 20000 | J 2200 | 8300 | 120000 | J 4200 | 110000 |
| Chromium | 22 | 21 | J 9.8 | 13 | 41 | 16 | 20 | 10 | J 3.6 | 11 | J 4.6 | J 1.1 | J 2.6 | J 1.1 | 20 | 1.3 |
| Cobalt | < 10 | J 2.8 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Copper | J 8.9 | J 10 | < 25 | J 5.1 | J 3.9 | J 4.3 | J 5.6 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | J 7.9 | < 25 |
| Iron (c) | 940 | 8100 | 360 | 460 | 1300 | 7400 | 9300 | 200 | 370 | 220 | 690 | 280 | 230 | J 63 | J 690 | J 53 |
| Lead (c) | J 2.8 | J 3.9 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Magnesium | 7500 | J 1800 | 12000 | 12000 | 9400 | 18000 | 20000 | J 2400 | J 2000 | J 1400 | J 2500 | J 820 | J 2800 | 53000 | J 1700 | 64000 |
| Manganese | J 7.3 | 190 | 27 | 27 | 83 | 310 | 370 | J 10 | J 9.4 | J 6.3 | J 8.2 | J 9.3 | J 12 | 62 | 31 | 46 |
| Nickel | J 14 | J 17 | J 7.5 | 8.9 | J 30 | J 9.6 | J 13 | J 6.8 | J 4 | J 6.6 | J 3.2 | J 3.6 | J 2.3 | < 40 | J 13 | J 2.2 |
| Potassium | 11000 | J 4600 | 7200 | 7200 | 6000 | 7000 | 7700 | J 4000 | J 4600 | J 3500 | 10000 | J 2600 | J 4500 | 12000 | J 3600 | 12000 |
| Selenium | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 |
| Silver | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Sodium | 700000 | 370000 | 770000 | 770000 | 710000 | 440000 | 480000 | 490000 | 640000 | 460000 | 500000 | 380000 | 650000 | 640000 | 590000 | 470000 |
| Thallium | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | J 5.6 | < 20 |
| Vanadium | < 50 | J 15 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | J 5.8 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 |
| Zinc | < 50 | J 17 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | J 20 | < 50 | J 9.7 | < 50 | < 50 | < 50 | < 50 |
| Mercury | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| 1,1,1-Trichloroethane | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1,2,2-Tetrachloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1,2-Trichloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1-Dichloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | J 0.42 | < 1 | < 1 | < 1 |
| 1,1-Dichloroethene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,2-Dichloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | 1 | < 1 | < 1 | < 1 |
| 1,2-Dichloroethene [total] | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 1,2-Dichloropropane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 2-Butanone [Methyl ethyl ketone] [MEK] | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| 2-Hexanone | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| 4-Methyl-2-pentanone [Methyl isobutyl ketone] [MIBK] | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Acetone (c) | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Benzene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Bromodichloromethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Bromoform (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Bromomethane [Methyl bromide] | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Carbon disulfide | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Carbon tetrachloride (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chlorobenzene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chloroethane | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |

*All results in ug/L*
*c= potential carcinogen*
*bg - background well*
*J = estimated value between MDL and PQL*

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**GROUNDWATER MONITORING WELLS**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | MW-301 (bg) 4/9/2019 Result | MW-302 (bg) 4/9/2019 Result | MW-303 4/11/2019 Result | Dup #6 4/11/2019 Result | MW-304 (bg) 4/9/2019 Result | MW-305 4/10/2019 Result | Dup #5 4/10/2019 Result | MW-306 4/12/2019 Result | MW-307 4/12/2019 Result | MW-309 4/11/2019 Result | MW-319 4/11/2019 Result | MW-320 4/11/2019 Result | MW-321 4/12/2019 Result | MW-322 4/10/2019 Result | MW-323 4/10/2019 Result | MW-324 4/9/2019 Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloroform [Trichloromethane] (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chloromethane [Methyl chloride] | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| cis-1,2-Dichloroethene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| cis-1,3-Dichloropropene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Dibromochloromethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Ethylbenzene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Methylene chloride (c) | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 |
| Styrene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Tetrachloroethene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Toluene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| trans-1,2-Dichloroethene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| trans-1,3-Dichloropropene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Trichloroethene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Vinyl chloride (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Xylenes [total] (c) | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 1,2-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Acenaphthylene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Anthracene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[a]anthracene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[a]pyrene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[b]fluoranthene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[g,h,i]perylene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[k]fluoranthene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| bis[2-Chloroethoxy]methane | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| bis[2-Chloroethyl]ether (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| bis[2-Ethylhexyl]phthalate [DEHP] (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| Butyl benzylphthalate [BBP] (c) | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Carbazole | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Chrysene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Dibenz[a,h]anthracene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Dibenzofuran | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Diethyl phthalate | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| Dimethyl phthalate | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Di-n-butylphthalate [DBP] | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| Di-n-octyl phthalate [DnOP] | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Hexachlorobutadiene (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Indeno[1,2,3-cd]pyrene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Isophorone (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,2,4-Trichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,3-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,4-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2,2`-Oxybis[1-chloropropane] [bis[2-Chloroisopropyl] ether] (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2,4,5-Trichlorophenol | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,4,6-Trichlorophenol (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,4-Dichlorophenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |

*All results in ug/L*
*c= potential carcinogen*
*bg - background well*
*J = estimated value between MDL and PQL*

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**GROUNDWATER MONITORING WELLS**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | MW-301 (bg) 4/9/2019 Result | MW-302 (bg) 4/9/2019 Result | MW-303 4/11/2019 Result | Dup #6 4/11/2019 Result | MW-304 (bg) 4/9/2019 Result | MW-305 4/10/2019 Result | Dup #5 4/10/2019 Result | MW-306 4/12/2019 Result | MW-307 4/12/2019 Result | MW-309 4/11/2019 Result | MW-319 4/11/2019 Result | MW-320 4/11/2019 Result | MW-321 4/12/2019 Result | MW-322 4/10/2019 Result | MW-323 4/10/2019 Result | MW-324 4/9/2019 Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 2,4-Dinitrophenol | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| 2,4-Dinitrotoluene (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,6-Dinitrotoluene (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2-Chloronaphthalene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Chlorophenol | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Methylnaphthalene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | 1.2 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| 2-Methylphenol | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 2-Nitrophenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 3&4-Methylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 3,3`-Dichlorobenzidine (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 3-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4,6-Dinitro-2-methylphenol | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 4-Bromophenyl phenyl ether | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chloro-3-methylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chloroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chlorophenyl phenyl ether | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Nitrophenol | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Acenaphthene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Fluoranthene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Fluorene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Hexachlorobenzene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Hexachlorocyclopentadiene | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Hexachloroethane (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Naphthalene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | 0.46 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Nitrobenzene (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| N-Nitrosodi-n-propylamine (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| N-Nitrosodiphenylamine (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Pentachlorophenol (c) | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Phenanthrene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Phenol (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Pyrene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Cyanide | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |

*All results in ug/L*
*c= potential carcinogen*
*bg - background well*
*J = estimated value between MDL and PQL*

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**GROUNDWATER MONITORING WELLS**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | MW-401 4/10/2019 Result | MW-402 4/10/2019 Result | MW-414 (bg) 4/11/2019 Result | MW-415 (bg) 4/10/2019 Result | MW-421 4/9/2019 Result | MW-422 (bg) 4/9/2019 Result | Non-Potable Well 4/10/2019 Result |
|---|---|---|---|---|---|---|---|
| Aluminum | 1100 | 1300 | J 130 | < 200 | J 130 | J 74 | < 200 |
| Antimony | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 |
| Arsenic (c) | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 |
| Barium | J 64 | J 55 | J 13 | J 10 | J 110 | J 14 | J 100 |
| Beryllium | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 |
| Cadmium | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 |
| Calcium | J 2300 | J 1900 | J 3900 | J 2700 | J 3000 | J 4000 | J 2100 |
| Chromium | J 6.3 | 12 | < 10 | J 1 | J 3.2 | J 1.4 | < 10 |
| Cobalt | < 10 | < 10 | < 10 | < 10 | < 10 | J 4.6 | < 10 |
| Copper | < 25 | J 10 | < 25 | < 25 | J 14 | < 25 | J 15 |
| Iron (c) | J 4600 | 18000 | 1500 | 3800 | 7200 | 8300 | J 100 |
| Lead (c) | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Magnesium | J 1100 | J 1400 | J 1700 | J 1100 | J 900 | J 1800 | J 850 |
| Manganese | 82 | 79 | J 13 | 26 | 110 | 91 | J 3.5 |
| Nickel | J 14 | J 23 | < 40 | J 3.5 | J 9.1 | J 10 | J 4.9 |
| Potassium | J 3300 | J 3400 | J 3600 | J 3100 | J 2900 | J 3700 | J 2900 |
| Selenium | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 |
| Silver | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Sodium | 530000 | 490000 | 550000 | 500000 | 410000 | 560000 | 450000 |
| Thallium | J 4 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 |
| Vanadium | J 5.7 | J 7 | < 50 | < 50 | < 50 | < 50 | < 50 |
| Zinc | < 50 | J 13 | < 50 | < 50 | < 50 | < 50 | J 40 |
| Mercury | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| 1,1,1-Trichloroethane | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1,2,2-Tetrachloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1,2-Trichloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1-Dichloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1-Dichloroethene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,2-Dichloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,2-Dichloroethene [total] | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 1,2-Dichloropropane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 2-Butanone [Methyl ethyl ketone] [MEK] | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| 2-Hexanone | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| 4-Methyl-2-pentanone [Methyl isobutyl ketone] [MIBK] | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Acetone (c) | J 6.6 | J 5.7 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Benzene (c) | < 1 | J 0.42 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Bromodichloromethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Bromoform (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Bromomethane [Methyl bromide] | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Carbon disulfide | < 1 | J 0.41 | < 1 | J 0.28 | < 1 | < 1 | < 1 |
| Carbon tetrachloride (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chlorobenzene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chloroethane | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |

*All results in ug/L*
*(c) = potential carcinogen*
*(bg) = background well*
*J = estimated value between MDL and PQL*

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**GROUNDWATER MONITORING WELLS**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | MW-401 4/10/2019 Result | MW-402 4/10/2019 Result | MW-414 (bg) 4/11/2019 Result | MW-415 (bg) 4/10/2019 Result | MW-421 4/9/2019 Result | MW-422 (bg) 4/9/2019 Result | Non-Potable Well 4/10/2019 Result |
|---|---|---|---|---|---|---|---|
| Chloroform [Trichloromethane] (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chloromethane [Methyl chloride] | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| cis-1,2-Dichloroethene | < 1 | < 1 | < 1 | J 0.19 | < 1 | < 1 | < 1 |
| cis-1,3-Dichloropropene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Dibromochloromethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Ethylbenzene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Methylene chloride (c) | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 |
| Styrene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Tetrachloroethene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Toluene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| trans-1,2-Dichloroethene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| trans-1,3-Dichloropropene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Trichloroethene (c) | < 1 | < 1 | < 1 | J 0.16 | < 1 | < 1 | < 1 |
| Vinyl chloride (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Xylenes [total] (c) | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 1,2-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Acenaphthylene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Anthracene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[a]anthracene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[a]pyrene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[b]fluoranthene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[g,h,i]perylene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[k]fluoranthene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| bis[2-Chloroethoxy]methane | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| bis[2-Chloroethyl]ether (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| bis[2-Ethylhexyl]phthalate [DEHP] (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| Butyl benzylphthalate [BBP] (c) | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Carbazole | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Chrysene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Dibenz[a,h]anthracene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Dibenzofuran | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Diethyl phthalate | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| Dimethyl phthalate | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Di-n-butylphthalate [DBP] | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| Di-n-octyl phthalate [DnOP] | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Hexachlorobutadiene (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Indeno[1,2,3-cd]pyrene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Isophorone (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,2,4-Trichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,3-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,4-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2,2`-Oxybis[1-chloropropane] [bis[2-Chloroisopropyl] ether] (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2,4,5-Trichlorophenol | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,4,6-Trichlorophenol (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,4-Dichlorophenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |

*All results in ug/L*
*(c) = potential carcinogen*
*(bg) = background well*
*J = estimated value between MDL and PQL*

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**GROUNDWATER MONITORING WELLS**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | MW-401 4/10/2019 Result | MW-402 4/10/2019 Result | MW-414 (bg) 4/11/2019 Result | MW-415 (bg) 4/10/2019 Result | MW-421 4/9/2019 Result | MW-422 (bg) 4/9/2019 Result | Non-Potable Well 4/10/2019 Result |
|---|---|---|---|---|---|---|---|
| 2,4-Dimethylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 2,4-Dinitrophenol | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| 2,4-Dinitrotoluene (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,6-Dinitrotoluene (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2-Chloronaphthalene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Chlorophenol | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Methylnaphthalene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| 2-Methylphenol | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 2-Nitrophenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 3&4-Methylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 3,3`-Dichlorobenzidine (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 3-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4,6-Dinitro-2-methylphenol | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 4-Bromophenyl phenyl ether | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chloro-3-methylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chloroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chlorophenyl phenyl ether | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Nitrophenol | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Acenaphthene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Fluoranthene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Fluorene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Hexachlorobenzene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Hexachlorocyclopentadiene | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Hexachloroethane (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Naphthalene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Nitrobenzene (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| N-Nitrosodi-n-propylamine (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| N-Nitrosodiphenylamine (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Pentachlorophenol (c) | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Phenanthrene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Phenol (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Pyrene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Cyanide | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |

*All results in ug/L*
*(c) = potential carcinogen*
*(bg) = background well*
*J = estimated value between MDL and PQL*

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**RINSE BLANK SAMPLES**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | Rinse Blank #1 4/8/2019 Result | Rinse Blank #2 4/10/2019 Result | Rinse Blank #3 4/10/2019 Result | Rinse Blank #4 4/11/2019 Result | Rinse Blank #5 4/11/2019 Result | Rinse Blank #6 4/12/2019 Result | S&E Rinse Blank 4/10/2019 Result |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1,2,2-Tetrachloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1,2-Trichloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1-Dichloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,1-Dichloroethene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,2,4-Trichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,2-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,2-Dichloroethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,2-Dichloroethene [total] | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 1,2-Dichloropropane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 1,3-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 1,4-Dichlorobenzene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2,2`-Oxybis[1-chloropropane] [bis[2-Chloroisopropyl] ether] (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2,4,5-Trichlorophenol | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,4,6-Trichlorophenol (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,4-Dichlorophenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 2,4-Dimethylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 2,4-Dinitrophenol | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| 2,4-Dinitrotoluene (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2,6-Dinitrotoluene (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 2-Butanone [Methyl ethyl ketone] [MEK] | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| 2-Chloronaphthalene | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Chlorophenol | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Hexanone | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| 2-Methylnaphthalene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| 2-Methylphenol | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| 2-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 2-Nitrophenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 3&4-Methylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 3,3`-Dichlorobenzidine (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 3-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4,6-Dinitro-2-methylphenol | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| 4-Bromophenyl phenyl ether | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chloro-3-methylphenol | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chloroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Chlorophenyl phenyl ether | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Methyl-2-pentanone [Methyl isobutyl ketone] [MIBK] | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| 4-Nitroaniline | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Nitrophenol | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Acenaphthene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Acenaphthylene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Acetone (c) | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Aluminum | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | -- |

*All results in ug/L*
*c = potential carcinogen*

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**RINSE BLANK SAMPLES**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | Rinse Blank #1 4/8/2019 Result | Rinse Blank #2 4/10/2019 Result | Rinse Blank #3 4/10/2019 Result | Rinse Blank #4 4/11/2019 Result | Rinse Blank #5 4/11/2019 Result | Rinse Blank #6 4/12/2019 Result | S&E Rinse Blank 4/10/2019 Result |
|---|---|---|---|---|---|---|---|
| Anthracene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Antimony | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | -- |
| Arsenic (c) | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 | -- |
| Barium | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | -- |
| Benzene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | -- |
| Benzo[a]anthracene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[a]pyrene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[b]fluoranthene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[g,h,i]perylene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Benzo[k]fluoranthene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Beryllium | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 |
| bis[2-Chloroethoxy]methane | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | -- |
| bis[2-Chloroethyl]ether (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| bis[2-Ethylhexyl]phthalate [DEHP] (c) | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| Bromodichloromethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Bromoform (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Bromomethane [Methyl bromide] | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Butyl benzylphthalate [BBP] (c) | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Cadmium | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | -- |
| Calcium | < 5000 | < 5000 | < 5000 | < 5000 | < 5000 | < 5000 | -- |
| Carbazole | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Carbon disulfide | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Carbon tetrachloride (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chlorobenzene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chloroethane | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chloroform [Trichloromethane] (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chloromethane [Methyl chloride] | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Chromium | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | -- |
| Chrysene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| cis-1,2-Dichloroethene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| cis-1,3-Dichloropropene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Cobalt | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | -- |
| Copper | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | -- |
| Cyanide | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | -- |
| Dibenz[a,h]anthracene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Dibenzofuran | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Dibromochloromethane (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Diethyl phthalate | < 4.5 | J 3.5 | < 4.5 | < 4.5 | J 3.7 | < 4.5 | < 4.5 |
| Dimethyl phthalate | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Di-n-butylphthalate [DBP] | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 |
| Di-n-octyl phthalate [DnOP] | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Ethylbenzene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Fluoranthene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |

*All results in ug/L*
*c = potential carcinogen*

**TABLE 2A.**
**WATER-QUALITY DATA SUMMARY, APRIL 2019**
**RINSE BLANK SAMPLES**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | Rinse Blank #1 4/8/2019 Result | Rinse Blank #2 4/10/2019 Result | Rinse Blank #3 4/10/2019 Result | Rinse Blank #4 4/11/2019 Result | Rinse Blank #5 4/11/2019 Result | Rinse Blank #6 4/12/2019 Result | S&E Rinse Blank 4/10/2019 Result |
|---|---|---|---|---|---|---|---|
| Fluorene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Hexachlorobenzene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Hexachlorobutadiene (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Hexachlorocyclopentadiene | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Hexachloroethane (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Indeno[1,2,3-cd]pyrene (c) | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Iron (c) | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | -- |
| Isophorone (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | -- |
| Lead (c) | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | -- |
| Magnesium | < 5000 | < 5000 | < 5000 | < 5000 | < 5000 | < 5000 | -- |
| Manganese | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 | -- |
| Mercury | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | -- |
| Methylene chloride (c) | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 |
| Naphthalene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Nickel | < 40 | < 40 | < 40 | < 40 | < 40 | < 40 | -- |
| Nitrobenzene (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| N-Nitrosodi-n-propylamine (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| N-Nitrosodiphenylamine (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Pentachlorophenol (c) | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 | < 8.9 |
| Phenanthrene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Phenol (c) | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 | < 0.89 |
| Potassium | < 5000 | < 5000 | < 5000 | < 5000 | < 5000 | < 5000 | -- |
| Pyrene | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Selenium | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | -- |
| Silver | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | -- |
| Sodium | < 5000 | < 5000 | < 5000 | < 5000 | < 5000 | 33000 | -- |
| Styrene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Tetrachloroethene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Thallium | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | -- |
| Toluene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| trans-1,2-Dichloroethene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| trans-1,3-Dichloropropene | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Trichloroethene (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Vanadium | < 50 | J 5.7 | < 50 | < 50 | < 50 | < 50 | -- |
| Vinyl chloride (c) | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Xylenes [total] (c) | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| Zinc | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | -- |

*All results in ug/L*
*c = potential carcinogen*

**TABLE 2B.**
**WATER-QUALITY & SEDIMENT DATA SUMMARY, APRIL 2019**
**SURFACE WATER AND SEDIMENT**
**SUMMIT NATIONAL SUPERFUND SITE**

| Parameter | Surface Water 4/10/2019 Result |
|---|---|
| 1,1,1-Trichloroethane | < 1 |
| 1,1,2,2-Tetrachloroethane (c) | < 1 |
| 1,1,2-Trichloroethane (c) | < 1 |
| 1,1-Dichloroethane (c) | J 0.24 |
| 1,1-Dichloroethene (c) | < 1 |
| 1,2,4-Trichlorobenzene | < 0.89 |
| 1,2-Dichlorobenzene | < 0.89 |
| 1,2-Dichloroethane (c) | < 1 |
| 1,2-Dichloroethene (total) | J 1.6 |
| 1,2-Dichloropropane (c) | < 1 |
| 1,3-Dichlorobenzene | < 0.89 |
| 1,4-Dichlorobenzene | < 0.89 |
| 2,2'-oxybis[1-chloropropane] (c) | < 0.89 |
| 2,4,5-Trichlorophenol | < 4.5 |
| 2,4,6-Trichlorophenol (c) | < 4.5 |
| 2,4-Dichlorophenol | < 1.8 |
| 2,4-Dimethylphenol | < 1.8 |
| 2,4-Dinitrophenol | < 8.9 |
| 2,4-Dinitrotoluene (c) | < 4.5 |
| 2,6-Dinitrotoluene (c) | < 4.5 |
| 2-Butanone (MEK) | < 10 |
| 2-Chloronaphthalene | < 0.89 |
| 2-Chlorophenol | < 0.89 |
| 2-Hexanone | < 10 |
| 2-Methylnaphthalene (c) | < 0.18 |
| 2-Methylphenol | < 0.89 |
| 2-Nitroaniline | < 1.8 |
| 2-Nitrophenol | < 1.8 |
| 3&4-Methylphenol | < 1.8 |
| 3,3'-Dichlorobenzidine (c) | < 4.5 |
| 3-Nitroaniline | < 1.8 |
| 4,6-Dinitro-o-cresol | < 4.5 |
| 4-Bromophenyl phenyl ether | < 1.8 |
| 4-Chloro-3-methyl phenol | < 1.8 |
| 4-Chloroaniline | < 1.8 |
| 4-Chlorophenyl phenyl ether | < 1.8 |
| 4-Methyl-2-pentanone(MIBK) | < 10 |
| 4-Nitroaniline | < 1.8 |
| 4-Nitrophenol | < 8.9 |
| Acenaphthene | < 0.18 |
| Acenaphthylene | < 0.18 |
| Acetone (c) | < 10 |
| Anthracene | < 0.18 |
| Benzene (c) | < 1 |
| Benzo(a)anthracene (c) | < 0.18 |
| Benzo(a)pyrene (c) | < 0.18 |

| Parameter | Surface Water 4/10/2019 Result |
|---|---|
| Benzo(b)fluoranthene (c) | < 0.18 |
| Benzo(g,h,i)perylene (c) | < 0.18 |
| Benzo(k)fluoranthene (c) | < 0.18 |
| bis(2-Chloroethoxy)methane | < 0.89 |
| bis(2-Chloroethyl)ether (c) | < 0.89 |
| bis(2-Ethylhexyl)phthalate (c) | < 4.5 |
| Bromodichloromethane (c) | < 1 |
| Bromoform (c) | < 1 |
| Bromomethane | < 1 |
| Butyl benzyl phthalate (c) | < 1.8 |
| Carbazole | < 0.89 |
| Carbon disulfide | < 1 |
| Carbon tetrachloride (c) | < 1 |
| Chlorobenzene | < 1 |
| Chloroethane | < 1 |
| Chloroform (c) | < 1 |
| Chloromethane | < 1 |
| Chrysene (c) | < 0.18 |
| cis-1,2-Dichloroethene | 1.6 |
| cis-1,3-Dichloropropene | < 1 |
| Dibenzo(a,h)anthracene (c) | < 0.18 |
| Dibenzofuran | < 0.89 |
| Dibromochloromethane | < 1 |
| Diethyl phthalate | < 4.5 |
| Dimethyl phthalate | < 1.8 |
| Di-n-butyl phthalate | < 4.5 |
| Di-n-octyl phthalate | < 1.8 |
| Ethylbenzene | < 1 |
| Fluoranthene | < 0.18 |
| Fluorene | < 0.18 |
| Hexachlorobenzene (c) | < 0.18 |
| Hexachlorobutadiene (c) | < 0.89 |
| Hexachlorocyclopentadiene | < 8.9 |
| Hexachloroethane (c) | < 0.89 |
| Indeno(1,2,3-cd)pyrene | < 0.18 |
| Isophorone (c) | < 0.89 |
| Methylene chloride | < 5 |
| Naphthalene | < 0.18 |
| Nitrobenzene (c) | < 0.89 |
| N-Nitroso-di-n-propylamine (c) | < 0.89 |
| N-Nitrosodiphenylamine (c) | < 0.89 |
| Pentachlorophenol (c) | < 8.9 |
| Phenanthrene | < 0.18 |
| Phenol (c) | < 0.89 |
| Pyrene | < 0.18 |
| Styrene | < 1 |
| Tetrachloroethene (c) | < 1 |

| Parameter | Surface Water 4/10/2019 Result |
|---|---|
| Toluene | < 1 |
| trans-1,2-Dichloroethene | < 1 |
| trans-1,3-Dichloropropene | < 1 |
| Trichloroethene (c) | J 0.38 |
| Vinyl chloride (c) | < 2 |
| Xylene (total) (c) | < 1 |

*All results in ug/L*

*c = potential carcinogen*

*J = estimated value between MDL and PQL*

# TABLE 2B.
# WATER-QUALITY & SEDIMENT DATA SUMMARY, APRIL 2019
# SURFACE WATER AND SEDIMENT
# SUMMIT NATIONAL SUPERFUND SITE

| Parameter | S&E Ditch Sediment 4/10/2019 Result |
|---|---|
| 1,1,1-Trichloroethane | < 5.4 |
| 1,1,2,2-Tetrachloroethane (c) | < 5.4 |
| 1,1,2-Trichloroethane (c) | < 5.4 |
| 1,1-Dichloroethane (c) | < 5.4 |
| 1,1-Dichloroethene (c) | < 5.4 |
| 1,2,4-Trichlorobenzene | < 70 |
| 1,2-Dichlorobenzene | < 70 |
| 1,2-Dichloroethane (c) | < 5.4 |
| 1,2-Dichloroethene (total) | < 11 |
| 1,2-Dichloropropane (c) | < 5.4 |
| 1,3-Dichlorobenzene | < 70 |
| 1,4-Dichlorobenzene | < 70 |
| 2,2'-oxybis[1-chloropropane] (c) | < 140 |
| 2,4,5-Trichlorophenol | < 210 |
| 2,4,6-Trichlorophenol (c) | < 210 |
| 2,4-Dichlorophenol | < 210 |
| 2,4-Dimethylphenol | < 210 |
| 2,4-Dinitrophenol | < 460 |
| 2,4-Dinitrotoluene (c) | < 280 |
| 2,6-Dinitrotoluene (c) | < 280 |
| 2-Butanone (MEK) | < 21 |
| 2-Chloronaphthalene | < 70 |
| 2-Chlorophenol | < 70 |
| 2-Hexanone | < 21 |
| 2-Methylnaphthalene (c) | 740 |
| 2-Methylphenol | < 280 |
| 2-Nitroaniline | < 280 |
| 2-Nitrophenol | < 70 |
| 3&4-Methylphenol | < 560 |
| 3,3'-Dichlorobenzidine (c) | < 140 |
| 3-Nitroaniline | < 280 |
| 4,6-Dinitro-o-cresol | < 460 |
| 4-Bromophenyl phenyl ether | < 70 |
| 4-Chloro-3-methyl phenol | < 210 |
| 4-Chloroaniline | < 210 |
| 4-Chlorophenyl phenyl ether | < 70 |
| 4-Methyl-2-pentanone(MIBK) | < 21 |
| 4-Nitroaniline | < 280 |
| 4-Nitrophenol | < 460 |
| Acenaphthene | < 21 |
| Acenaphthylene | < 21 |
| Acetone (c) | < 27 |
| Anthracene | < 21 |
| Benzene (c) | < 5.4 |
| Benzo(a)anthracene (c) | 53 |
| Benzo(a)pyrene (c) | 57 |

| Parameter | S&E Ditch Sediment 4/10/2019 Result |
|---|---|
| Benzo(b)fluoranthene (c) | 75 |
| Benzo(g,h,i)perylene (c) | 180 |
| Benzo(k)fluoranthene (c) | J 15 |
| bis(2-Chloroethoxy)methane | < 140 |
| bis(2-Chloroethyl)ether (c) | < 140 |
| bis(2-Ethylhexyl)phthalate (c) | < 98 |
| Bromodichloromethane (c) | < 5.4 |
| Bromoform (c) | < 5.4 |
| Bromomethane | < 5.4 |
| Butyl benzyl phthalate (c) | < 98 |
| Carbazole | < 70 |
| Carbon disulfide | < 5.4 |
| Carbon tetrachloride (c) | < 5.4 |
| Chlorobenzene | < 5.4 |
| Chloroethane | < 5.4 |
| Chloroform | < 5.4 |
| Chloromethane | < 5.4 |
| Chrysene (c) | 120 |
| cis-1,2-Dichloroethene | < 5.4 |
| cis-1,3-Dichloropropene | < 5.4 |
| Dibenzo(a,h)anthracene (c) | < 21 |
| Dibenzofuran | 170 |
| Dibromochloromethane | < 5.4 |
| Diethyl phthalate | < 98 |
| Dimethyl phthalate | < 98 |
| Di-n-butyl phthalate | < 98 |
| Di-n-octyl phthalate | < 98 |
| Ethylbenzene | < 5.4 |
| Fluoranthene | 120 |
| Fluorene | 22 |
| Hexachlorobenzene (c) | < 21 |
| Hexachlorobutadiene (c) | < 70 |
| Hexachlorocyclopentadiene | < 460 |
| Hexachloroethane (c) | < 70 |
| Indeno(1,2,3-cd)pyrene | < 21 |
| Isophorone (c) | < 70 |
| Methylene chloride | < 27 |
| Naphthalene | 510 |
| Nitrobenzene (c) | < 140 |
| N-Nitroso-di-n-propylamine (c) | < 70 |
| N-Nitrosodiphenylamine (c) | < 70 |
| Pentachlorophenol (c) | < 210 |
| Phenanthrene | 500 |
| Phenol (c) | < 70 |
| Pyrene | 160 |
| Styrene | < 5.4 |
| Tetrachloroethene (c) | < 5.4 |

| Parameter | S&E Ditch Sediment 4/10/2019 Result |
|---|---|
| Toluene | < 5.4 |
| trans-1,2-Dichloroethene | < 5.4 |
| trans-1,3-Dichloropropene | < 5.4 |
| Trichloroethene (c) | < 5.4 |
| Vinyl chloride (c) | < 5.4 |
| Xylene (total) (c) | < 11 |

*All results in ug/Kg*

*c = possible carcinogen*

*J = estimated value between MDL and PQL*

# TABLE 2C.
# WATER-QUALITY DATA SUMMARY, APRIL 2019
# RESIDENTIAL WELLS
# SUMMIT NATIONAL SUPERFUND SITE

| Parameter | Residential Well #1 4/10/2019 Result | Residential Well #2 4/10/2019 Result | Residential Well #3 4/10/2019 Result |
|---|---|---|---|
| 1,1,1-Trichloroethane | < 1 | < 1 | < 1 |
| 1,1-Dichloroethane (c) | < 1 | < 1 | < 1 |
| 1,2-Dichloroethane (c) | < 1 | < 1 | < 1 |
| Acetone (c) | < 10 | < 10 | < 10 |
| Benzene (c) | < 1 | < 1 | < 1 |
| bis[2-Ethylhexyl]phthalate [DEHP] (c) | < 4.5 | < 4.5 | J 2.2 |
| Chlorobenzene | < 1 | < 1 | < 1 |
| Chloroethane | < 1 | < 1 | < 1 |
| cis-1,2-Dichloroethene | < 1 | < 1 | < 1 |
| Ethylbenzene | < 1 | < 1 | < 1 |
| Toluene | < 1 | < 1 | < 1 |
| trans-1,2-Dichloroethene | < 1 | < 1 | < 1 |
| Trichloroethene (c) | < 1 | < 1 | < 1 |
| Vinyl chloride (c) | < 1 | < 1 | < 1 |
| Xylenes [total] (c) | < 2 | < 2 | < 2 |

*All results in ug/L*

*c = potential carcinogen*

*J = estimated value between MDL and PQL*

# TABLE 3.
# PARAMETER LIST AND REGIONAL SCREENING LEVELS FOR SUBSTANCES WITH POSSIBLE CARCINOGENIC EFFECTS
# SUMMIT NATIONAL SUPERFUND SITE

| Parameter | Toxicological Class (1) 1986 | 1996 | 1999 | 2005 | ($SF_0$) Oral Cancer Slope Factor (2) 1/(mg/kg-day) | (RfD) Oral Reference Dose (3) (mg/kg-day) | (RSL) Regional Screening Level For Individual Compounds Based On 1.0 x $10^{-6}$ Risk (4) THQ = 1.0 (ug/L) |
|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | | | | |
| 1,1,1-Trichloroethane; Methylchloroform | D | | | I | NV | 2.00E+00 | NV |
| **1,1,2,2-Tetrachloroethane** | **C** | | | **L** | 2.00E-01 | 2.00E-02 | 7.60E-02 |
| **1,1,2-Trichloroethane** | **C** | | | | 5.70E-02 | 4.00E-03 | 2.80E-01 |
| **1,1-Dichloroethane; Ethylidene Chloride** | **C** | | | | 5.70E-03 | 2.00E-01 | 2.80E+00 |
| **1,1-Dichloroethylene; 1,1-Dichloroethene; Vinylidene Chloride** | **C** | | | | NV | 5.00E-02 | NV |
| **1,2-Dichloroethane; Ethylenedichloride** | **B2** | | | | 9.10E-02 | 6.00E-03 | 1.70E-01 |
| 1,2-Dichloroethylene; 1,2-Dichloroethene | | | | | NA | NA | NA |
| cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene | | | | | NV | 2.00E-03 | NV |
| trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene | | | | | NV | 2.00E-02 | NV |
| **1,2-Dichloropropane; Propylenedichloride** | **B2** | | | | 3.70E-02 | 4.00E-02 | 8.50E-01 |
| cis-1,3-Dichloropropene (5) | | | | | 1.00E-01 | 3.00E-02 | 4.70E-01 |
| trans-1,3-Dichloropropene (5) | | | | | 1.00E-01 | 3.00E-02 | 4.70E-01 |
| 2-Hexanone; Methyl butyl ketone | | | **S** | I | NV | 5.00E-03 | NV |
| **Acetone; 2-Propanone** | **D** | | **S** | | NV | 9.00E-01 | NV |
| **Benzene** | **A** | **K** | | | 5.50E-02 | 4.00E-03 | 4.60E-01 |
| **Bromodichloromethane; Dichlorobromomethane** | **B2** | | | | 6.20E-02 | 2.00E-02 | 1.30E-01 |
| **Bromoform; Tribromomethane** | **B2** | | | | 7.90E-03 | 2.00E-02 | 3.30E+00 |
| Bromomethane; Methyl bromide | D | | | | NV | 1.40E-03 | NV |
| Carbon Disulfide | | | | | NV | 1.00E-01 | NV |
| **Carbon Tetrachloride** | **B2** | | | **L** | 7.00E-02 | 4.00E-03 | 4.60E-01 |
| Chlorobenzene | D | | | | NV | 2.00E-02 | NV |
| Chloroethane; Ethyl Chloride | | | | | NV | NV | NV |
| **Chloroform; Trichloromethane** | **B2** | | **L/N** | | 3.10E-02 | 1.00E-02 | 2.20E-01 |
| Chloromethane; Methyl chloride | D | P | | | NV | NV | NV |
| **Dibromochloromethane; Chlorodibromomethane** | **C** | | | **L** | 8.40E-02 | 2.00E-02 | 8.70E-01 |
| Ethylbenzene | D | | | | 1.10E-02 | 1.00E-01 | 1.50E+00 |
| **Methyl ethyl ketone; MEK; 2-Butanone** | **D** | | **S** | | NV | 6.00E-01 | NV |
| Methyl isobutyl ketone; MIK; 4-Methyl-2-pentanone | | | | | NV | NV | NV |
| **Methylene chloride; Dichloromethane** | **B2** | | | | 2.00E-03 | 6.00E-03 | 1.10E+01 |
| Styrene; Ethenylbenzene | | | | | NV | 2.00E-01 | NV |
| **Tetrachloroethylene; Tetrachloroethene; Perchloroethylene** | **B2** | | | **L** | 2.10E-03 | 6.00E-03 | 1.10E+01 |
| Toluene; Methylbenzene | D | | | I | NV | 8.00E-02 | NV |
| **Trichloroethylene; Trichloroethene** | **B2** | | | **K** | 4.60E-02 | 5.00E-04 | 4.90E-01 |
| Vinyl Acetate | | | | | NV | 1.00E+00 | NV |
| **Vinyl Chloride** | **A** | **K** | | | 7.20E-01 | 3.00E-03 | 1.90E-02 |
| **Xylene (total)** | **D** | | **S** | | NV | 2.00E-01 | NV |
| m-Xylene | D | | | | NV | 2.00E-01 | NV |
| o-Xylene | D | | | | NV | 2.00E-01 | NV |
| p-Xylene | D | | | | NV | 2.00E-01 | NV |
| **Semi-Volatile Organic Compounds** | | | | | | | |
| 1,2,4-Trichlorobenzene | D | | | | 2.90E-02 | 1.00E-02 | 1.20E+00 |
| 1,2-Dichlorobenzene; o-Dichlorobenzene | D | | | | NV | 9.00E-02 | NV |
| 1,3 Dichlorobenzene; m-Dichlorobenzene | D | | | | NA | NA | NA |
| 1,4-Dichlorobenzene; p-Dichlorobenzene | | | | | 5.40E-03 | 7.00E-02 | 4.80E-01 |
| 2,4,5-Trichlorophenol | | | | | NV | 1.00E-01 | NV |
| **2,4,6-Trichlorophenol** | **B2** | | | | 1.10E-02 | 1.00E-03 | 4.10E+00 |
| 2,4-Dichlorophenol | | | | | NV | 3.00E-03 | NV |
| 2,4-Dimethylphenol; m-Xylenol | | | | | NV | 2.00E-02 | NV |
| 2,4-Dinitrophenol | | | | | NV | 2.00E-03 | NV |
| **2,4-Dinitrotoluene; 1-Methyl-2,4-dinitrobenzene** | **B2** | | | | 3.10E-01 | 2.00E-03 | 2.40E-01 |
| **2,6-Dinitrotoluene; 2-Methyl-1,3-dinitrobenzene** | **B2** | | | | 1.50E+00 | 3.00E-04 | 4.90E-02 |
| 2-Chloronaphthalene; 2-Naphthyl chloride; beta-Chloronaphthalene | | | | | NV | 8.00E-02 | NV |
| 2-Chlorophenol | | | | | NV | 5.00E-03 | NV |

# TABLE 3.
# PARAMETER LIST AND REGIONAL SCREENING LEVELS FOR SUBSTANCES WITH POSSIBLE CARCINOGENIC EFFECTS
# SUMMIT NATIONAL SUPERFUND SITE

| Parameter | Toxicological Class (1) 1986 | 1996 | 1999 | 2005 | ($SF_0$) Oral Cancer Slope Factor (2) 1/(mg/kg-day) | (RfD) Oral Reference Dose (3) (mg/kg-day) | (RSL) Regional Screening Level For Individual Compounds Based On 1.0 x $10^{-6}$ Risk (4) THQ = 1.0 (ug/L) |
|---|---|---|---|---|---|---|---|
| **Semi-Volatile Organic Compounds (continued)** | | | | | | | |
| **2-Methylnaphthalene** | **C** | | **S** | | NV | 4.00E-03 | NV |
| 2-Methylphenol; o-Cresol | | | | | NV | 5.00E-02 | NV |
| 2-Nitroaniline; 2-Nitrobenzenamine; o-Nitroaniline | | | | | NV | 1.00E-02 | NV |
| 2-Nitrophenol; o-Nitrophenol | | | | | NA | NA | NA |
| **3,3'-Dichlorobenzidine; 3,3'-Dichloro-[1,1'-bi phenyl]-4,4'-diamine** | **B2** | | | | 4.50E-01 | NV | 1.30E-01 |
| 3-Nitroaniline; 3-Nitrobenzenamine; m-Nitroaniline | | | | | NA | NA | NA |
| 3&4-Methylphenol; m&p-Cresol (6) | | | | | NV | 1.00E-01 | NV |
| 4,6-Dinitro-o-cresol; 4,6-Dinitro-2-methylphenol; 2-Methyl-4,6-dinitrophenol | | | | | NV | 8.00E-05 | NV |
| 4-Bromophenyl Phenyl Ether; 1-Bromo-4-phenoxy-benzene | D | | | | NA | NA | NA |
| 4-Chloroaniline; p-Chloroaniline; 4-Chlorobenzenamine | | | | | 2.00E-01 | 4.00E-03 | 3.70E-01 |
| 4-Chlorophenyl phenyl ether; 1-Chloro-4-phenoxy benzene | | | | | NA | NA | NA |
| 4-Chloro-3-methyl phenol | | | | | NV | 1.00E-01 | NV |
| **4-Methylphenol; p-Cresol** | **C** | | | | NV | 1.00E-01 | NV |
| 4-Nitroaniline; 4-Nitrobenzenamine; p-Nitroaniline | | | | | 2.00E-02 | 4.00E-03 | 3.80E+00 |
| 4-Nitrophenol; p-Nitrophenol | | | | | NA | NA | NA |
| Acenaphthene; 1,2-Dihydroacenaphthylene, Acenaphthylene | D | | | | NV | 6.00E-02 | NV |
| Anthracene | D | | | | NV | 3.00E-01 | NV |
| **Benzo[a]anthracene; Benzanthracene** | **B2** | | | | 1.00E-01 | NV | 3.00E-02 |
| **Benzo[a]pyrene** | **B2** | | | | 1.00E+00 | 3.00E-04 | 2.50E-02 |
| **Benzo[b]flouranthene; Benz[e]acephenanthylene** | **B2** | | | | 1.00E-01 | NV | 2.50E-01 |
| Benzo[ghi]perylene | D | | | | NA | NA | NA |
| **Benzo[k]flouranthene** | **B2** | | | | 1.00E-02 | NV | 2.50E+00 |
| Benzyl alcohol; Benzenemethanol | D | | | | NV | 1.00E-01 | NV |
| Benzoic acid | | | | | NV | 4.00E+00 | NV |
| bis(2-Chloroethoxy)methane; 1,1-[methylenebis(oxy)] bis[2-chloroethane] | D | | | | NV | 3.00E-03 | NV |
| **bis(2-Chloroethyl) ether; Dichloroethyl ether; 1,1'-oxybis [2-Chloroethane]** | **B2** | | | | 1.10E+00 | NV | 1.40E-02 |
| **bis(2-Chloro-1-methylethyl) Ether; 2,2'-Dichlorodiisopropyl ether; DCIP** | **C** | | | | NV | 4.00E-02 | NV |
| **bis(2-Ethylhexyl) Phthalate; 1,2-Benzenedicarboxylic acid, bis (2-Ethylhexyl) ester** | **B2** | | | | 1.40E-02 | 2.00E-02 | 5.60E+00 |
| **Butyl benzyl phthalate; Benzyl butyl phthalate; 1,2-Benzenedicarboxylic acid** | **C** | | | | 1.90E-03 | 2.00E-01 | 1.60E+01 |
| **Chrysene** | **B2** | | | | 1.00E-03 | NV | 2.50E+01 |
| Di-n-butyl phthalate; 1,2-Benzenedicarboxylic acid dibutyl ester, Dibutyl Phthalate | D | | | | NV | 1.00E-01 | NV |
| Di-n-octyl phthalate; 1,2-Benzenedicarboxylic acid, Dioctyl ester | | | | | NV | 1.00E-02 | NV |
| Di-n-propylnitrosamine; N-Nitrosodipropylamine; N-Nitroso-N-dipropylamine | | | | | 7.00E+00 | NV | 1.10E-02 |
| **Dibenz[a,h]anthracene** | **B2** | | | | 1.00E+00 | NV | 2.50E-02 |
| Dibenzofuran | D | | | | NV | 1.00E-03 | NV |
| Diethyl phthalate; 1,2-Benzenedicarboxylic acid, Diethyl ester | D | | | | NV | 8.00E-01 | NV |
| Dimethyl phthalate; 1,2-Benzenedicarboxylic acid, dimethyl ester | D | | | | NA | NA | NA |
| Fluoranthene | D | | | | NV | 4.00E-02 | NV |
| Fluorene; 9H-fluorene | D | | | | NV | 4.00E-02 | NV |
| **Hexachlorobenzene** | **B2** | | | | 1.60E+00 | 8.00E-04 | 9.80E-03 |
| **Hexachlorobutadiene** | **C** | | | | 7.80E-02 | 1.00E-03 | 1.40E-01 |
| Hexachlorocyclopentadiene | D | N | | | NV | 6.00E-03 | NV |
| **Hexachloroethane** | **C** | | | **L** | 4.00E-02 | 7.00E-04 | 3.30E-01 |
| **Indeno (1,2,3-cd) pyrene** | **B2** | | | | 1.00E-01 | NV | 2.50E-01 |
| **Isophorone; 3,5,5-Trimethyl-2-cyclohexen-1-one** | **C** | | | | 9.50E-04 | 2.00E-01 | 7.80E+01 |
| **N-Nitrosodimethylamine; N-Methyl-N-nitroso methananmine** | **B2** | | | | 5.10E+01 | 8.00E-06 | 1.10E-04 |
| **N-Nitroso-Di-N-Propylamine** | **B2** | | | | 7.00E+00 | NV | 1.10E-02 |
| Naphthalene | D | P | | | NV | 2.00E-02 | 1.70E-01 |
| **Nitrobenzene** | D | | | **L** | NV | 2.00E-03 | 1.40E-01 |
| **Pentachlorophenol** | **B2** | | | **L** | 4.00E-01 | 5.00E-03 | 4.10E-02 |
| Phenanthrene | D | | | | NA | NA | NA |
| **Phenol** | **D** | | **S** | | NV | 3.00E-01 | NV |
| Pyrene | D | | | | NV | 3.00E-02 | NV |

# TABLE 3.
# PARAMETER LIST AND REGIONAL SCREENING LEVELS FOR SUBSTANCES WITH POSSIBLE CARCINOGENIC EFFECTS SUMMIT NATIONAL SUPERFUND SITE

| Parameter | Toxicological Class (1) 1986 | 1996 | 1999 | 2005 | ($SF_0$) Oral Cancer Slope Factor (2) 1/(mg/kg-day) | (RfD) Oral Reference Dose (3) (mg/kg-day) | (RSL) Regional Screening Level For Individual Compounds Based On 1.0 x $10^{-6}$ Risk (4) THQ = 1.0 (ug/L) |
|---|---|---|---|---|---|---|---|
| **Metals (Total)** | | | | | | | |
| Aluminum | | | | | NV | 1.00E+00 | NV |
| Antimony (metallic) | | | | | NV | 4.00E-04 | NV |
| **Arsenic, Inorganic** | **A** | | | | 1.50E+00 | 3.00E-04 | 5.20E-02 |
| Barium | | N | | | NV | 2.00E-01 | NV |
| Beryllium and Compounds | | P | | | NV | 2.00E-03 | NV |
| Cadmium (Water) | | | | | NV | 5.00E-04 | NV |
| Calcium | | | | | NA | NA | NA |
| Chromium, Total | | P | | | NV | NV | NV |
| Cobalt | | | | | NV | 3.00E-04 | NV |
| Copper | D | | | | NV | 4.00E-02 | NV |
| Cyanide (free, CN-) | D | | | | NV | 6.00E-04 | NV |
| **Iron** | **C** | | | | NV | 7.00E-01 | NV |
| **Lead and Compounds** | **B2** | | | | NV | NV | NV |
| Magnesium | | | | | NA | NA | NA |
| Manganese (Diet) | D | | | | NV | 1.40E-01 | NV |
| Mercury (elemental) | D | | | | NV | NV | NV |
| Nickel (Soluble Salts) | | | | | NV | 2.00E-02 | NV |
| Potassium | | | | | NA | NA | NA |
| Selenium | D | | | | NV | 5.00E-03 | NV |
| Silver | D | | | | NV | 5.00E-03 | NV |
| Sodium | | | | | NA | NA | NA |
| Thallium (Soluble Salts) | | I | | | NV | 1.00E-05 | NV |
| Vanadium and Compounds | | | | | NV | 5.00E-03 | NV |
| Zinc and Compounds | D | | **S** | I | NV | 3.00E-01 | NV |

***Notes:***

NA = Not Available; **Bold** - Potential Carcinogen

**(1)** USEPA Weight-of-Evidence Toxicological Classification.

1986 Guidelines

**A** - Human Carcinogen (sufficient evidence of carcinogenicity in humans)

**B1** - Probable Human Carcinogen (limited evidence of carcinogenicity in humans)

**B2** - Probable Human Carcinogen (sufficient evidence of carcinogenicity in animals)

**C** - Possible Human Carcinogen (limited evidence of carcinogenicity in animals)

D - Not Classified as to Human Carcinogenicity (inadequate or no evidence)

1996 Guidelines

**K** - Known/likely human carcinogen

P - Carcinogenic potential cannot be determined

N - Not likely to be carcinogenic to humans

1999, 2005 Guidelines

**K** - Carcinogenic to humans

**L** - Likely to be carcinogenic to humans

**S** - Suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential

I - Data are inadequate for an assessment of human carcinogenic potential

N - Not likely to be carcinogenic to humans

**(2)** Cancer Slope Factor - A measure of the carcinogenic potential of a compound.

SOURCE : USEPA Integrated Risk Information System (IRIS); August 2018.

