

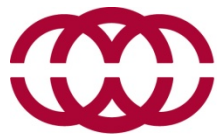
**FINAL
2015 ANNUAL MONITORING WELL SAMPLING
REPORT**

**MOHONK ROAD INDUSTRIAL PLANT SITE
HAMLET OF HIGH FALLS, ULSTER COUNTY, NEW YORK**

PREPARED FOR:

U.S. ARMY CORPS OF ENGINEERS

PREPARED BY:



**J.M.WALLER[®]
ASSOCIATES, INC.**

MANAGING THE VISION[®]

A SERVICE DISABLED VETERAN OWNED SMALL BUSINESS

June 2016

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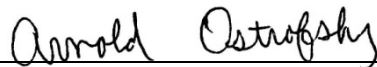
June 2016



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ACRONYMS AND ABBREVIATIONS

CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CLP	Contract Laboratory Program
COCs	contaminants of concern
CRQL	EPA contract-required quantification level
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
DQCRs	Daily Quality Control Reports
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
FLUTE™	Flexible Liner Underground Technologies, Inc.
HFWD	High Falls Water District
IIWA	Immediate Investigation Work Assignment
J. M. Waller	J. M. Waller Associates, Inc.
LTM	Long-Term Groundwater Monitoring
µg/L	micrograms per liter
MCL	Maximum Contaminant Level
MEE	methane, ethane, and ethene
MNA	monitored natural attenuation
MRIP	Mohonk Road Industrial Plant
NYCRR	New York Codes, Rules and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
O&M	Operation and Maintenance
ORP	Oxidation/Reduction Potential
OU	Operable Unit
PCE	Tetrachloroethene
PRPs	potentially responsible parties
RALs	removal action levels
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
SOP	Standard Operating Procedures
SOW	Statement of Work
SVE	Soil Vapor Extraction
1,1,1-TCA	1,1,1-trichloroethane
TCE	trichloroethene
TCL	Target Compound List
TOC	Total Organic Carbon
UFP-QAPP	Uniform Federal Policy - Quality Assurance Program Plan
UCHD	Ulster County Health Department

ACRONYMS AND ABBREVIATIONS (Continued)

USACE	U.S. Army Corps of Engineers
VI	vapor intrusion
VMS	vapor mitigation system
VOC	volatile organic compound

1.0 INTRODUCTION

This Annual Monitoring Well Sampling Report (Annual Report), for the November 2015 sampling event, has been prepared by J. M. Waller Associates, Inc. (J. M. Waller) under Contract No. W912DQ-12-D-3011, Task Order 0002, for the U.S. Army Corps of Engineers (USACE), Kansas City District.

The Mohonk Road Industrial Plant (MRIP) Superfund Site is presently under the jurisdiction of the Remedial Branch of the U.S. Environmental Protection Agency (EPA), Region 2, with USACE providing oversight to EPA. J. M. Waller is the prime contractor responsible for performing the activities described in the Statement of Work (SOW) including periodic recording of groundwater elevations, recording of water quality parameters, collection and analysis of groundwater samples, and associated reporting to provide:

- The lines of evidence of degradation/natural attenuation of the contaminants and breakdown products and of the progress of remedial activities.
- Evidence that the capture zone of the groundwater treatment plant continues to be maintained.
- Early notice that site-specific contamination may threaten private wells outside of the High Falls Water District (HFWD), a publicly-operated water supply system.

1.1 Report Format

This document consists of the following four sections:

- Section 1.0 provides a brief introduction and site background information.
- Section 2.0 describes field activities completed during this reporting period.
- Section 3.0 summarizes and evaluates groundwater sampling analytical results.
- Section 4.0 presents conclusions and recommendations.
- Section 5.0 lists references cited in this document.

Tables and figures referenced in the document are contained in separate sections at the end of the report text.

There are five appendices to this report, as follows:

- Appendix A: Daily Quality Control Reports (DQCRs)
- Appendix B: Monitoring Well Purge Logs
- Appendix C: Monitoring Well Analytical Data Summary Tables
- Appendix D: November 2015 Sampling Trip Report
- Appendix E: Mann-Kendall Analysis with COC Trend Graphs

1.2 Site Background

The site background information was obtained from the MRIP 5-Year review Report (EPA, 2014) and the Record of Decision (ROD) Amendment (EPA, 2008).

1.2.1 Site Location and Physical Description

The Site is located in the Hamlet of High Falls, the Towns of Marbletown and Rosendale, Ulster County, New York, approximately 7 miles north-northwest of the Village of New Paltz and 10 miles south-southwest of the City of Kingston (Figure 1). The Site includes the original MRIP property at 186 Mohonk Road and all surrounding properties impacted by the contaminated groundwater plume emanating from the MRIP property. The original MRIP property consisted of approximately 14.5 acres with a 43,000-square-foot building in its southern corner (Figure 2).

When the HFWD was formed, the original MRIP property was divided into two parcels in order to be able to construct the HFWD's new PWS treatment plant and water tower. The HFWD now owns approximately 7 acres of the original 14.5 acre MRIP property.

1.2.2 Geology/Hydrogeology

Three distinct water bearing zones have been identified at the Site: 1) an overburden (till) flow zone, 2) a bedrock interface flow zone (at the shallow soil/bedrock interface), and 3) a bedrock flow zone (the bedrock aquifer). The till, which dominates in the vicinity of the Site, is a highly compacted silt and fine-grained sand matrix and does not transmit water readily. The MRIP property is situated near a topographical high that serves as a recharge area for the bedrock aquifer. Regional groundwater flow is controlled by the structural geology of the area and is dominated by the orientation of the fractures within the bedrock aquifer in the Shawungunk

Formation. Groundwater flow is primarily to the north-northeast with localized variations to the west and east towards Rondout Creek and Coxing Kill. Vertical flow gradients on the MRIP property are generally downward; however, artesian or upward groundwater flow has been reported in several residential wells and monitoring wells within the vicinity but outside of the MRIP property.

The bedrock aquifer is designated as Class GA groundwater by the New York State Department of Environmental Conservation (NYSDEC). Class GA waters are fresh groundwaters found in the saturated zone of unconsolidated deposits and consolidated rock or bedrock. The best use of Class GA waters is as a source of potable water supply.

1.2.3 Land Use and Resources

The MRIP property is currently zoned for light industrial use. The Town of Marbletown maintains that it has no intent of modifying the zoning for the MRIP property. The MRIP property is currently used for non-industrial, commercial purposes. The most reasonably anticipated future use for the MRIP property remains commercial and light industrial (EPA, 2008).

The Site is located in an area of chiefly residential development. Since the creation of the HFWD and the construction and implementation of the High Falls PWS treatment plant and distribution system, private groundwater wells no longer provide potable water within the HFWD (EPA, 2008).

1.2.4 Historic Site Operations

The MRIP property has been used for industrial and commercial activities since the early 1960s until 1992 when industrial operations ceased. These activities included metal finishing, wet spray painting, and the manufacturing of store display fixtures, card punch machines, and computer frames. The septic field serving the former MRIP facility building was used to dispose of hazardous substance-containing wastes, such as solvents and wastes from paint and metal-working operations. In addition, drums, paint sludge, and other wastes were also buried in several locations on the MRIP property.

From 1960 to 1972, Varifab, Inc. owned the MRIP property and manufactured computer equipment which utilized solvents in the manufacturing operations. From 1972 to 1975, R.C. Ballard Corporation owned the MRIP property and conducted wet spray painting operations which also used solvents. For approximately six months, Mr. Richard C. Wilson (now deceased) owned

the MRIP property and the activities at the Site during his ownership are unknown. From 1976 until 1992, Mr. Daniel E. Gelles owned the MRIP property and plastic and metal manufacturing operations took place at the Site, which also used solvents. In 1992, Mr. Gelles conveyed the MRIP property to Banco Popular de Puerto Rico in connection with mortgage foreclosure proceedings. None of the prior industrial owner and or operators were determined to be viable potentially responsible parties (PRPs).

1.2.5 Monitoring Wells

NYSDEC has been investigating the MRIP Site since 1994. From 1996 to 1998, NYSDEC installed 20 monitoring wells and two extraction wells:

- Two monitoring wells in the overburden (MW-9 and MW-11).
- Five monitoring wells in shallow soil/bedrock (MW-1 through MW-5).
- Thirteen monitoring wells in bedrock (MW-1B, MW-5B through MW-15B, and MW-11C).
- Two bedrock extraction wells (MW-5R and MW-7R).

EPA installed four additional bedrock wells on the MRIP property (ERT-1 through ERT-4) in 1999 as part of the non-time critical removal action. Monitoring wells MW-16 through MW-20 were installed during 2003 and well MW-21 was installed during 2008. The construction details for the wells in the monitoring well network are provided in Table 1.

For the purposes of this report, the monitoring wells are also given a geographical descriptor based on their location: background, on-site, mid-plume, or perimeter. Figure 3 shows the layout and listing of the Long Term Monitoring (LTM) monitoring well network. The background well is located upgradient (i.e., southwest) of the groundwater plume. On-site wells are those monitoring wells which fall within the Site property boundary. Mid-plume wells are wells located outside of the property boundary and are generally located near the center of the volatile organic compound (VOC) plume. The perimeter wells are generally located at the perimeter of the groundwater plume.

The ROD divided the VOC plume into two categories based on the total VOC concentration: the “near-field plume” [total VOCs > 1,000 micrograms per liter (µg/L)] and the “far-field plume” (total

VOCs between 10 µg/L and 1,000 µg/L). It should be noted that only two of the monitoring wells (ERT-4 and MW-4) currently meet the criteria for the near-field designation.

1.2.6 Site Contamination

As a result of the historic use of solvents and other chemicals at the MRIP property, the Site groundwater has been contaminated with VOCs. The groundwater contaminants of concern (COCs) identified during previous investigations at the Site and specified in the ROD Amendment (EPA, 2008) are:

1. 1,1,1-Trichloroethane (1,1,1-TCA), an industrial solvent, the contaminant typically found in highest concentrations at the site.
2. 1,1-Dichloroethane (1,1-DCA), a breakdown product of 1,1,1-TCA.
3. 1,1-Dichloroethene (1,1-DCE), a breakdown product of 1,1,1-TCA.
4. Trichloroethene (TCE), an industrial solvent.
5. 1,4-Dioxane, a stabilizer associated with 1,1,1-TCA.