: Health Effects Assessment Table (HEAST); July 1997.

: Regional Screening Levels (RSLs) Master Table; November 2019. Provisional values supplied by NCEA.

: CalEPA Office of Environmental Health Hazard Assessment (OEHHA), Cancer Potency Values; September 2016.

**(3)** The RfD is a daily exposure level which is believed to be without appreciable health risk to humans over a lifetime. The RfD is usually derived from an experimental "no observed adverse effect level" (NOAEL), identified as the highest dose in the most relevant study that didnot result in a known adverse effect. The NOAEL is divided by various uncertainty factors to derive the RfD. These uncertainty factors account for the variation in human response, extrapolation to human responses if animal experiments were used, data quality and relevance.

**(4)** Based on the assumption of 2 liters of groundwater consumed per day, for 350 days per year, by a 70-kg adult for a 30-year residency period.

**(5)** 1,3-Dichloropropene CSF, $RfD_o$, and RSL substituted.

# TABLE 4.
# SUMMARY OF CHEMICALS OF POTENTIAL CONCERN AND HAZARD INDICES
# APRIL 2019 GROUNDWATER MONITORING EVENT
# SUMMIT NATIONAL SUPERFUND SITE

| Well | Chemical of Potential Concern (COPC) | Reported Groundwater Concentration (mg/L) | | Oral Reference Dose (1) (mg/kg-day) | Hazard Quotient (HQ) | Hazard Index (3) (HI) | Percent Contribution of COPC (%) |
|---|---|---|---|---|---|---|---|
| **Water Table Unit (WTU) Wells** | | | | | | | |
| MW-4 | Iron | 3.6 | * | 7.00E-01 | 0.14 | 0.14 | 100.00 |
| MW-11 | 1,1,1-Trichloroethane | 0.011 | | 2.00E+00 | 0.00 | **2.24** | 0.01 |
| | 1,1,2-Trichloroethane | 0.0002 | J | 4.00E-03 | 0.00 | | 0.06 |
| | 1,1-Dichloroethane | 0.056 | | 2.00E-01 | 0.01 | | 0.34 |
| | 1,1-Dichloroethene | 0.00073 | J | 5.00E-02 | 0.00 | | 0.02 |
| | 1,2-Dichloroethane | 0.0009 | J | 6.00E-03 | 0.00 | | 0.18 |
| | Benzene | 0.00025 | J | 4.00E-03 | 0.00 | | 0.08 |
| | cis-1,2-Dichloroethene | 0.029 | | 2.00E-03 | 0.39 | | 17.46 |
| | Iron | 3.4 | | 7.00E-01 | 0.13 | | 5.85 |
| | trans-1,2-Dichloroethene | 0.0008 | J | 2.00E-02 | 0.00 | | 0.05 |
| | Trichloroethene | 0.031 | | 5.00E-04 | **1.67** | | 74.68 |
| | Vinyl chloride | 0.0032 | | 3.00E-03 | 0.03 | | 1.28 |
| MW-101 | Iron | 25.5 | * | 7.00E-01 | 0.98 | 0.98 | 100.00 |
| MW-102 | Iron | 89 | | 7.00E-01 | **3.43** | **3.43** | 100.00 |
| MW-103 | Arsenic | 0.03 | | 3.00E-04 | **2.70** | **3.03** | 89.17 |
| | Iron | 8.5 | | 7.00E-01 | 0.33 | | 10.83 |
| MW-104 | Iron | 15 | | 7.00E-01 | 0.58 | 0.58 | 100.00 |
| | Sodium | 590 | | NV | -- | | 0.00 |
| MW-105 | Iron | 23 | | 7.00E-01 | 0.89 | 0.89 | 100.00 |
| MW-106 | 1,1,1-Trichloroethane | 0.00089 | J | 2.00E+00 | 0.00 | 0.22 | 0.01 |
| | 1,1-Dichloroethane | 0.0011 | | 2.00E-01 | 0.00 | | 0.07 |
| | 1,2-Dichloroethane | 0.00069 | J | 6.00E-03 | 0.00 | | 1.44 |
| | Iron | 5.5 | | 7.00E-01 | 0.21 | | 98.48 |
| MW-107 | 1,1,2-Trichloroethane | 0.0034 | J | 4.00E-03 | 0.02 | **6.51** | 0.35 |
| | 1,1-Dichloroethane | 0.69 | | 2.00E-01 | 0.09 | | 1.43 |
| | 1,2-Dichloroethane | 0.017 | | 6.00E-03 | 0.08 | | 1.17 |
| | 1,2-Dichlorobenzene | 0.0013 | | 9.00E-02 | 0.00 | | 0.01 |
| | 2,4-Dimethylphenol | 0.0015 | | 2.00E-02 | 0.00 | | 0.03 |
| | 2-Methylphenol | 0.0015 | | 5.00E-02 | 0.00 | | 0.01 |
| | 2-Methylnaphthalene | 0.0016 | | 4.00E-03 | 0.01 | | 0.17 |
| | 3&4-Methylphenol | 0.0064 | | 1.00E-01 | 0.00 | | 0.03 |
| | 4-Chloro-3-Methylphenol | 0.0088 | | 1.00E-01 | 0.00 | | 0.04 |
| | Arsenic | 0.044 | | 3.00E-04 | **3.96** | | 60.81 |
| | Benzene | 0.089 | | 4.00E-03 | 0.60 | | 9.23 |
| | Chloroethane | 0.390 | | NV | -- | | 0.00 |
| | Ethylbenzene | 0.940 | | 1.00E-01 | 0.25 | | 3.90 |
| | Toluene | 3.0 | | 8.00E-02 | 1.01 | | 15.55 |
| | Iron | 0.46 | | 7.00E-01 | 0.02 | | 0.27 |
| | Isophorone | 0.0028 | | 2.00E-01 | 0.00 | | 0.01 |
| | Naphthalene | 0.0077 | | 2.00E-02 | 0.01 | | 0.16 |
| | Xylene (total) | 3.3 | | 2.00E-01 | 0.45 | | 6.84 |

# TABLE 4.
# SUMMARY OF CHEMICALS OF POTENTIAL CONCERN AND HAZARD INDICES
# APRIL 2019 GROUNDWATER MONITORING EVENT
# SUMMIT NATIONAL SUPERFUND SITE

| Well | Chemical of Potential Concern (COPC) | Reported Groundwater Concentration (mg/L) | | Oral Reference Dose (1) (mg/kg-day) | Hazard Quotient (HQ) | Hazard Index (3) (HI) | Percent Contribution of COPC (%) |
|---|---|---|---|---|---|---|---|
| **Water Table Unit (WTU) Wells (cont'd)** | | | | | | | |
| MW-108 | 1,1,1-Trichloroethane | 0.0023 | | 2.00E+00 | 0.00 | **9.89** | 0.00 |
| | 1,1,2-Trichloroethane | 0.00037 | J | 4.00E-03 | 0.00 | | 0.03 |
| | 1,1-Dichloroethane | 0.33 | | 2.00E-01 | 0.04 | | 0.45 |
| | 1,1-Dichloroethene | 0.0032 | | 5.00E-02 | 0.00 | | 0.02 |
| | 1,2-Dichloroethane | 0.044 | | 6.00E-03 | 0.20 | | 2.00 |
| | Arsenic | 0.022 | | 3.00E-04 | **1.98** | | 20.03 |
| | Benzene | 0.14 | | 4.00E-03 | 0.95 | | 9.56 |
| | cis-1,2-Dichloroethene | 0.24 | | 2.00E-03 | **3.24** | | 32.77 |
| | Iron | 35 | | 7.00E-01 | **1.35** | | 13.66 |
| | Phenol | 0.0011 | | 3.00E-01 | 0.00 | | 0.00 |
| | Trichloroethene | 0.023 | | 5.00E-04 | **1.24** | | 12.56 |
| | Vinyl chloride | 0.098 | | 3.00E-03 | 0.88 | | 8.92 |
| | Xylene (total) | 0.00064 | J | 2.00E-01 | 0.00 | | 0.00 |
| MW-109 | Iron | 1.1 | | 7.00E-01 | 0.04 | 0.04 | 100.00 |
| MW-110 | Iron | 0.26 | | 7.00E-01 | 0.01 | 0.01 | 100.00 |
| MW-111 | 1,1-Dichloroethane | 0.028 | | 2.00E-01 | 0.00 | **5.97** | 0.06 |
| | 1,1-Dichloroethene | 0.0004 | J | 5.00E-02 | 0.00 | | 0.00 |
| | 1,2-Dichloroethane | 0.088 | | 6.00E-03 | 0.40 | | 6.64 |
| | Benzene | 0.00018 | J | 4.00E-03 | 0.00 | | 0.02 |
| | cis-1,2-Dichloroethene | 0.0062 | | 2.00E-03 | 0.08 | | 1.40 |
| | Chloroethene | 0.0013 | | NV | -- | | 0.00 |
| | Iron | 140 | | 7.00E-01 | **5.40** | | 90.53 |
| | Vinyl chloride | 0.0089 | | 3.00E-03 | 0.08 | | 1.34 |
| MW-113 | Acetone | 0.0065 | J | 9.00E-01 | 0.00 | | 0.00 |
| | Iron | 1.8 | | 7.00E-01 | 0.07 | | 1.16 |
| MW-114 | Arsenic | 0.038 | | 3.00E-04 | **3.42** | **5.77** | 59.24 |
| | Iron | 61 | | 7.00E-01 | **2.35** | | 40.76 |
| MW-115 | 1,1-Dichloroethane | 0.0014 | | 2.00E-01 | 0.00 | 0.30 | 0.06 |
| | 1,2-Dichloroethane | 0.00037 | J | 6.00E-03 | 0.00 | | 0.55 |
| | cis-1,2-Dichloroethene | 0.0057 | | 2.00E-03 | 0.08 | | 25.44 |
| | Iron | 5.8 | | 7.00E-01 | 0.22 | | 73.95 |
| MW-116 | -- | -- | | -- | -- | -- | -- |
| MW-117 | Iron | 5.6 | * | 7.00E-01 | 0.22 | 0.22 | 100.00 |
| MW-118 | 1,2-Dichloroethane | 0.0022 | | 6.00E-03 | 0.01 | 0.22 | 4.46 |
| | Iron | 5.5 | | 7.00E-01 | 0.21 | | 95.54 |

# TABLE 4.
# SUMMARY OF CHEMICALS OF POTENTIAL CONCERN AND HAZARD INDICES
# APRIL 2019 GROUNDWATER MONITORING EVENT
# SUMMIT NATIONAL SUPERFUND SITE

| Well | Chemical of Potential Concern (COPC) | Reported Groundwater Concentration (mg/L) | | Oral Reference Dose (1) (mg/kg-day) | Hazard Quotient (HQ) | Hazard Index (3) (HI) | Percent Contribution of COPC (%) |
|---|---|---|---|---|---|---|---|
| **Upper Intermediate Unit (UIU) Wells** | | | | | | | |
| MW-201 | -- | -- | | -- | -- | -- | -- |
| MW-202 | Iron | 0.88 | | 7.00E-01 | 0.03 | 0.03 | 100.00 |
| MW-203 | Iron | 0.35 | | 7.00E-01 | 0.01 | 0.01 | 100.00 |
| MW-204 | Iron | 2.7 | | 7.00E-01 | 0.10 | 0.10 | 100.00 |
| MW-205 | Iron | 7.8 | | 7.00E-01 | 0.30 | 0.30 | 100.00 |
| MW-206 | Iron | 2.6 | | 7.00E-01 | 0.10 | 0.10 | 100.00 |
| MW-207 | Iron | 2.5 | | 7.00E-01 | 0.10 | 0.10 | 100.00 |
| MW-209 | Iron | 0.92 | | 7.00E-01 | 0.04 | 0.04 | 100.00 |
| MW-219 | Iron | 0.19 | | 7.00E-01 | 0.01 | 0.01 | 100.00 |
| MW-220 | -- | -- | | -- | -- | -- | -- |
| MW-223 | 1,1-Dichloroethane | 0.0017 | | 2.00E-01 | 0.00 | **4.29** | 0.01 |
| | 1,2-Dichloroethane | 0.003 | | 6.00E-03 | 0.01 | | 0.31 |
| | Acetone | 0.0065 | J | 9.00E-01 | 0.00 | | 0.00 |
| | cis-1,2-Dichloroethene | 0.0017 | | 2.00E-03 | 0.02 | | 0.53 |
| | Iron | 110 | | 7.00E-01 | **4.24** | | 98.79 |
| | Trichloroethene | 0.00028 | J | 5.00E-04 | 0.02 | | 0.35 |
| MW-224 | Iron | 1.8 | | 7.00E-01 | 0.07 | | 1.62 |
| **Lower Intermediate Unit (LIU) Wells** | | | | | | | |
| MW-301 | Iron | 0.94 | | 7.00E-01 | 0.04 | 0.04 | 100.00 |
| MW-302 | Iron | 8.1 | | 7.00E-01 | 0.31 | 0.31 | 100.00 |
| MW-303 | Iron | 0.011 | * | 7.00E-01 | 0.00 | 0.00 | 100.00 |
| MW-304 | Iron | 0.041 | | 7.00E-01 | 0.00 | 0.00 | 100.00 |
| MW-305 | Iron | 7.4 | | 7.00E-01 | 0.29 | 0.29 | 100.00 |
| MW-306 | Iron | 0.2 | | 7.00E-01 | 0.01 | 0.01 | 100.00 |
| MW-307 | Iron | 0.37 | | 7.00E-01 | 0.01 | 0.01 | 100.00 |
| MW-309 | 2-Methylnaphthalene | 0.0012 | | 4.00E-03 | 0.01 | 0.02 | 48.84 |
| | Iron | 0.22 | | 7.00E-01 | 0.01 | | 51.16 |
| MW-319 | Iron | 0.69 | | 7.00E-01 | 0.03 | 0.03 | 100.00 |
| MW-320 | Iron | 0.28 | | 7.00E-01 | 0.01 | 0.01 | 100.00 |
| MW-321 | 1,1-Dichloroethane | 0.00042 | J | 2.00E-01 | 0.00 | 0.01 | 0.42 |
| | 1,2-Dichloroethane | 0.001 | | 6.00E-03 | 0.00 | | 33.51 |
| | Iron | 0.23 | | 7.00E-01 | 0.01 | | 66.07 |
| MW-322 | -- | -- | | -- | -- | -- | -- |
| MW-323 | -- | -- | | -- | -- | -- | -- |
| MW-324 | -- | -- | | -- | -- | -- | -- |

# TABLE 4.
# SUMMARY OF CHEMICALS OF POTENTIAL CONCERN AND HAZARD INDICES
# APRIL 2019 GROUNDWATER MONITORING EVENT
# SUMMIT NATIONAL SUPERFUND SITE

| Well | Chemical of Potential Concern (COPC) | Reported Groundwater Concentration (mg/L) | | Oral Reference Dose (1) (mg/kg-day) | Hazard Quotient (HQ) | Hazard Index (3) (HI) | Percent Contribution of COPC (%) |
|---|---|---|---|---|---|---|---|
| **Upper Sharon Unit (USU) Wells** | | | | | | | |
| MW-401 | Acetone | 0.0066 | J | 9.00E-01 | 0.00 | 0.00 | 100.00 |
| MW-402 | Acetone | 0.0057 | J | 9.00E-01 | 0.00 | 0.70 | 0.02 |
| | Benzene | 0.00042 | J | 4.00E-03 | 0.00 | | 0.41 |
| | Iron | 18 | | 7.00E-01 | 0.69 | | 99.57 |
| MW-414 | Iron | 1.5 | | 7.00E-01 | 0.06 | 0.06 | 100.00 |
| MW-415 | Iron | 3.8 | | 7.00E-01 | 0.15 | 0.16 | 94.43 |
| | Trichloroethene | 0.00016 | J | 5.00E-04 | 0.01 | | 5.57 |
| MW-421 | Iron | 7.2 | | 7.00E-01 | 0.28 | 0.28 | 100.00 |
| MW-422 | Iron | 8.3 | | 7.00E-01 | 0.32 | 0.32 | 100.00 |
| Non-Potable Water Well | -- | -- | | -- | -- | -- | -- |

NV - No Value Available

**Bold** - HQ or HI at or above 1.0

Underline - Potential Carcinogen Contribution to HQ

* - Value is the Average of Dup Result and Well Result

J - Estimated Value between the MDL and the PQL

-- - Not Applicable. No constituents detected, or if detected, are below a concentration that designates the constituent as a COPC.

**(1)** The RfD is a daily exposure level which is believed to be without appreciable health risk to humans over a lifetime. The RfD is usually derived from an experimental "no observed adverse effect level" (NOAEL), identified as the highest dose in the most relevant study that did not result in a known adverse effect. The NOAEL is divided by various uncertainty factors to derive the RfD. These uncertainty factors account for the variation in human response, extrapolation to human responses if animal experiments were used, data quality and relevance.

**(2)** Based on the assumption of 2 liters of groundwater consumed per day, for 350 days per year, by a 70-kg adult for a 30-year residency period.

**(3)** A Hazard Index of >1.0 exceeds the Performance Standard for the Site.

# TABLE 5.
# SUMMARY OF SIGNIFICANT POST-SHUTDOWN TRENDS
# APRIL 2019 GROUNDWATER MONITORING EVENT
# SUMMIT NATIONAL SUPERFUND SITE

| Well | Well Location | Parameter | Method | POST SHUTDOWN | | |
|---|---|---|---|---|---|---|
| | | | | Overall | Early (2006 - 2009) | Recent (2009 - 2019) |
| MW-11 | On-site | 1,1,1-Trichloroethane | Mann-Kendall | Down | -- | -- |
| | | 1,2-Dichloroethane | Mann-Kendall | Down | -- | -- |
| | | Trichloroethene | Mann-Kendall | Down | -- | -- |
| MW-107 | On-site | 1,1,1-Trichloroethane | Mann-Kendall | Down | -- | -- |
| | | 1,2-Dichloroethane | Mann-Kendall | Down | -- | -- |
| | | cis-1,2-Dichloroethene | Mann-Kendall | Down | -- | -- |
| | | Toluene | Mann-Kendall | Down | -- | -- |
| MW-108 | On-site | 1,1-Dichloroethane | Mann-Kendall | Up | Up | None |
| | | Benzene | Mann-Kendall | Up | Up | None |
| | | cis-1,2-Dichloroethene | Mann-Kendall | Up | Up | None |
| | | trans-1,2-Dichloroethene | Mann-Kendall | Up | None | None |
| | | Vinyl Chloride | Mann-Kendall | Up | Up | None |
| MW-111 | On-site | 1,1,1-Trichloroethane | Mann-Kendall | Down | -- | -- |

Notes:
Up = Statistically significant upward trend identified.
Down = Statistically significant downward trend identified.
None = No statistically significant trend identified.
-- = Not applicable

**TABLE 6.**
**COMPARISON OF VOC DETECTIONS WITH MCLs**
**SENTINEL & DOWNGRADIENT OFF-SITE WATER TABLE UNIT WELLS**
**APRIL 2019 GROUNDWATER MONITORING EVENT**
**SUMMIT NATIONAL SUPERFUND SITE**

| Sample ID | Parameter | Units | April 2019 Result | MCL | Exceeds MCL (Yes/No) |
|---|---|---|---|---|---|
| **Sentinel Wells** | | | | | |
| MW-114 | VOCs | ug/l | ND | -- | No |
| MW-115 | 1,1-Dichloroethane | ug/l | 1.4 | -- | No |
| MW-115 | 1,2-Dichloroethane | ug/l | 0.37 J | 5 | No |
| MW-115 | cis-1,2-Dichloroethene | ug/l | 5.7 | 70 | No |
| **Additional Downgradient WTU Monitoring Wells** | | | | | |
| MW-4 | VOCs | ug/l | ND | -- | No |
| MW-109 | VOCs | ug/l | ND | -- | No |
| MW-110 | VOCs | ug/l | ND | -- | No |
| MW-113 | Acetone | ug/l | 6.5 J | -- | No |
| MW-116 | VOCs | ug/l | ND | -- | No |
| MW-117 | VOCs | ug/l | ND | -- | No |
| MW-118 | 1,2-Dichloroethane | ug/l | 2.2 | 5 | No |

VOCs - Includes all SSIPL constituents

ND - No VOCs detected

J - Estimated concentration detected below the practical quantitation limit but above the method detection limit

# TABLE 7.
# NUMBER OF SSIPL VOC DETECTIONS AND MAXIMUM CONCENTRATIONS BY ZONE
# SUMMIT NATIONAL SUPERFUND SITE

| | Water Table Unit (19 wells) | | | | | Upper Intermediate Unit (12 wells) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | April 2019 Event | | All Events | | | April 2019 Event | | All Events | | |
| Constituents | No. Detects | Max. | No. Obs. | No. Detects | Max. | No. Detects | Max. | No. Obs. | No. Detects | Max. |
| 1,1,1-Trichloroethane | 5 | 11 | 381 | 113 | 1300 | 1 | 6.5 J | 220 | 1 | 0.34 J |
| 1,1-Dichloroethane | 6 | 690 | 514 | 191 | 1600 | 1 | 1.7 | 304 | 19 | 3.9 |
| 1,2-Dichloroethane | 6 | 44 | 514 | 199 | 1800 | 1 | 3.0 | 304 | 28 | 8.9 |
| 1,2-Dichloroethene (Total) | 4 | 250 | 400 | 104 | 437 | 1 | 1.7 J | 238 | 16 | 6 |
| Acetone | 1 | 6.5 J | 514 | 36 | 34,000 | 0 | -- | 304 | 26 | 1200 |
| Benzene | 4 | 140 | 381 | 64 | 140 | 0 | -- | 220 | 0 | -- |
| Chlorobenzene | 1 | 0.29 J | 233 | 13 | 70.6 | 0 | -- | 134 | 0 | -- |
| Chloroethane | 2 | 390 | 357 | 20 | 390 | 0 | -- | 210 | 0 | -- |
| Cis-1,2-Dichloroethene | 4 | 240 | 325 | 114 | 434 | 1 | 1.7 | 190 | 14 | 4 |
| Ethylbenzene | 2 | 940 | 513 | 41 | 1405 | 0 | -- | 304 | 2 | 0.89 |
| Toluene | 2 | 3,000 | 514 | 49 | 11,500 | 0 | -- | 304 | 4 | 6.45 |
| Trans-1,2-dichloroethene | 3 | 6.3 J | 250 | 42 | 51 | 0 | -- | 142 | 0 | -- |
| Trichloroethene | 2 | 31 | 495 | 72 | 349 | 1 | 0.28 J | 292 | 6 | 0.47 J |
| Vinyl Chloride | 2 | 98 | 381 | 84 | 260 J | 0 | -- | 220 | 0 | -- |
| Xylenes (Total) | 2 | 3,300 | 514 | 41 | 4935 | 0 | -- | 304 | 3 | 3.2 |

Note:
All results represented in ug/L.
J - Estimated conentration detected below the practical quatitation limit but above the method detection limit.

# TABLE 7.
# NUMBER OF SSIPL VOC DETECTIONS AND MAXIMUM CONCENTRATIONS BY ZONE
# SUMMIT NATIONAL SUPERFUND SITE

| | Lower Intermediate Unit (14 wells) | | | | | Upper Sharon Unit (7 wells) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | April 2019 Event | | All Events | | | April 2019 Event | | All Events | | |
| Constituents | No. Detects | Max. | No. Obs. | No. Detects | Max. | No. Detects | Max. | No. Obs. | No. Detects | Max. |
| 1,1,1-Trichloroethane | 0 | -- | 199 | 0 | -- | 0 | -- | 96 | 0 | -- |
| 1,1-Dichloroethane | 1 | 0.42 J | 297 | 7 | 0.64 J | 0 | -- | 123 | 0 | -- |
| 1,2-Dichloroethane | 1 | 1.0 | 297 | 16 | 3.6 | 0 | -- | 123 | 0 | -- |
| 1,2-Dichloroethene (Total) | 0 | -- | 241 | 0 | -- | 0 | -- | 100 | 0 | -- |
| Acetone | 0 | -- | 297 | 3 | 130 | 2 | 6.6 J | 123 | 4 | 270 |
| Benzene | 0 | -- | 199 | 0 | -- | 1 | 0.42 J | 96 | 6 | 0.77 |
| Chlorobenzene | 0 | -- | 116 | 0 | -- | 0 | -- | 63 | 0 | -- |
| Chloroethane | 0 | -- | 199 | 0 | -- | 0 | -- | 96 | 0 | -- |
| Cis-1,2-Dichloroethene | 0 | -- | 167 | 0 | -- | 1 | 0.19 J | 77 | 1 | 0.19 J |
| Ethylbenzene | 0 | -- | 297 | 0 | -- | 0 | -- | 123 | 0 | -- |
| Toluene | 0 | -- | 297 | 9 | 5 | 0 | -- | 123 | 5 | 6.7 |
| Trans-1,2-dichloroethene | 0 | -- | 112 | 0 | -- | 0 | -- | 58 | 0 | -- |
| Trichloroethene | 0 | -- | 283 | 0 | -- | 1 | 0.16 J | 123 | 1 | 0.16 J |
| Vinyl Chloride | 0 | -- | 199 | 0 | -- | 0 | -- | 96 | 0 | -- |
| Xylenes (Total) | 0 | -- | 277 | 3 | 1.6 | 0 | -- | 123 | 1 | 1.7 |

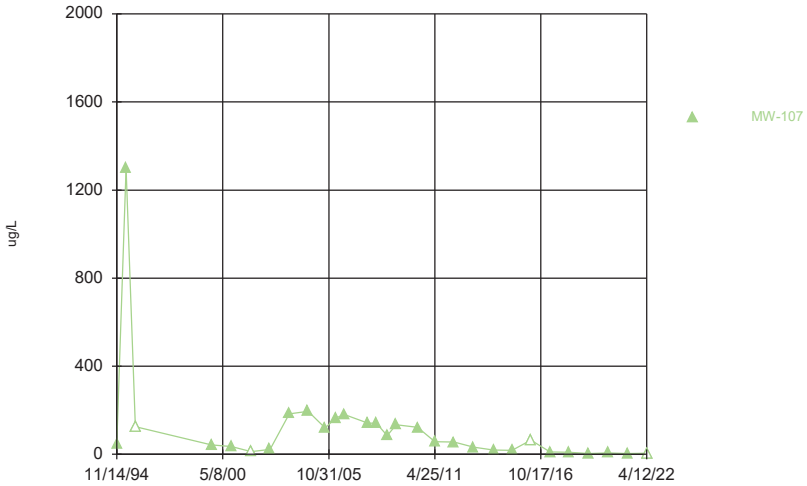
Note:
All results represented in ug/L.
J - Estimated conentration detected below the practical quatitation limit but above the method detection limit.

# APPENDIX E

# TIME-SERIES PLOTS OF WATER-QUALITY DATA, ANNUAL MONITORING WELLS

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

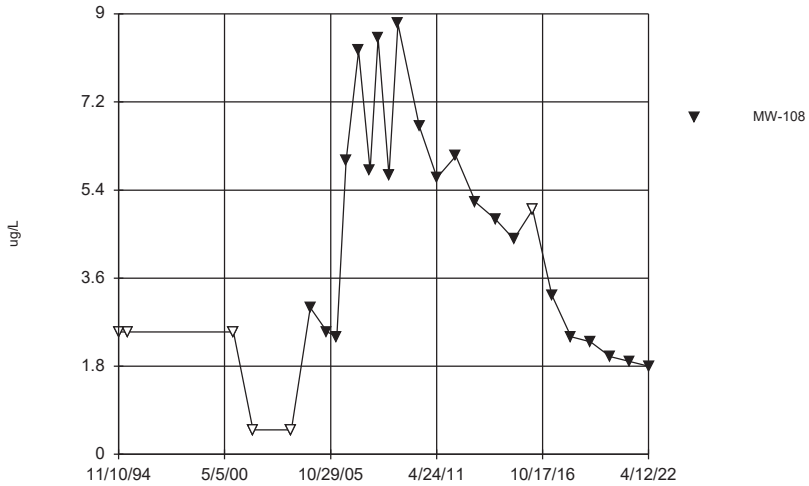
## Time Series




Constituent: 1,1,1-Trichloroethane Analysis Run 5/3/2022 10:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

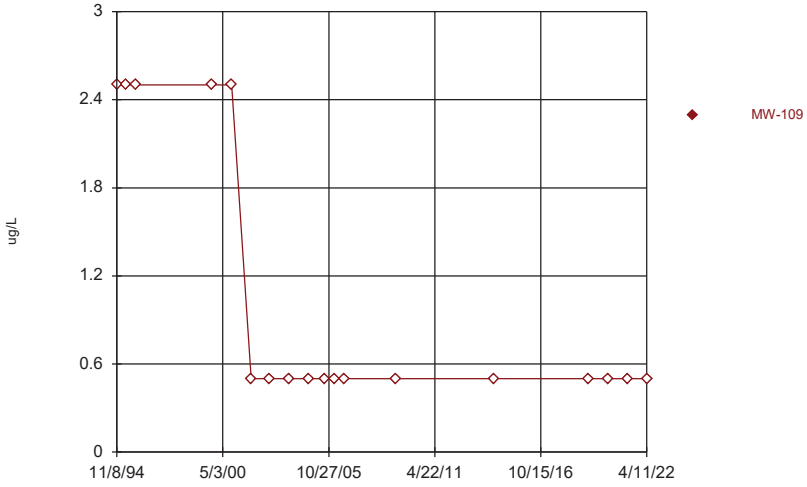
## Time Series




Constituent: 1,1,1-Trichloroethane Analysis Run 5/3/2022 10:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

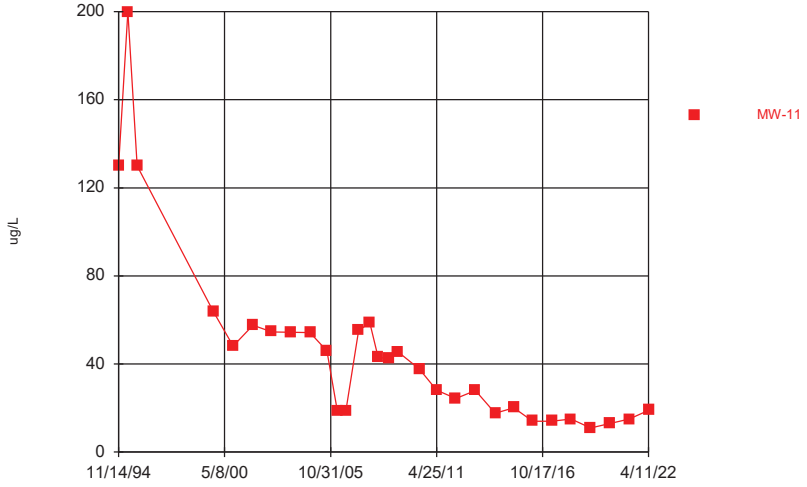
## Time Series




Constituent: 1,1,1-Trichloroethane Analysis Run 5/3/2022 10:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG

## Time Series

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Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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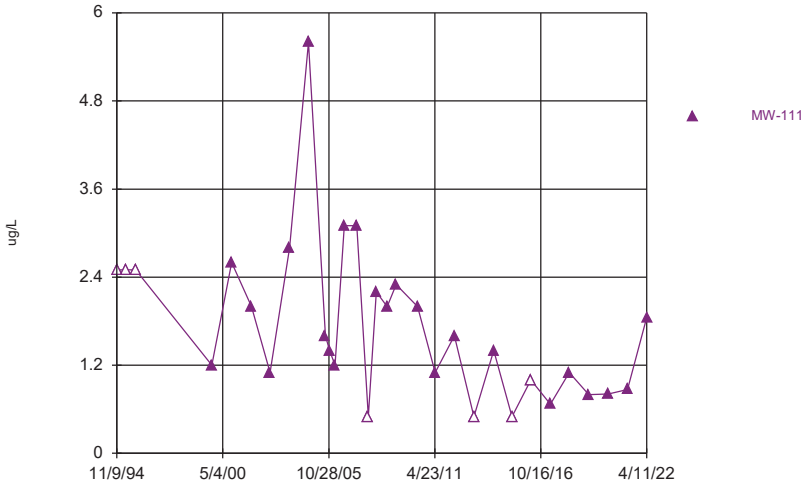


Constituent: 1,1,1-Trichloroethane Analysis Run 5/3/2022 10:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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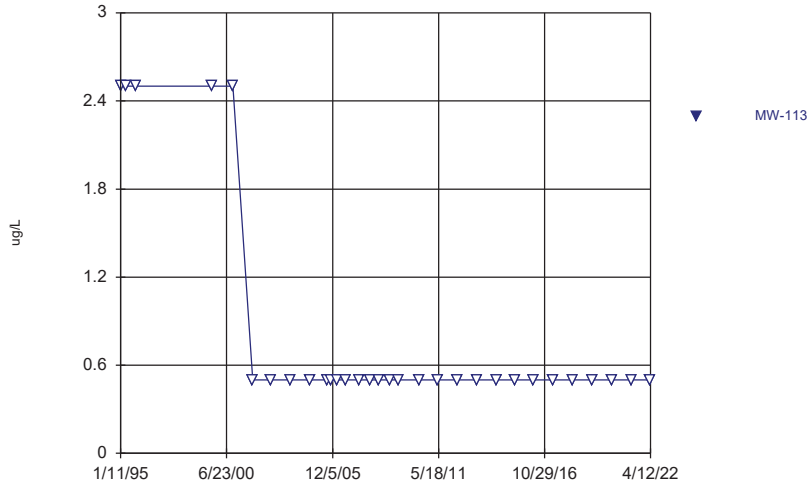


Constituent: 1,1,1-Trichloroethane Analysis Run 5/3/2022 10:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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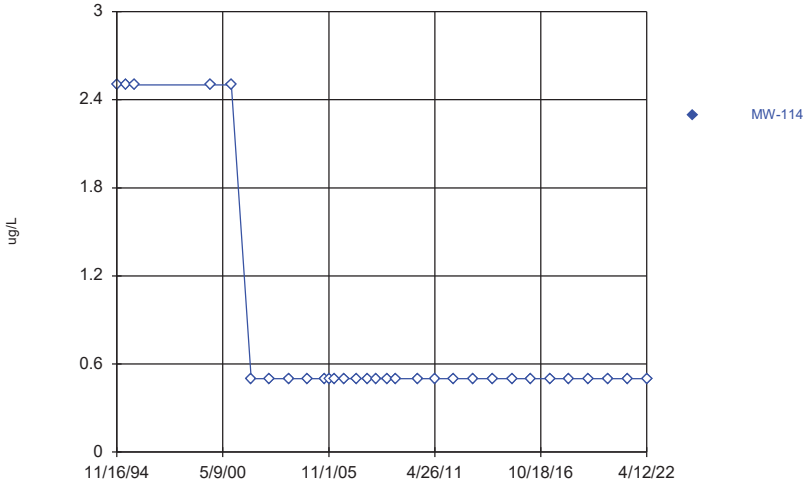


Constituent: 1,1,1-Trichloroethane Analysis Run 5/3/2022 10:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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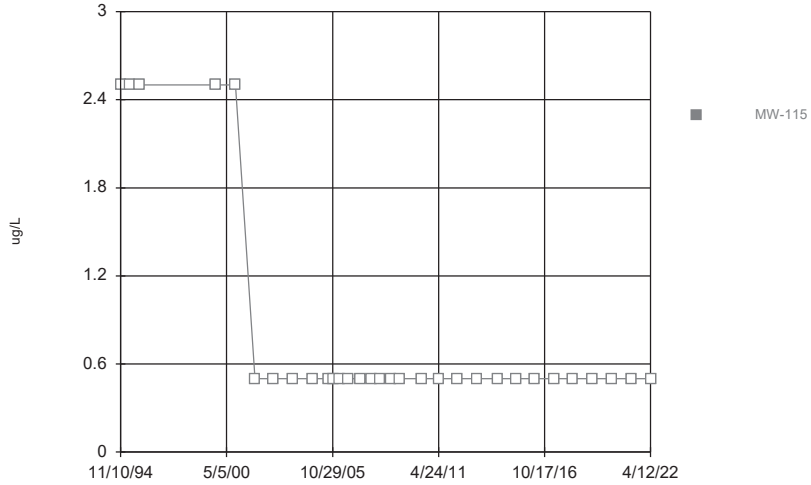


Constituent: 1,1,1-Trichloroethane Analysis Run 5/3/2022 10:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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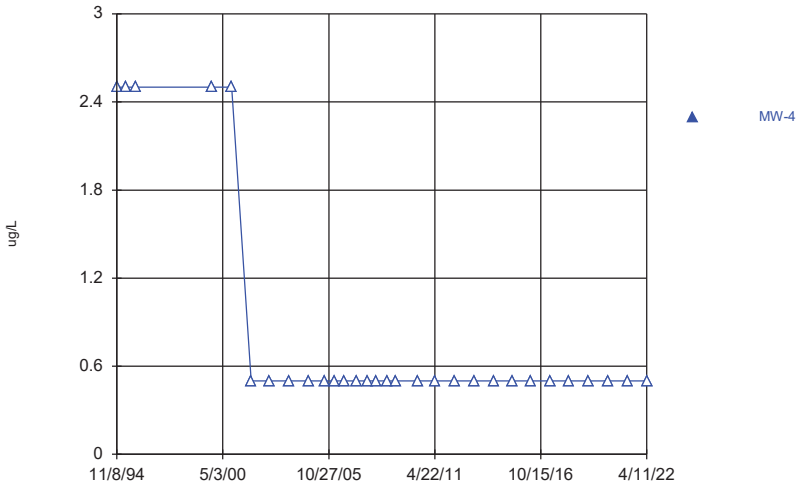


Constituent: 1,1,1-Trichloroethane Analysis Run 5/3/2022 10:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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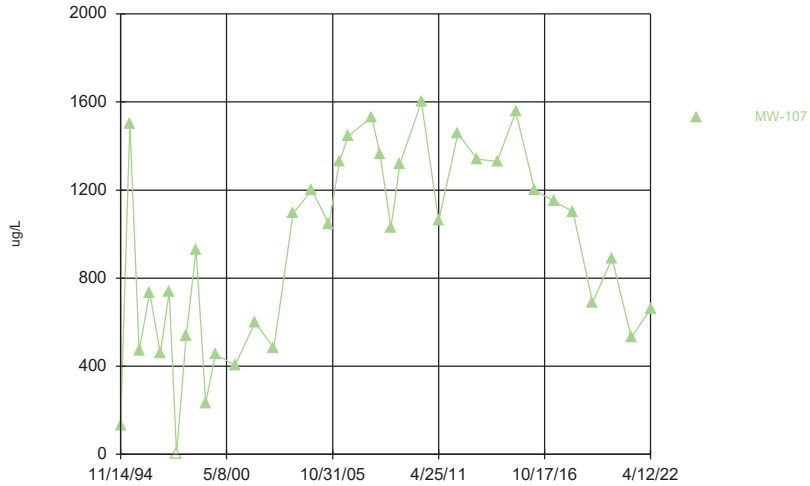
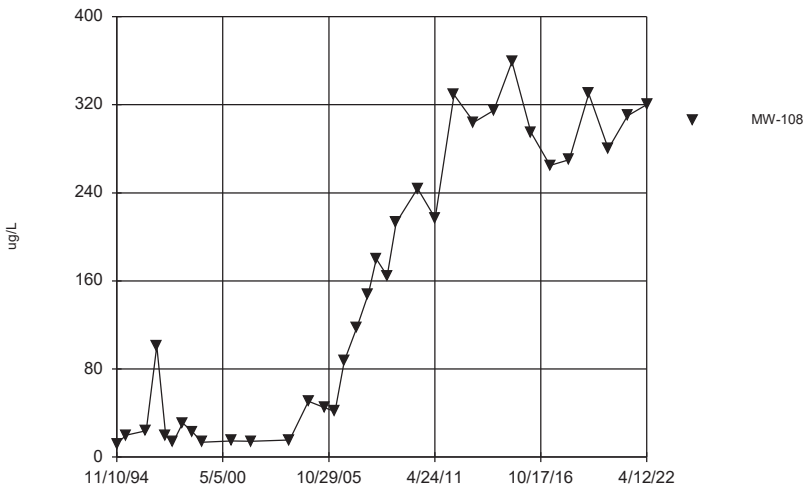



Constituent: 1,1-Dichloroethane Analysis Run 5/3/2022 10:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG

## Time Series




Constituent: 1,1-Dichloroethane Analysis Run 5/3/2022 10:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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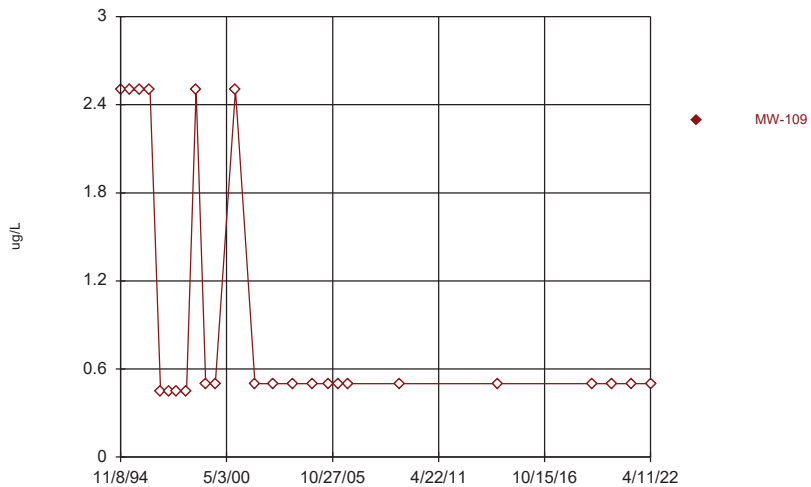


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Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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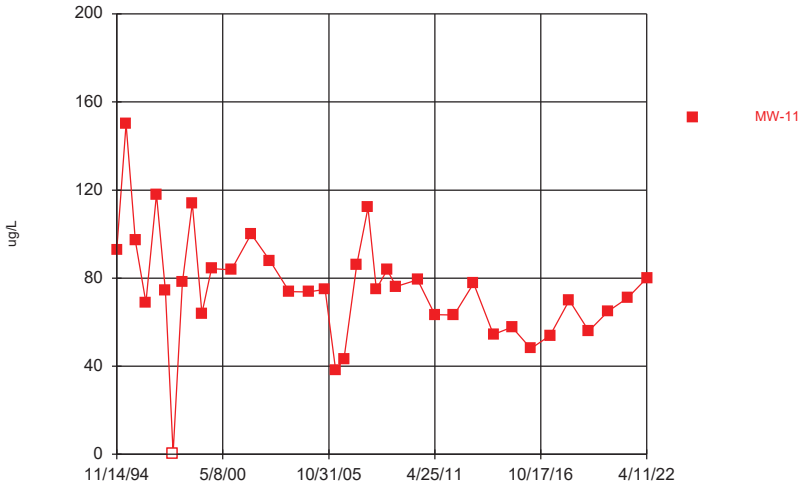


Constituent: 1,1-Dichloroethane Analysis Run 5/3/2022 10:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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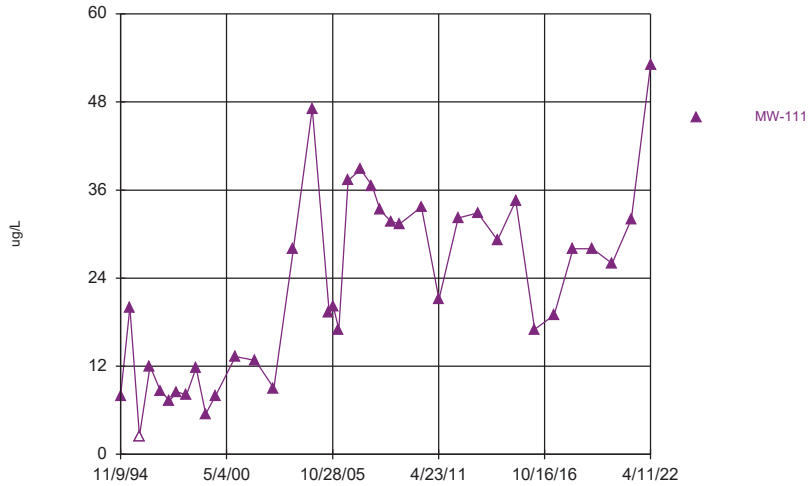


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Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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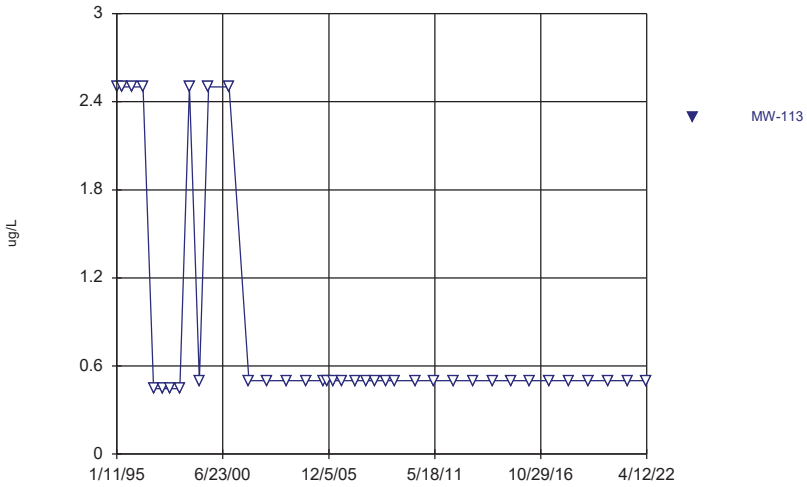


Constituent: 1,1-Dichloroethane Analysis Run 5/3/2022 10:43 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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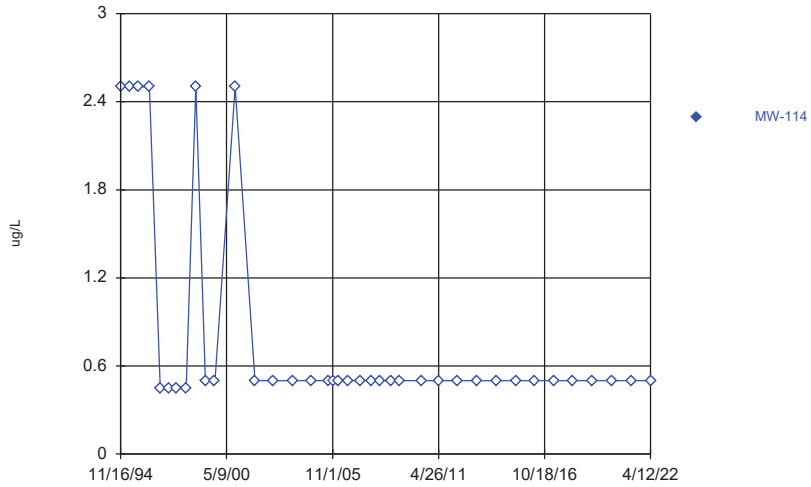
Time Series




Constituent: 1,1-Dichloroethane Analysis Run 5/3/2022 10:43 AM View: WTU Time Series
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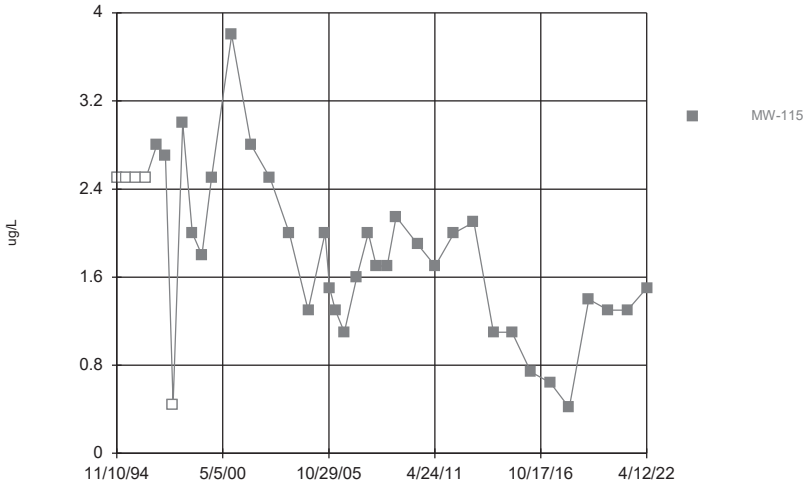
Time Series

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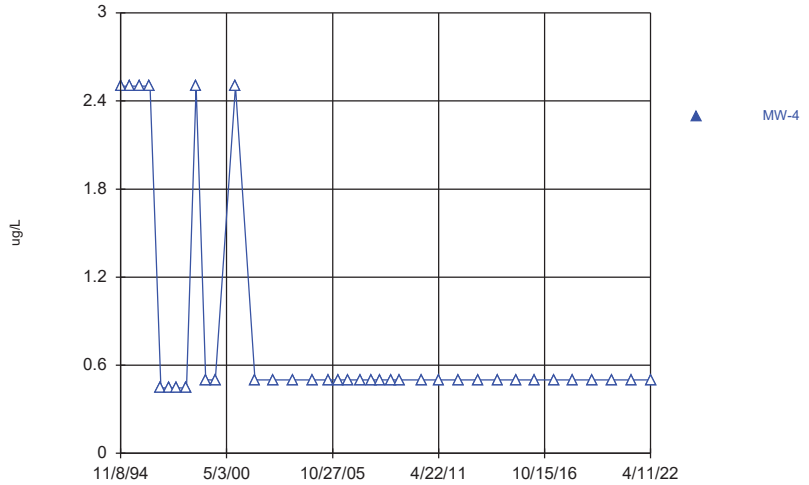


Constituent: 1,1-Dichloroethane Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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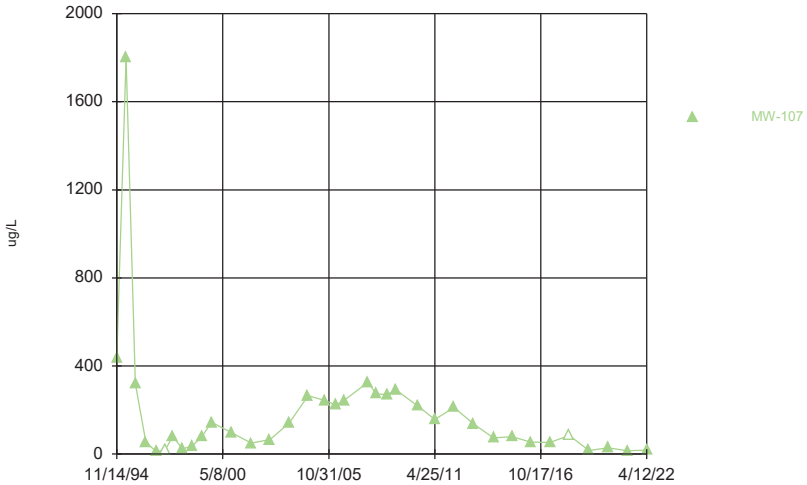
Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series

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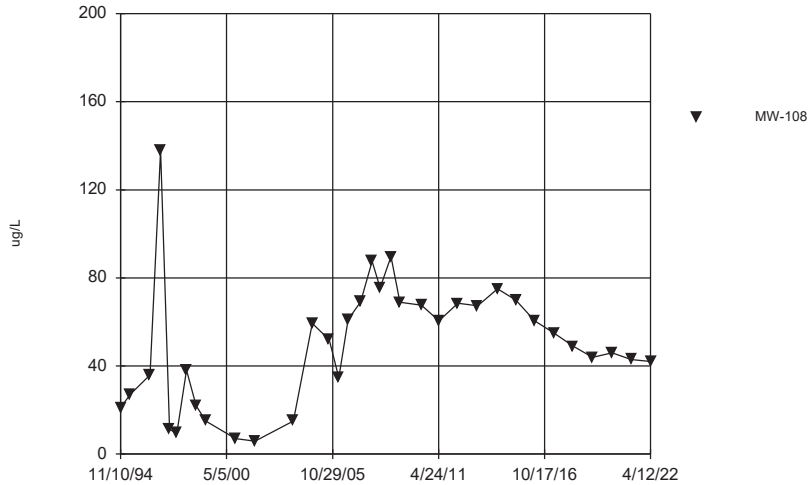


Constituent: 1,2-Dichloroethane Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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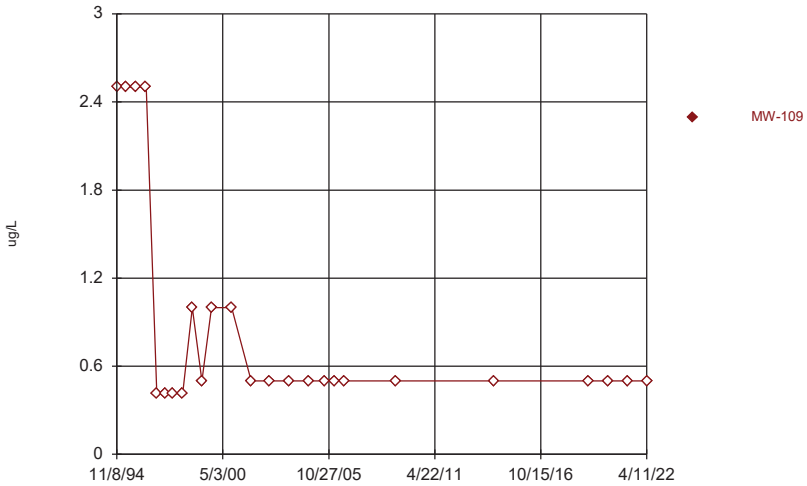
## Time Series




Constituent: 1,2-Dichloroethane Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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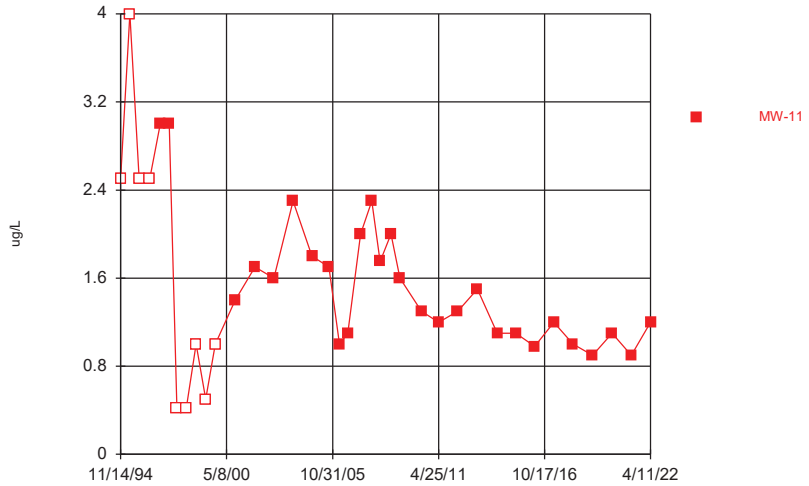
## Time Series

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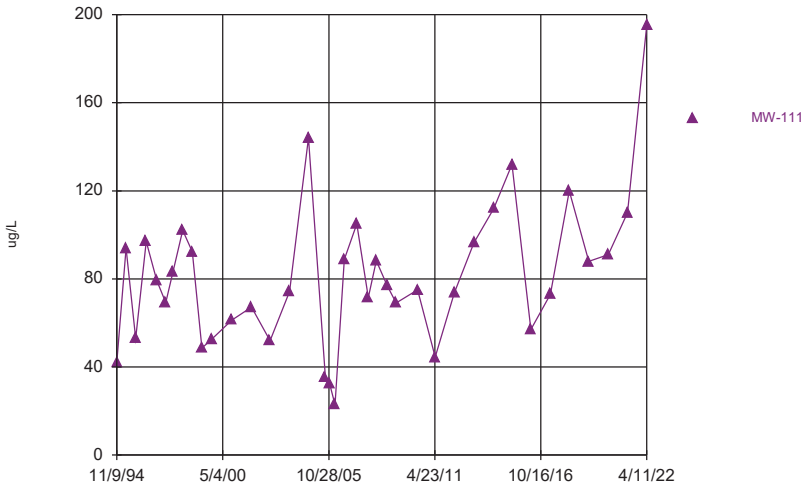
## Time Series

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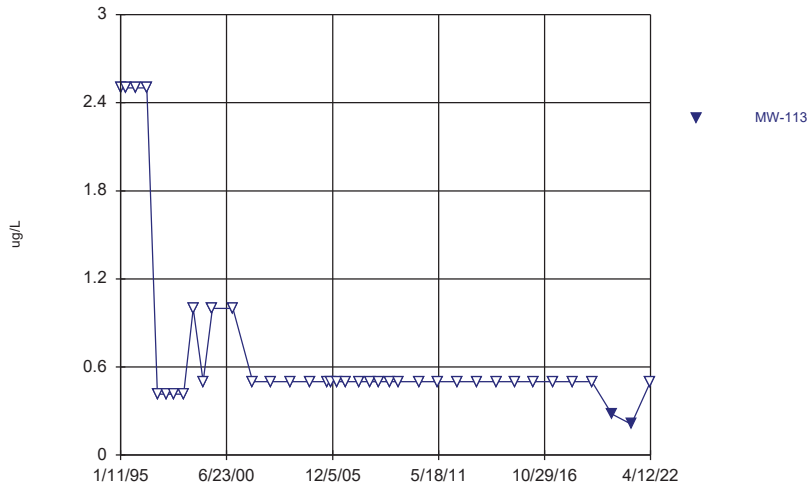


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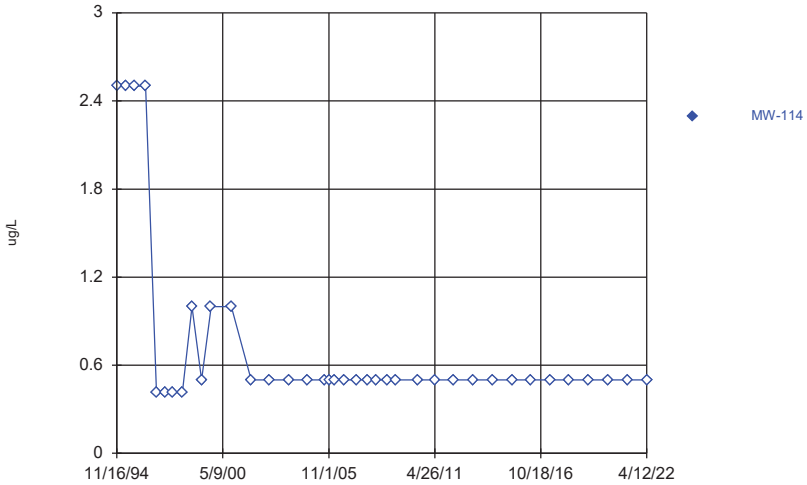


Constituent: 1,2-Dichloroethane Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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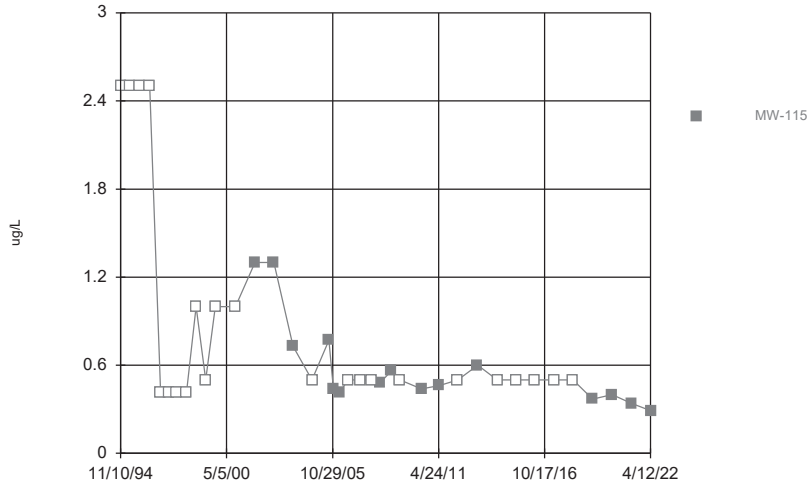


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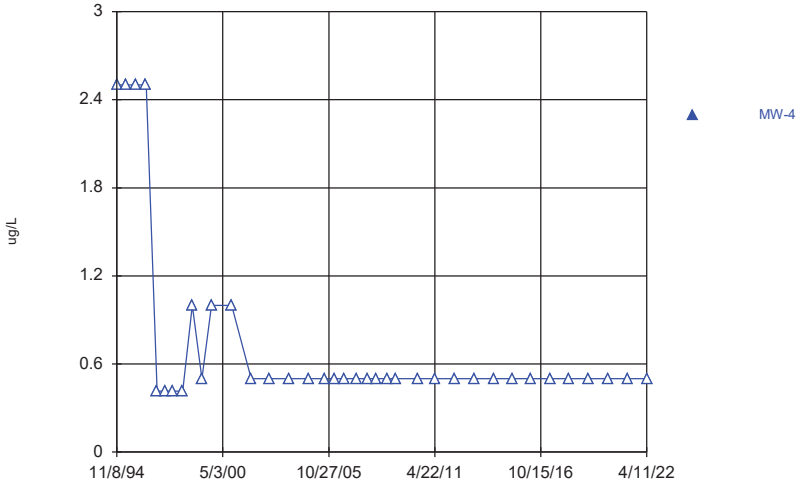


Constituent: 1,2-Dichloroethane Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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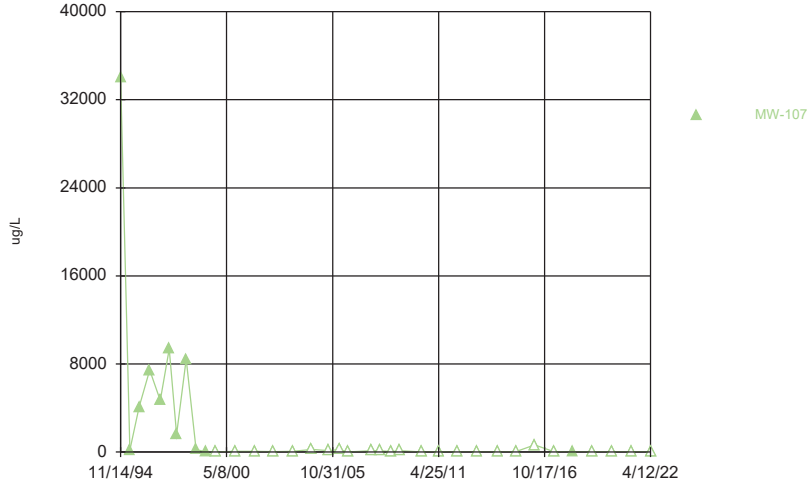


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Summit National Site Client: Summit National Site Data: Summit.National.Database

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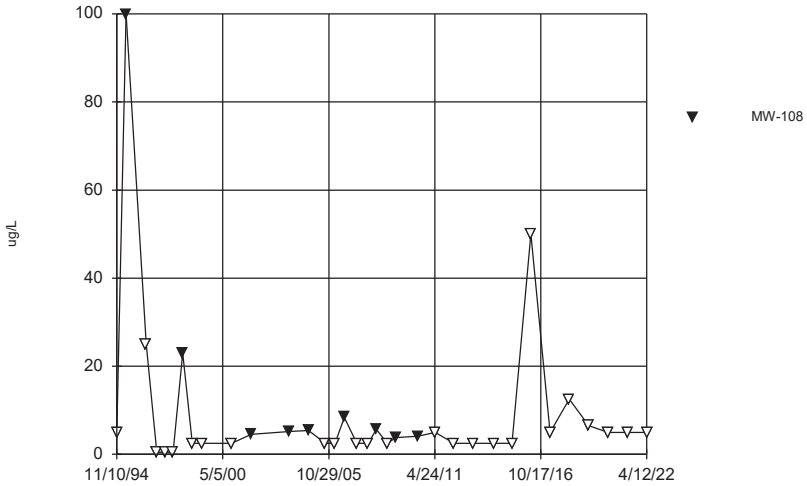


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Summit National Site Client: Summit National Site Data: Summit.National.Database

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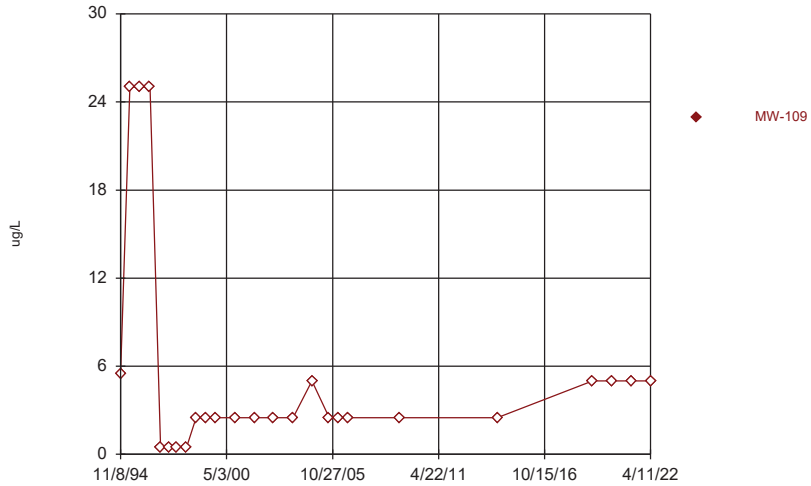


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Summit National Site Client: Summit National Site Data: Summit.National.Database

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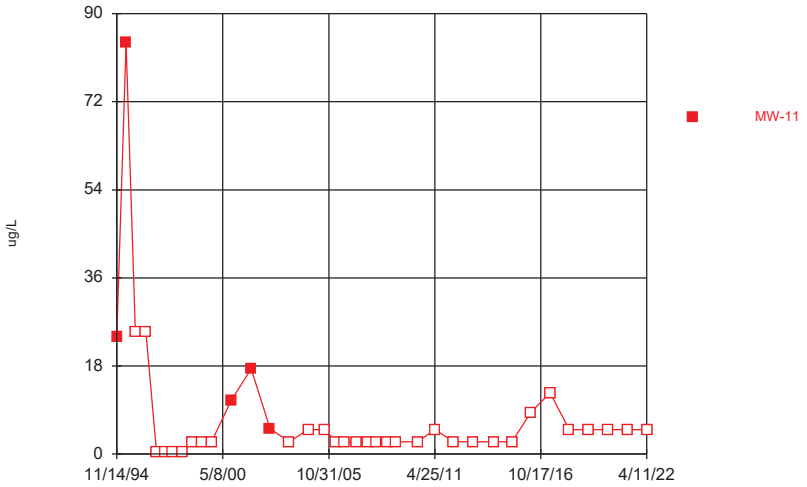
Time Series




Constituent: Acetone Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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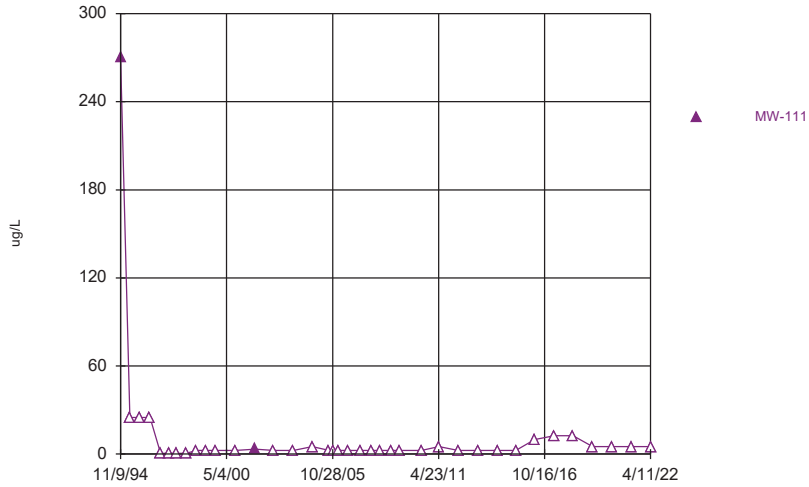
Time Series




Constituent: Acetone Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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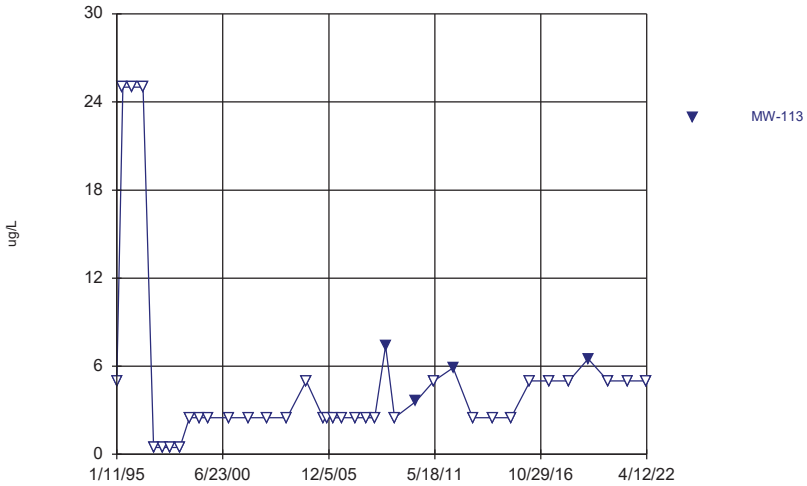
## Time Series




Constituent: Acetone Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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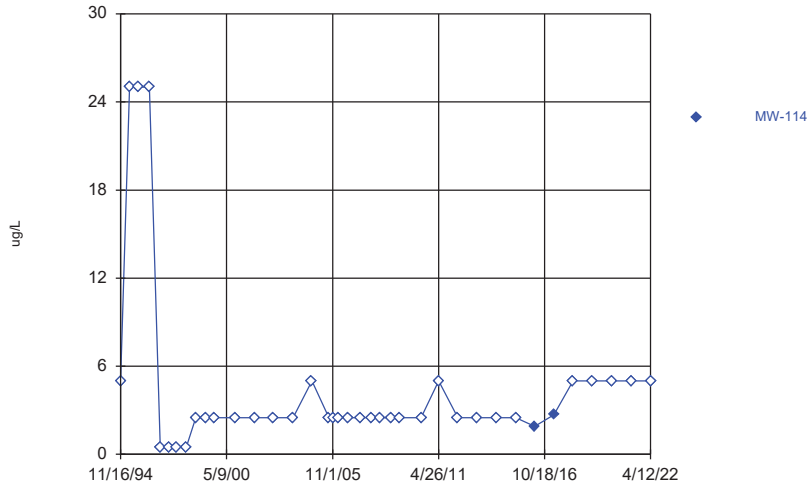
## Time Series




Constituent: Acetone Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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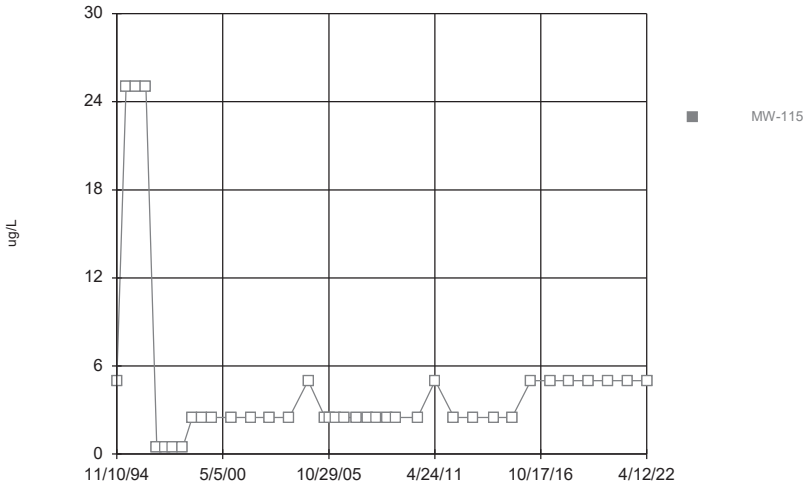


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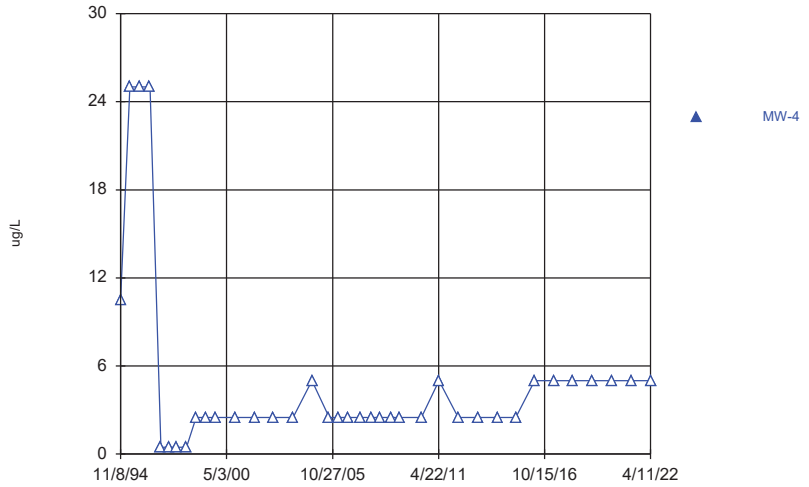
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Acetone Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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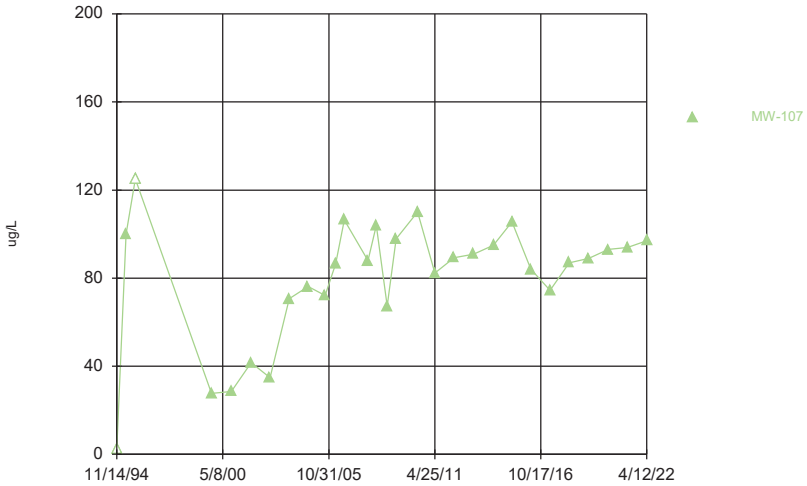
Hollow symbols indicate censored values.

## Time Series




Constituent: Benzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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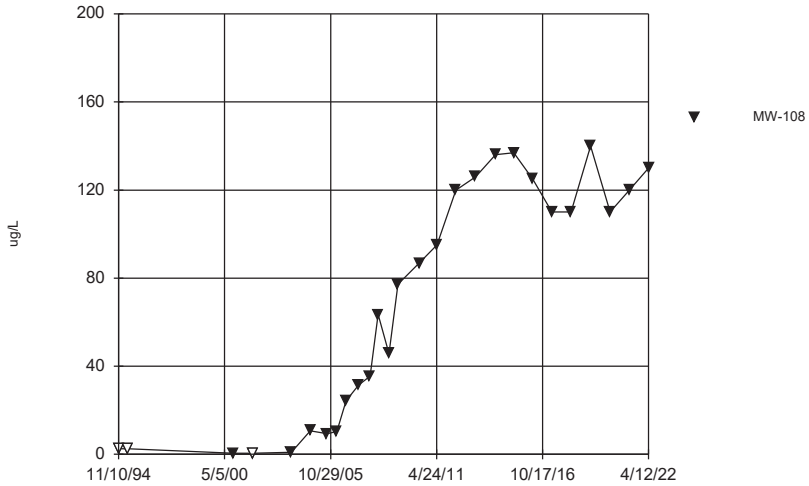


Constituent: Benzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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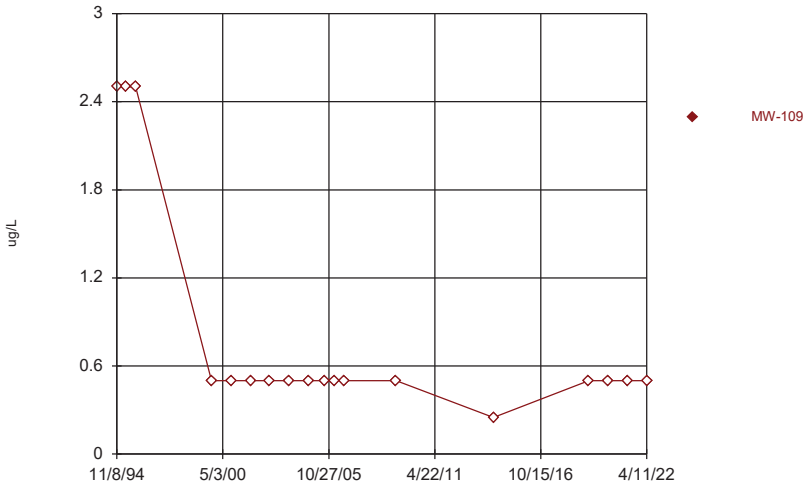
Hollow symbols indicate censored values.

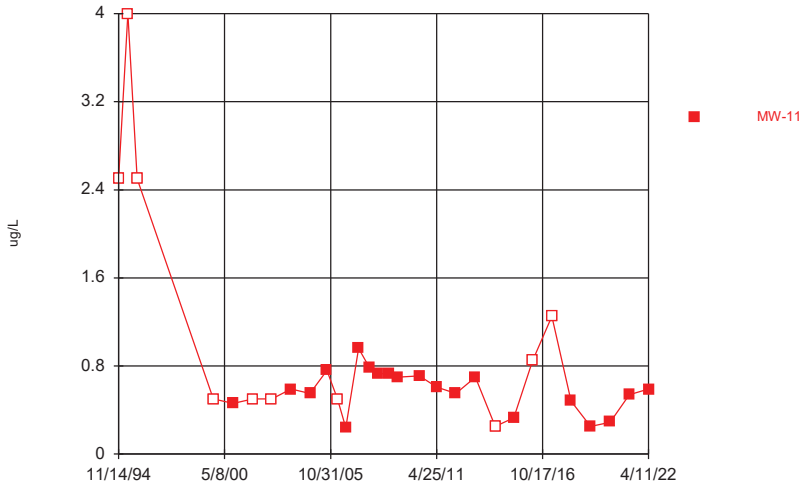
## Time Series




Constituent: Benzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

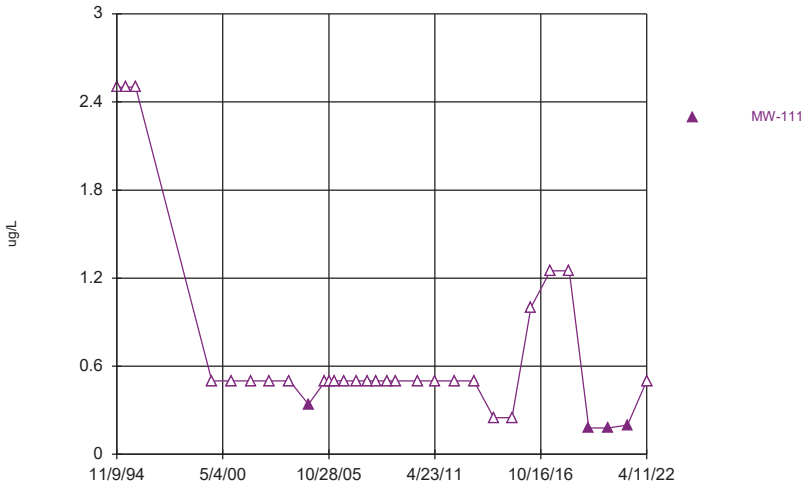
## Time Series




Constituent: Benzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Benzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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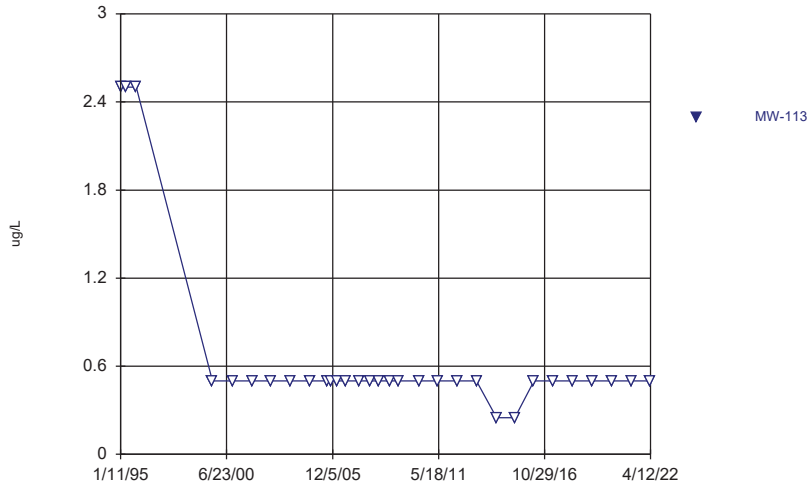


Constituent: Benzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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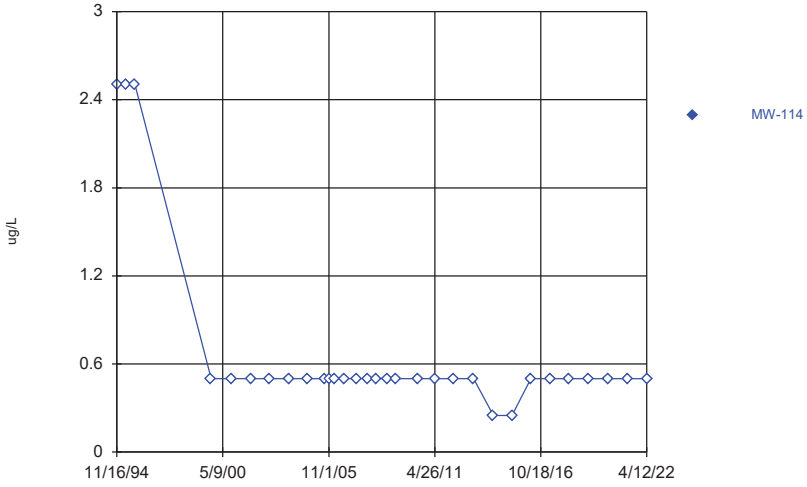
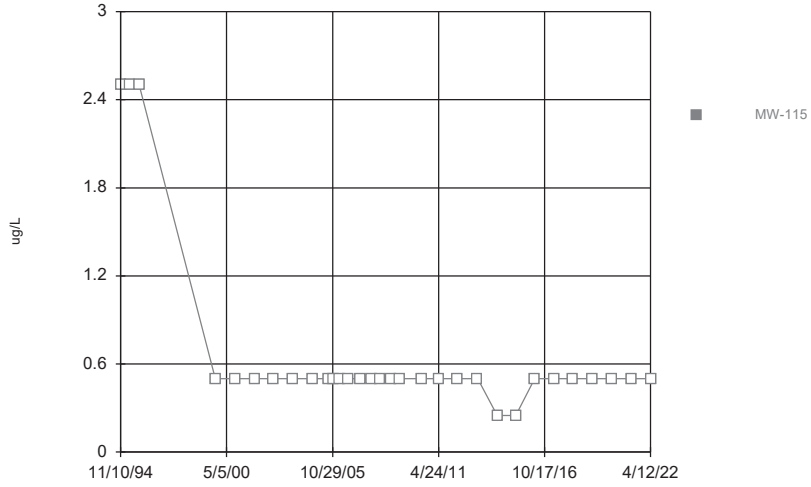



Constituent: Benzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Benzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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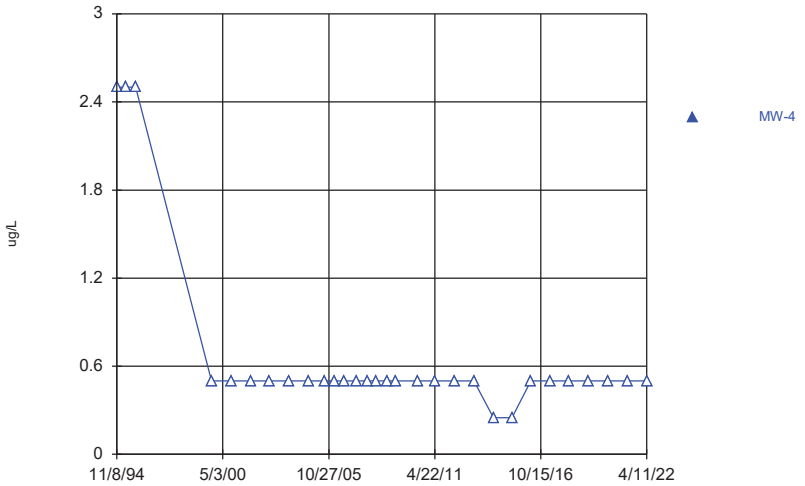


Constituent: Benzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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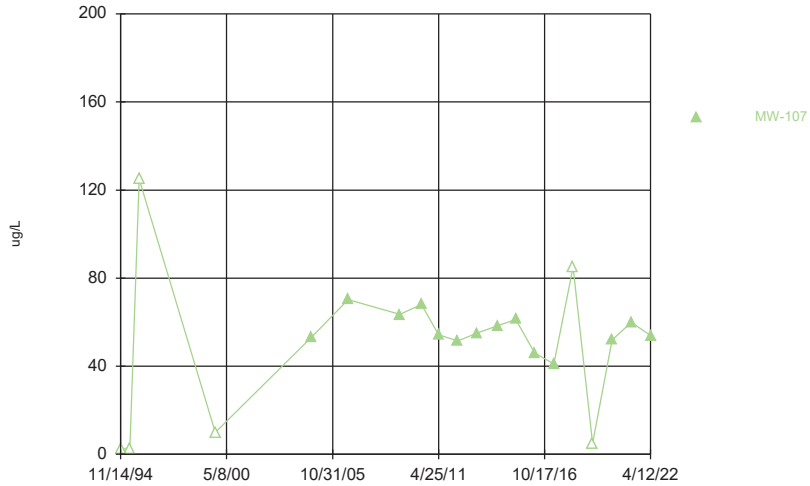
Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

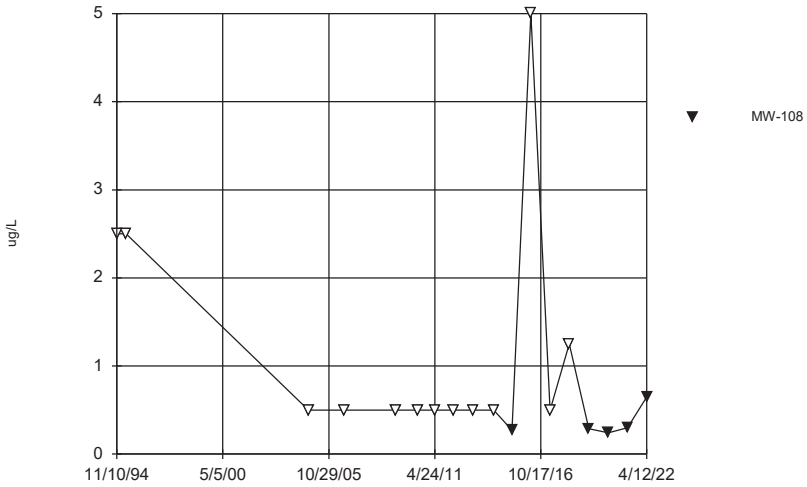
## Time Series




Constituent: Chlorobenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Chlorobenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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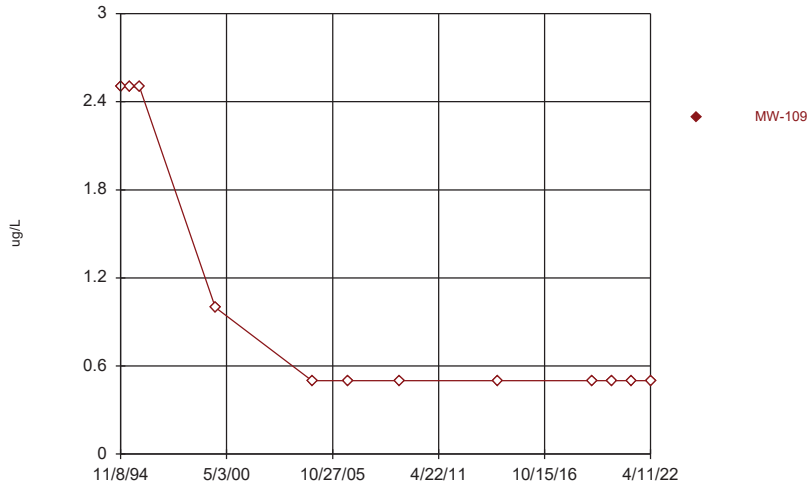
## Time Series




Constituent: Chlorobenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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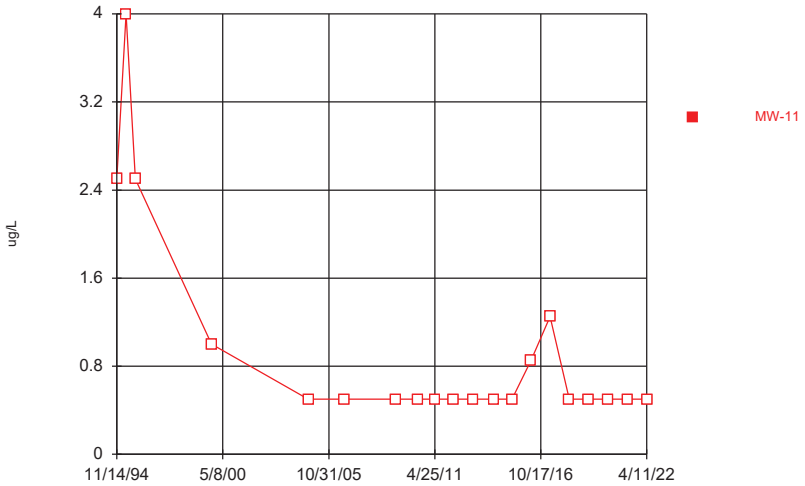
Hollow symbols indicate censored values.