The Site-related groundwater plume extends approximately 4,000 feet downgradient from the MRIP property, and had historically adversely impacted at least 75 residential and commercial water supply wells. Residents and businesses within the area are currently obtaining potable water from the HFWD.

1.3 Previous Investigations and Interim Remedial Actions

The Site first came to the attention of state and local authorities in April 1994, when a resident near the MRIP property contacted the Ulster County Health Department (UCHD) regarding the quality of her drinking water. The resident's well was sampled in April 1994 by UCHD, and the sample was found to contain elevated levels of VOCs. Subsequent sampling performed by UCHD identified 71 other homes or businesses downgradient of the MRIP property with VOCs above Federal and/or New York State (NYS) Maximum Contaminant Levels (MCLs).

In August 1994, NYSDEC designated the Site as "Class 2" on the NYS Registry of Inactive Hazardous Waste Sites, identifying the Site as posing a significant threat to human health and the environment. From July 1994 through 1998, as an interim action to address immediate health threats, NYSDEC installed individual granular activated carbon filtration systems at

homes and businesses whose potable water supply exceeded the NYS MCLs of 5 µg/L for individual VOCs.

In the fall of 1996, NYSDEC conducted an Immediate Investigation Work Assignment (IIWA) at the Site to assess subsurface conditions within five suspected disposal areas. IIWA field activities included the collection of groundwater samples from five monitoring wells (MW-01 through MW-05), the collection of groundwater samples from the two supply wells at the MRIP property, the performance of a fracture trace and lineament study, and the collection of water and sludge samples from within an abandoned 1,000-gallon septic tank located north of the MRIP building.

Based on the findings of the IIWA, two sources of VOC contamination were identified on the MRIP property: 1) subsurface soil beneath the gravel driveway at the western end of the MRIP building which exhibited elevated concentrations of 1,1,1-TCA, tetrachloroethene (PCE), and cis-1,2-dichloroethene (cis-1,2-DCE) and 2) the abandoned septic tank, containing sludge which exhibited elevated concentrations of 1,1,1-TCA and 1,1-DCE. Additionally, an elevated concentration of 1,1,1-TCA (82,000 µg/L) was reported in monitoring well MW-4.

In 1996, NYSDEC initiated a remedial investigation/feasibility study (RI/FS) to characterize the nature and extent of on-property and off-property groundwater contamination. During May and June 1997, NYSDEC collected groundwater samples for VOC analysis from nine existing on-site monitoring wells, the in-service MRIP production well, 63 residential and business water supplies, and seven upgradient background wells. The analytical results showed that downgradient private water supplies contained 1,1,1-TCA concentrations ranging from non-detect to 880 µg/L, and total VOC concentrations ranging from 1.6 to 1,077 µg/L. The groundwater in the bedrock aquifer beneath the MRIP property exhibited VOC concentrations above the EPA removal action levels (RALs), federal and NYS MCLs, and New York State Department of Health (NYSDOH) Class GA Drinking Water Standards. In November 1996, a groundwater sample from shallow soil/bedrock well MW-4 was found to contain 87,000 µg/L of 1,1,1-TCA; 10,000 µg/L of 1,1-DCE; 6,700 µg/L 1,1-DCA; and 3,300 µg/L of TCE.

Between September 1997 and May 1998, RI field activities included performance of borehole geophysical surveys, aquifer testing, and groundwater sampling from all monitoring wells for VOCs, metals, and cyanide. In addition, the abandoned septic tank, its contents, and surrounding contaminated soil were excavated and removed from the Site. Analytical results

confirmed the presence of VOC-contaminated subsurface soils west of the MRIP building near the former septic tank.

The RI concluded that contamination entered the bedrock groundwater near the former septic tank and spread northward from the MRIP Property in the bedrock aquifer. The most concentrated portion of the VOC plume was detected in wells near the former septic tank. Subsequent rounds of sampling confirmed the high concentrations of these VOCs, and although levels decreased significantly after NYSDEC removed the septic tank in August 1997, the levels of VOCs remained elevated well above MCLs. Samples from the nearest downgradient bedrock monitoring well, MW-5B, also contained levels of 1,1,1-TCA, 1,1-DCA, 1,1-DCE and TCE above MCLs, with the total VOC levels consistently greater than 1,000 µg/L. Additionally, 1,4-dioxane was detected at the MRIP Property at concentrations above the 10 New York Codes, Rules and Regulations (NYCRR) Part 5 standard of 50 µg/L for "unspecified organic contaminants" (which includes 1,4-dioxane). Sampling of private wells indicated that 1,4-dioxane was present at concentrations ranging from 2 to 96 µg/L.