## Time Series




Constituent: Chlorobenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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Hollow symbols indicate censored values.

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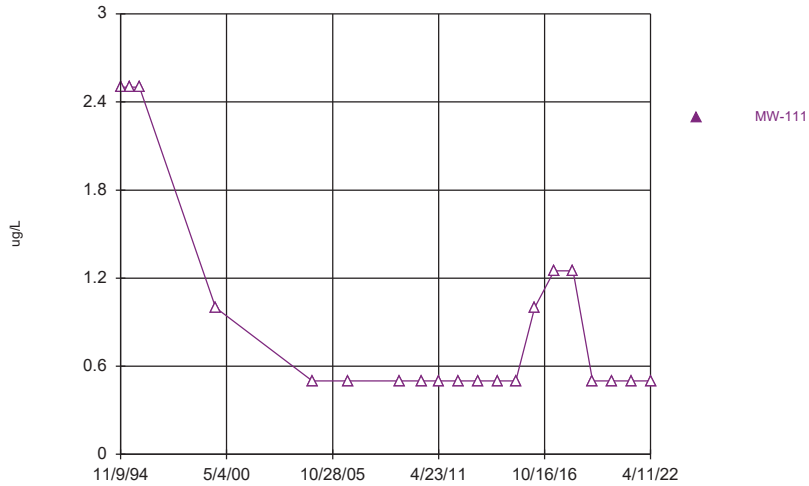
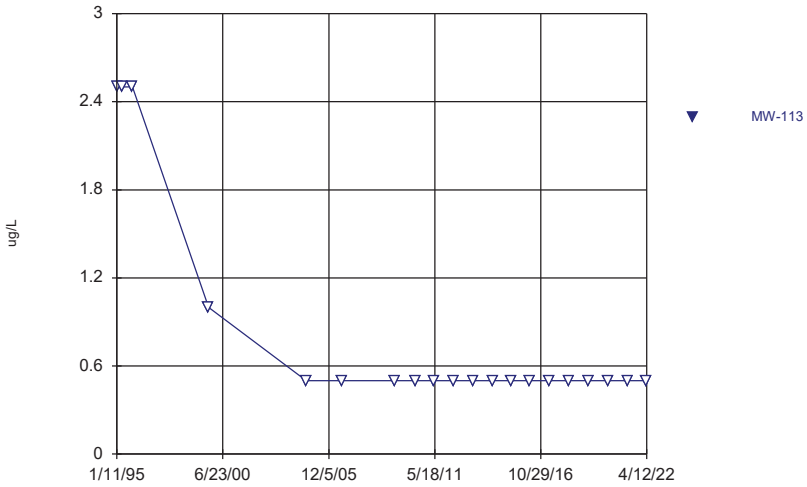



Constituent: Chlorobenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Chlorobenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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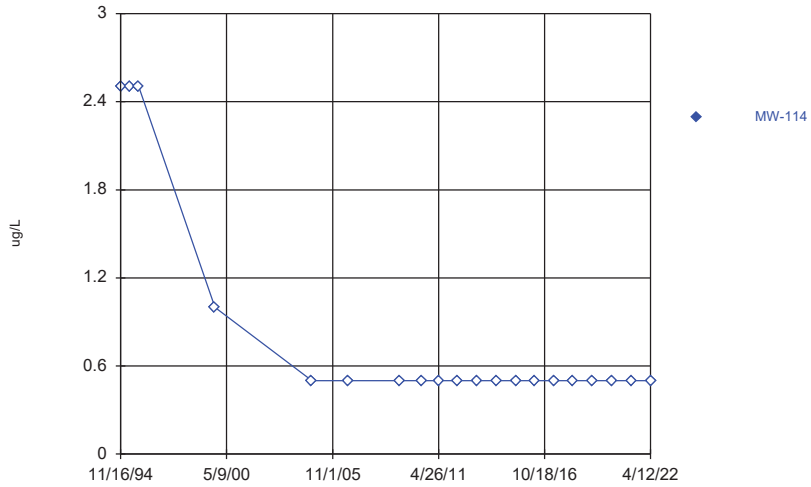


Constituent: Chlorobenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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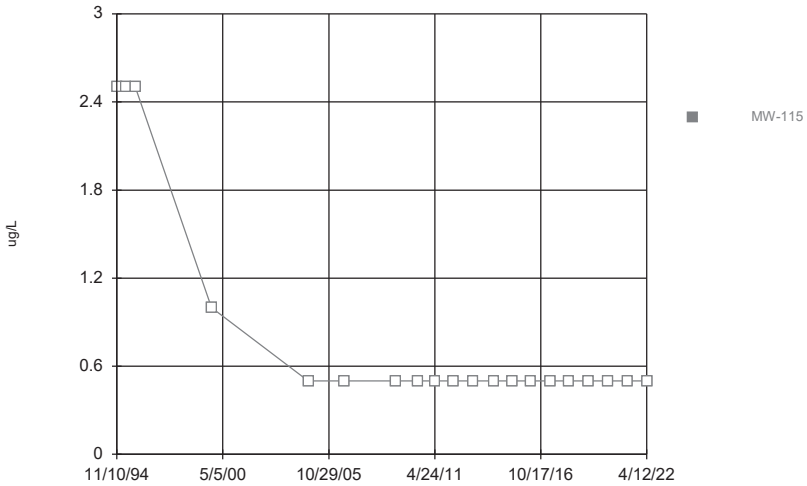
Hollow symbols indicate censored values.

## Time Series




Constituent: Chlorobenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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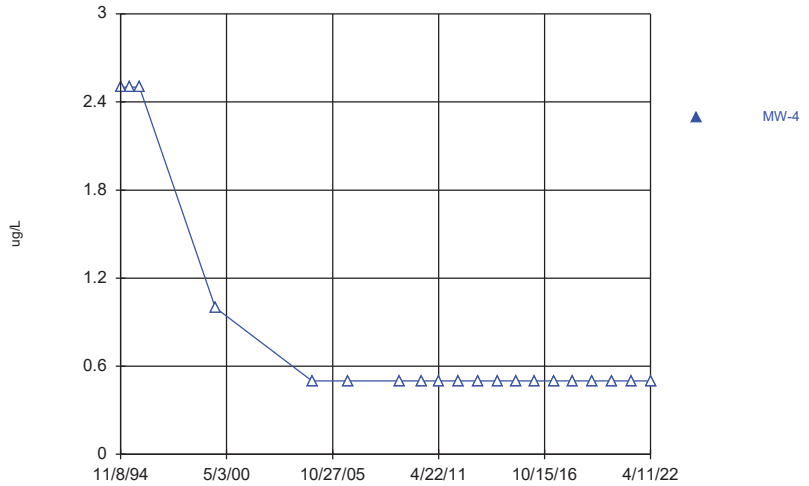


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Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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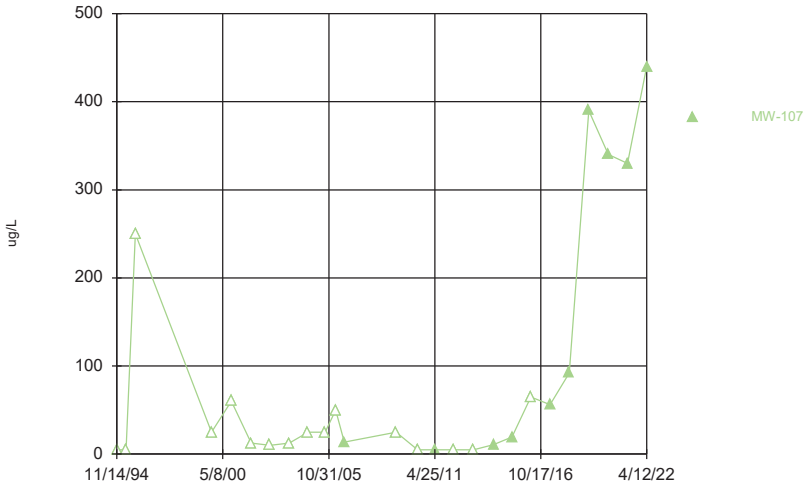


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Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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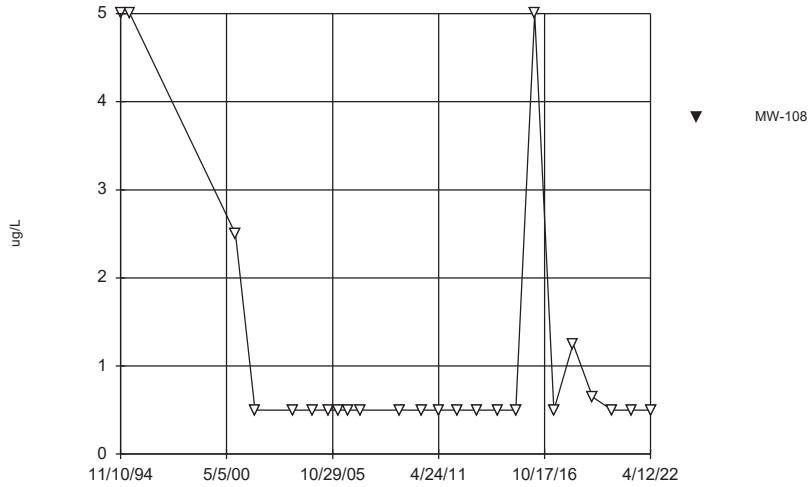
## Time Series




Constituent: Chloroethane Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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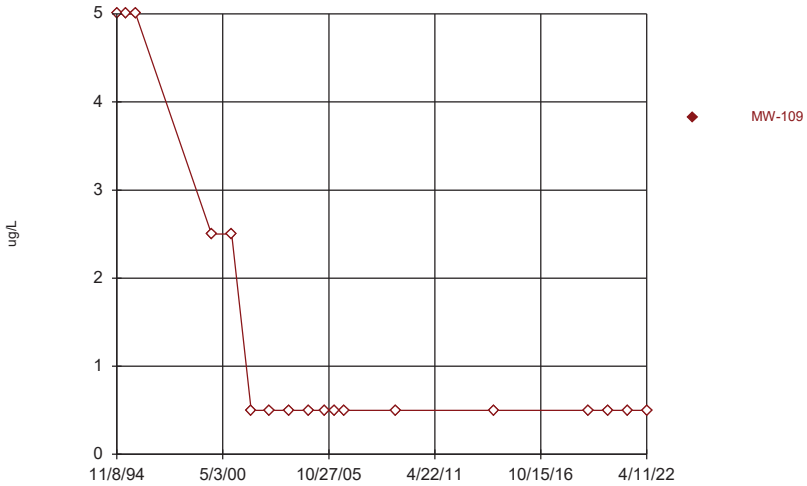


Constituent: Chloroethane Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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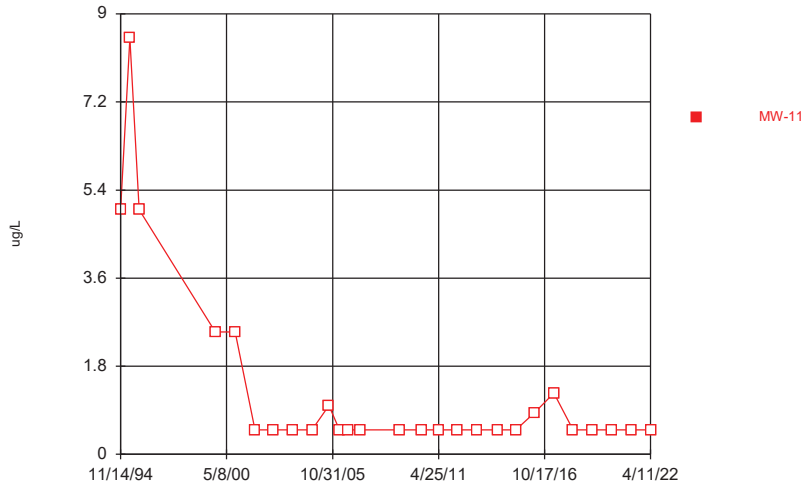
## Time Series




Constituent: Chloroethane Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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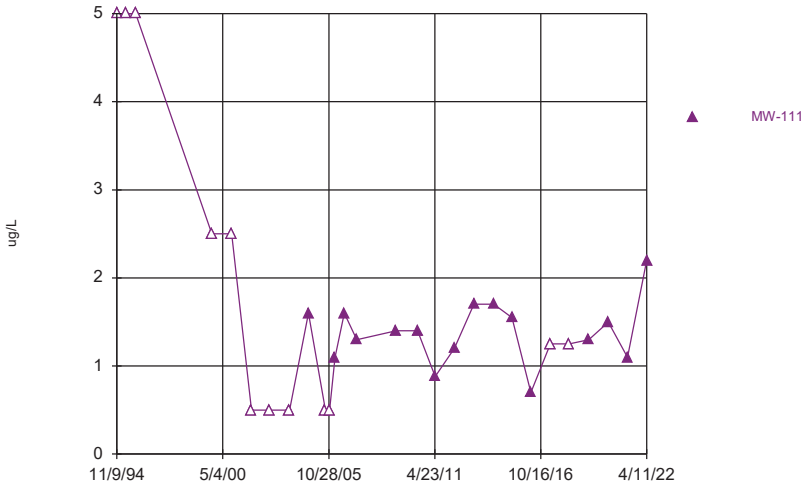
## Time Series




Constituent: Chloroethane Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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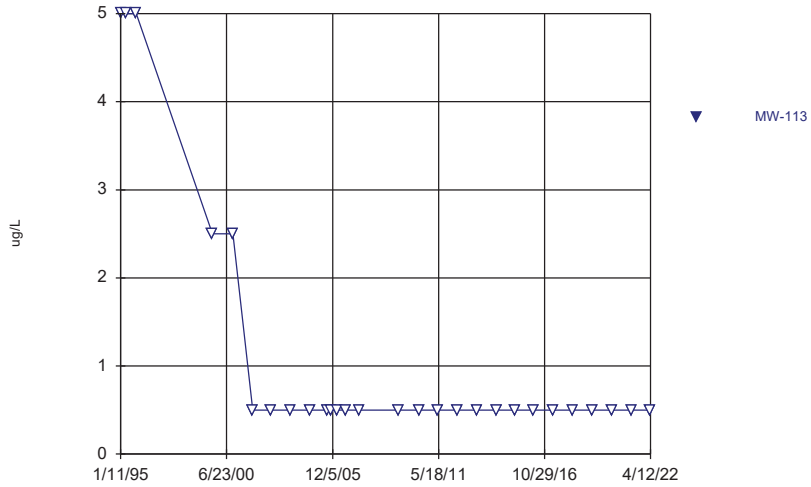
Hollow symbols indicate censored values.

## Time Series




Constituent: Chloroethane Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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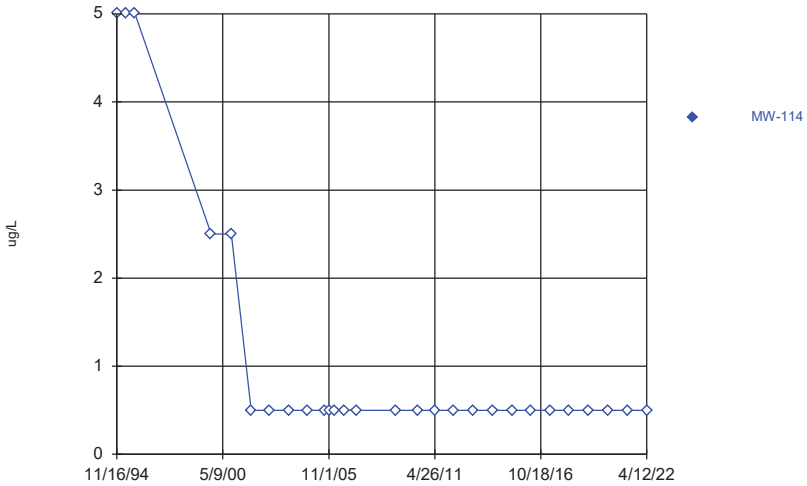
## Time Series




Constituent: Chloroethane Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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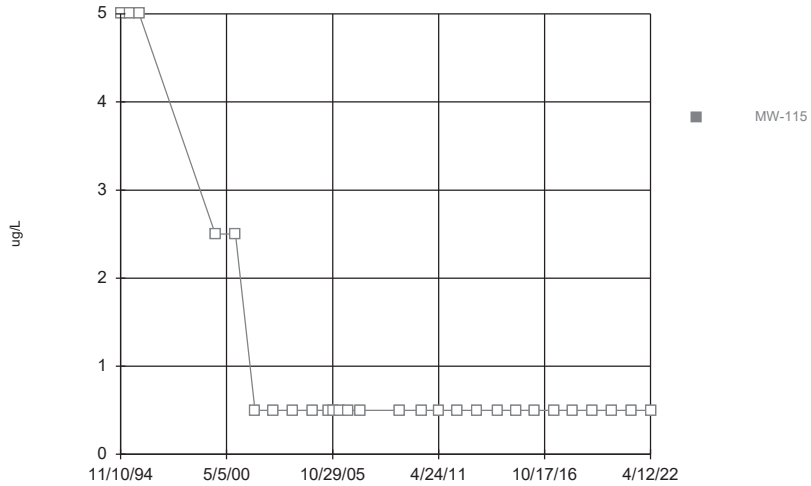
## Time Series




Constituent: Chloroethane Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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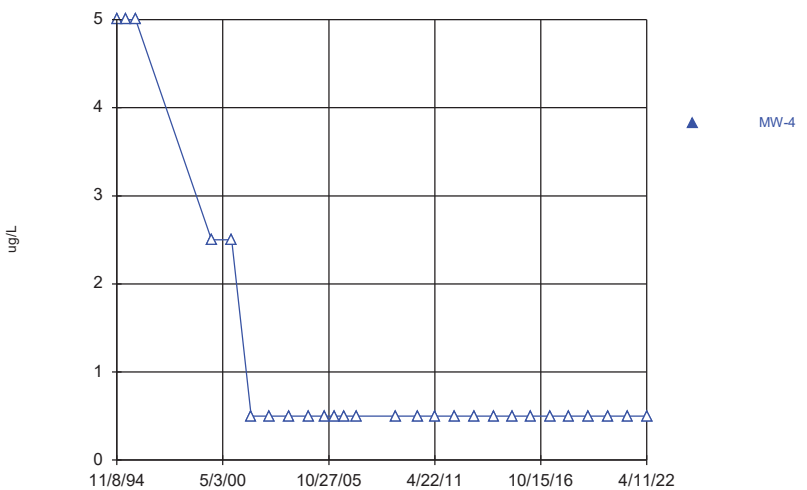
## Time Series




Constituent: Chloroethane Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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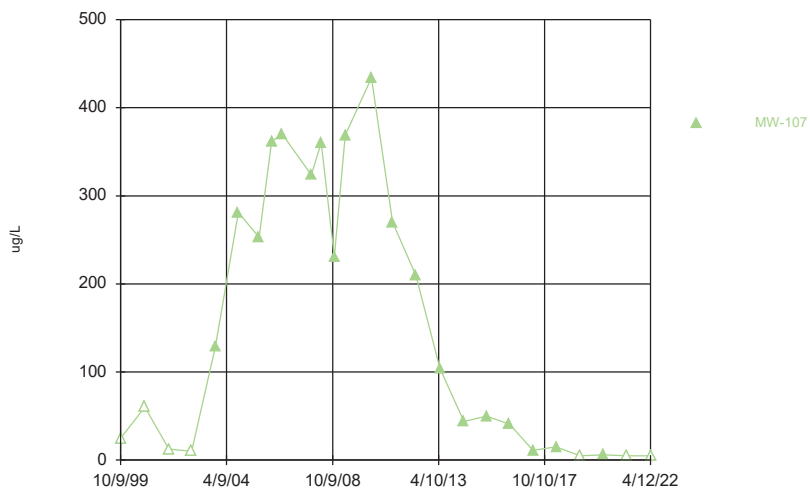
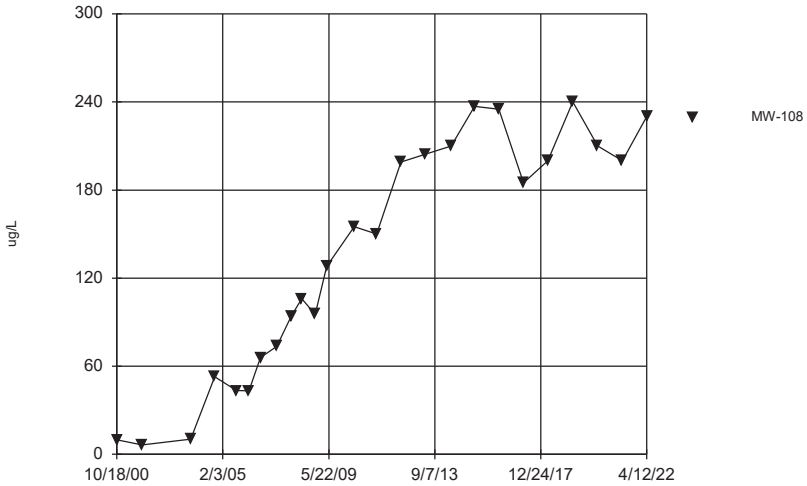
## Time Series




Constituent: cis-1,2-Dichloroethene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

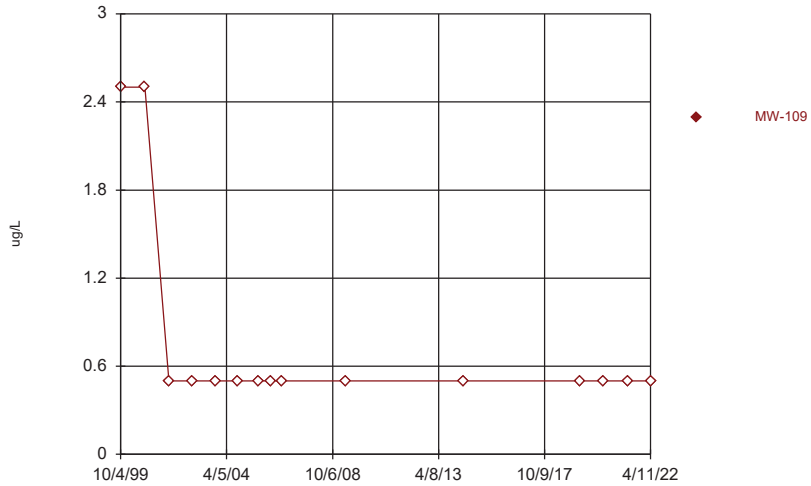
## Time Series




Constituent: cis-1,2-Dichloroethene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database


Hollow symbols indicate censored values.

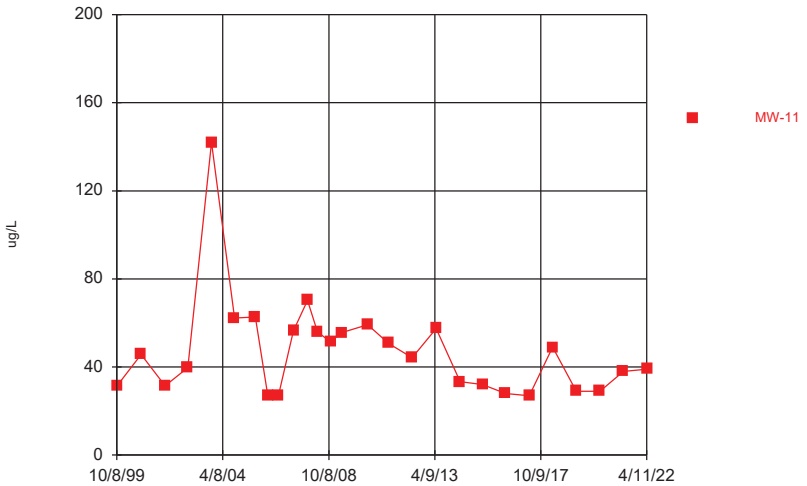
## Time Series




Constituent: cis-1,2-Dichloroethene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database



## Time Series




Constituent: cis-1,2-Dichloroethene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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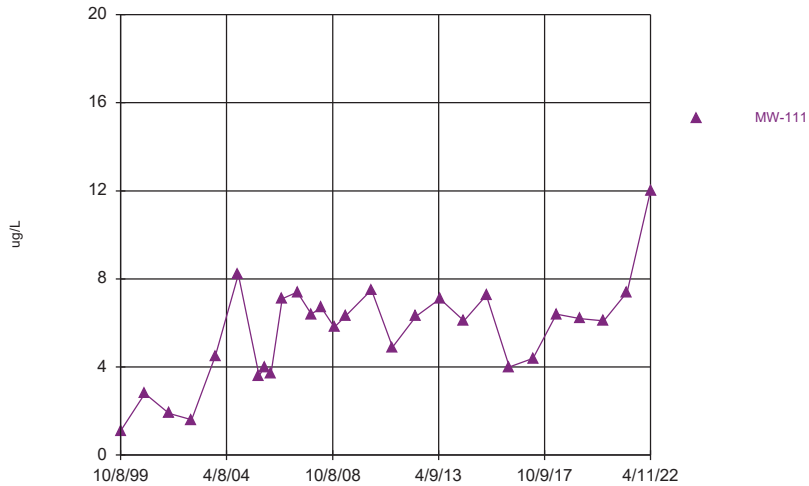
## Time Series




Constituent: cis-1,2-Dichloroethene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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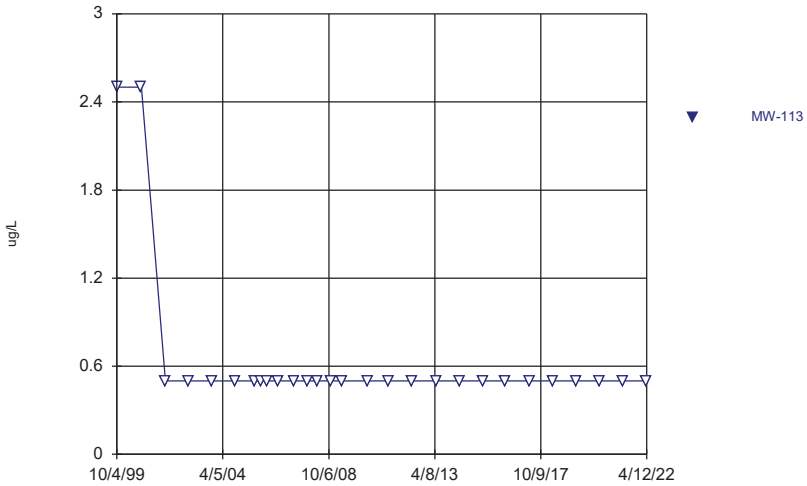


Constituent: cis-1,2-Dichloroethene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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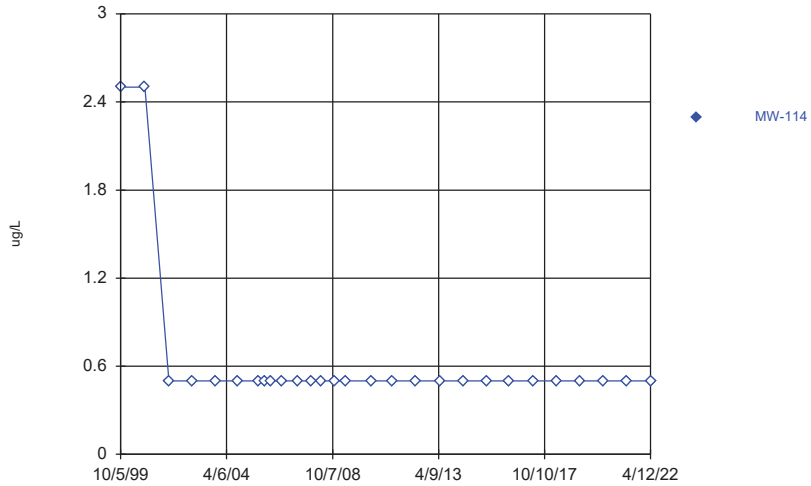
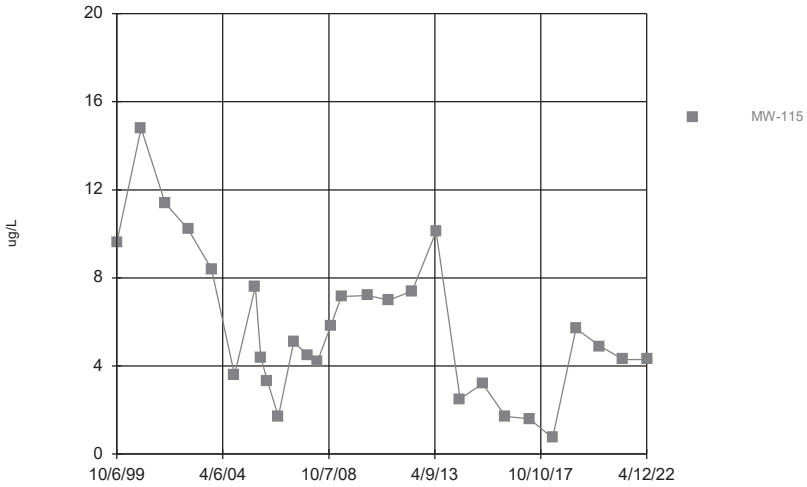



Constituent: cis-1,2-Dichloroethene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG

## Time Series




Constituent: cis-1,2-Dichloroethene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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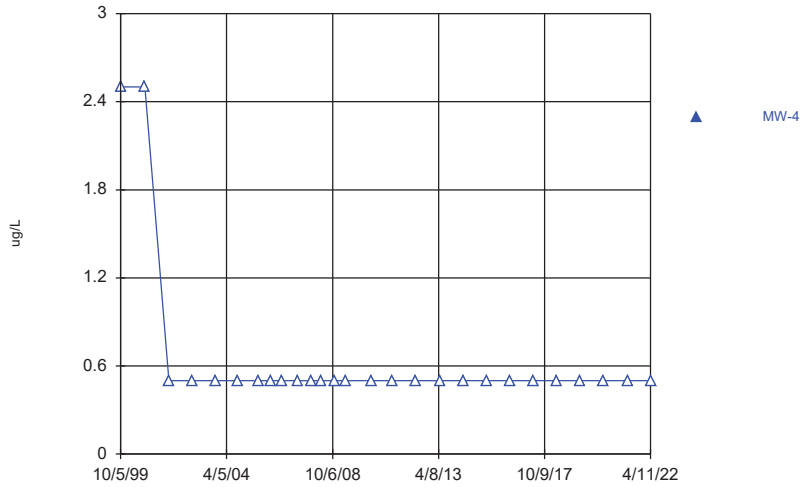
## Time Series




Constituent: cis-1,2-Dichloroethene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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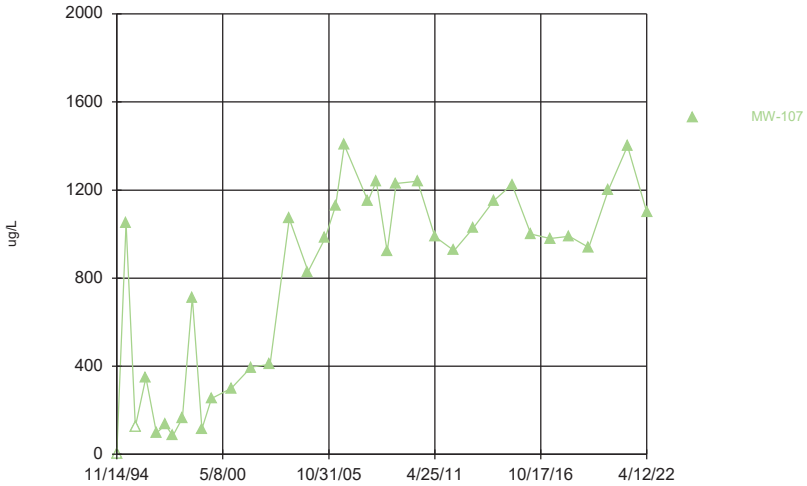
## Time Series




Constituent: Ethylbenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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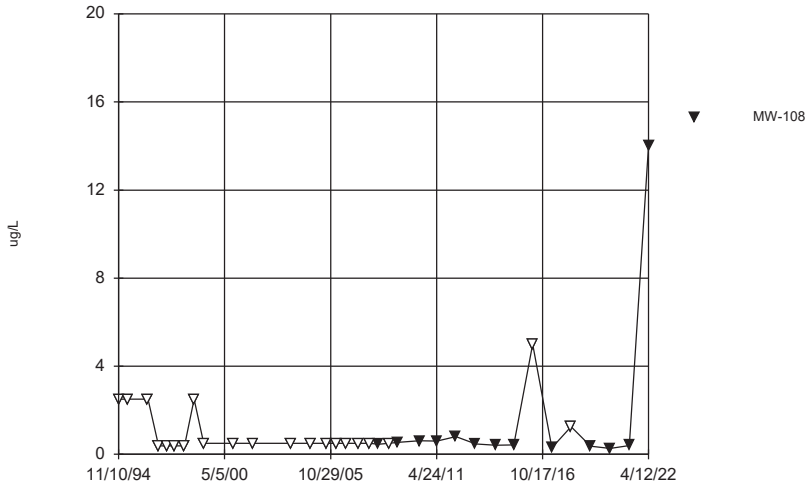
Hollow symbols indicate censored values.

## Time Series




Constituent: Ethylbenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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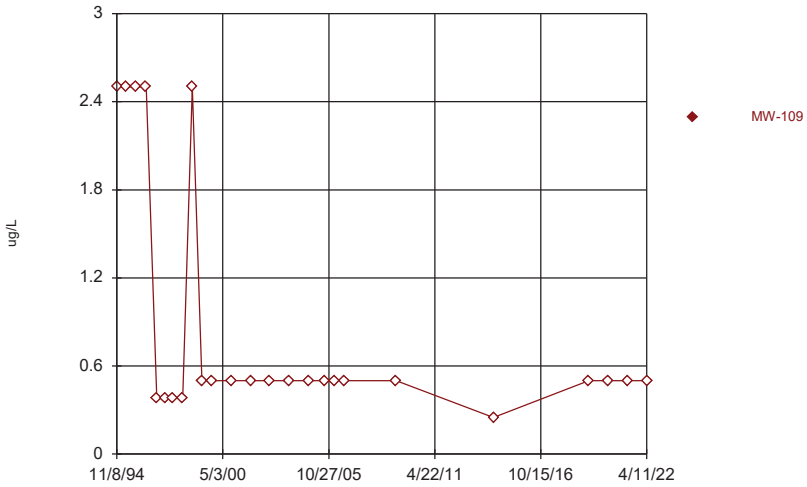
Hollow symbols indicate censored values.