On March 11, 1998, EPA received a request from NYSDEC to evaluate the MRIP Site for a removal action under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). EPA initiated a non-time critical removal action which involved construction of a groundwater extraction and treatment system (the near field system), which was designed to minimize the further migration of the most highly contaminated portion of the groundwater plume in the aquifer. EPA authorized the treatment system's construction on June 4, 1999. A total of 532 tons of contaminated soil, paint waste, and debris from an area identified as a Paint Waste Pit #1 (Figure 2) were excavated and disposed of offsite during the construction of the treatment system lagoon. The groundwater extraction and treatment plant began operating full time in May 2000.

Since the issuance of the March 2000 ROD the EPA has implemented the following elements required by the ROD:

1. Construction and operation of a new public water supply system, providing an alternate water supply to those with impacted or threatened private supply wells, and controlling risks to human health.

2. Removal and disposal of 2,036 tons of contaminated soil, paint waste and debris which are a source for groundwater contamination.
3. Active remediation of contaminated groundwater by the continued operation of the groundwater extraction and treatment system to address the groundwater near the source.
4. LTM of groundwater.
5. Institutional controls preventing future use of the aquifer within the HFWD via Ordinances of the Towns of Marbletown and Rosendale prohibiting establishment or maintenance of a source of drinking or domestic water separate from the public water supply of the HFWD.

Additional treatment/removal of residual source contaminants in the vadose zone soils has also been conducted. In early 2007, a vapor mitigation system (VMS) comprised of six sub-slab ventilation systems was installed with extraction points in the subsurface layer underneath the commercial building's concrete floor located on the Site property. An 18-well SVE system was installed in 2007, to extract site-related VOCs from soil gas immediately north of the commercial building on the MRIP Property; this system was decommissioned in 2012. EPA has also performed extensive monitoring of the far-field plume and conducted an investigation to evaluate potential vapor intrusion (VI). The removal of potential sources, the continued Operation and Maintenance (O&M) of the existing groundwater extraction and treatment system, and the reduction of contamination within the near-field plume were continued.

During 2006 - 2008, EPA conducted a monitored natural attenuation (MNA) evaluation. The evaluation concluded that MNA is a viable remedy for the far-field plume. Monitoring data indicated groundwater contaminant concentration trends are either decreasing or stable, and exhibit the presence of the full range of 1,1,1-TCA breakdown products within the far-field plume and/or wells bounding the far-field plume. EPA issued the ROD Amendment on September 30, 2008. Based on EPA's evaluation of MNA for the far-field plume as opposed to groundwater extraction and treatment (the remedy initially selected in the ROD for the far-field plume), the amended ROD selected MNA as a preferred alternative to groundwater extraction and treatment within the far-field plume.

Since January 2008, groundwater extraction and treatment rates of the near-field treatment system have been increased to rates that could not be consistently maintained prior to the installation of the alternate water supply; previously, higher pumping rates caused negative impacts to private residential wells in the vicinity of the extraction wells. At that point in time, all impacted residents had been connected to the alternate water supply of the HFWD. This action has accelerated contaminant removal in the near-field plume and also has enlarged the capture zone of the nearfield groundwater treatment system.

1.4 Description of the Groundwater Response Remedy

Cleanup at the Site is currently being addressed as one operable unit (OU). The groundwater response remedy is intended to address both the near-field and far-field components of the VOC contaminant plume.

The remediation goal of the ROD amendment is to eliminate human exposure to groundwater contaminated by the Site that does not meet state or federal drinking water standards, restore the groundwater contaminated at the Site to drinking water standards, prevent contaminated groundwater from spreading and further impacting the aquifer, and eliminate the potential for human exposure to contaminants in subsurface soils on the MRIP Property and the release of those contaminants into the groundwater (EPA, 2008).

The groundwater response remedy addresses the "near-field" and "far-field" components of the site-related contaminant plume. The term "near-field plume" as defined in the ROD refers to that portion of the groundwater plume with total VOC concentrations greater than 1,000 µg/L, while the term "far-field plume" refers to the component of the groundwater plume between 10 µg/L and 1,000 µg/L total VOCs.

The amended groundwater remedy includes:

1. MNA for the far-field plume to restore the aquifer to its most beneficial use (as a potable water supply), and continued extraction of contaminated groundwater in the near-field plume on the MRIP property, subsequent treatment with an air stripper and activated carbon adsorption, and discharge of the treated water to Coxing Kill Creek located to the southeast of the Site, see Figure 1. Note that the NYSDEC has been operating the extraction and treatment system since September 2011, performing pilot testing on

different treatment scenarios (air stripping only, carbon treatment only, and injection of a chemical designed to inhibit scaling) designed to enhance the system.

2. Implementation of a LTM program to evaluate groundwater conditions and the effectiveness of the components of the remedy.
3. Institutional controls in the form of existing governmental controls to prevent future use of the aquifer as a drinking water source in the impacted or threatened area. These institutional controls would no longer be necessary following the restoration of the groundwater to beneficial use.
4. O&M of the Site's Soil Vapor Extraction (SVE) system would be continued as required; monitoring would be performed to evaluate the effectiveness of the system. The SVE system was shut down and decommissioned by EPA in 2012; five shallow SVE wells remain in place near the historical source area.
5. Continued operation of the sub-slab vapor mitigation system (VMS), which is maintained by NYSDEC.