## Time Series




Constituent: Ethylbenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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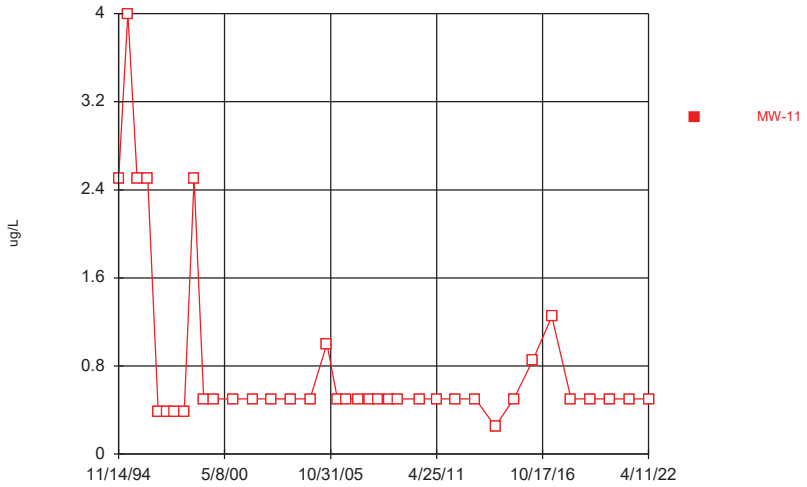


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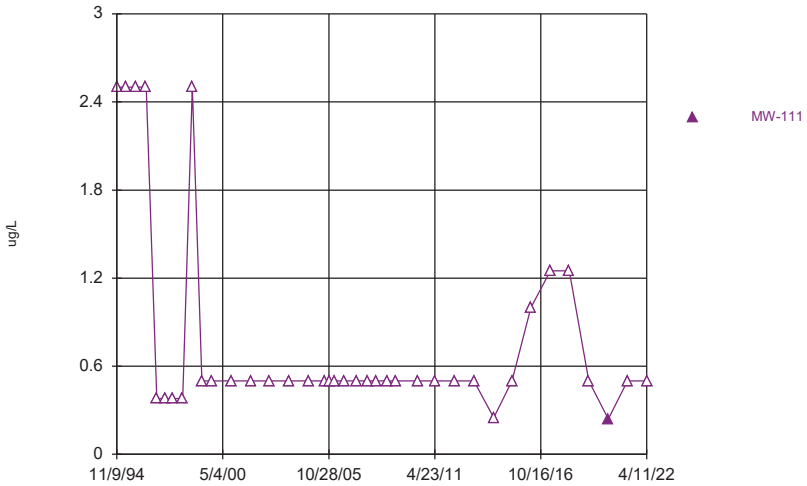


Constituent: Ethylbenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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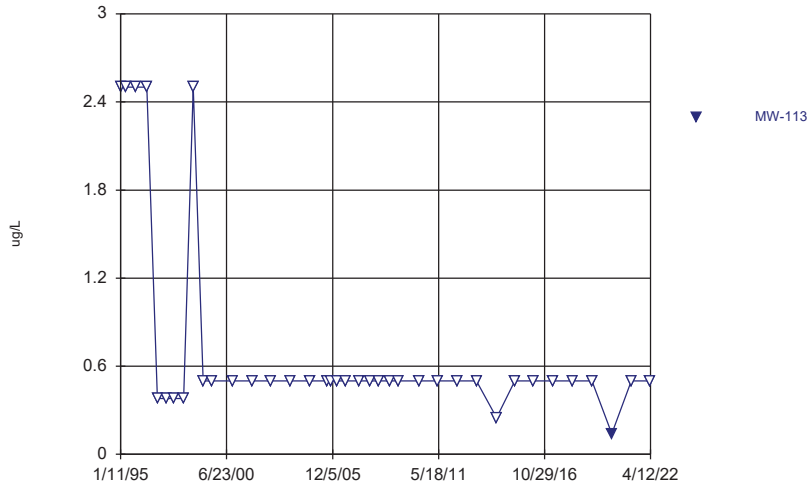


Constituent: Ethylbenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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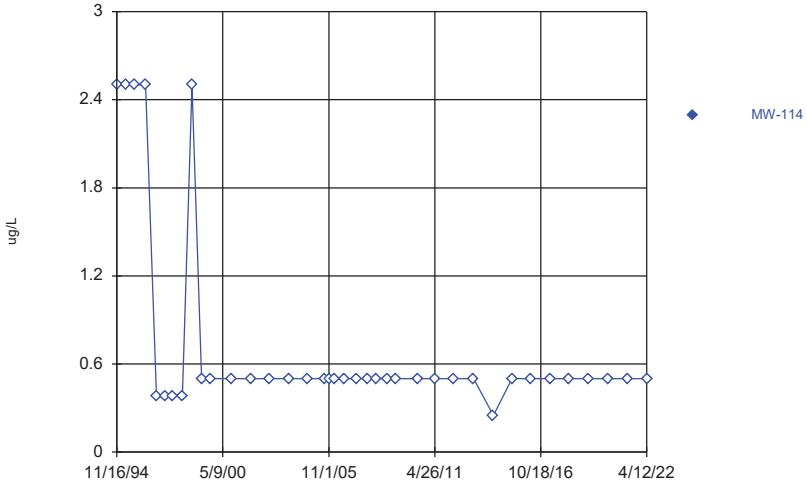


Constituent: Ethylbenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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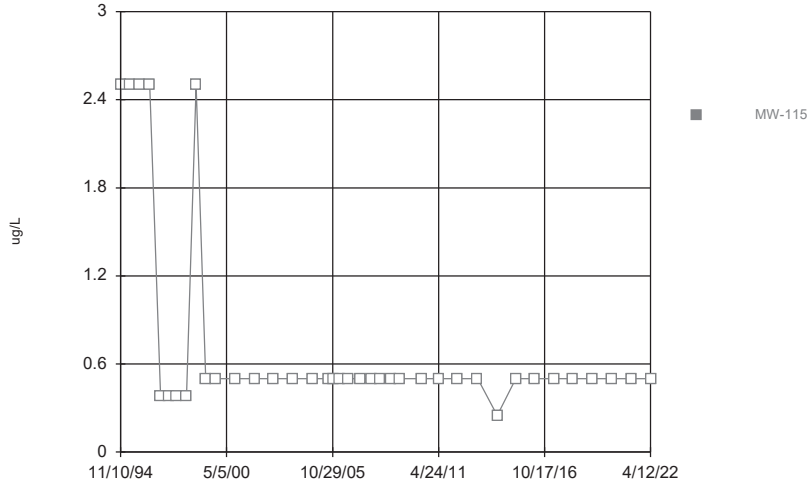


Constituent: Ethylbenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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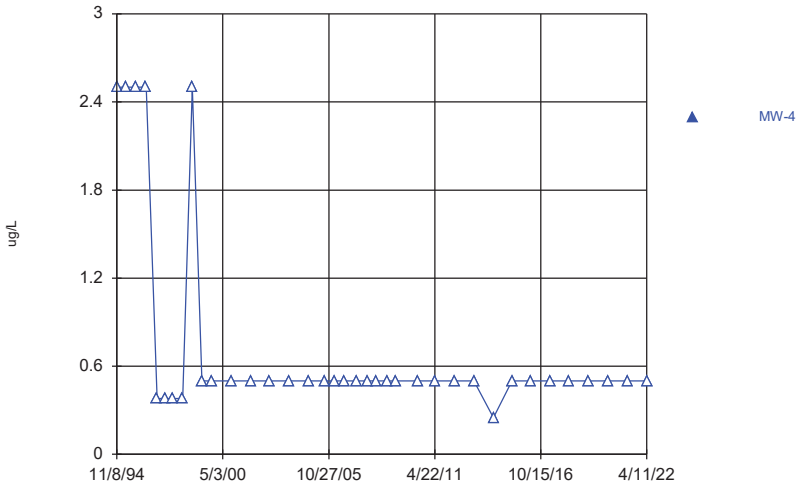


Constituent: Ethylbenzene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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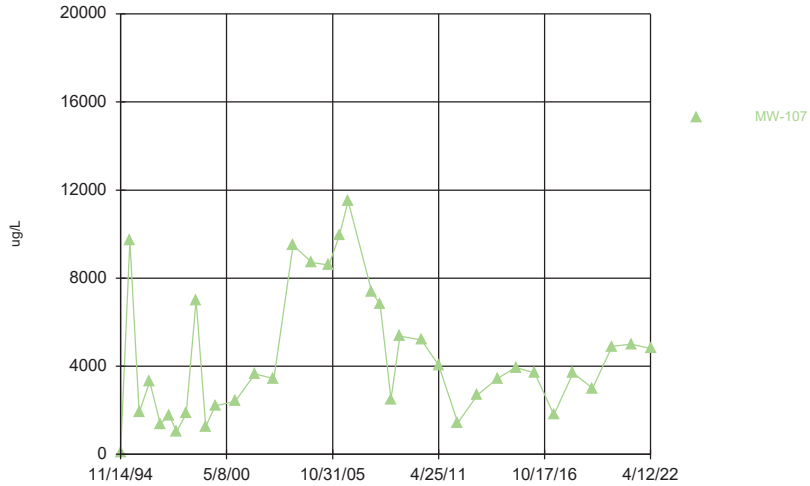


Constituent: Toluene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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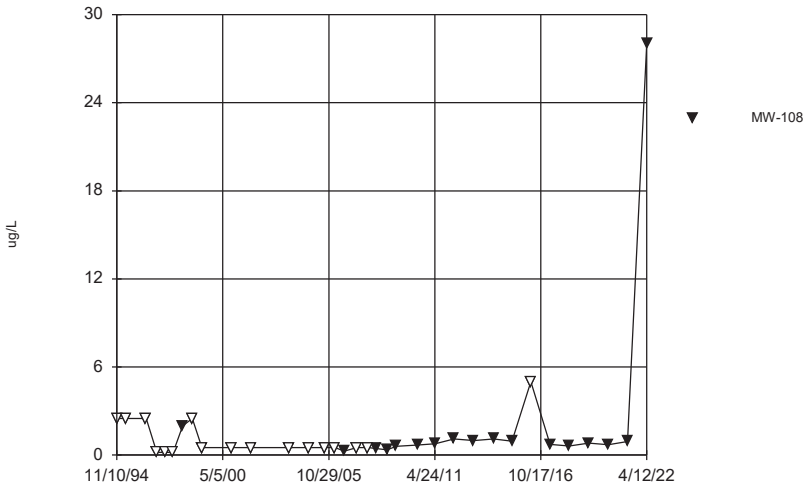


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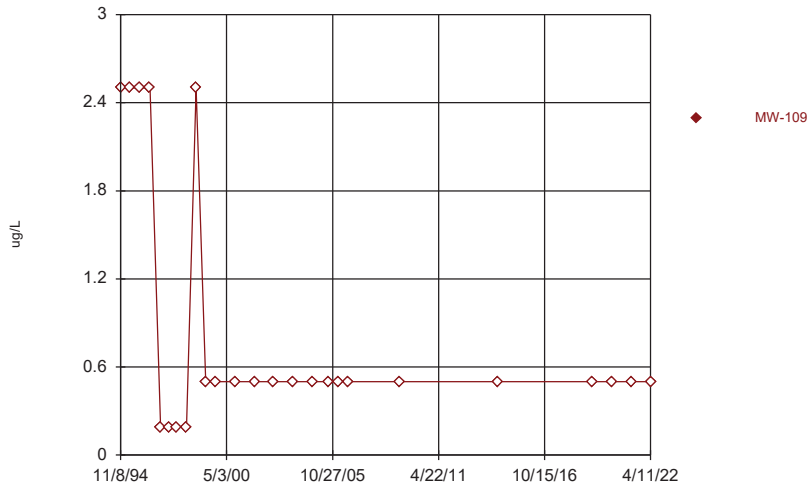


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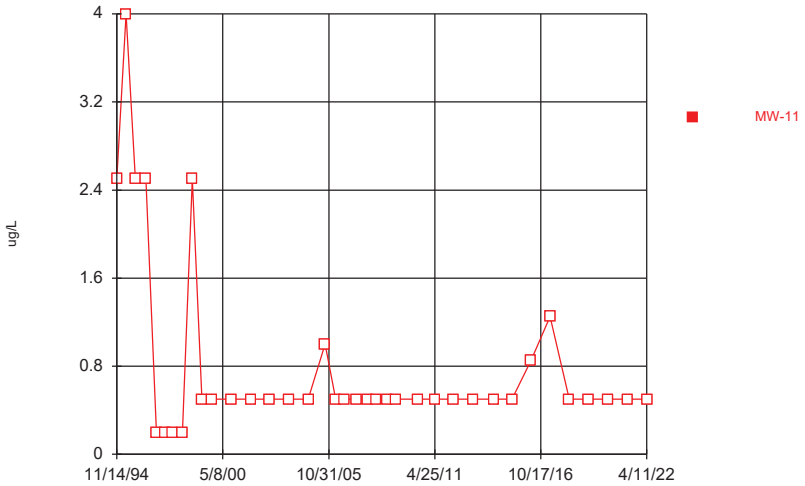


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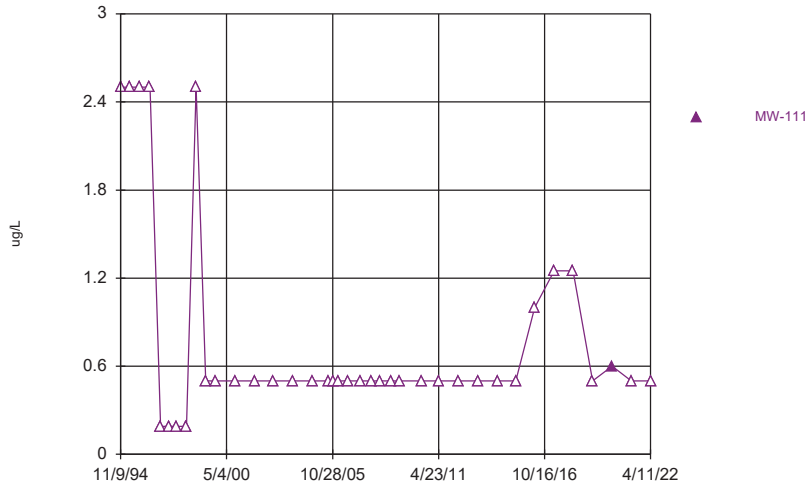


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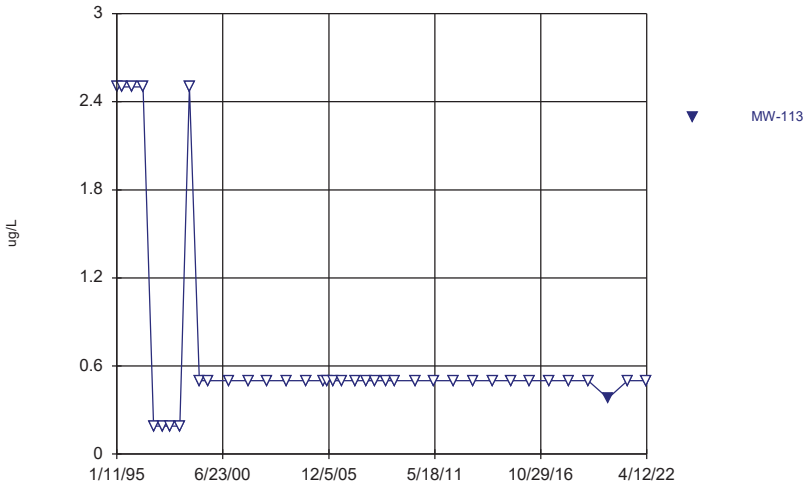


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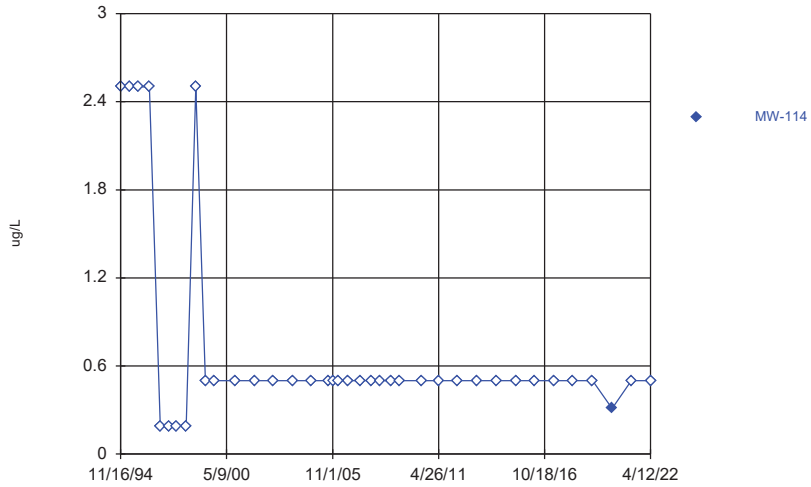


Constituent: Toluene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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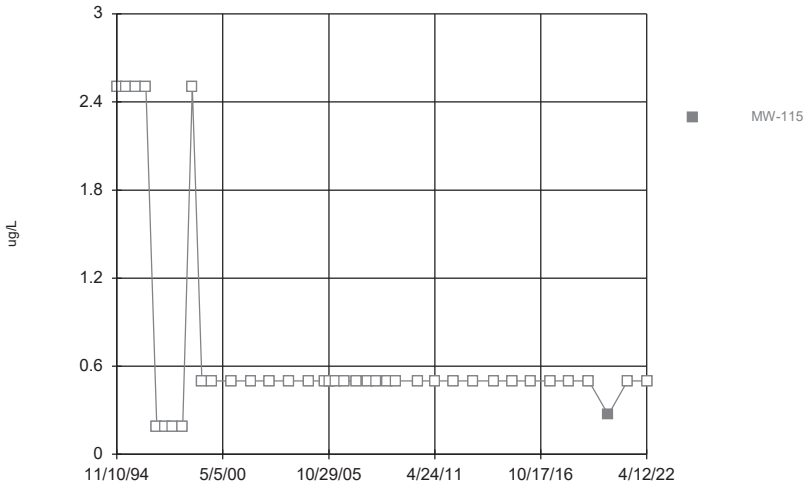


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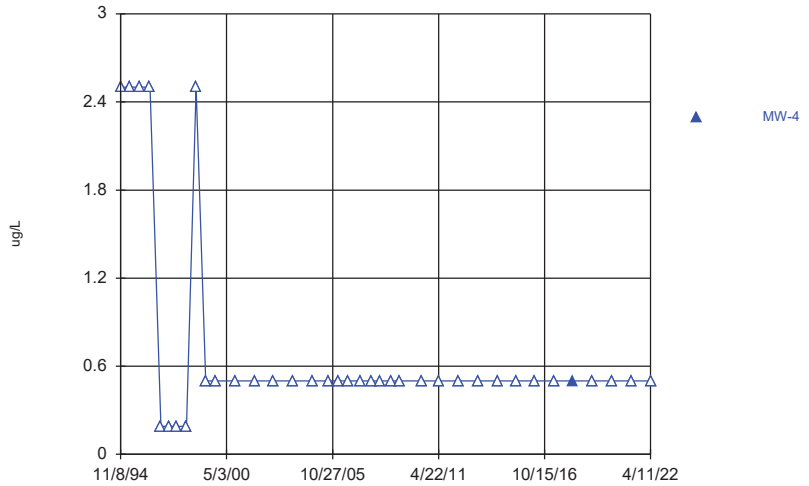


Constituent: Toluene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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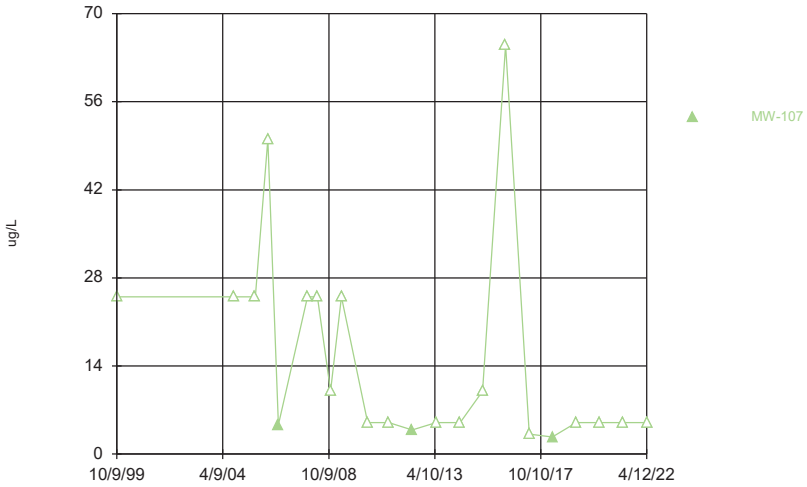


Constituent: trans-1,2-Dichloroethene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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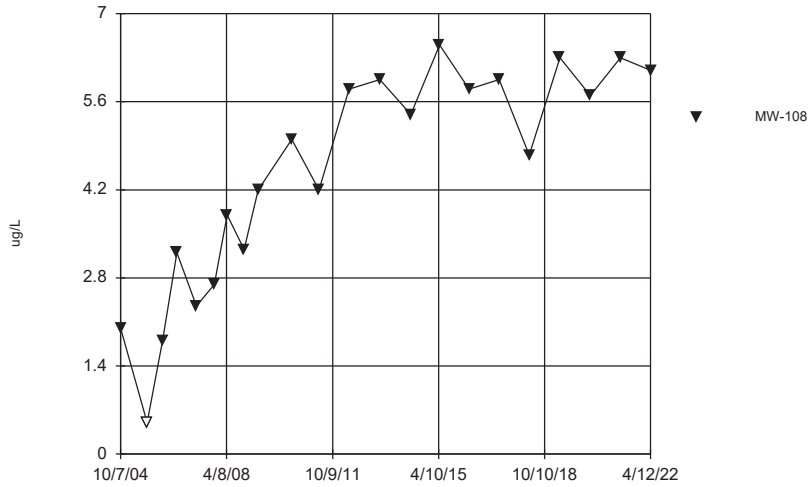


Constituent: trans-1,2-Dichloroethene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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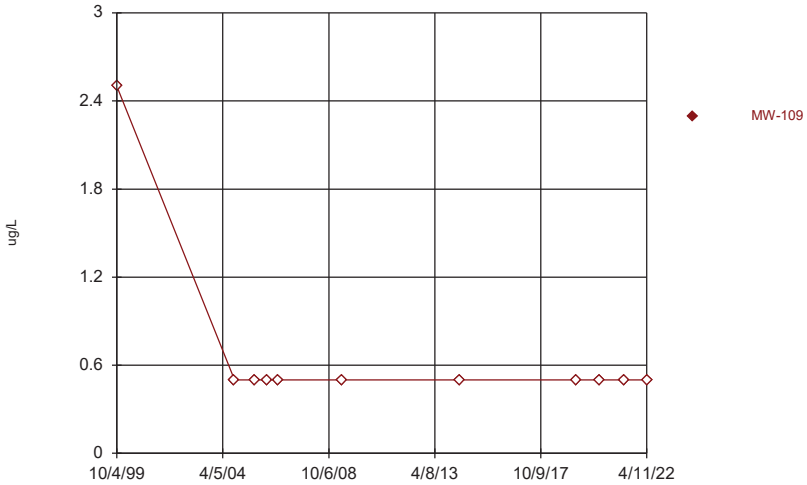
Time Series




Constituent: trans-1,2-Dichloroethene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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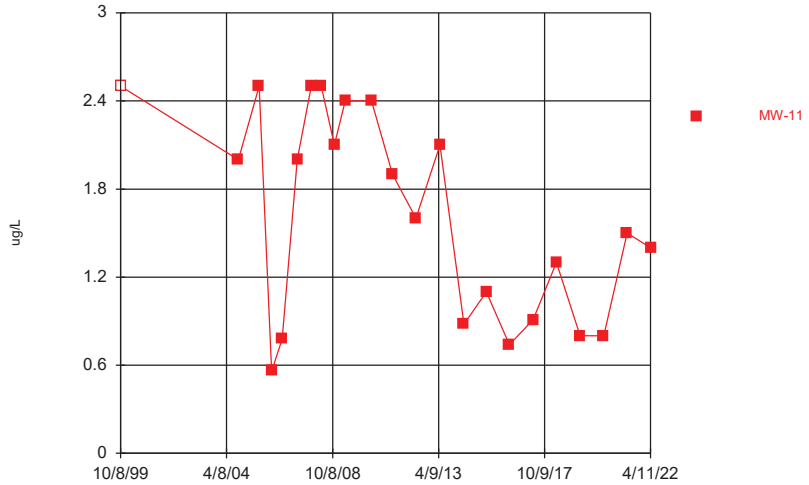


Constituent: trans-1,2-Dichloroethene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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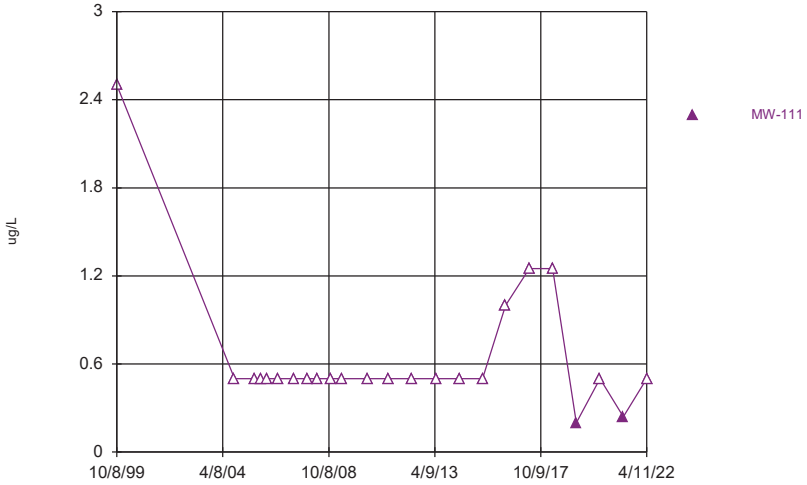


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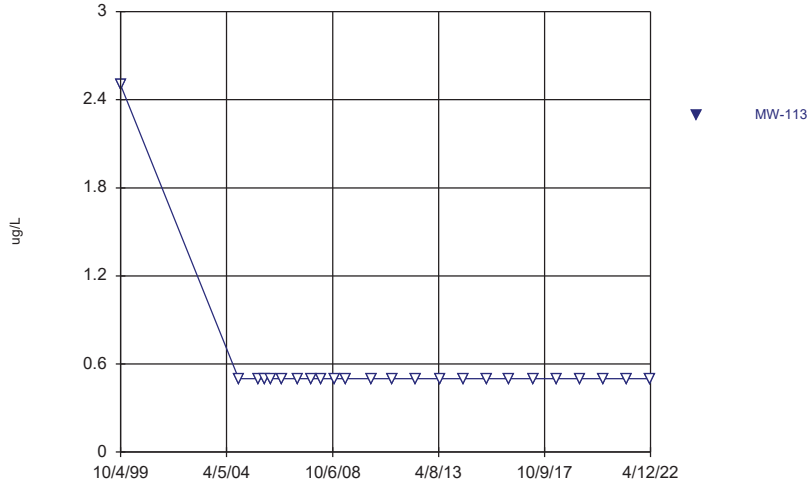


Constituent: trans-1,2-Dichloroethene Analysis Run 5/3/2022 10:44 AM View: WTU Time Series
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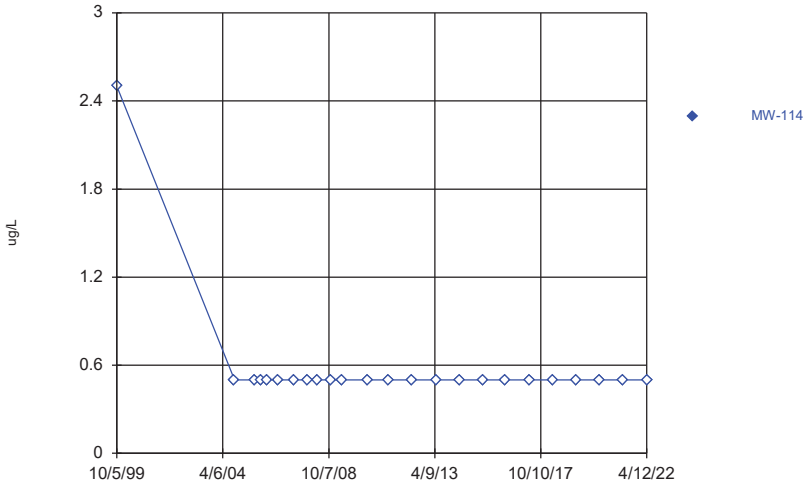
Time Series




Constituent: trans-1,2-Dichloroethene Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
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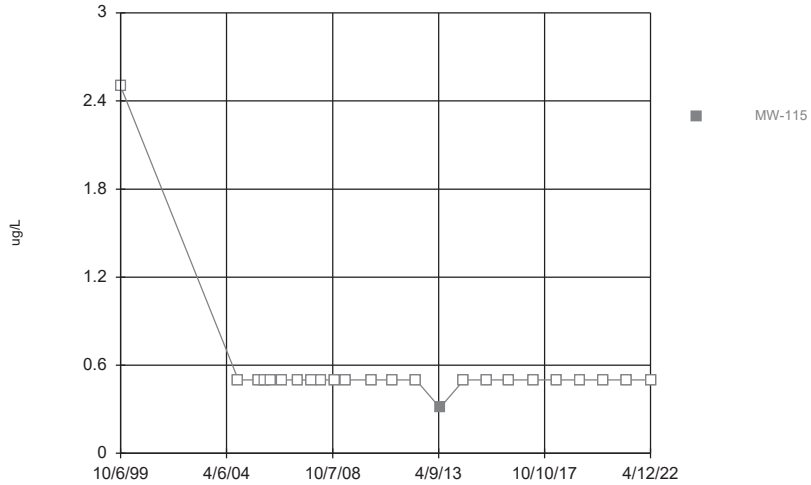
Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series

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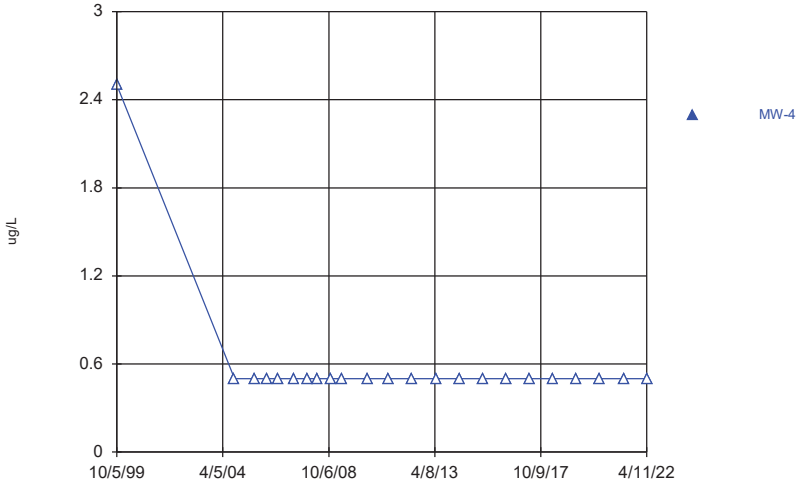


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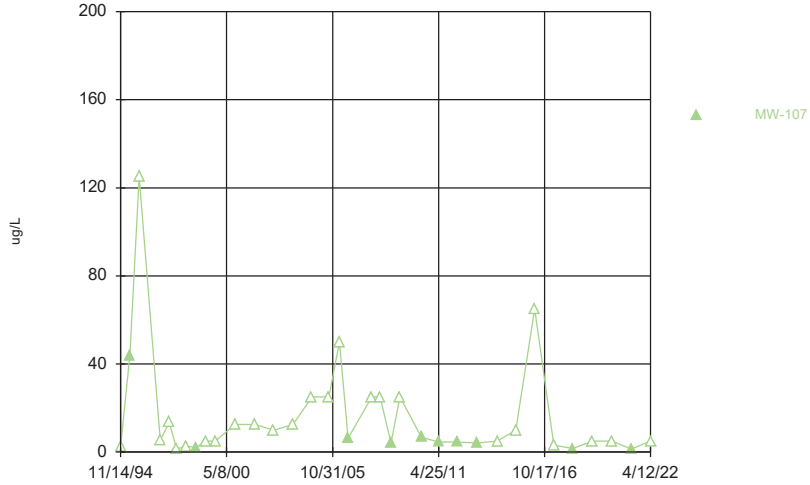


Constituent: Trichloroethene Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
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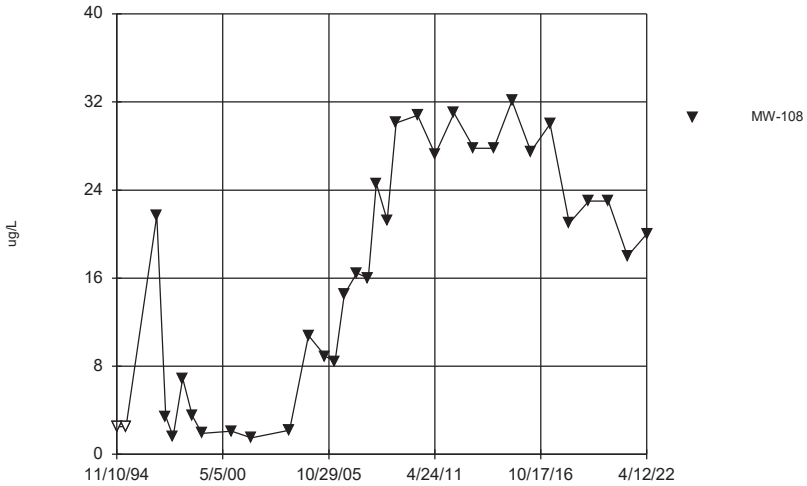


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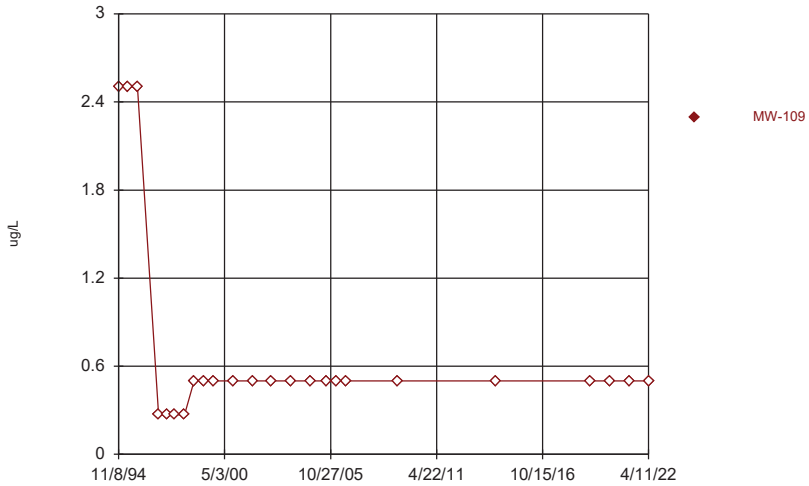


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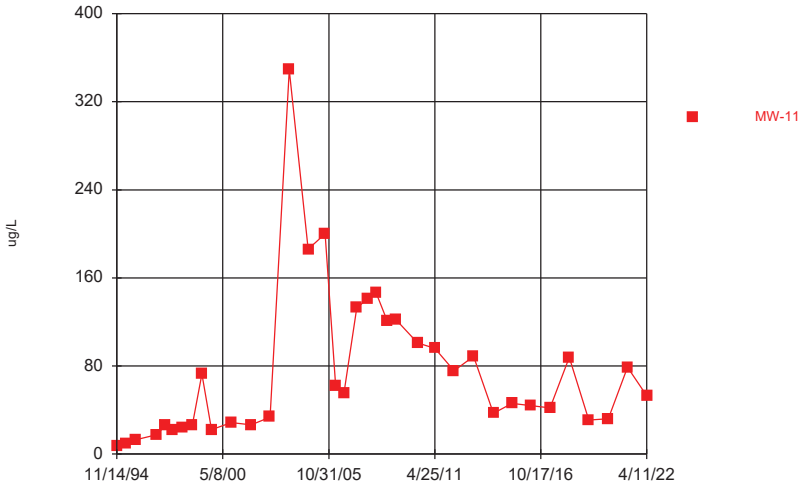


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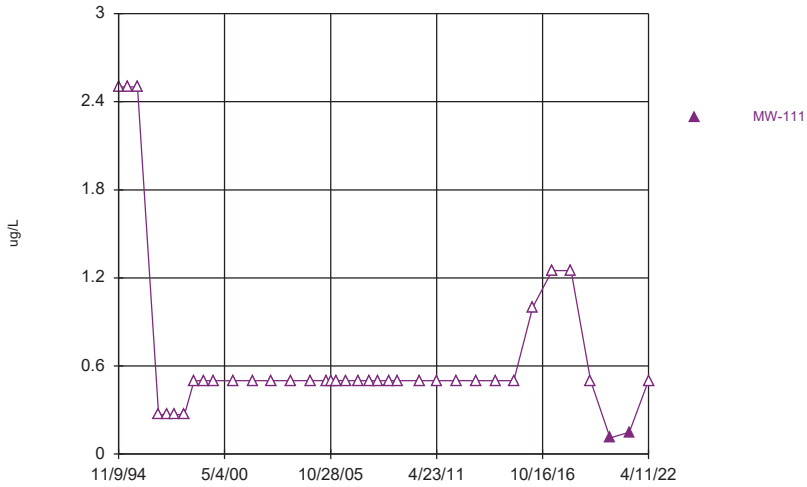


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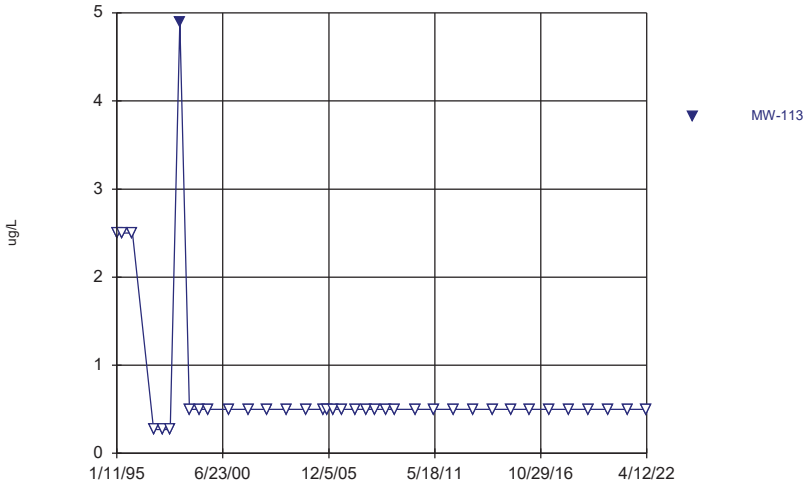


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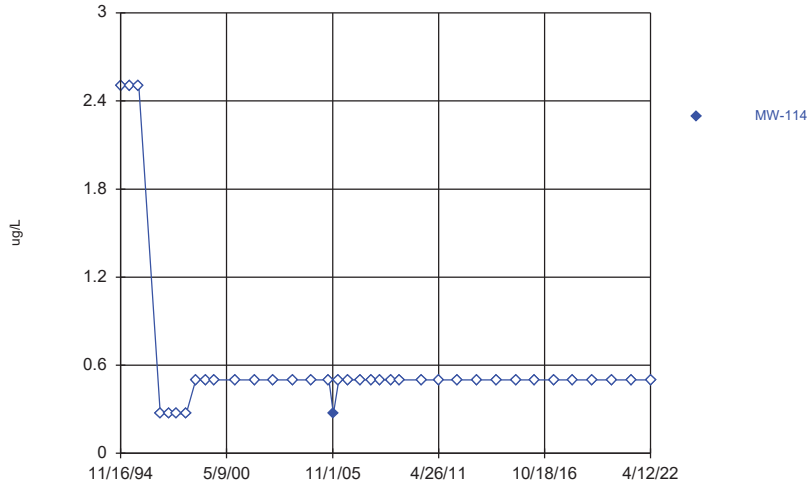


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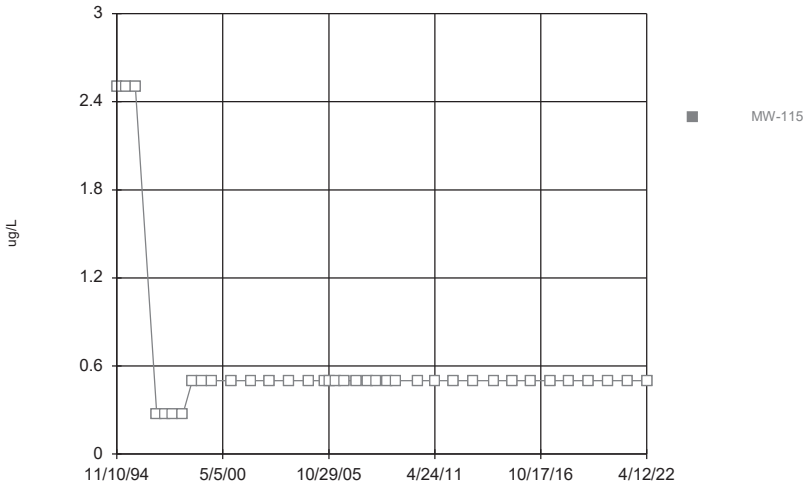


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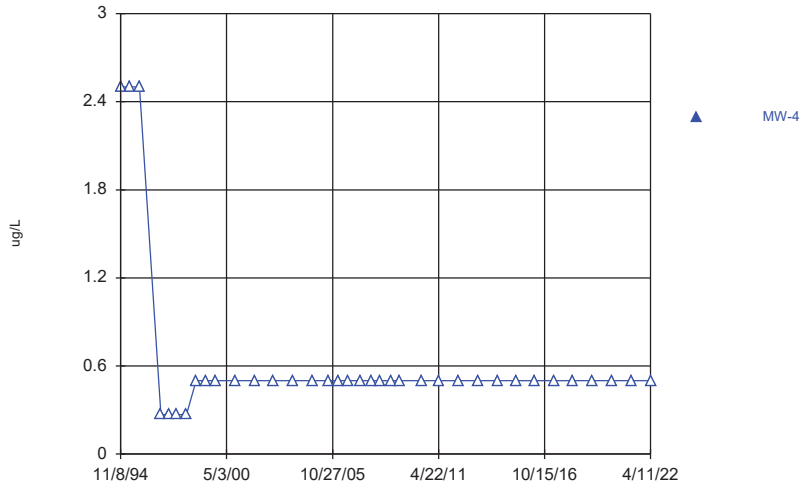


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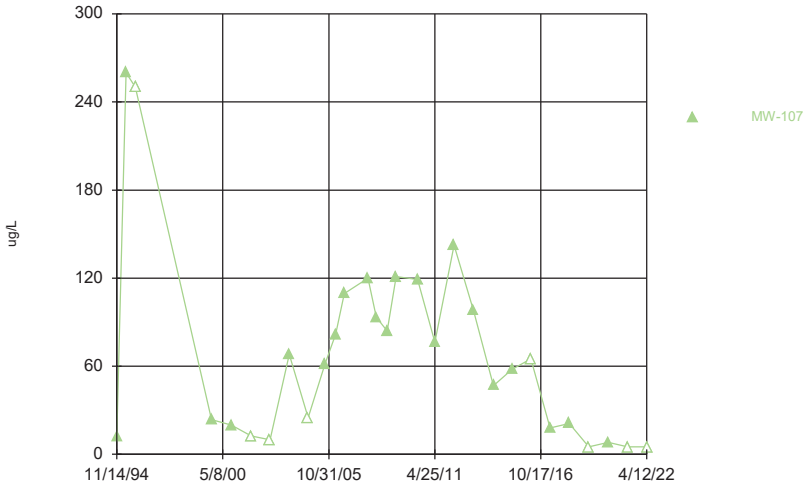


Constituent: Vinyl chloride Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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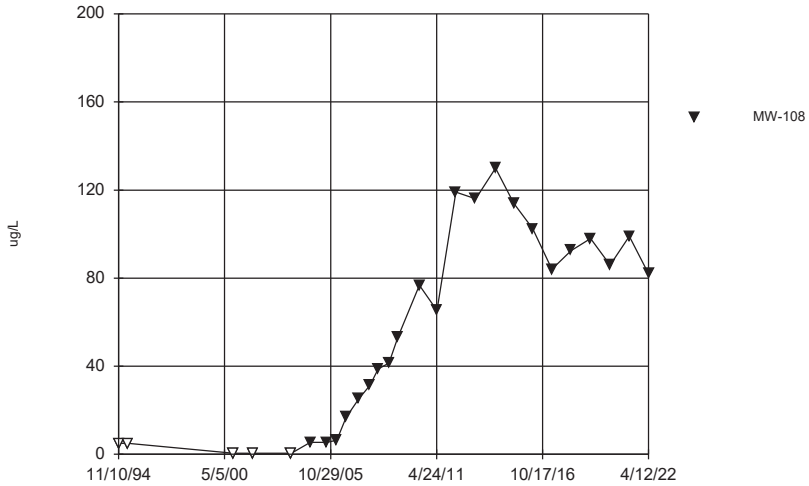


Constituent: Vinyl chloride Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
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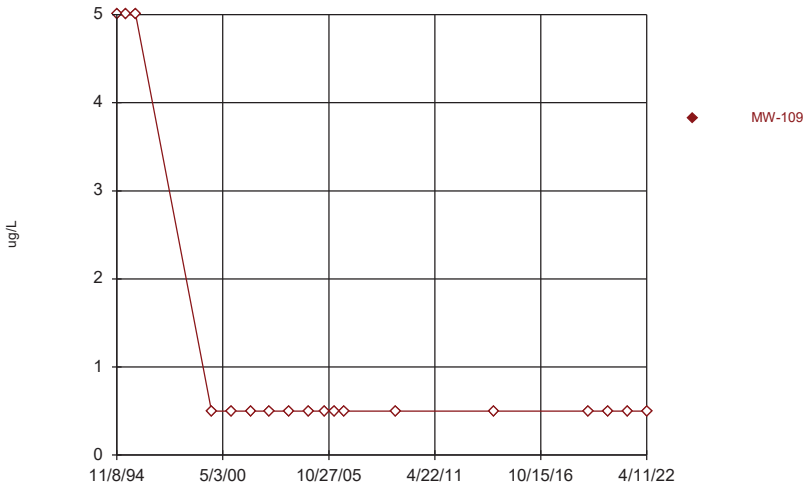


Constituent: Vinyl chloride Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
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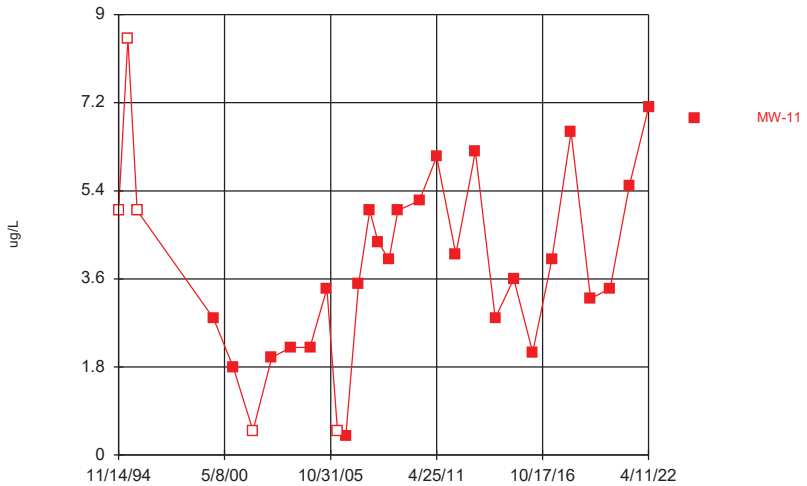
Hollow symbols indicate censored values.

## Time Series




Constituent: Vinyl chloride Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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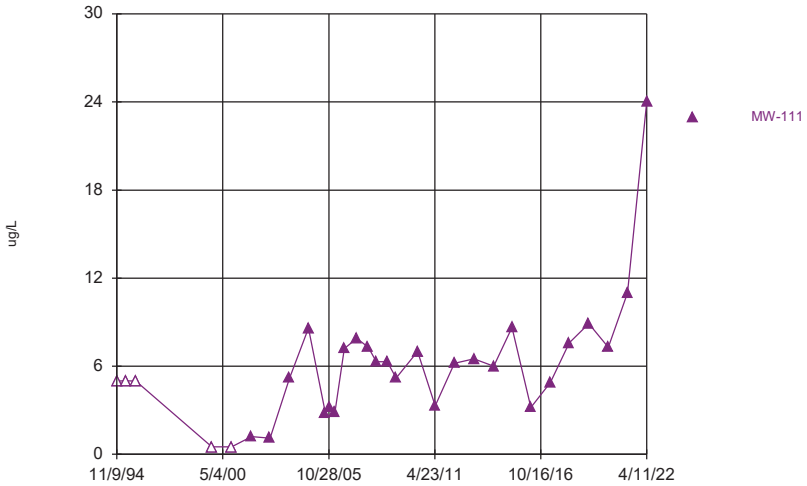
Hollow symbols indicate censored values.