1.5 Long-Term Monitoring Groundwater Monitoring

Groundwater samples have historically been collected from 25 monitoring wells, including 20 standard wells and five Flexible Liner Underground Technologies, Inc. (FLUTE™) wells (MW-17 to MW-21) which have multiple sampling ports. Samples have been collected from the majority of the wells since 1999: wells MW-16 through MW-20 were installed in 2003 and well MW-21 was installed in 2008.

Groundwater samples have historically been analyzed for VOCs, including the site COCs 1,1,1-TCA; 1,1-DCA; 1,1-DCE; and TCE. 1,4-dioxane was also included in the analysis beginning during the July 2004 sampling event and continued for most subsequent sampling events. A summary of the historic analytical data for the site COCs is provided in Table C-1 of Appendix C.

Sampling and analysis for MNA parameters began at most of the monitoring wells in April 2006 and has continued periodically since that date. The MNA parameters have historically included methane, ethane, and ethene (MEE); nitrate, nitrite, total organic carbon (TOC), total alkalinity, alkalinity carbonate, sulfide, and chloride. Metals arsenic, calcium, iron, manganese, and sodium were analyzed during many of the sampling events from 2006 through 2013. Field

parameters including dissolved oxygen (DO), oxidation/reduction potential (ORP), and ferrous iron have been collected during most of the sampling events. Water level data continue to be collected and carefully monitored during each sampling event to ensure that the near-field plume generally remains under hydraulic control. The historic analytical data (from 2006 to present) including VOCs, metals, MNA parameters, and field parameters is provided in Table C-2 of Appendix C.

The monitoring wells were sampled on a quarterly basis for four years beginning in December 2007 for VOCs and 1,4-dioxane, along with standard field-monitored parameters. The LTM Plan (AECOM, 2013) suggested sampling for MNA parameters and 1,4-dioxane every other year beginning in November 2013. The sampling frequency for MNA parameters has since been modified to every four years.

2.0 GROUNDWATER SAMPLING ACTIVITIES

This section of the report details the activities which were planned and occurred during the November 2015 groundwater monitoring event at the Site.

2.1 Groundwater Level Measurements

An incomplete round of synoptic water level measurements was made on November 15, 2015 from only 16 of the standard monitoring wells and five FLUTe™ wells. A complete round of synoptic water level measurements were made on November 20, 2015 from 21 standard monitoring wells and five FLUTe™ wells, after the groundwater sampling event was completed. It should be noted that the groundwater extraction system had been shut down some time prior to November 16, 2015 and remained off during the five day sampling event. The groundwater elevations are summarized in Table 2. A potentiometric surface map for the November 20, 2015 sampling event is provided as Figure 4.

2.2 Groundwater Sampling

Annual monitoring includes sampling of the background, on-site, mid-plume, and perimeter wells in accordance with the 2013 LTM monitoring plan (AECOM, 2013). The LTM monitoring plan includes sampling the following monitoring wells:

- 17 conventional monitoring wells: MW-1B, MW-4, MW-5B, MW-6B, MW-8B, MW-9B, MW-10B, MW-11B, MW-11C, MW-12B, MW-13B, MW-14B, MW-15B, MW-16, ERT-2, ERT-3, and ERT-4.
- Five FLUTe™ wells: MW-17 (Ports 1 - 3), MW-18 (Ports 1 - 3), MW-19 (Ports 1 - 3), MW-20 (Ports 1 - 3), and MW-21 (Ports 1, 2, 4, 5, and 6). Note that Port 3 of well MW-21 is damaged (i.e., obstructed) and could not be sampled.
- Three extraction wells: ERT-1, MW-5R and MW-7R.

A complete list of wells sampled and sampling frequency is provided in Table 3. The wells proposed for analyses of MNA parameters have been selected based on evaluations of the groundwater geochemistry conditions, the presence of degradation products, and the physical

locations of the monitoring wells. In accordance with the modified sampling schedule, MNA parameters were not collected during the November 2015 sampling event.

J. M. Waller personnel sampled 20 standard monitoring wells and five FLUTe™ wells between November 16 and November 20, 2015 in support of the LTM program. All sampling procedures followed the approved Uniform Federal Policy - Quality Assurance Program Plan (UFP-QAPP). DQCRs were completed for each day that samples were collected and are included in Appendix A. All standard (non-FLUTe™) monitoring wells were purged and sampled in accordance with the EPA Region 2 Low Stress (or Low Flow) Purging and Sampling Procedure using a portable purging system in which the same pump was used to both purge and sample the well. The FLUTe™ wells were purged and sampled using the procedures outlined in the FLUTe™ Standard Operating Procedures (SOP) manual developed by the manufacturer. The Well Assessment Checklist and Well Purging and Sampling Logs for each well are provided in Appendix B. Samples (including duplicate, matrix spike, matrix spike duplicate, trip blanks, and equipment blank samples) were collected and sent to a laboratory within the Contract Laboratory Program (CLP) namely, KAP Technologies, Inc. Laboratory in The Woodlands, Texas for analysis of CLP Target Compound List (TCL) Trace VOCs and 1,4-dioxane (MA 2527.1). Laboratory data validation was provided by EPA through the CLP program.