## Time Series




Constituent: Vinyl chloride Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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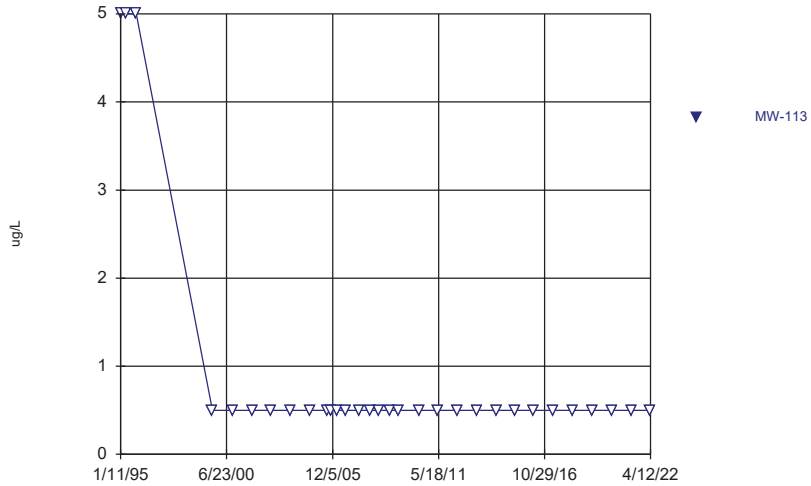
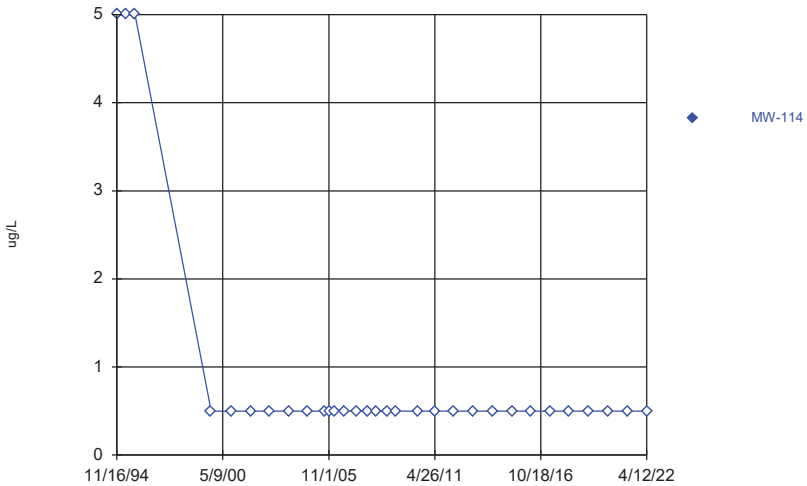
## Time Series




Constituent: Vinyl chloride Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

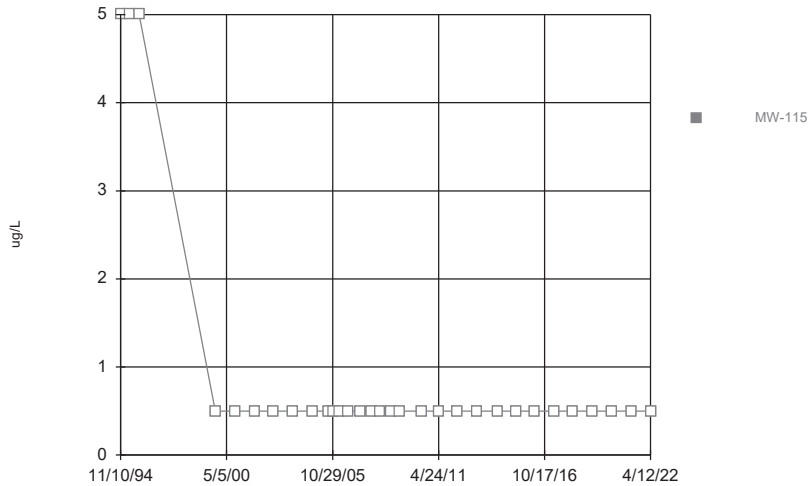
## Time Series




Constituent: Vinyl chloride Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Vinyl chloride Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
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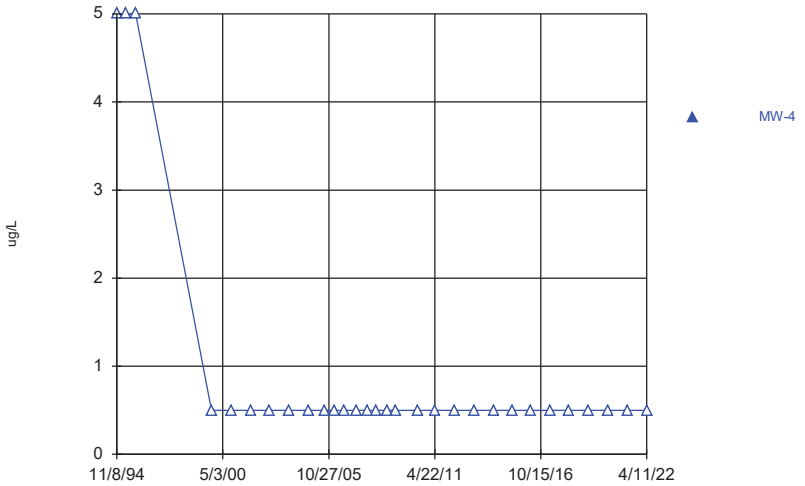
Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

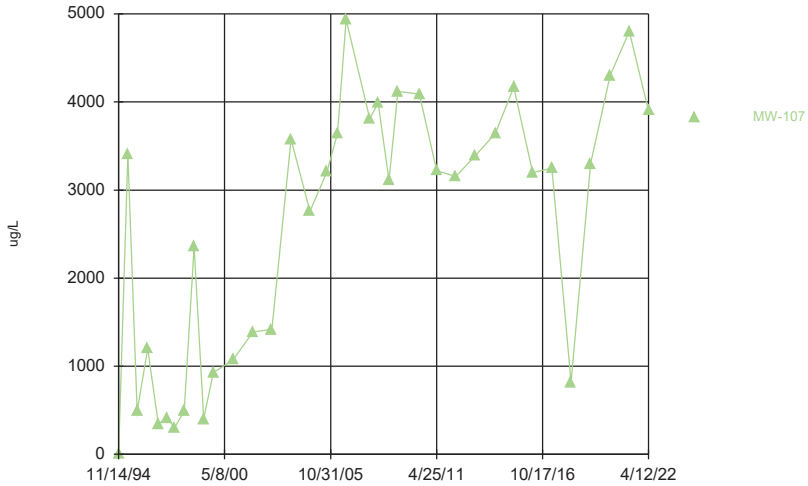
## Time Series




Constituent: Vinyl chloride Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG

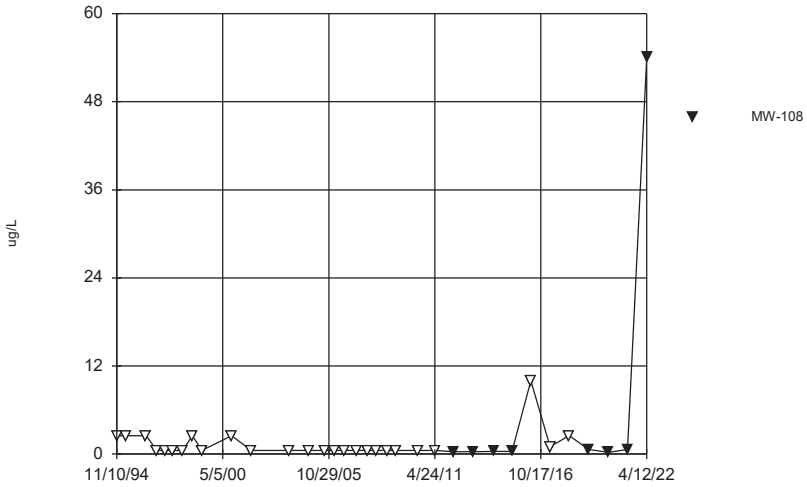
## Time Series




Constituent: Xylenes [total] Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

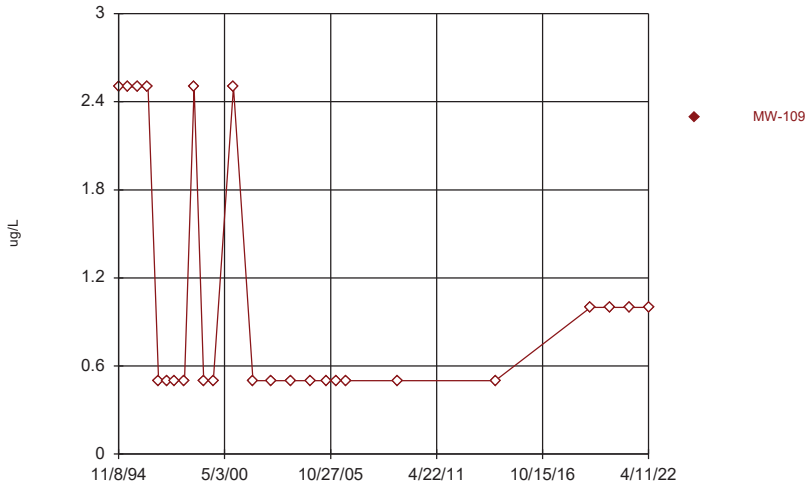
## Time Series




Constituent: Xylenes [total] Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Xylenes [total] Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
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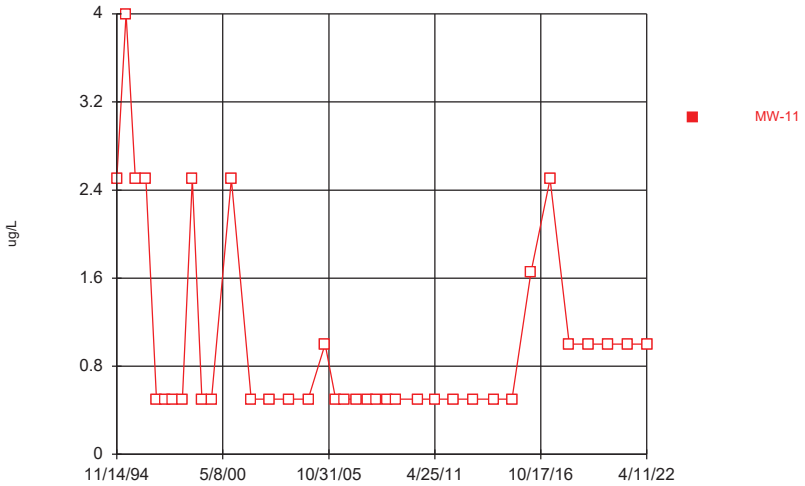
Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series




Constituent: Xylenes [total] Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
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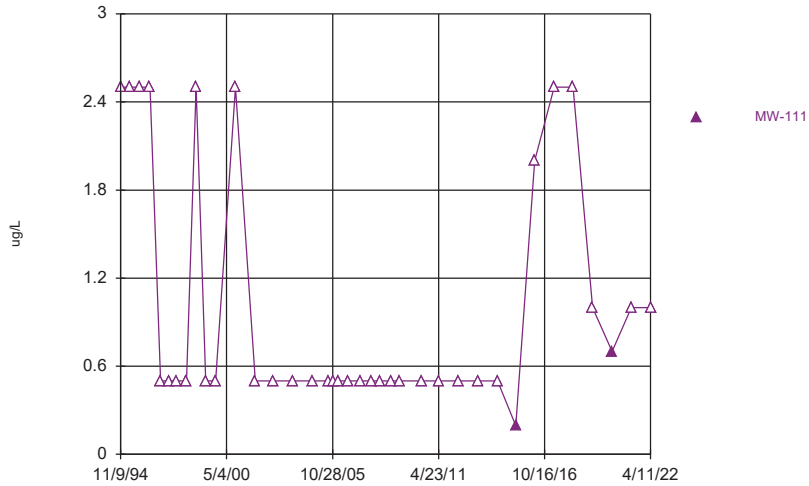
Time Series




Constituent: Xylenes [total] Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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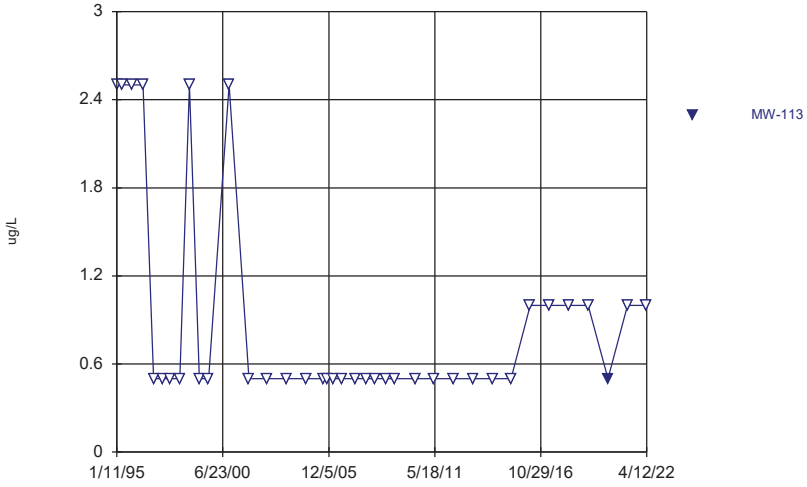
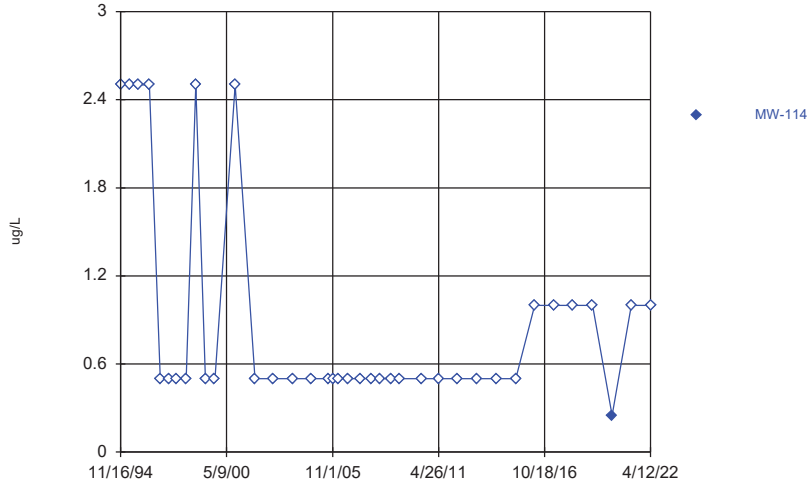
Time Series




Constituent: Xylenes [total] Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

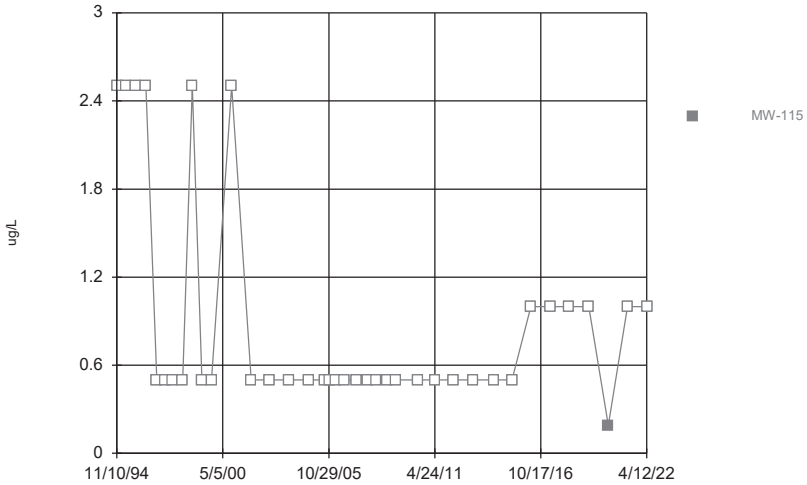
Time Series




Constituent: Xylenes [total] Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Hollow symbols indicate censored values.

## Time Series




Constituent: Xylenes [total] Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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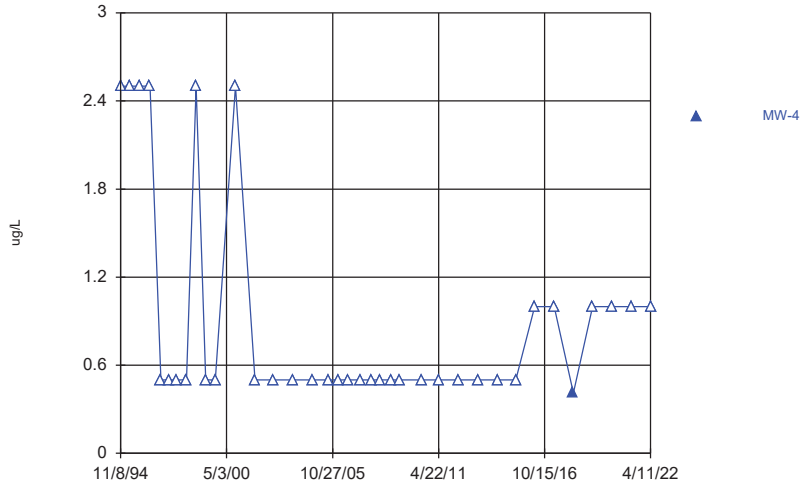
Hollow symbols indicate censored values.

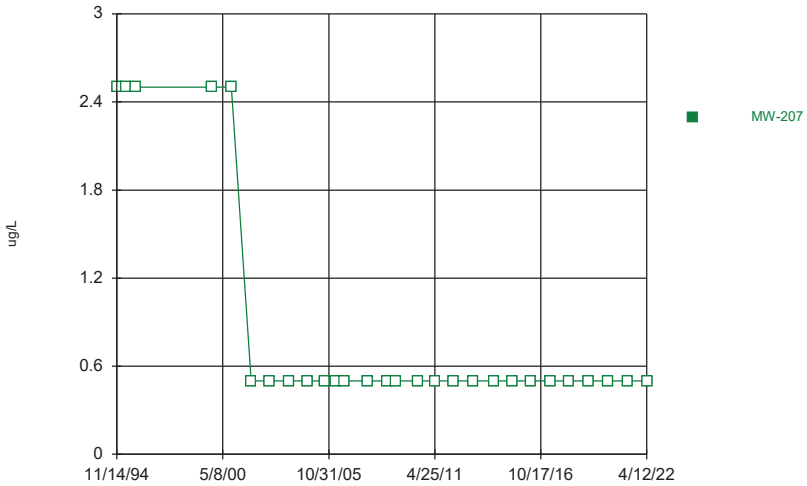
## Time Series




Constituent: Xylenes [total] Analysis Run 5/3/2022 10:45 AM View: WTU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

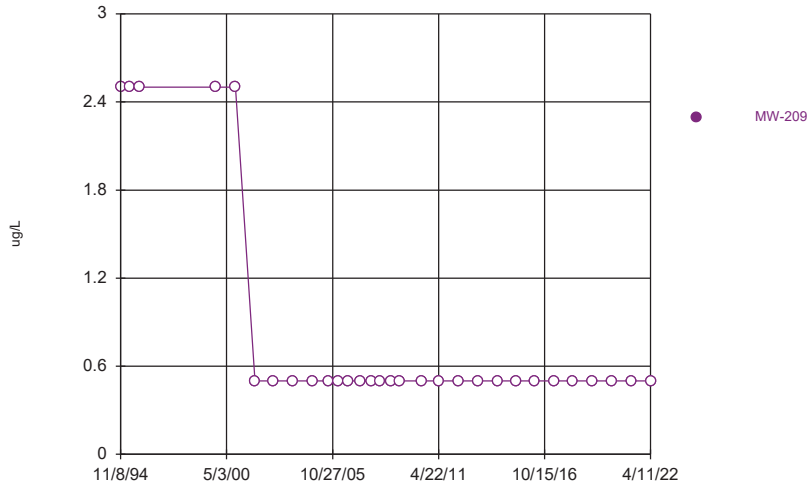
Time Series




Constituent: 1,1,1-Trichloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

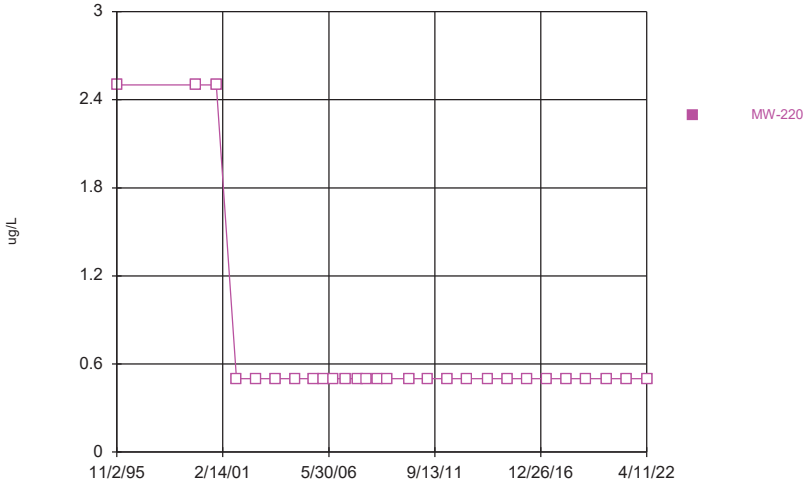
Time Series




Constituent: 1,1,1-Trichloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series

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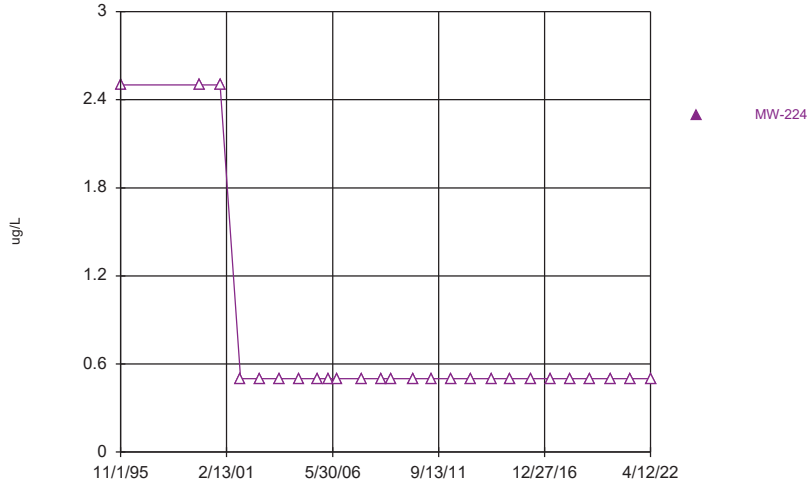
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series




Constituent: 1,1,1-Trichloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
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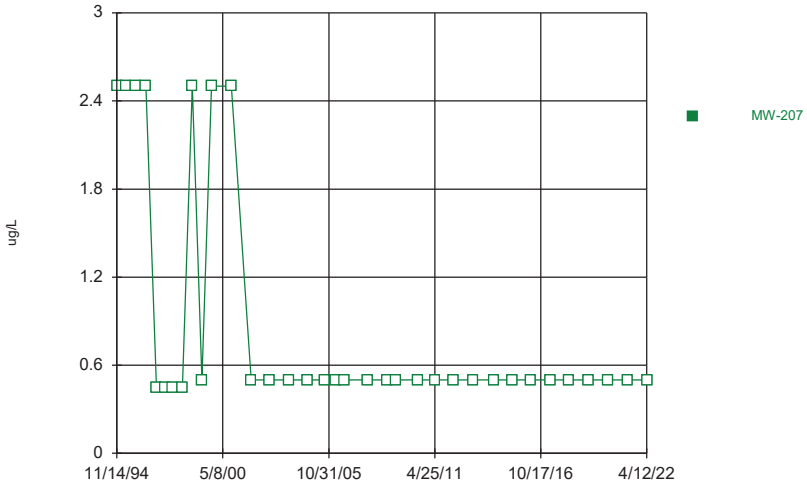
Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series




Constituent: 1,1-Dichloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
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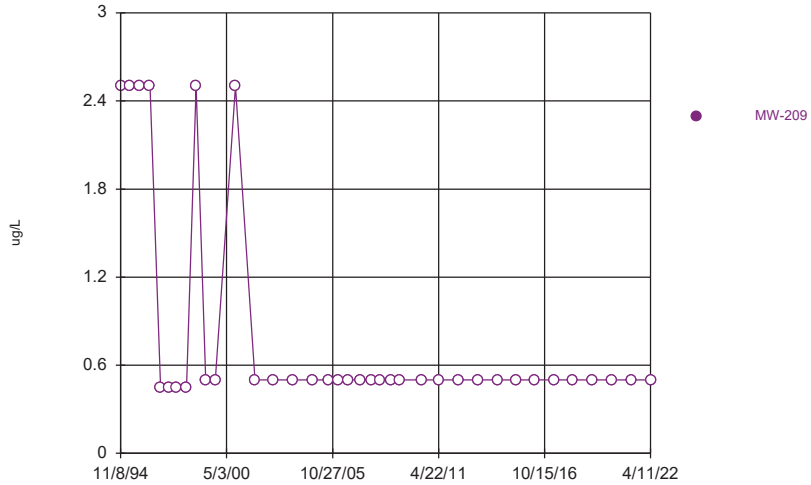
Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series




Constituent: 1,1-Dichloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
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Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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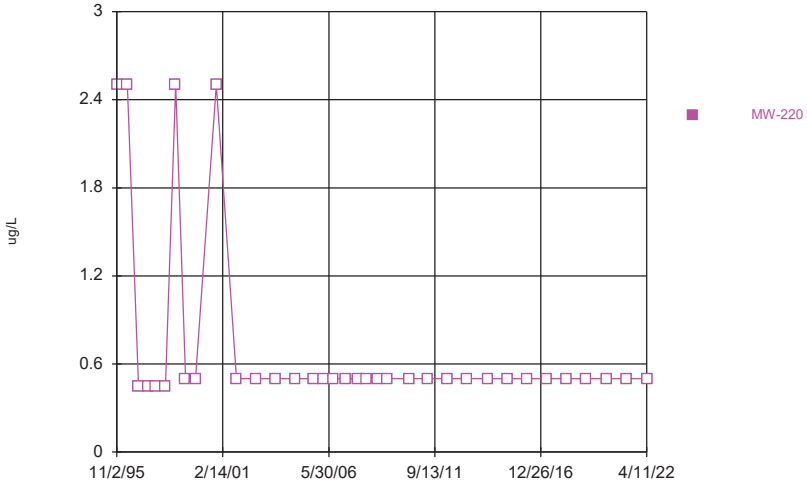


Constituent: 1,1-Dichloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
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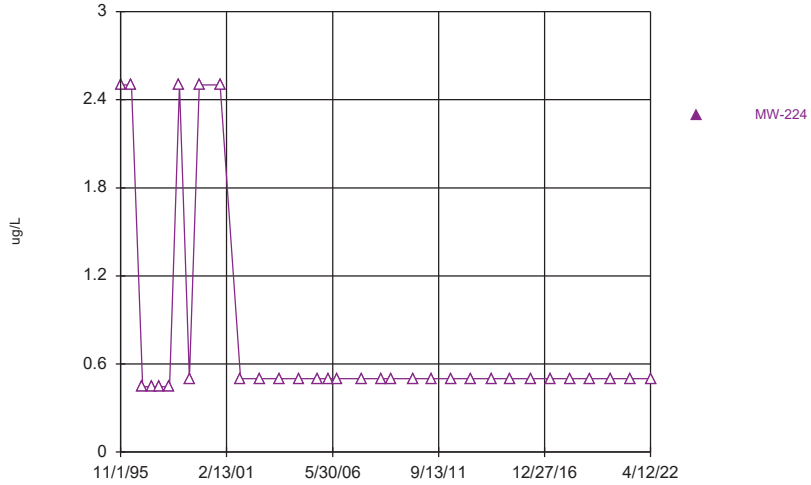
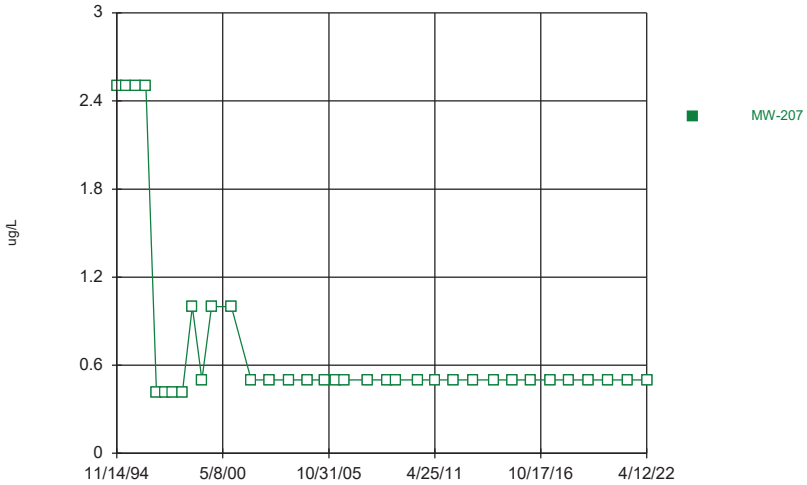



Constituent: 1,1-Dichloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series




Constituent: 1,2-Dichloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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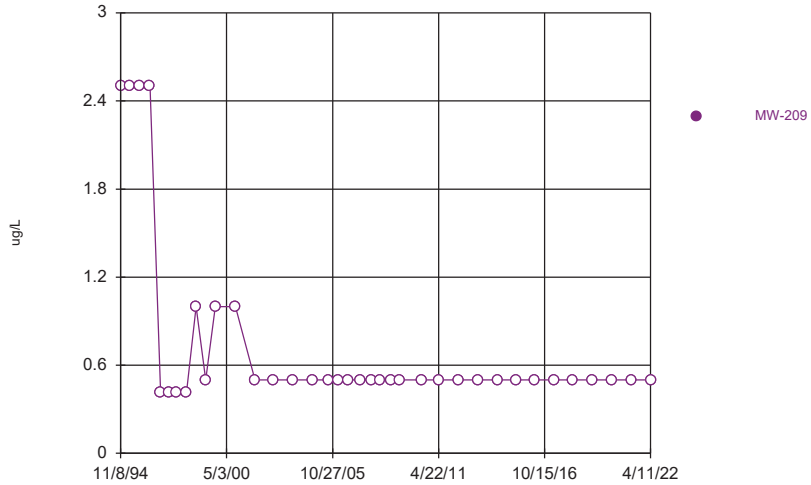
Hollow symbols indicate censored values.

Time Series




Constituent: 1,2-Dichloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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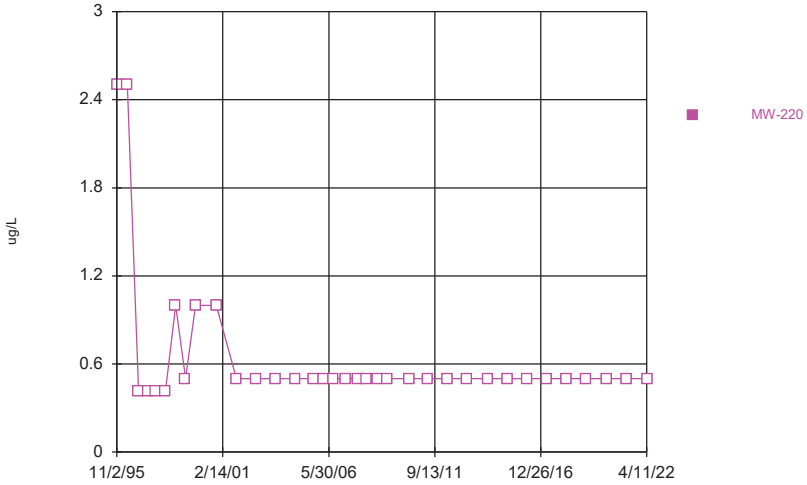
Hollow symbols indicate censored values.

Time Series




Constituent: 1,2-Dichloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
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Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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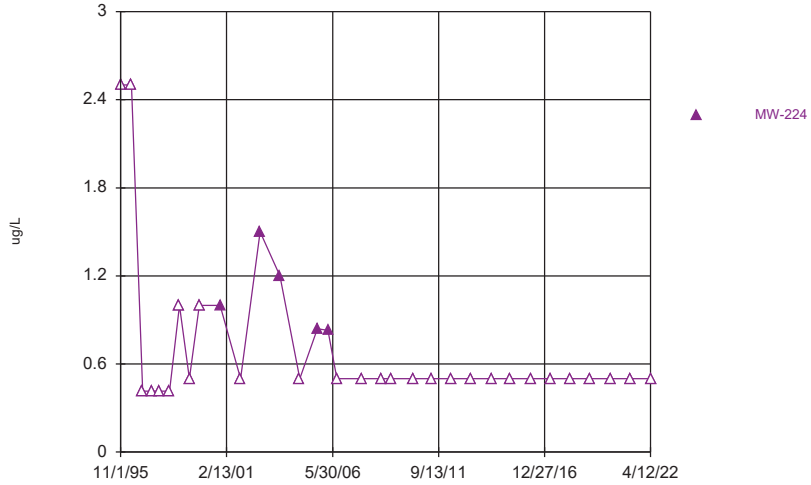
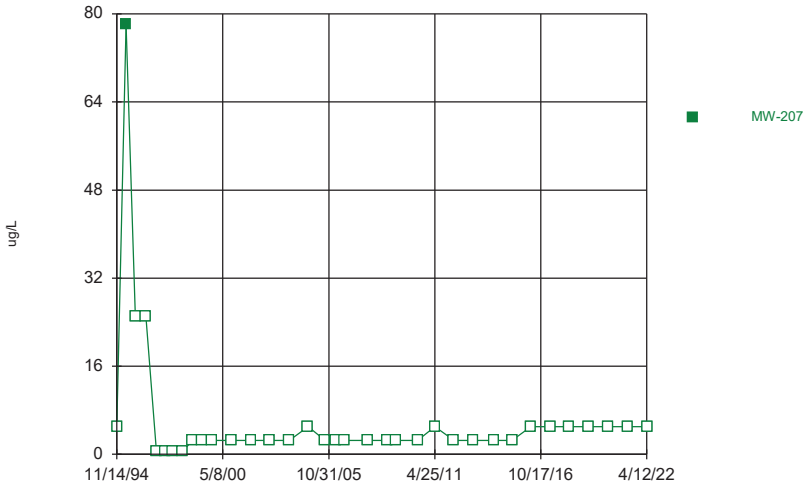
Time Series




Constituent: 1,2-Dichloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Acetone Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
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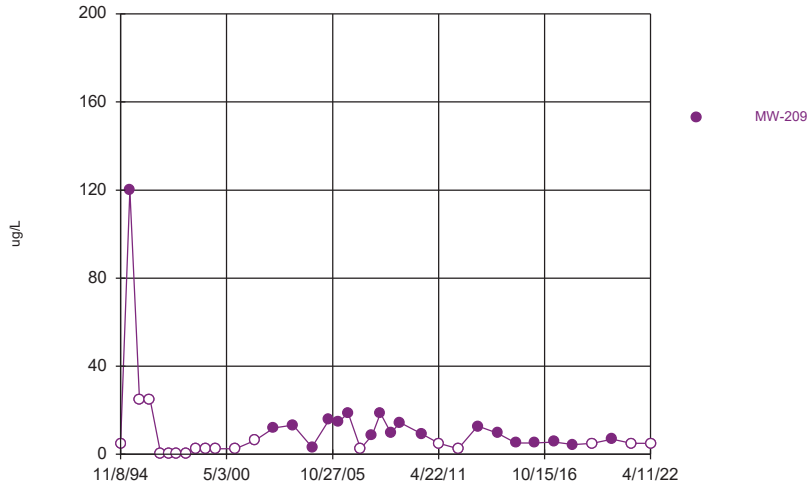
Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

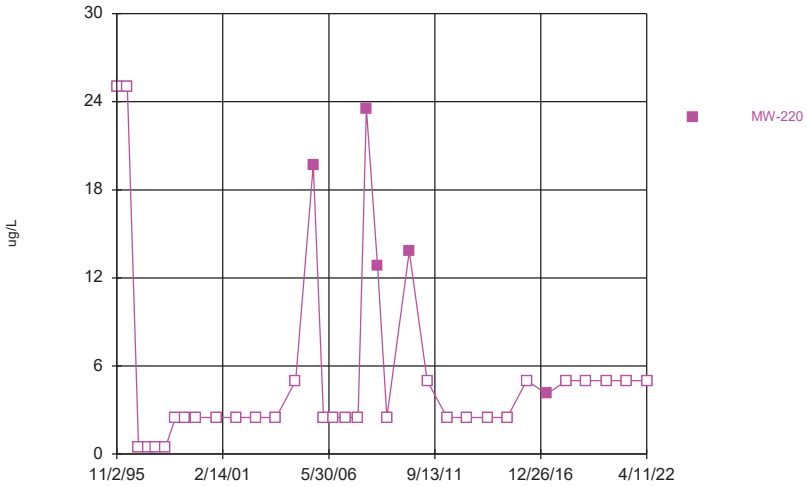
## Time Series




Constituent: Acetone Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Acetone Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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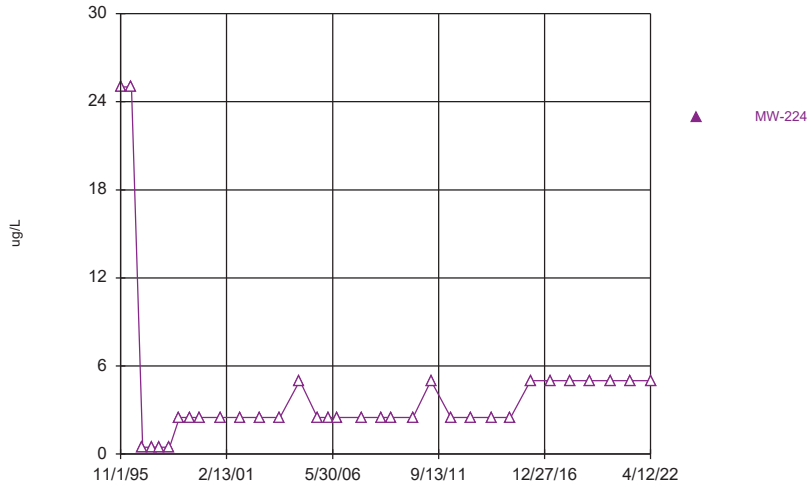
## Time Series




Constituent: Acetone Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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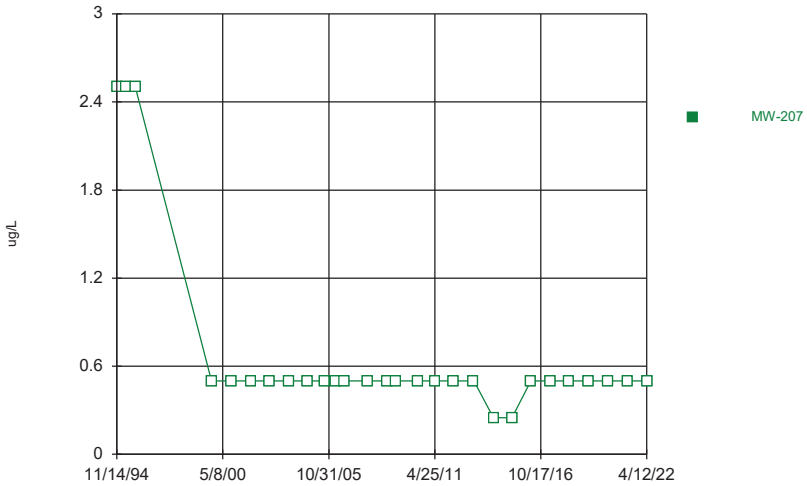
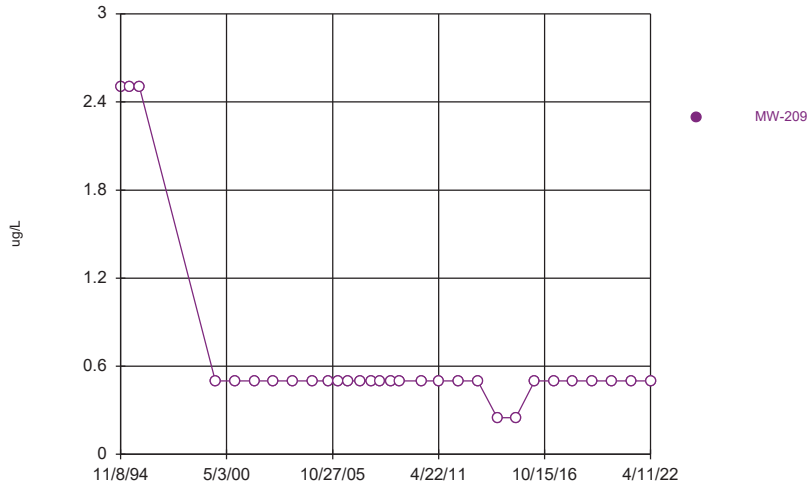
## Time Series




Constituent: Benzene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Benzene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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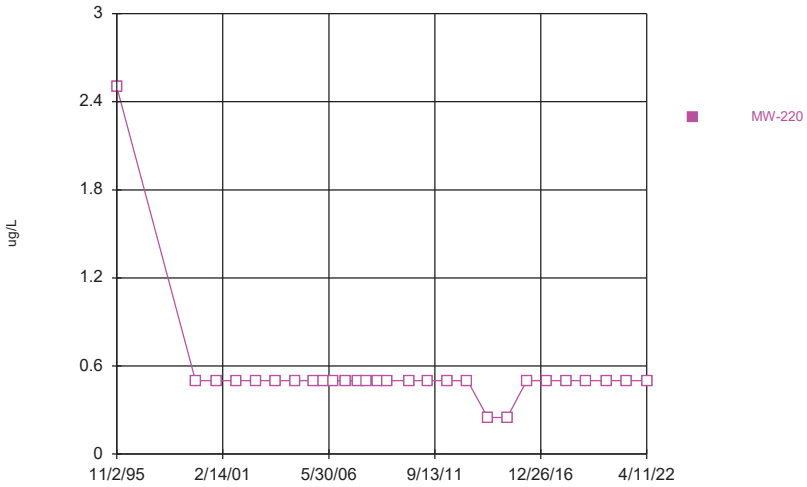
## Time Series




Constituent: Benzene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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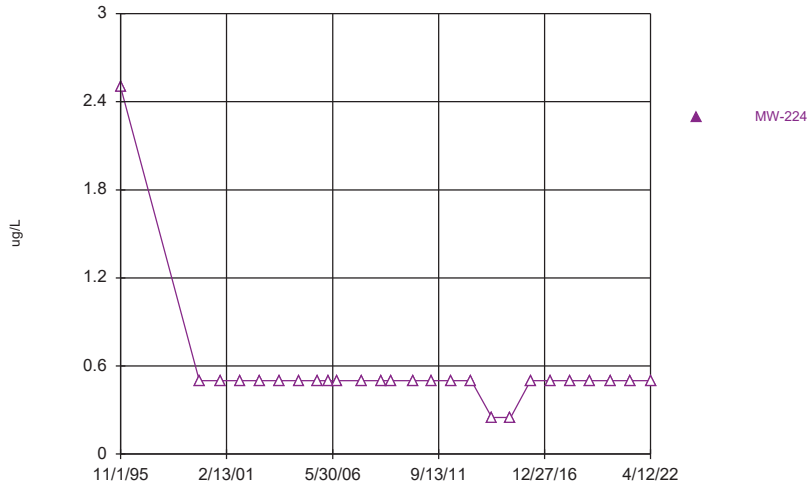
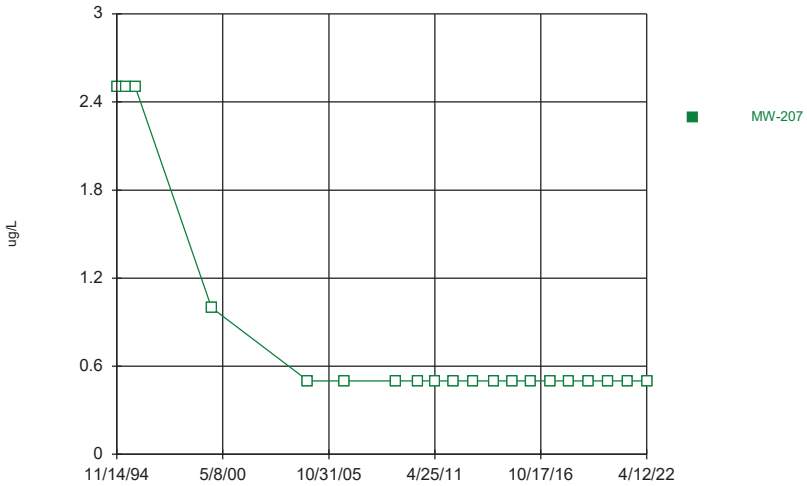
## Time Series




Constituent: Benzene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Chlorobenzene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

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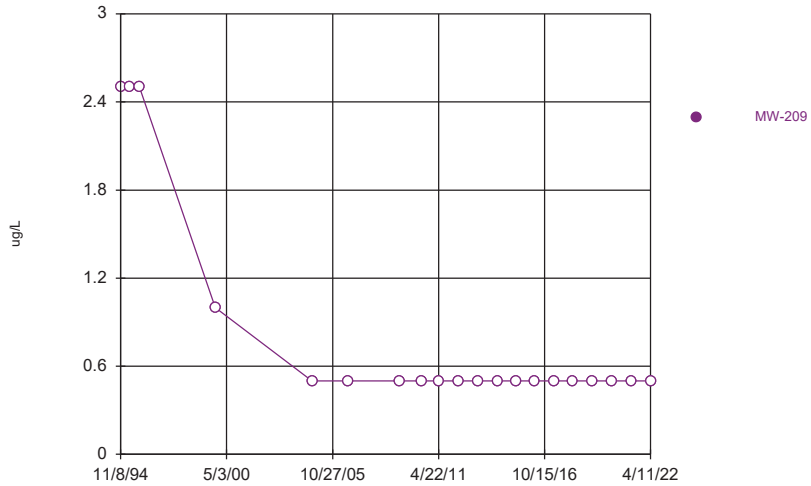
Hollow symbols indicate censored values.

## Time Series




Constituent: Chlorobenzene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
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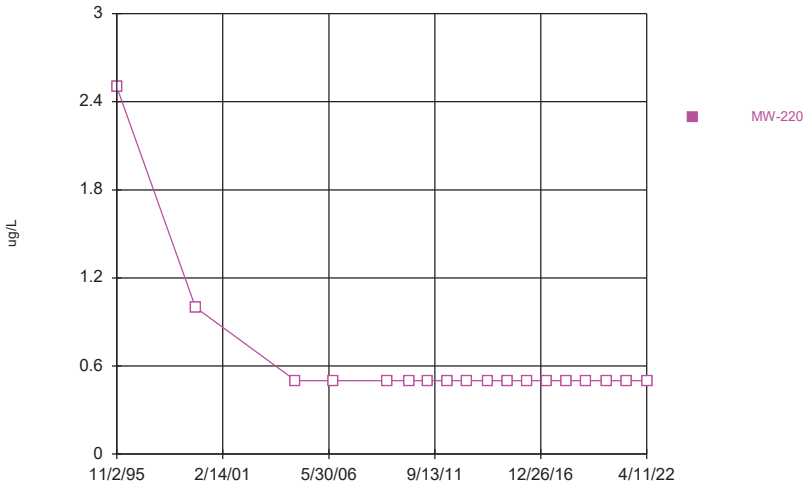


Constituent: Chlorobenzene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
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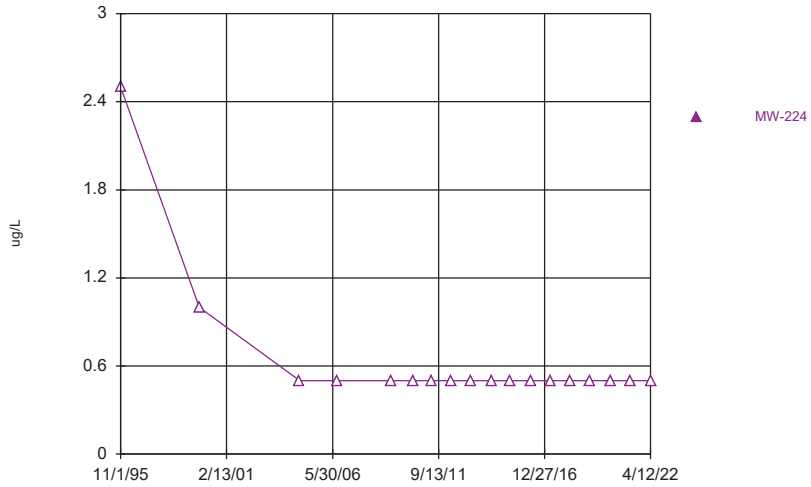
Hollow symbols indicate censored values.

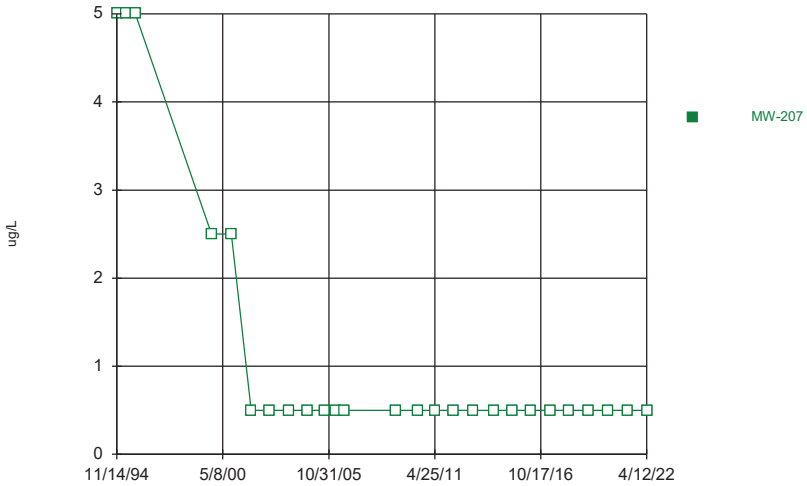
## Time Series




Constituent: Chlorobenzene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

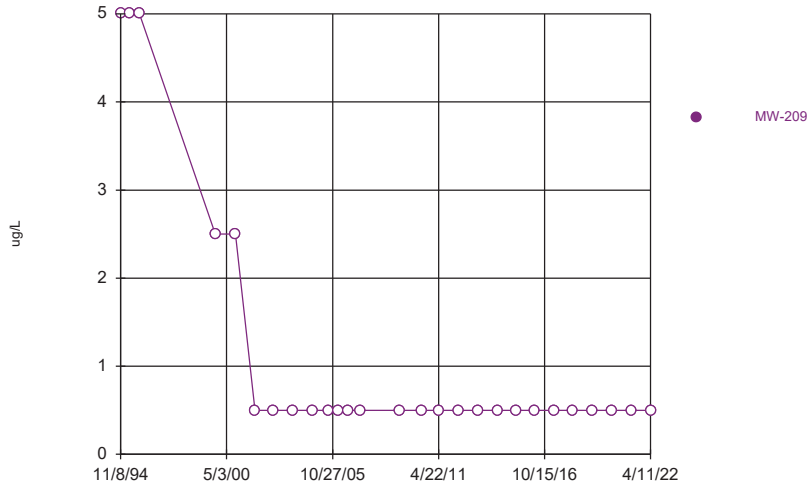
## Time Series




Constituent: Chloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

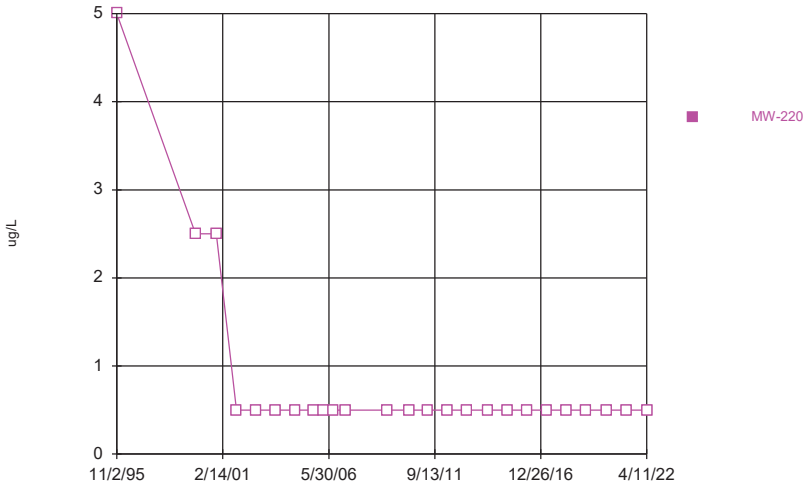
## Time Series




Constituent: Chloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Chloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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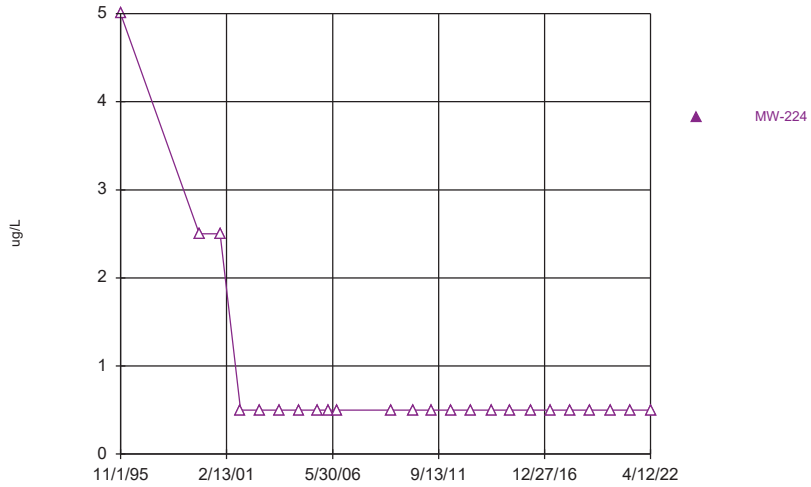
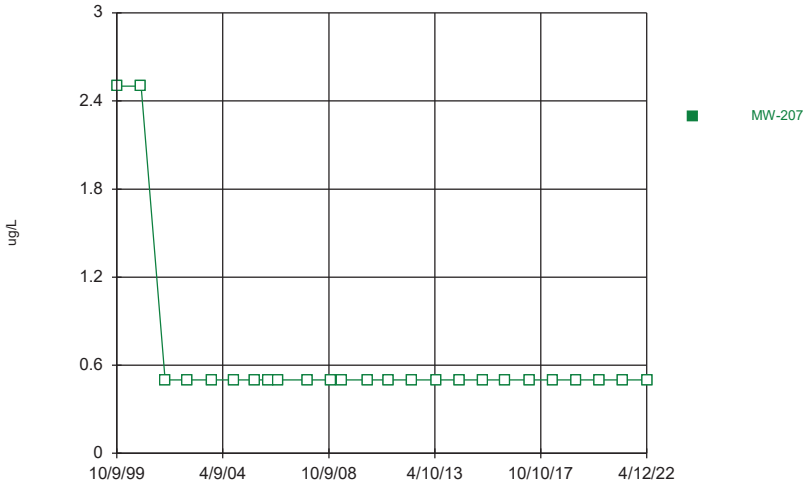



Constituent: Chloroethane Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

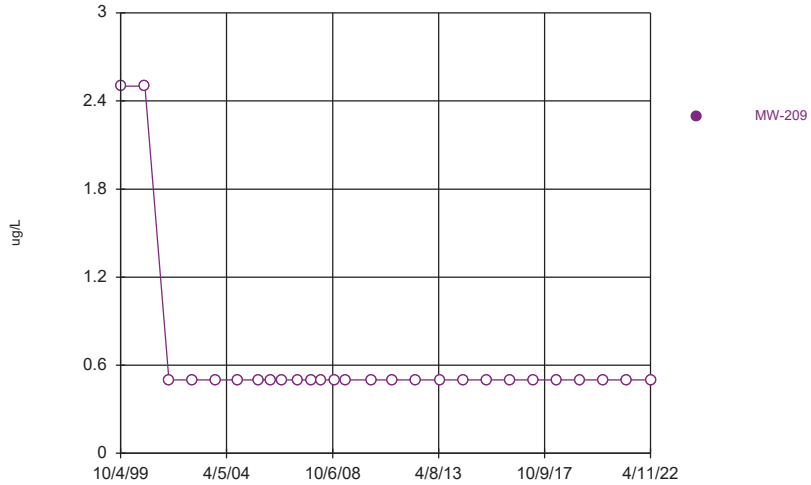
Time Series




Constituent: cis-1,2-Dichloroethene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

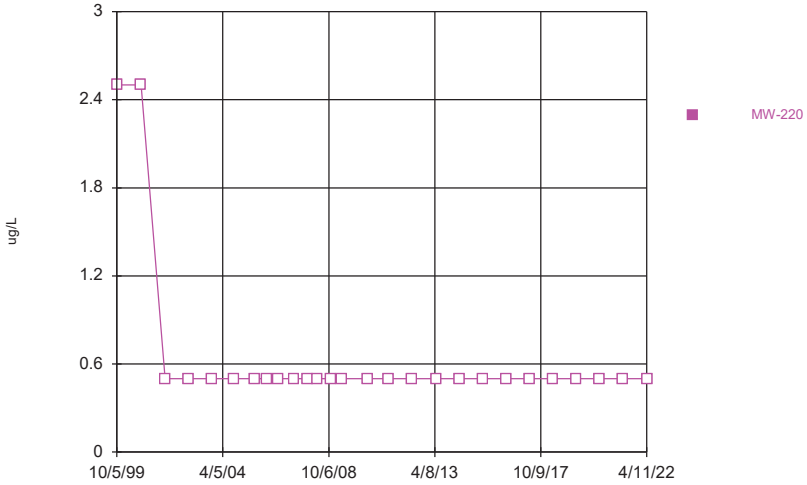
Time Series




Constituent: cis-1,2-Dichloroethene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

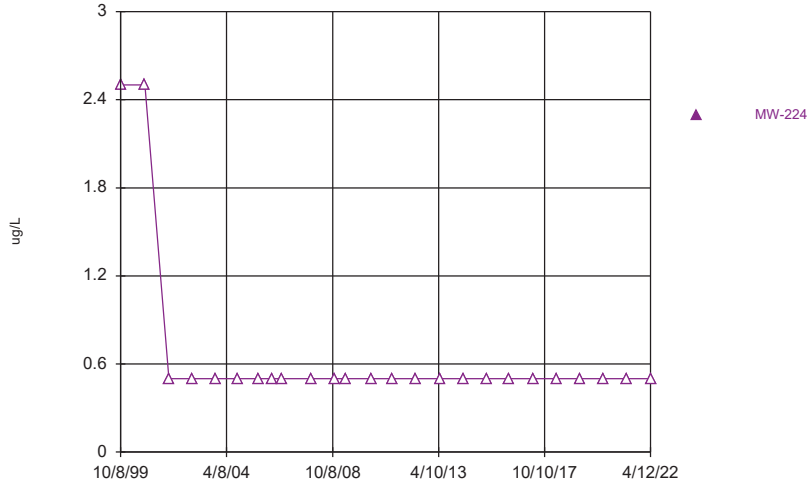
Time Series




Constituent: cis-1,2-Dichloroethene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

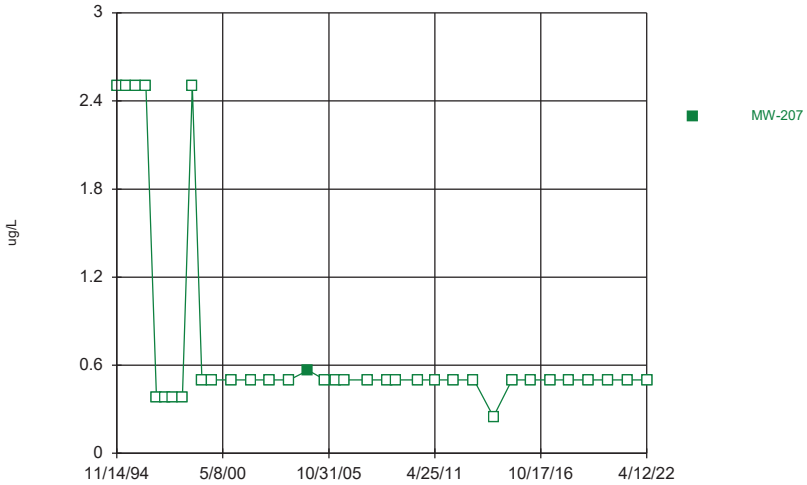
Time Series




Constituent: cis-1,2-Dichloroethene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

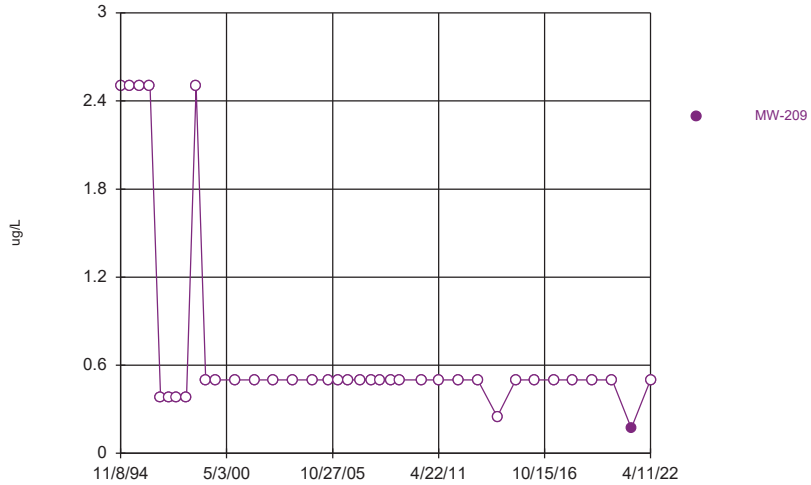
## Time Series




Constituent: Ethylbenzene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

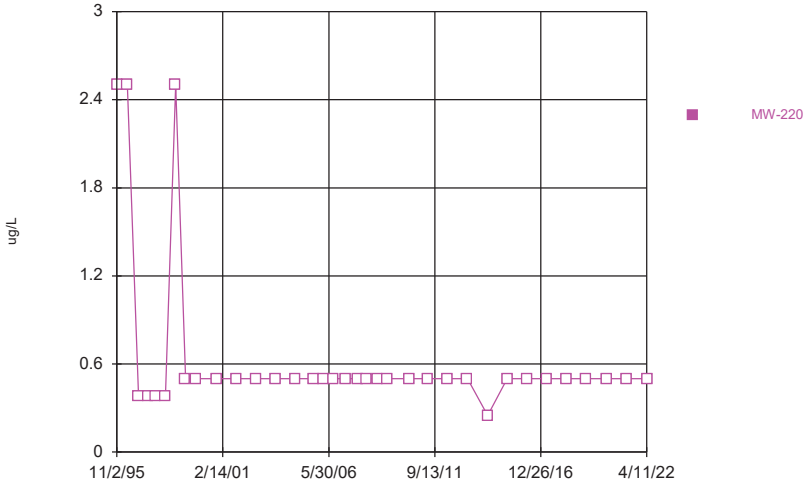
## Time Series




Constituent: Ethylbenzene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

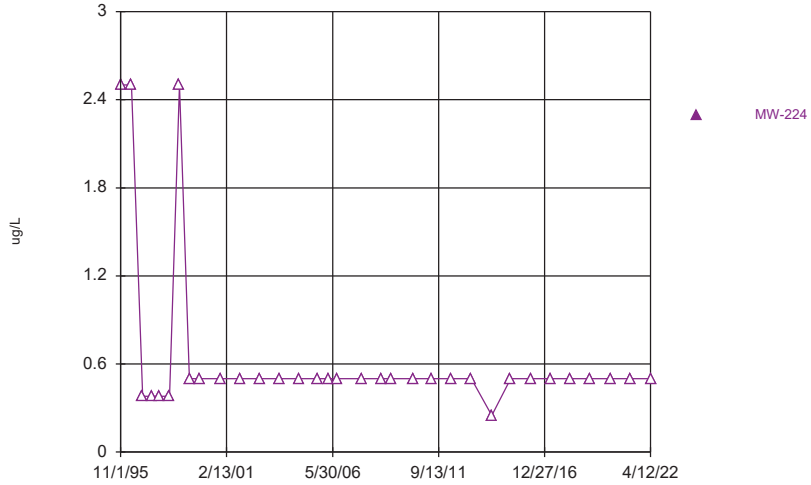
## Time Series




Constituent: Ethylbenzene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

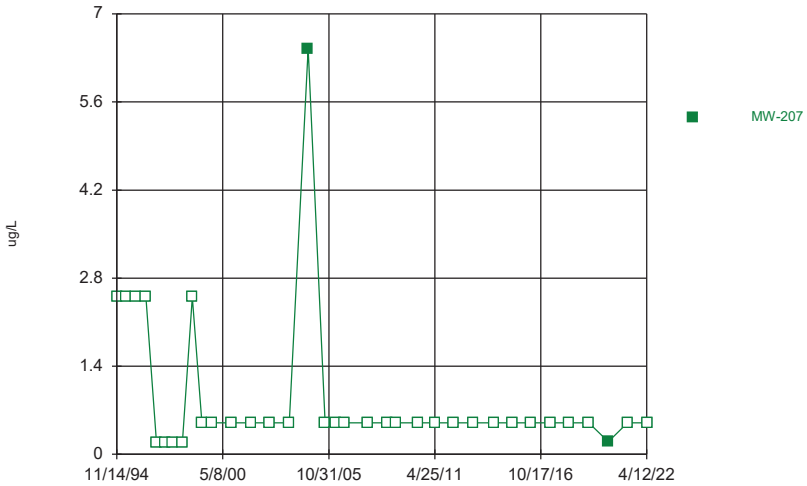
## Time Series




Constituent: Ethylbenzene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

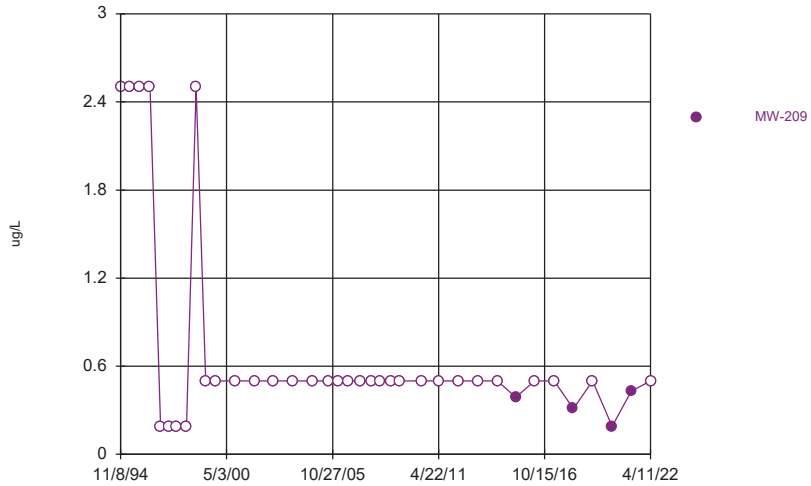
## Time Series




Constituent: Toluene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

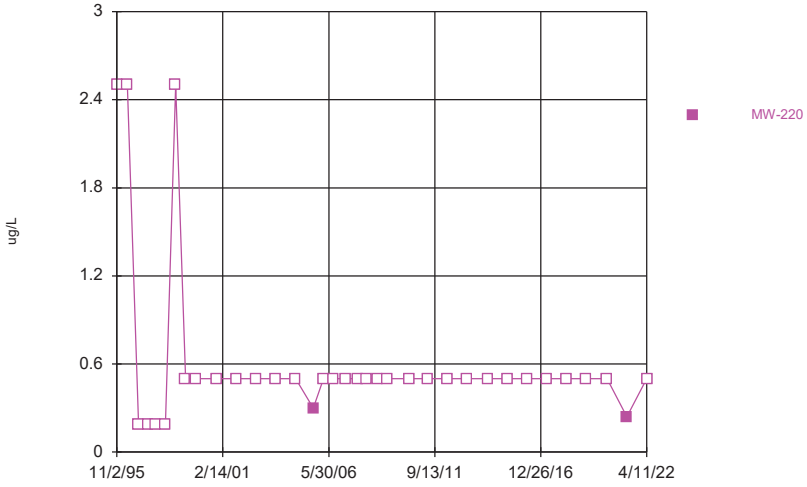
## Time Series




Constituent: Toluene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

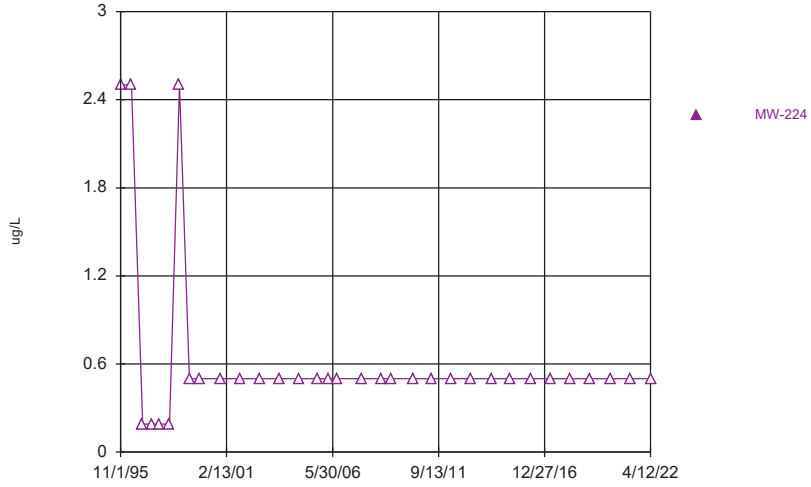
## Time Series




Constituent: Toluene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series

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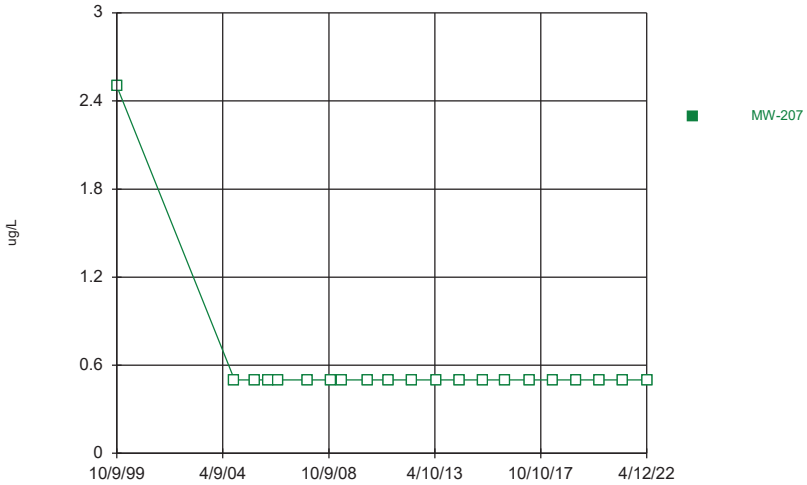
Hollow symbols indicate censored values.

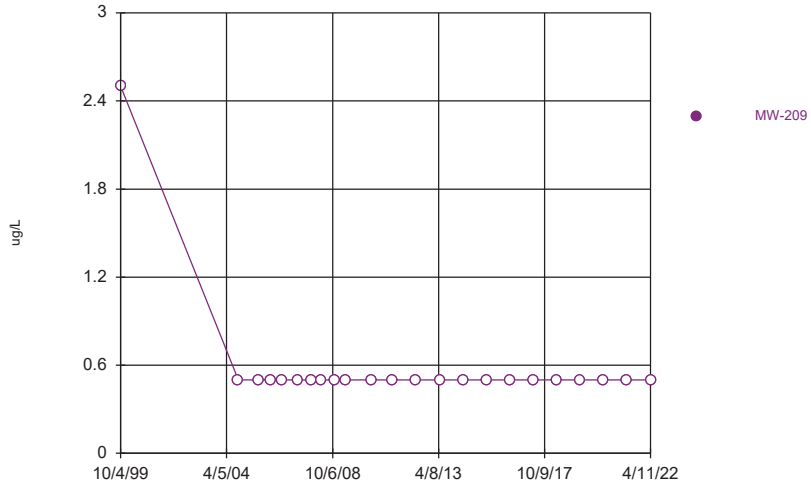
## Time Series




Constituent: trans-1,2-Dichloroethene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

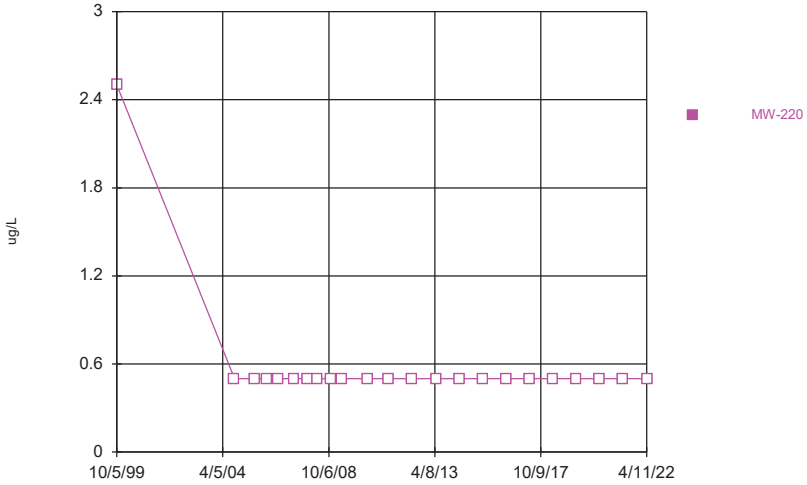
## Time Series




Constituent: trans-1,2-Dichloroethene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: trans-1,2-Dichloroethene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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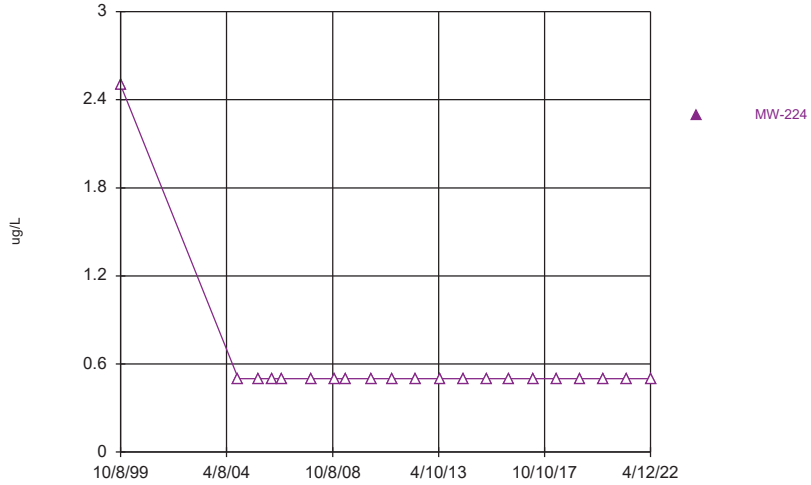


Constituent: trans-1,2-Dichloroethene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
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Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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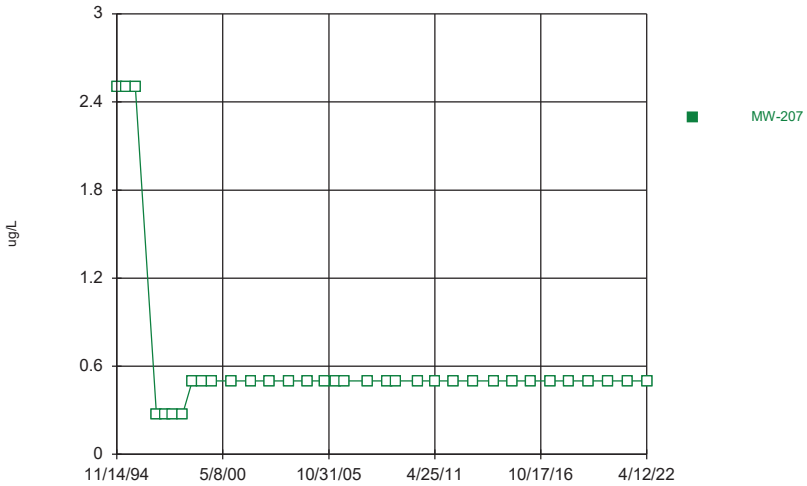


Constituent: Trichloroethene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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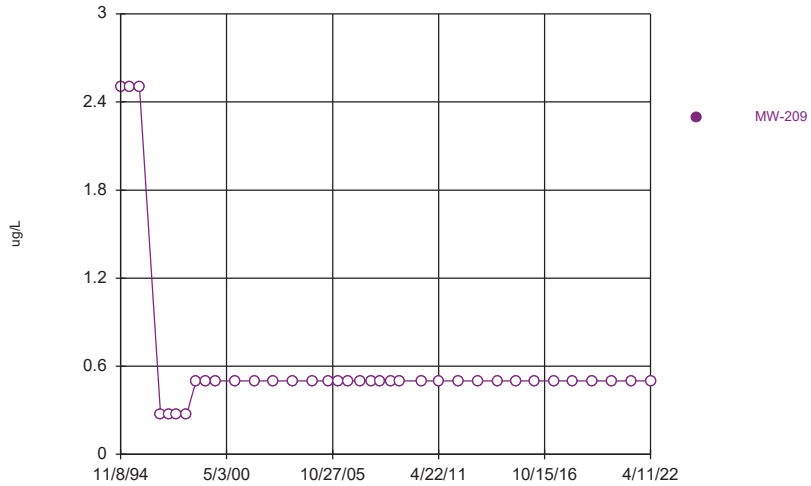


Constituent: Trichloroethene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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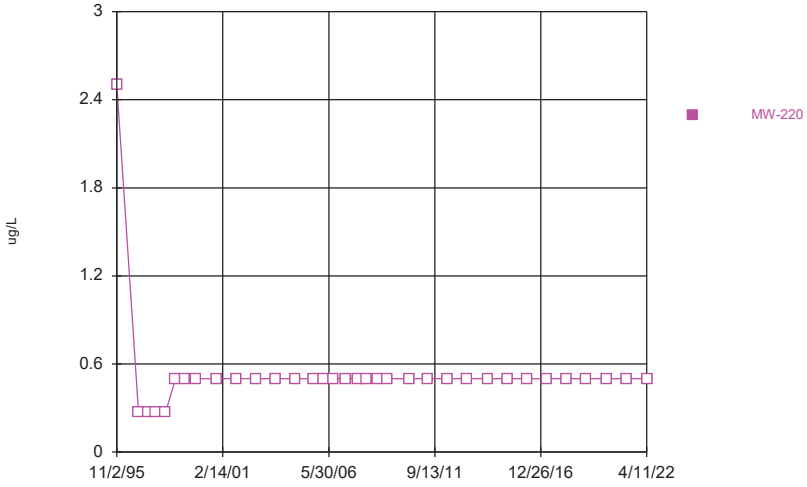
## Time Series




Constituent: Trichloroethene Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
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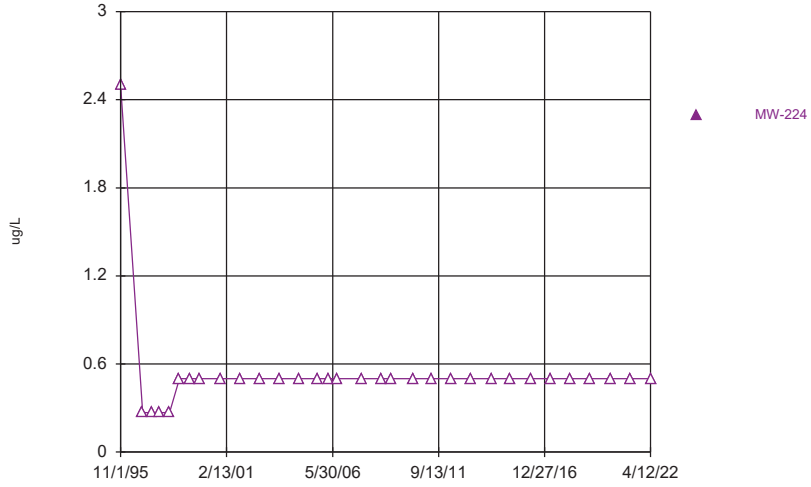


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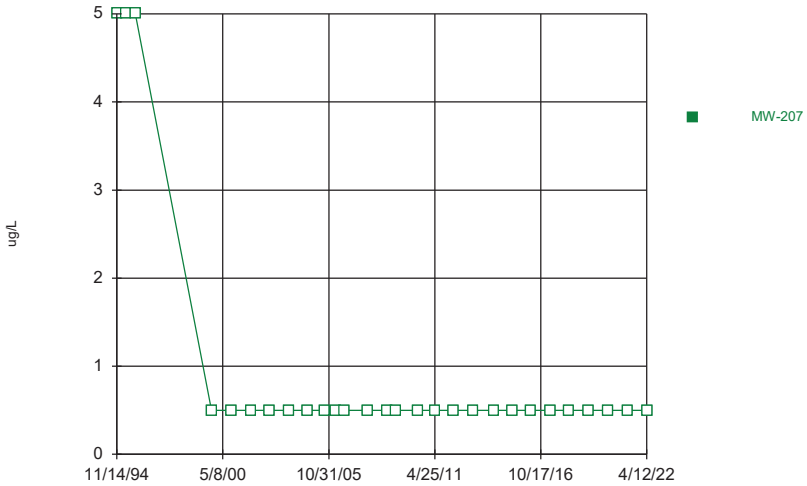
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

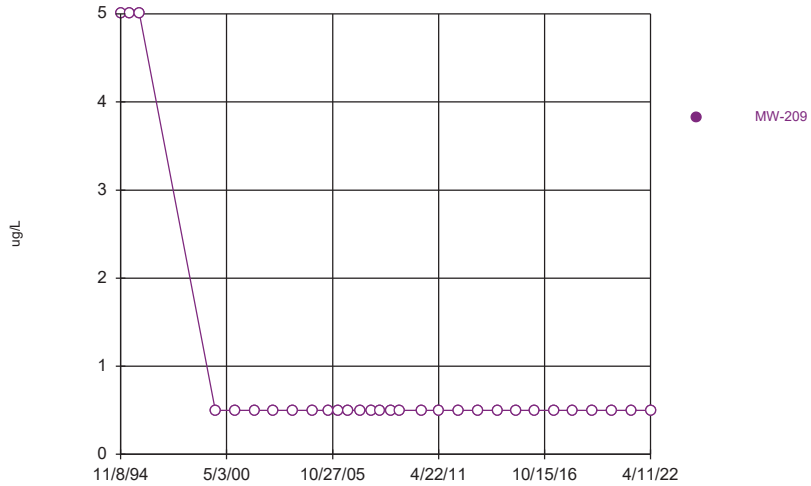
## Time Series




Constituent: Vinyl chloride Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

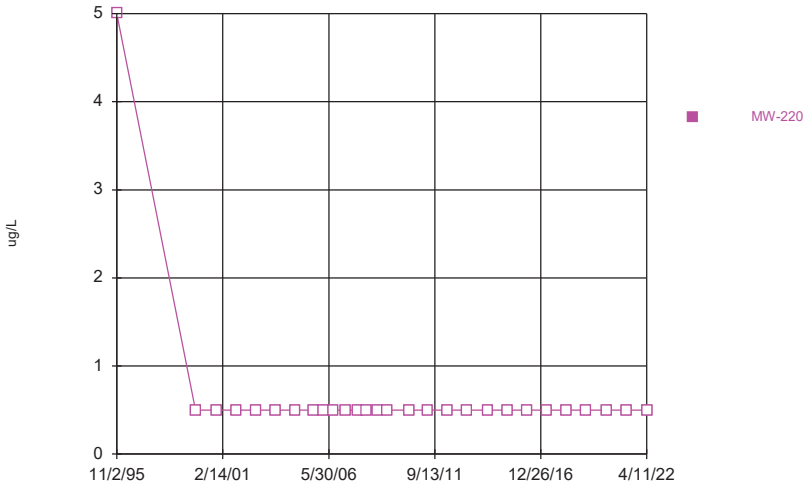
## Time Series




Constituent: Vinyl chloride Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Vinyl chloride Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

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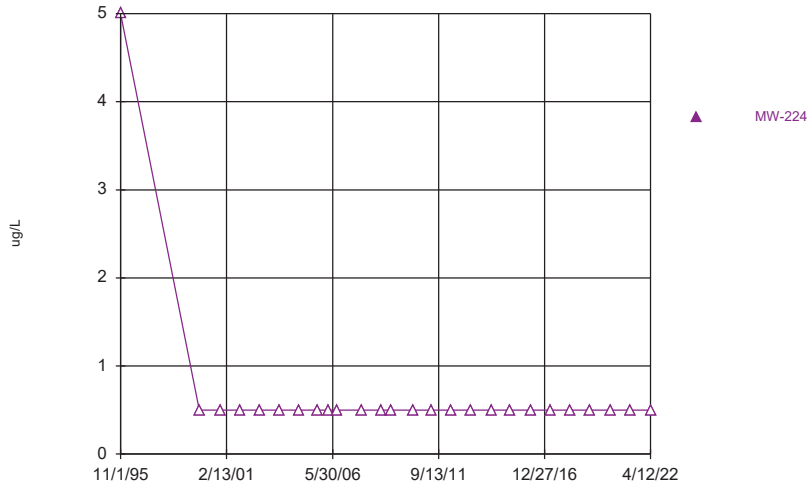
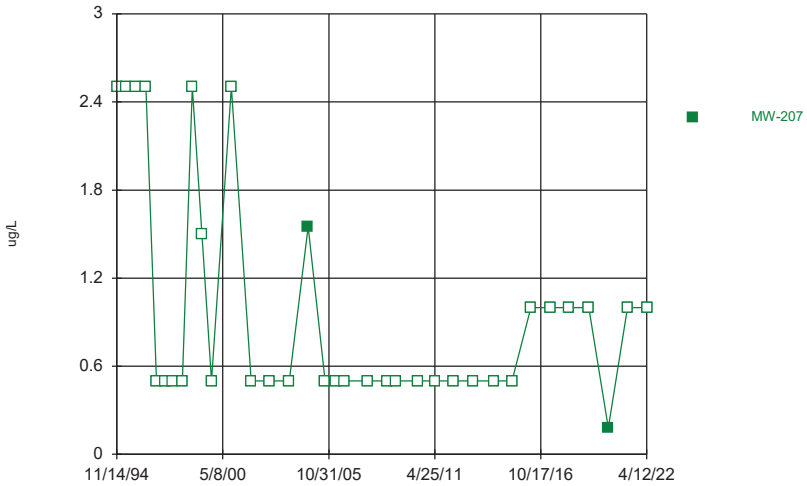



Constituent: Vinyl chloride Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

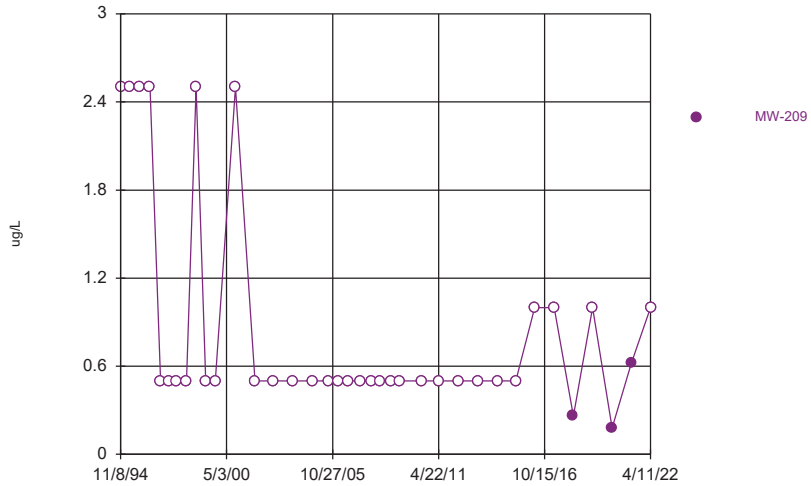
## Time Series




Constituent: Xylenes [total] Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

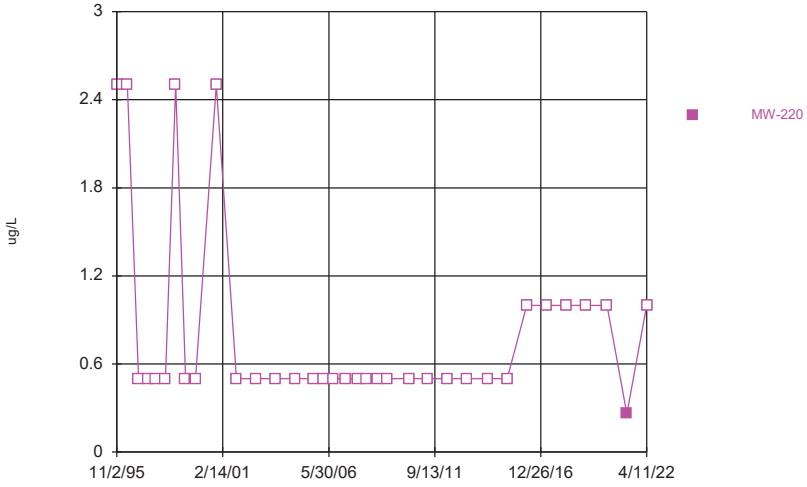
## Time Series




Constituent: Xylenes [total] Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

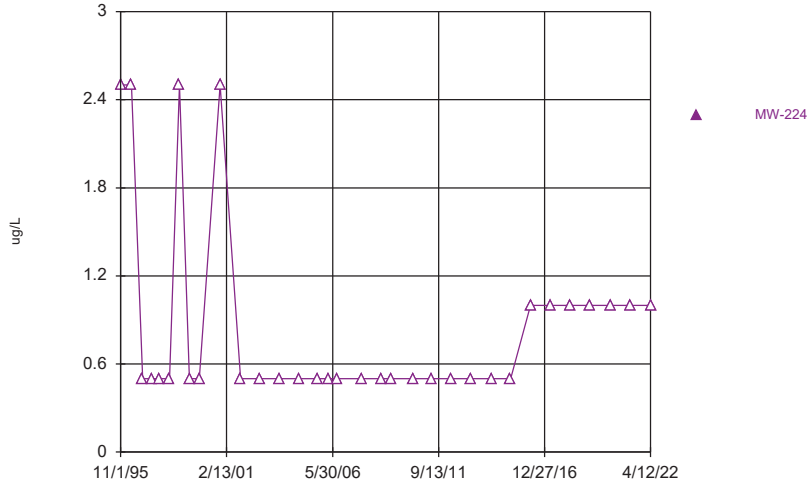
## Time Series




Constituent: Xylenes [total] Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series