Based on historical data, historical sampling practices, and well clustering, the LTM plan does not include monitoring wells MW-7B, MW-9, and MW-11 as part of the annual monitoring program. MW-7B is immediately adjacent to and shallower than MW- 7R, and it has not been historically sampled. MW-9 is immediately adjacent to and shallower than MW-9B, and has not been sampled since 2007 (no detections in 2006 and 2007 sampling). MW-11 is in a cluster with MW-11B and MW-11C, and shallower than both of those wells and has not been sampled since 2009 (two events with no detections in 2009 are the only historical sampling events). In addition, five of the former SVE wells were sampled during the October 2014 sampling event. The SVE wells were sampled to determine the degree of residual source contamination and evaluate further potential cleanup action. However, these wells have not been routinely sampled during the other LTM sampling events and were not included in the November 2015 sampling event.

2.3 Sampling Variances

The following field variances occurred during the November 2015 sampling event, which resulted in discrepancies with the LTM program UFP-QAPP:

- Upon arrival to the Site, J. M. Waller personnel had difficulty locating all the monitoring wells associated with the Site. Therefore, to utilize field event hours the sampling crew began collecting analytical samples while well locations could be confirmed. This resulted in an incomplete round of synoptic groundwater levels being measured on November 16, 2015. A complete round of synoptic water level measurements were made on November 20, 2015 after all analytical samples had been collected.
- The groundwater extraction system was shut down (due to maintenance) prior to arrival of personnel to the Site and remained shut down during collection of water level data.
- Collection of all analytical samples occurred with the groundwater extraction system shut down. However, sampling of extraction wells ERT-1, MW-5R, and MW-7R required the groundwater extraction system to be turned back on during sampling of these wells.
- A groundwater sample could not be obtained from Port 3 of MW-21 due to a damaged (i.e., obstructed) sampling port.

3.0 2015 GROUNDWATER ANALYTICAL RESULTS

3.1 Groundwater Levels

The groundwater elevations from the November 20, 2015 synoptic groundwater measurements are plotted on Figure 4 to provide the potentiometric surface map. Groundwater flow generally mimics topography, with a relatively steep flow gradient to the north-northeast of the site.

Extraction well pumping in the vicinity of the treatment plant has historically resulted in a significant localized drawdown that provides capture of the majority of the VOC groundwater plume. The extraction well pumps were turned off during the November 2015 sampling event; therefore, the drawdown at extraction wells was not observed. The perimeter well water levels measured during the November 2015 sampling event are generally similar in pattern to those observed during the October 2014 sampling event; however, the water levels at the onsite wells and mid-plume wells, range from 25 to 50 feet higher in elevation than in those same wells as measured during the October 2014 sampling event.

3.2 Analytical Results

Analytical results show that a total of 17 of the 37 sampling points have concentrations of the COCs above the ROD cleanup goals. Of the 17 wells with exceedances, nine were on-site wells. The remaining wells that exceeded the ROD cleanup goals were all off-site wells with six located within the mid-plume and two within the perimeter wells. Eight sampling points (all of which were either background or perimeter wells) were below EPA contract-required quantification level (CRQL) for all COCs. A summary of the November 2015 sampling event analytical results is provided in Table 4 and a summary of the historic COC analytical results is provided in Table C-1 of Appendix C. The following sections provides a brief summary of the groundwater analytical results and trends.

3.2.1 Total VOC Results

Total VOCs for this report are defined as the addition of the detectable concentrations of the site-related COCs: 1,1,1-TCA; 1,1-DCA; 1,1-DCE, and TCE. Two of the monitoring wells (ERT-4 and MW-4) had total VOC concentrations above 1,000 and meet the near-field designation. ERT-4 had a total VOC concentration of 2,530 µg/L and MW-4 had a total VOC concentration of 1,261 µg/L. The total VOC isoconcentration map for the November 2015 sampling event is shown in Figure 5.

The November 2015 total VOC isoconcentration contours were overlaid on the October 2008 total VOC isoconcentration contours to provide a comparison of total VOC concentrations over time (Figure 6).

3.2.2 1,1,1-Trichloroethane Results

1,1,1-TCA concentrations were above the ROD cleanup goal (5 µg/L) at 15 sampling points with concentrations ranging from 5.6 µg/L to 2,100 µg/L. Wells exceeding the ROD cleanup goal for 1,1,1-TCA during the November 2015 monitoring event are:

- On-Site Wells: MW-4, MW-5B, MW-5R, MW-6B, MW-7R, ERT-1, ERT-2, ERT-3, and ERT-4.
- Mid-Plume Wells: MW-12B, MW-15B, MW-16, MW-17 Port 1, and MW-17 Port 2.
- Perimeter Well: MW-21 Port 1.

The concentrations of 1,1,1-TCA were above the CRQLs but below the ROD cleanup goals at seven sampling points. Additionally, 1,1,1-TCA concentrations were below the CRQLs at 15 sampling points.