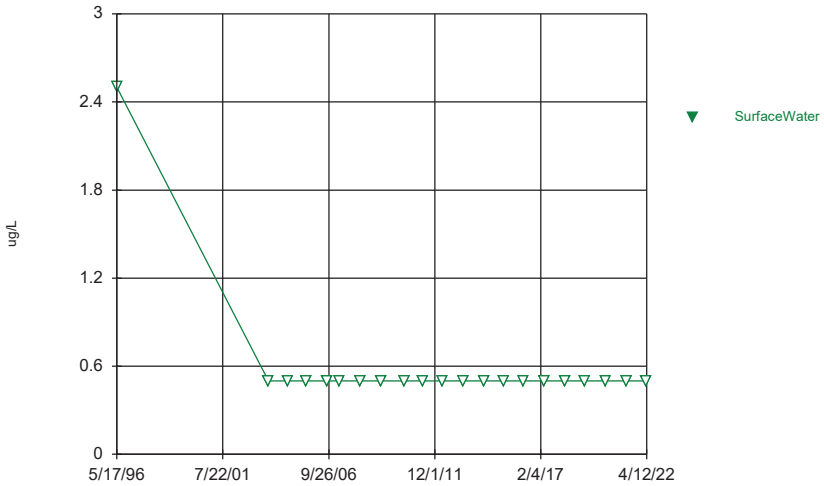

Constituent: Xylenes [total] Analysis Run 5/3/2022 10:42 AM View: UIU Time Series
Summit National Site Client: Summit National Site Data: Summit.National.Database

# APPENDIX F

# TIME-SERIES PLOTS OF VOC RESULTS, S&E SURFACE WATER

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

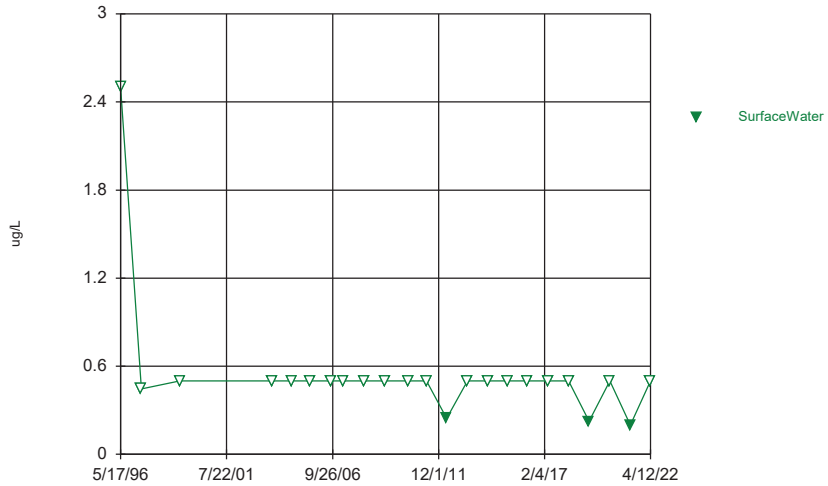
Time Series




Constituent: 1,1,1-Trichloroethane Analysis Run 5/3/2022 10:56 AM View: Surface Water TS
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

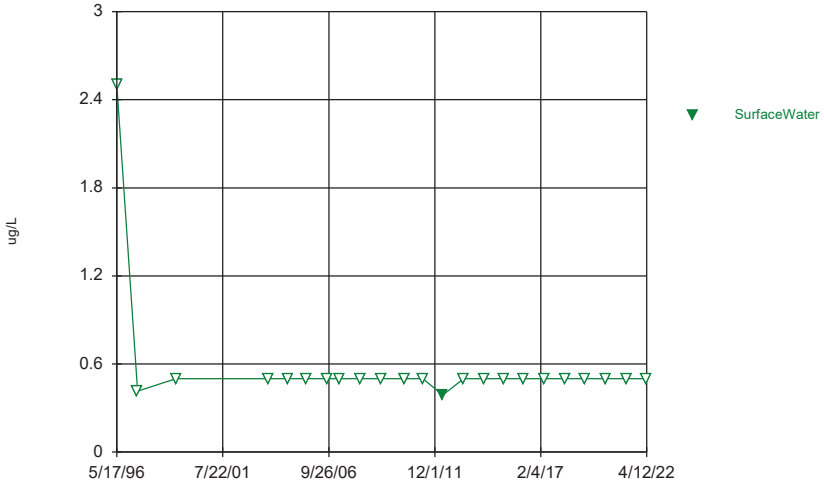
Time Series




Constituent: 1,1-Dichloroethane Analysis Run 5/3/2022 10:56 AM View: Surface Water TS
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

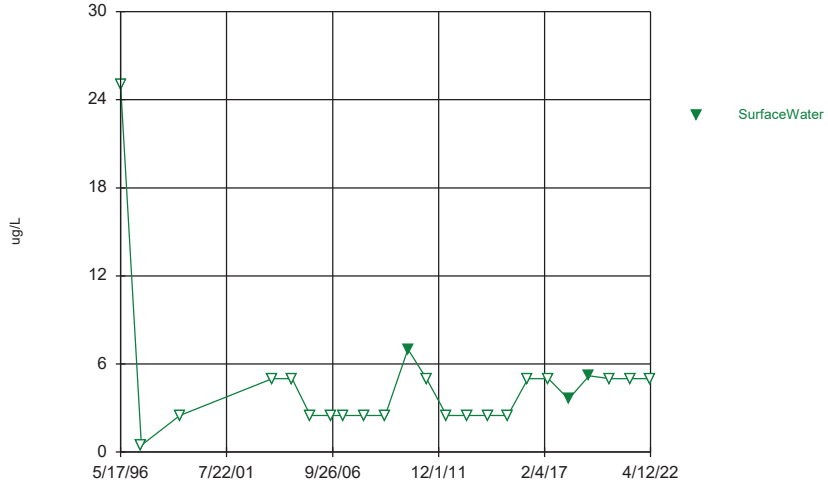
Time Series




Constituent: 1,2-Dichloroethane Analysis Run 5/3/2022 10:56 AM View: Surface Water TS
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

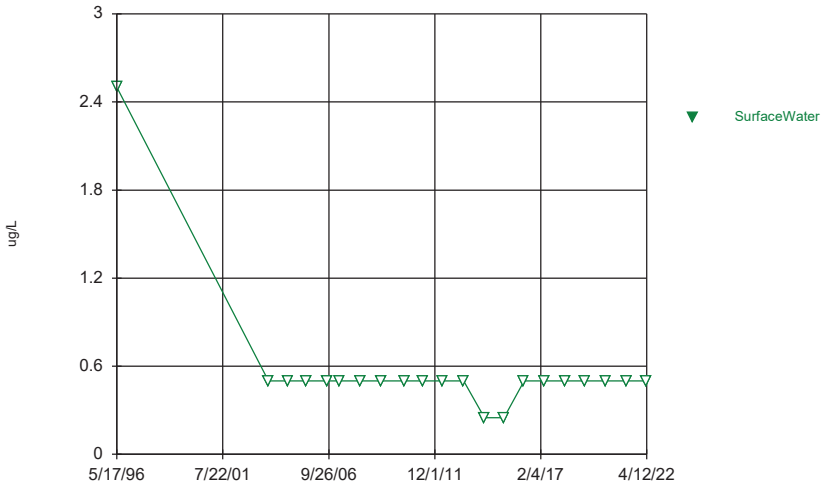
Time Series




Constituent: Acetone Analysis Run 5/3/2022 10:57 AM View: Surface Water TS
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

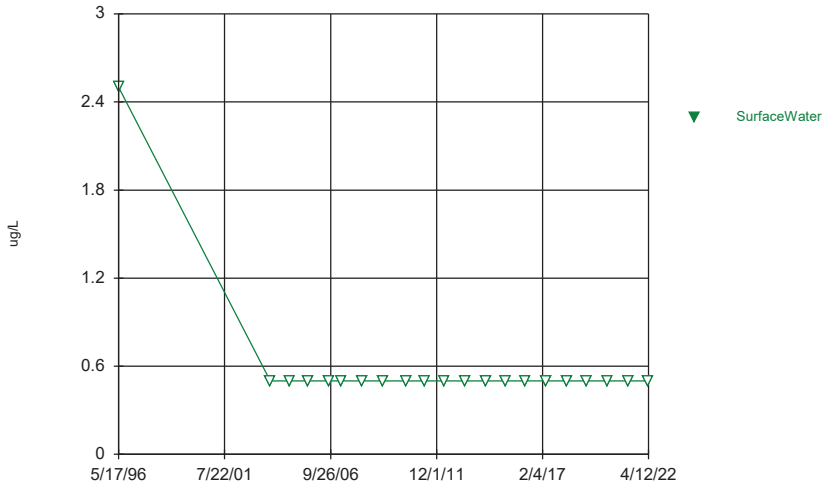
## Time Series




Constituent: Benzene Analysis Run 5/3/2022 10:57 AM View: Surface Water TS
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

## Time Series




Constituent: Chlorobenzene Analysis Run 5/3/2022 10:57 AM View: Surface Water TS
Summit National Site Client: Summit National Site Data: Summit.National.Database

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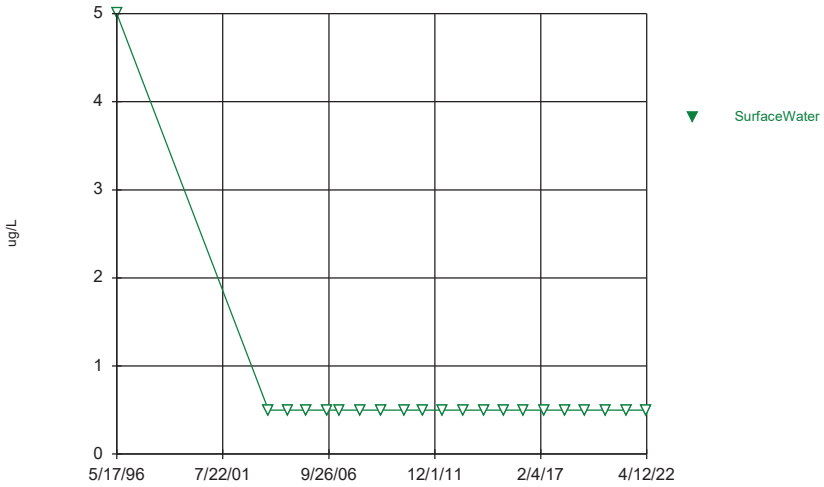
Hollow symbols indicate censored values.

## Time Series




Constituent: Chloroethane Analysis Run 5/3/2022 10:57 AM View: Surface Water TS
Summit National Site Client: Summit National Site Data: Summit.National.Database

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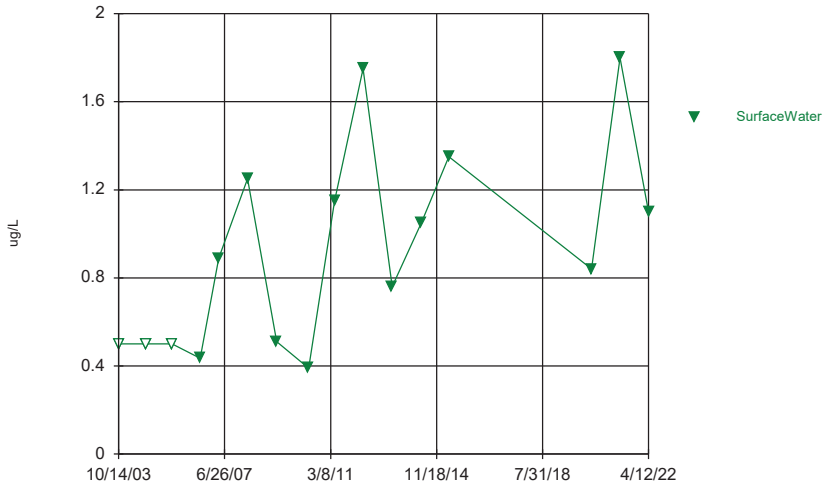
Hollow symbols indicate censored values.

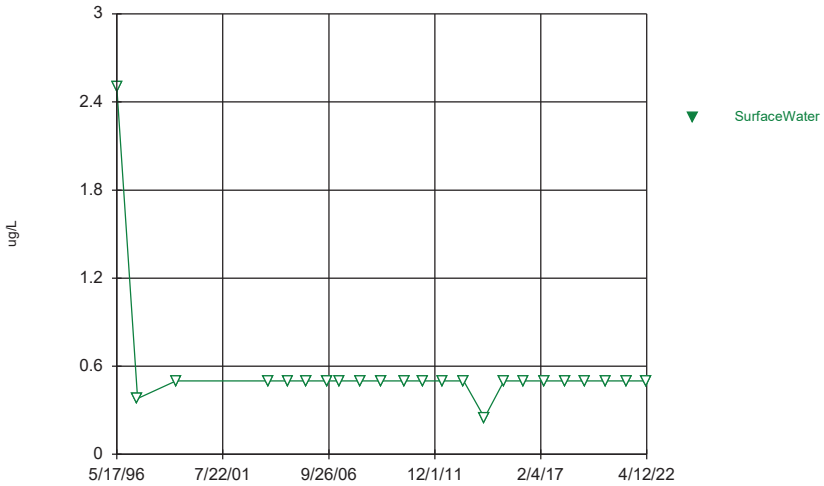
## Time Series




Constituent: cis-1,2-Dichloroethene Analysis Run 5/3/2022 10:57 AM View: Surface Water TS
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

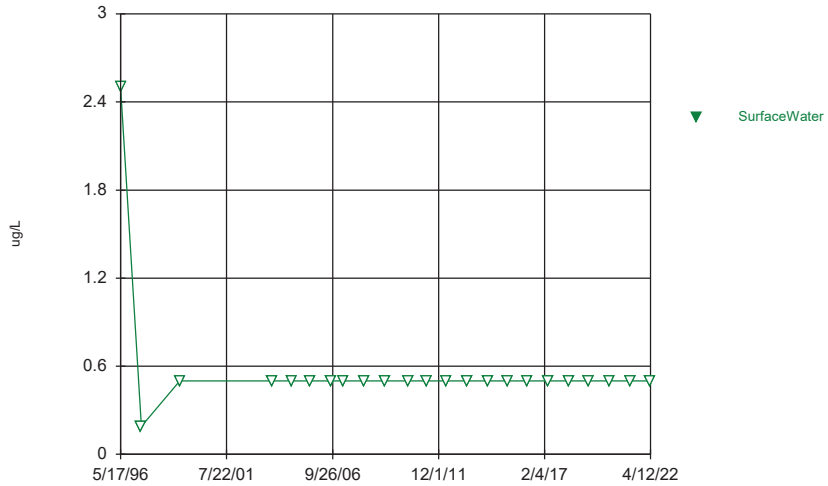
## Time Series




Constituent: Ethylbenzene Analysis Run 5/3/2022 10:57 AM View: Surface Water TS
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

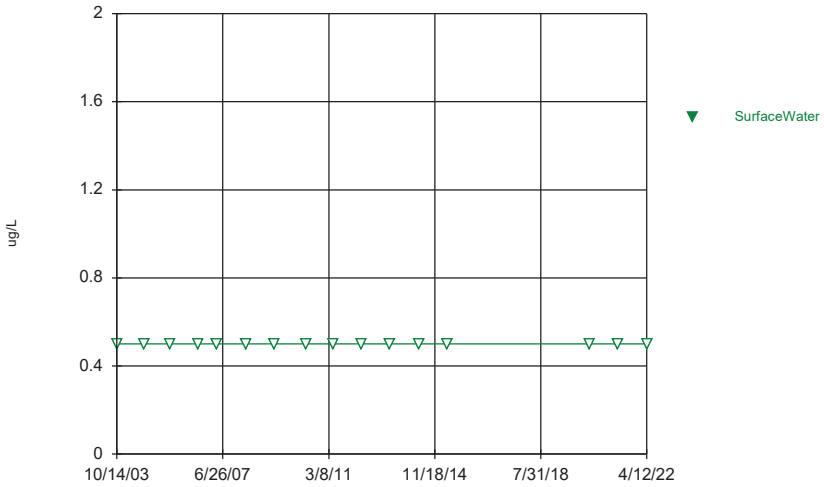
## Time Series




Constituent: Toluene Analysis Run 5/3/2022 10:57 AM View: Surface Water TS
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

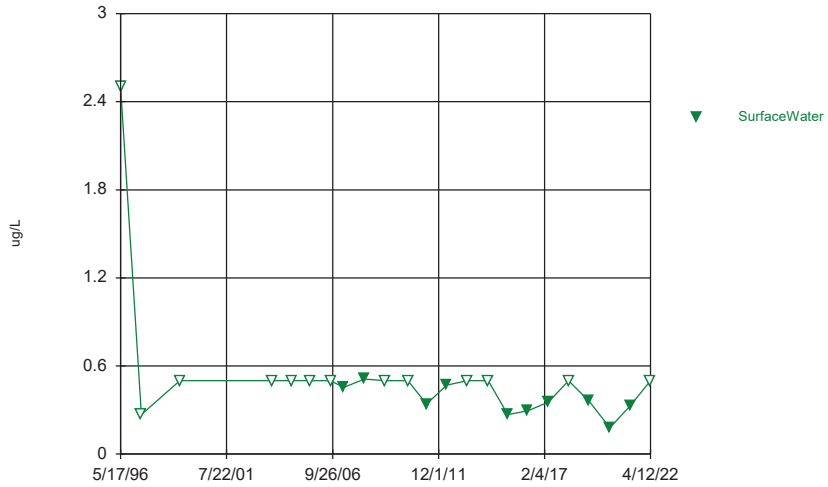
## Time Series




Constituent: trans-1,2-Dichloroethene Analysis Run 5/3/2022 10:57 AM View: Surface Water TS
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

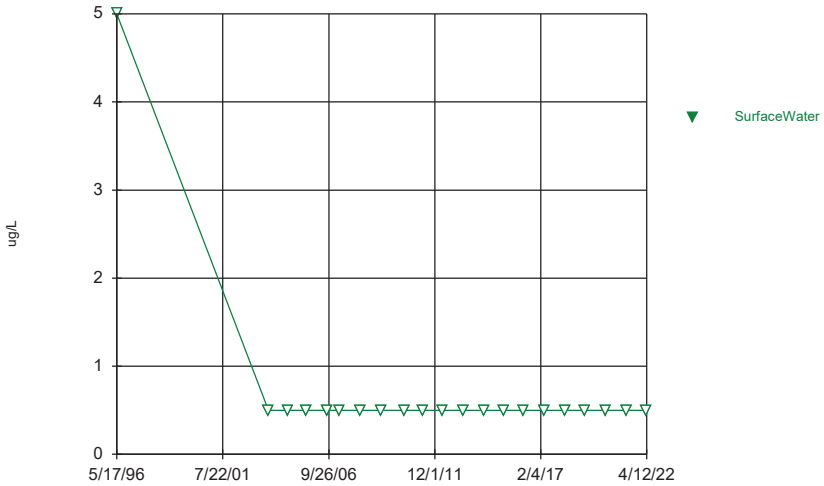
## Time Series




Constituent: Trichloroethene Analysis Run 5/3/2022 10:57 AM View: Surface Water TS
Summit National Site Client: Summit National Site Data: Summit.National.Database

Hollow symbols indicate censored values.

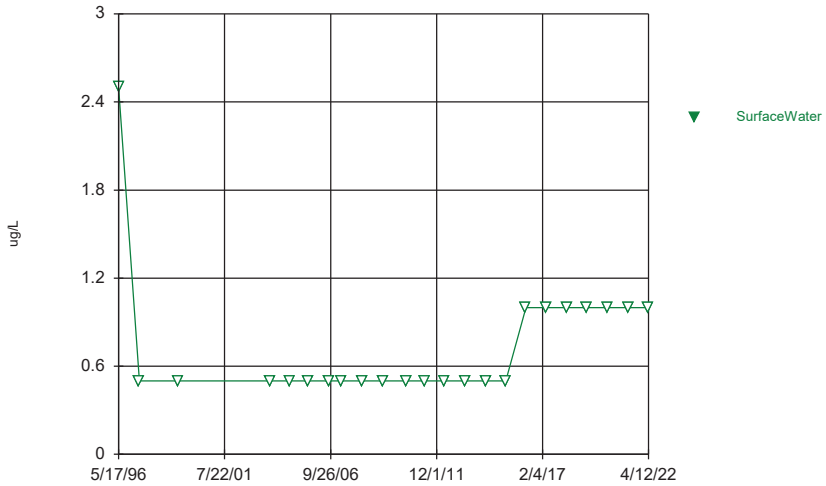
Time Series




Constituent: Vinyl chloride Analysis Run 5/3/2022 10:57 AM View: Surface Water TS
Summit National Site Client: Summit National Site Data: Summit.National.Database

Sanitas™ v.9.6.32 Software licensed to Eagon & Associates, Inc. UG
Hollow symbols indicate censored values.

Time Series




Constituent: Xylenes [total] Analysis Run 5/3/2022 10:57 AM View: Surface Water TS
Summit National Site Client: Summit National Site Data: Summit.National.Database

# APPENDIX G – SITE INSPECTION CHECKLIST

**Site Inspection Checklist**

| I. SITE INFORMATION | |
|---|---|
| **Site name:**<br>**Summit National Superfund Site** | **Date of inspection:**<br>**11/15/2022** |
| **Location and Region:**<br>**DEERFIELD TOWNSHIP, OH 44411** | **EPA ID:**<br>**OHD980609994** |
| **Agency, office, or company leading the FYR:**<br>EPA Region 5 | **Weather/temperature:**<br>Overcast, cold, no precipitation |

**Remedy Includes**: (Check all that apply)

| | |
|---|---|
| ☒ Landfill cover/containment | ☐ Monitored natural attenuation |
| ☒ Access controls | ☐ Groundwater containment |
| ☒ Institutional controls | ☐ Vertical barrier walls |
| ☒ Groundwater pump and treatment | ☐ Other: Click or tap here to enter text. |
| ☒ Surface water collection and treatment | |

**Attachments:**

| | |
|---|---|
| ☒ Inspection team roster attached | ☒ Site map attached |

**II. INTERVIEWS** (Check all that apply)

1. **O&M Site Manager** **Mike Gibson, Site Manager, 11/15/2022**

   Interviewed: ☒ at site ☐ at office ☐ by phone Phone Number: 614-565-0158

   Problems, suggestions: ☐ Report attached

   **No problems or suggestions.**

2. **O&M Staff** **Joe Montello, Senior Manager, 11/15/2022**

   Interviewed: ☒ at site ☐ at office ☐ by phone Phone Number: Click here to enter text.

   Problems, suggestions: ☐ Report attached

   **None noted**

3. **Local regulatory authorities and response agencies** (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.

   Agency: Ohio EPA

   Contact: Ed Damato, Project Manager, 11/15/2022, P: 330-963-1170

   Problems, suggestions: ☐ Report attached

   None noted

   Agency: Click or tap here to enter text.

   Contact: Name , Title , Click or tap to enter a date., P: Phone Number

   Problems, suggestions: ☐ Report attached

   Click or tap here to enter text.

   Agency: Click or tap here to enter text.

   Contact: Name , Title , Click or tap to enter a date., P: Phone Number

   Problems, suggestions: ☐ Report attached

   Click or tap here to enter text.

   Agency: Click or tap here to enter text.

   Contact: Name , Title , Click or tap to enter a date., P: Phone Number

   Problems, suggestions:

   Click or tap here to enter text.

4. **Other Interviews (optional):** ☐ Report attached

   Click or tap here to enter text.

**III. ON-SITE DOCUMENTS & RECORDS VERIFIED** (Check all that apply)

**Site Inspection Checklist**

| | | | | |
|---|---|---|---|---|
| **1.** | **O&M Documents** | | | |
| | ☒ O&M manual | ☒ Readily available | ☐ Up to date | ☐ N/A |
| | ☒ As-built drawings | ☒ Readily available | ☐ Up to date | ☐ N/A |
| | ☒ Maintenance logs | ☒ Readily available | ☐ Up to date | ☐ N/A |
| | Remarks: Click or tap here to enter text. | | | |
| **2.** | **Site-Specific Health and Safety Plan** | | ☒ Readily available | |
| | ☒ Contingency Plan/Emergency Response Plan | | ☒ Readily available | |
| | Remarks: Click or tap here to enter text. | | | |
| **3.** | **O&M and OSHA Training Records** | | | |
| | | ☒ Readily available | ☒ Up to date | ☐ N/A |
| | Remarks: Click or tap here to enter text. | | | |
| **4.** | **Permits and Service Agreements** | | | |
| | ☐ Air discharge permit | ☐ Readily available | ☐ Up to date | ☒ N/A |
| | ☐ Effluent discharge | ☐ Readily available | ☐ Up to date | ☒ N/A |
| | ☐ Waste disposal, POTW | ☐ Readily available | ☐ Up to date | ☒ N/A |
| | ☐ Other permits: Click or tap here to enter text. | | | |
| | Remarks: Click or tap here to enter text. | | | |
| **5.** | **Gas Generation Records** | | | |
| | | ☐ Readily available | ☐ Up to date | ☒ N/A |
| | Remarks: Click or tap here to enter text. | | | |
| **6.** | **Settlement Monument Records** | | | |
| | | ☐ Readily available | ☐ Up to date | ☒ N/A |
| | Remarks: Click or tap here to enter text. | | | |
| **7.** | **Groundwater Monitoring Records** | | | |
| | | ☒ Readily available | ☒ Up to date | ☐ N/A |
| | Remarks: Click or tap here to enter text. | | | |
| **8.** | **Leachate Extraction Records** | | | |
| | | ☐ Readily available | ☐ Up to date | ☒ N/A |
| | Remarks: Click or tap here to enter text. | | | |
| **9.** | **Discharge Compliance Records** | | | |

| | | | |
|---|---|---|---|
| ☐ Air | ☐ Readily available | ☐ Up to date | ☒ N/A |
| ☐Water (effluent) | ☐ Readily available | ☐ Up to date | ☒ N/A |

Remarks: Click or tap here to enter text.

**10. Daily Access/Security Logs**

☒ Readily available ☒ Up to date ☐ N/A

Remarks: No ongoing issues.

## IV. O&M COSTS

**1. O&M Organization**

☐ State in-house ☐ Contractor for State

☐ PRP in-house ☒ Contractor for PRP

☐ Federal Facility in-house ☐ Contractor for Federal Facility

Remarks: Click or tap here to enter text.

**2. O&M Cost Records**

☒Readily available ☒ Up to date ☒ Funding mechanism/agreement in place

Original O&M cost estimate Click or tap here to enter text. ☐ Breakdown attached

Total annual cost by year for review period if available

| From | To | Total cost | |
|---|---|---|---|
| Click or tap to enter a date. | Click or tap to enter a date. | Click or tap here to enter text. | ☐ Breakdown attached |
| From | To | Total cost | |
| Click or tap to enter a date. | Click or tap to enter a date. | Click or tap here to enter text. | ☐ Breakdown attached |
| From | To | Total cost | |
| Click or tap to enter a date. | Click or tap to enter a date. | Click or tap here to enter text. | ☐ Breakdown attached |
| From | To | Total cost | |
| Click or tap to enter a date. | Click or tap to enter a date. | Click or tap here to enter text. | ☐ Breakdown attached |
| From | To | Total cost | |
| Click or tap to enter a date. | Click or tap to enter a date. | Click or tap here to enter text. | ☐ Breakdown attached |

**3. Unanticipated or Unusually High O&M Costs During Review Period**

Describe costs and reasons:

Click or tap here to enter text.

## V. ACCESS AND INSTITUTIONAL CONTROLS

**Site Inspection Checklist**

| | | | | |
|---|---|---|---|---|
| | ☒ Applicable | | ☐ N/A | |
| **1. Fencing Damaged** | ☐ Location shown on site map | | ☒ Gates secured | ☐ N/A |
| Remarks: Click or tap here to enter text. | | | | |
| **2. Other Access Restrictions** | ☐ Location shown on site map | | ☒ Gates secured | |
| Remarks: Click or tap here to enter text. | | | | |
| **3. Institutional Controls (ICs)** | | | | |
| **A. Implementation and Enforcement** | | | | |
| Site conditions imply ICs not properly implemented | | ☐ Yes | ☒ No | ☐ N/A |
| Site conditions imply ICs not being fully enforced | | ☐ Yes | ☒ No | ☐ N/A |
| Type of monitoring (*e.g.*, self-reporting, drive by) | | Self-reporting | | |
| Frequency | | Bi-monthly | | |
| Responsible party/agency | | PRP – Summit National Trust | | |
| Contact: Name , Title , Click or tap to enter a date., P: Phone Number | | | | |
| Reporting is up-to-date | | ☒ Yes | ☐ No | ☐ N/A |
| Reports are verified by the lead agency | | ☒ Yes | ☐ No | ☐ N/A |
| Specific requirements in deed or decision documents have been met | | ☒ Yes | ☐ No | ☐ N/A |
| Violations have been reported | | ☐ Yes | ☐ No | ☒ N/A |
| Other problems or suggestions: | | | | |
| Click or tap here to enter text. | | | | |
| **B. Adequacy** | ☒ ICs are adequate | ☐ ICs are inadequate | ☐ N/A | |
| Remarks: Click or tap here to enter text. | | | | |
| **4. General** | | | | |
| **A. Vandalism/Trespassing** | ☐ Location shown on site map | | ☒ No vandalism evident | |
| Remarks: Click or tap here to enter text. | | | | |
| **B. Land use changes on site** | | ☒ N/A | | |
| Remarks: Click or tap here to enter text. | | | | |
| **C. Land use changes off site** | | ☒ N/A | | |
| Remarks: Click or tap here to enter text. | | | | |
| **VI. GENERAL SITE CONDITIONS** | | | | |

| | | | |
|---|---|---|---|
| **1. Roads** | | ☒ Applicable | ☐ N/A |
| **A. Roads damaged** | ☐ Location shown on site map | ☒ Roads adequate | ☐ N/A |
| Remarks: Click or tap here to enter text. | | | |
| **B. Other Site Conditions** | | | |
| Remarks: Click or tap here to enter text. | | | |
| **VII. LANDFILL COVERS** | | | |
| **1. Landfill Surface** | | ☒ Applicable | ☐ N/A |
| **A. Settlement (Low Spots)** | ☐ Location Shown on Site Map | ☒ Settlement Not Evident | |
| Areal Extent: Click or tap here to enter text. | | Depth: Click or tap here to enter text. | |
| Remarks: Click or tap here to enter text. | | | |
| **B. Cracks** | ☐ Location Shown on Site Map | ☒ Cracking Not Evident | |
| Lengths: Click or tap here to enter text. | Widths: Click or tap here to enter text. | Depths: Click or tap here to enter text. | |
| Remarks: Click or tap here to enter text. | | | |
| **C. Erosion** | ☐ Location Shown on Site Map | ☒ Erosion Not Evident | |
| Areal Extent: Click or tap here to enter text. | | Depth: Click or tap here to enter text. | |
| Remarks: Click or tap here to enter text. | | | |
| **D. Holes** | ☐ Location Shown on Site Map | ☒ Holes Not Evident | |
| Areal Extent: Click or tap here to enter text. | | Depth: Click or tap here to enter text. | |
| Remarks: Click or tap here to enter text. | | | |
| **E. Vegetative Cover** | ☒ Grass | ☒ Cover Properly Established | |
| ☐ Tress/Shrubs (indicate size and locations on a diagram | | ☐ No Signs of Stress | |
| Remarks: Click or tap here to enter text. | | | |
| **F. Alternative Cover (armored rock, concrete, etc.)** | | ☒ N/A | |
| Remarks: Click or tap here to enter text. | | | |
| **G. Bulges** | ☐ Location Shown on Site Map | ☒ Bulges Not Evident | |
| Areal Extent: Click or tap here to enter text. | | Height: Click or tap here to enter text. | |
| Remarks: Click or tap here to enter text. | | | |
| **H. Wet Areas/Water Damage** | | ☐ Wet Areas/Water Damage Not Evident | |
| ☐ Wet Areas | ☐ Location Shown on Site Map | Areal Extent: Click or tap here to enter text. | |

| | | |
|---|---|---|
| ☒ Ponding | ☐ Location Shown on Site Map | Areal Extent: Small areas from rain in the previous days. Less than a foot wide in most places. |
| ☐ Seeps | ☐ Location Shown on Site Map | Areal Extent: Click or tap here to enter text. |
| ☐ Soft Subgrade | ☐ Location Shown on Site Map | Areal Extent: Click or tap here to enter text. |

Remarks: Click or tap here to enter text.

| | | |
|---|---|---|
| **I. Slope Instability** | ☐ Location Shown on Site Map | ☒ Slope Instability Not Evident |
| | ☐ Slides | Areal Extent: Click or tap here to enter text. |

Remarks: Click or tap here to enter text.

**2. Benches** ☐ Applicable ☒ N/A

(Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.)

**A. Flows Bypass Bench** ☐ Location Shown on Site Map ☒ N/A or Okay

Remarks: Click or tap here to enter text.

**B. Bench Breached** ☐ Location Shown on Site Map ☒ N/A or Okay

Remarks: Click or tap here to enter text.

**C. Bench Overtopped** ☐ Location Shown on Site Map ☒ N/A or Okay

Remarks: Click or tap here to enter text.

**3. Letdown Channels** ☐ Applicable ☒ N/A

(Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.)

**A. Settlement** ☐ Location Shown on Site Map ☐ Settlement Not Evident

Areal Extent: Click or tap here to enter text. Depth: Click or tap here to enter text.

Remarks: Click or tap here to enter text.

**B. Material Degradation** ☐ Location Shown on Site Map ☐ Degradation Not Evident

Material Type: Click or tap here to enter text. Areal Extent: Click or tap here to enter text.

Remarks: Click or tap here to enter text.

**C. Erosion** ☐ Location Shown on Site Map ☐ Erosion Not Evident

Areal Extent: Click or tap here to enter text. Depth: Click or tap here to enter text.

Remarks: Click or tap here to enter text.

**D. Undercutting** ☐ Location Shown on Site Map ☐ Undercutting Not Evident

Areal Extent: Click or tap here to enter text. Depth: Click or tap here to enter text.

Remarks: Click or tap here to enter text.

**E. Obstructions** ☐ Location Shown on Site Map ☐ Undercutting Not Evident

Type: Click or tap here to enter text.

Areal Extent: Click or tap here to enter text. Size: Click or tap here to enter text.

Remarks: Click or tap here to enter text.

**F. Excessive Vegetative Growth** ☐ Location Shown on Site Map ☐ Excessive Growth Not Evident

Areal Extent: Click or tap here to enter text. ☐ Vegetation in channels does not obstruct flow

Remarks: Click or tap here to enter text.

**4. Cover Penetrations** ☒ Applicable ☒ N/A

**A. Gas Vents** ☐ Active ☐ Passive

☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled

☐ Good condition ☐ Evidence of leakage at penetration

☐ Needs Maintenance ☒ N/A

Remarks: Click or tap here to enter text.

**B. Gas Monitoring Probes**

☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled

☐ Good condition ☐ Evidence of leakage at penetration

☐ Needs Maintenance ☒ N/A

Remarks: Click or tap here to enter text.

**C. Monitoring Wells**

☒ Properly secured/locked ☒ Functioning ☒ Routinely sampled

☒ Good condition ☐ Evidence of leakage at penetration

☐ Needs Maintenance ☐ N/A

Remarks: Clearly marked, clearly visible, and secured.

**D. Leachate Extraction Wells**

☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled

☐ Good condition ☐ Evidence of leakage at penetration

☐ Needs Maintenance ☒ N/A

Remarks: Click or tap here to enter text.

**E. Settlement Monuments** ☐ Located ☐ Routinely Surveyed ☒ N/A

Remarks: Click or tap here to enter text.

**5. Gas Collection and Treatment** ☐ Applicable ☒ N/A

**A. Gas Treatment Facilities**

☐ Flaring ☐ Thermal Destruction ☐ Collection for Reuse

☐ Good condition ☐ Needs Maintenance

Remarks: Click or tap here to enter text.

**B. Gas Collection Wells, Manifolds, and Piping**

☐ Good condition ☐ Needs Maintenance ☐ N/A

Remarks: Click or tap here to enter text.

**C. Gas Monitoring Facilities (e.g. gas monitoring of adjacent homes or buildings)**

☐ Good condition ☐ Needs Maintenance ☐ N/A

Remarks: Click or tap here to enter text.

**6. Cover Drainage Layer** ☐ Applicable ☒ N/A

**A. Outlet Pipes Inspected** ☐ Functioning ☐ N/A

Remarks: Click or tap here to enter text.

**B. Outlet Rock Inspected** ☐ Functioning ☐ N/A

Remarks: Click or tap here to enter text.

**7. Detention/Sediment Ponds** ☐ Applicable ☒ N/A

**A. Siltation** ☐ Siltation Not Evident ☐ N/A

Areal Extent: Click or tap here to enter text. Depth: Click or tap here to enter text.

Remarks: Click or tap here to enter text.

**B. Erosion** ☐ Erosion Not Evident

Areal Extent: Click or tap here to enter text. Depth: Click or tap here to enter text.

Remarks: Click or tap here to enter text.

**C. Outlet Works** ☐ Functioning ☐ N/A

Remarks: Click or tap here to enter text.

| | | |
|---|---|---|
| **D. Dam** | ☐ Functioning | ☐ N/A |
| Remarks: Click or tap here to enter text. | | |
| **8. Retaining Walls** | ☐ Applicable | ☒ N/A |
| **A. Deformations** | ☐ Location Shown on Site Map | ☐ Deformation Not Evident |
| Horizontal Displacement: Click or tap here to enter text. | | |
| Vertical Displacement: Click or tap here to enter text. | | |
| Rotational Displacement: Click or tap here to enter text. | | |
| Remarks: Click or tap here to enter text. | | |
| **B. Degradation** | ☐ Location Shown on Site Map | ☐ Deformation Not Evident |
| Remarks: Click or tap here to enter text. | | |
| **9. Perimeter Ditches/Off-Site Discharge** | ☐ Applicable | ☒ N/A |
| **A. Siltation** | ☐ Location Shown on Site Map | ☐ Siltation Not Evident |
| Areal Extent: Click or tap here to enter text. | Depth: Click or tap here to enter text. | |
| Remarks: Click or tap here to enter text. | | |
| **B. Vegetative Growth** | ☐ Location Shown on Site Map | ☐ N/A |
| ☐ Vegetation Does Not Impede Flow | | |
| Areal Extent: Click or tap here to enter text. | Type: Click or tap here to enter text. | |
| Remarks: Click or tap here to enter text. | | |
| **C. Erosion** | ☐ Location Shown on Site Map | ☐ Erosion Not Evident |
| Areal Extent: Click or tap here to enter text. | Depth: Click or tap here to enter text. | |
| Remarks: Click or tap here to enter text. | | |
| **D. Discharge Structure** | ☐ Functioning | ☐ N/A |
| Remarks: Click or tap here to enter text. | | |
| **VIII. VERTICAL BARRIER WALLS** | | |
| ☐ Applicable | ☒ N/A | |
| **1. Settlement** | ☐ Location Shown on Site Map | ☐ Settlement Not Evident |
| Areal Extent: Click or tap here to enter text. | Depth: Click or tap here to enter text. | |
| Remarks: Click or tap here to enter text. | | |
| **2. Performance Monitoring** | Type of Monitoring: Click or tap here to enter text. | |
| ☐ Performance Not Monitored | ☐ Evidence of Breaching | |

Frequency: Click or tap here to enter text. Head Differential: Click or tap here to enter text.

Remarks: Click or tap here to enter text.

## IX. GROUNDWATER/SURFACE WATER REMEDIES

| ☒ Applicable | ☐ N/A |
|---|---|

**1. Groundwater Extraction Wells, Pumps, and Pipelines** ☒ Applicable ☐ N/A

**A. Pumps, Wellhead Plumbing, and Electrical** ☐ N/A

☐ Good Condition ☒ All Required Wells Properly Operating ☐ Needs Maintenance

Remarks: Click or tap here to enter text.

**B. Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances**

☒ Good Condition ☐ Needs Maintenance

Remarks: System is in currently on site but has been shutdown since 1995 and will be removed soon. Remains on site, in the event of any need for further treatment at the site, a new system will be put in place.

**C. Spare Parts and Equipment** ☐ Needs to be Provided

☐ Readily Available ☐ Good Condition ☐ Requires Upgrade

Remarks: Click or tap here to enter text.

**2. Surface Water Collection Structures, Pumps, and Pipelines** ☐ Applicable ☒ N/A

**A. Collection Structures, Pumps, and Electrical**

☐ Good Condition ☐ Needs Maintenance

Remarks: Click or tap here to enter text.

**B. Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances**

☐ Good Condition ☐ Needs Maintenance

Remarks: Click or tap here to enter text.

**C. Spare Parts and Equipment** ☐ Needs to be Provided

☐ Readily Available ☐ Good Condition ☐ Requires Upgrade

Remarks: Click or tap here to enter text.

**3. Treatment System** ☐ Applicable ☒ N/A

**A. Treatment Train (Check components that apply)**

☐ Metals removal ☐ Oil/Water Separation ☐ Bioremediation

☐ Air Stripping ☐ Carbon Absorbers

☐ Filters Click or tap here to enter text.

☐ Additive (e.g. chelation agent, flocculent) Click or tap here to enter text.

☐ Others Click or tap here to enter text.

☐ Good Condition ☒ Needs Maintenance

☐ Sampling ports properly marked and functional

☐ Sampling/maintenance log displayed and up to date

☐ Equipment properly identified

☐ Quantity of groundwater treated annually Click or tap here to enter text.

☐ Quantity of surface water treated annually Click or tap here to enter text.

Remarks: System is in currently on site but has been shutdown since 1995 and will be removed soon. Remains on site, in the event of any need for further treatment at the site, a new system will be put in place.

**B. Electrical Enclosures and Panels (properly rated and functional)**

☐ N/A ☒ Good Condition ☐ Needs Maintenance

Remarks: Click or tap here to enter text.

**C. Tanks, Vaults, Storage Vessels** ☐ N/A

☐ Proper Secondary Containment ☒ Good Condition ☐ Needs Maintenance

Remarks: Click or tap here to enter text.

**D. Discharge Structure and Appurtenances**

☐ N/A ☒ Good Condition ☐ Needs Maintenance

Remarks: Click or tap here to enter text.

**E. Treatment Building(s)**

☐ N/A ☒ Good condition (esp. roof and doorways)

☐ Needs repair ☒ Chemicals and equipment properly stored

Remarks Click or tap here to enter text.

**F. Monitoring Wells (Pump and Treatment Remedy)** ☐ N/A

☒ Properly secured/locked ☒ Functioning

☒ Routinely sampled ☒ All required wells located

☒ Good condition ☐ Needs Maintenance

Remarks Click or tap here to enter text.

**4. Monitoring Data**

**A. Monitoring Data:**

☒ Is Routinely Submitted on Time ☒ Is of Acceptable Quality

**B. Monitoring Data Suggests:**

☒ Groundwater plume is effectively contained ☒ Contaminant concentrations are declining

**5. Monitored Natural Attenuation**

**A. Monitoring Wells (natural attenuation remedy)** ☐ N/A

☒ Properly secured/locked ☒ Functioning ☒ Routinely sampled

☒ All required wells located ☐ Needs Maintenance ☒ Good condition

Remarks: Click or tap here to enter text.

## X. OTHER REMEDIES

If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.

## XI. OVERALL OBSERVATIONS

**1. Implementation of the Remedy**

Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).

No issues with the remedy observed.

**2. Adequacy of O&M**

Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.

O&M activities are adequate and effective in preserving the long-term protectiveness of the remedy.

**3. Early Indicators of Potential Remedy Problems**

Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs that suggest that the protectiveness of the remedy may be compromised in the future.

No potential problems observed.

**4. Early Indicators of Potential Remedy Problems**

Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.

No optimization opportunities noted.

**Site Inspection Appendix A: Summit National Superfund Site Photos**

Photo 1: Site entrance gate.

Photo 2: Former water treatment system building.

Photo 3: Monitoring well cluster.

Photo 4: Southwest Corner of site

Photo 5: Western Side of the Site.

Photo 6: Southeast portion of the site.