As shown in the trend analysis in Appendix E, 1,1,1-TCA trends are generally declining or stable across the site at all wells sampled. The isoconcentration map for 1,1,1-TCA is provided in Figure 7.

3.2.3 1,1-Dichloroethane Results

1,1-DCA concentrations were above the ROD cleanup goal (5 µg/L) at 11 sampling points with concentrations ranging from 7.1 µg/L to 80 µg/L. Wells exceeding the ROD cleanup goal for 1,1-DCA during the November 2015 monitoring event are:

- On-Site Wells: MW-4, MW-5B, MW-7R, ERT-1, ERT-3, and ERT-4.
- Mid-Plume Wells: MW-12B, MW-15B, MW-17 Port 1, MW-17 Port 2, and MW-17 Port 3.

The concentrations of 1,1-DCA were above the CRQLs but below the ROD cleanup goal at 15 sampling points. Additionally, 1,1-DCA concentrations were below the CRQLs at 11 sampling points.

As shown in the trend analysis in Appendix E, 1,1-DCA trends are generally declining or stable across the site at all wells sampled. The isoconcentration map for 1,1-DCA is provided in Figure 8.

3.2.4 1,1-Dichloroethene Results

1,1-DCE concentrations were above the ROD cleanup goal (5 µg/L) at 15 wells with concentrations ranging from 6.4 µg/L to 280 µg/L. Wells exceeding the ROD cleanup goal for 1,1,1-DCE during the November 2015 monitoring event are:

- On-Site Wells: MW-4, MW-5B, MW-5R, MW-7R, ERT-1, ERT-3, and ERT-4.
- Mid-Plume Wells: MW-12B, MW-15B, MW-16, MW-17 Port 1, MW-17 Port 2, and MW-17 Port 3.
- Perimeter Well: MW-21 Port 1.

The concentrations of 1,1-DCE were above the CRQLs but below the ROD cleanup goal at 10 sampling points. Additionally, 1,1-DCE concentrations were below the CRQLs at 12 sampling points.

As shown in the trend analysis in Appendix E, 1,1-DCE trends are generally declining or stable across the site at all wells sampled. The isoconcentration map for 1,1-DCE is provided in Figure 9.

3.2.5 Trichloroethene Results

TCE concentrations were above the ROD cleanup goal (5 µg/L) at four sampling points with concentrations ranging from 23 µg/L to 200 µg/L. Wells exceeding the ROD cleanup goal for 1,1,1-TCA during the November 2015 monitoring event are:

- On-Site Wells: MW-4, MW-5B, ERT-3, and ERT-4.

The concentrations of TCE were above the CRQLs but below the ROD cleanup goal at 16 sampling points. Additionally, TCE concentrations were below the CRQLs at 17 sampling points.

As shown in the trend analysis in Appendix E, TCE trends are generally declining or stable across the site at all wells sampled. The isoconcentration map for TCE is provided in Figure 10.

3.2.6 1,4-Dioxane Results

1,4-Dioxane concentrations were not above the ROD cleanup goal (50 µg/L) at any of the 37 sampling points. The concentrations of 1,4-Dioxane were above the CRQLs but below the ROD cleanup goals at 16 sampling points and ranged from 2 µg/L to 24 µg/L with the highest concentration found at ERT-3. 1,4-Dioxane concentrations were below the CRQLs at 21 sampling points.

As shown in the trend graphs in Appendix E, 1,4-dioxane trends are generally declining or stable across the site.

3.3 General COC Trends

Trends in groundwater were assessed using the Mann-Kendall Statistical Test. The Mann-Kendall test is a non-parametric test for linear trend, based on the idea that a lack of trend should correspond to a time series plot fluctuating randomly about a constant mean level, with no visually apparent upward or downward pattern (EPA, 2009). The test provides an indication of whether a trend exists and whether the trend is positive or negative. The Mann-Kendall test can be used to evaluate the following:

- Are contaminant concentrations increasing or decreasing?
- Are concentrations within a well stable?

The Mann Kendall statistic (S) is calculated through pair-wise comparisons of each data point with all preceding data points, and determining the number of increases, decreases, and ties (ITRC, 2013). A positive value for S implies that a majority of the differences between earlier and later measurements are positive, suggesting an upward or increasing temporal trend. In comparison, a negative value for S implies a downward or decreasing trend (i.e., a majority of the differences between earlier and later values are negative). A value of S near zero indicates a roughly equal number of positive and negative differences, which insinuates there is no significant upward or downward trend. The magnitude of S measures the “strength” of the trend. The larger the absolute value of S, the stronger the evidence for a “real” increasing or decreasing trend. The critical points for identifying a trend get larger as the level of significance (α) drops. Only if the absolute value of the test statistic (S) is larger than the critical point is a statistically significant increasing or decreasing trend indicated (EPA, 2009).

The Mann-Kendall Statistical Test spreadsheet that was utilized during the project tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999.

Strengths of the Mann-Kendall test include:

- As a non-parametric procedure, the Mann-Kendall test does not require the underlying data to follow a specific distribution.
- Results are not impacted by the magnitude of extreme values as with regression/correlation tests.
- This test can be used when data sets contain non-detects.

However, the test is more difficult to apply to data sets containing mixed detection limits and estimated values between the reporting limit and the detection limit (ITRC, 2013). Non-detects can be treated by assigning them a common value lower than any of the detected measurements. To avoid biasing the Mann-Kendall test, the same value for all non-detect results was entered into the spreadsheet for a given compound. This technique ensured that any identified trends were data trends and not trends of laboratory detection limits. Specifically, the value entered for all non-detect results was one-half of the lowest detection limit for that compound across the sampling rounds utilized and entered into the Mann-Kendall Statistical Test spreadsheet.

The evaluation was performed for the following five constituents which are the COCs for the site: 1,1,1-TCA; 1,1-DCA; 1,1-DCE; TCE; and 1,4-dioxane. The chemical data used in the trend analysis included up to 10 sampling events from December 1999 and November 2015. Use of specific monitoring events for individual wells were chosen based on timeframes (i.e., earliest, latest, and appropriately spaced in between these dates); seasonality (i.e., late fall/early winter); and quality (i.e., exclusion of analytical results deemed “questionable” due to field or laboratory issues). The statistical trend analysis was performed for the 37 site monitoring points. Insufficient rounds of data were available for MW-21-3 due to an inoperable port. In addition, MW-7B, MW-9, and MW-11 and the five former SVE wells were not assessed as these wells are not included in the LTM monitoring.

The on-site wells (ERT-1, ERT-2, ERT-3, ERT-4, MW-4, MW-5B, MW-5R, MW-6B, and MW-7R) show consistent downward historical trends for all COCs. It should also be noted that all on-site wells exceeded the ROD cleanup level concentrations for one or more COCs during the November 2015 sampling event.

Mid-plume wells (MW-11B, MW-11C, MW-12B, MW-15B, MW-16, and MW-17) generally had decreasing COCs concentration trends. It should also be noted that all mid-plume wells (except MW-11C) exceeded the action level concentrations for one or more COCs during the November 2015 sampling event.

None of the perimeter wells (except MW-21 Port 1) exceeded the ROD cleanup level concentrations for COCs during the November 2015 sampling event. Perimeter wells MW-8B, MW-9B, MW-10B, MW-13B, MW-14B, MW-18, MW-19, MW-20, and MW-21 show no trend in COC concentrations except for wells MW-9B, MW-14B, MW-18, and MW-19 Ports 1 - 3. MW-9B concentration trends for 1,1-DCA and 1,4-dioxane showed an increasing trend while 1,1,1-TCA showed a decreasing trend and 1,1-DCE and TCE showed no clear trend. MW-14B, MW-18, and MW-19 Ports 1 - 3 have an increasing trend for 1,1-DCA and 1,1-DCE. It should be noted that the VOC concentrations for all of the perimeter wells with increasing contaminant trends was very low and are well below ROD cleanup goals.

One background well, MW-1B, upgradient of the source area has consistently produced results below CRQLs. Therefore, no identifiable trend can be established in this well.

A summary of the COC data trends is provided in Table 5 and the Mann-Kendall spreadsheet with trend graphs is provided in Appendix E. These graphs demonstrate plume stability over the past 14 years, with significant downward trends in most of the wells.

3.4 MNA Discussion

Natural attenuation includes a variety of physical (e.g., sorption, dilution, dispersion, volatilization), chemical (e.g., hydrolysis), and biological (e.g., reductive dechlorination) processes. The evaluation of data focuses on the constituent concentration trends of the primary contaminants, and the geochemical conditions that may or may not support degradation of the primary contaminants under natural conditions. Natural attenuation in the near-field and far-field plumes appears to be primarily related to non-destructive mechanisms (dilution, dispersion, and advection). Historical decreasing concentration trends of TCE and 1,1,1-TCA across all wells but lack of increasing trends of daughter products such as 1,1-DCA or chloroethane support the conclusion that dispersion and dilution are the main attenuation process. The viability of MNA is supported by the decreasing contaminant concentrations in the far-field plume.

Evaluation of historic biological MNA parameters confirms that most parameters (i.e., DO, ORP, and TOC) are not within ranges which are typically conducive for biological degradation to occur. Despite the lack of evidence for reductive dechlorination, dispersion and dilution are still viable pathways for MNA. These MNA parameters were not collected during the November 2015 annual monitoring event. A tabulation of historical MNA parameters can be found in Table C-2 of Appendix C.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The nine on-site monitoring wells (ERT-1, ERT-2, ERT-3, ERT-4, MW-4, MW-5B, MW-5R, MW-6B, and MW-7R) sampled during the November 2015 sampling event continue to show consistent downward or stable contaminant concentration trends for the site COCs. The highest contaminant concentrations continue to be found in the three shallow (i.e., < 50 feet deep) on-site wells consisting of monitoring wells ERT-4, MW-4, and MW-5B.

The six mid-plume wells (MW-11B, MW-11C, MW-12B, MW-15B, MW-16, and MW-17) generally had lower VOC concentrations for all COCs compared to the onsite wells, and concentrations in these wells remained relatively consistent with historical results, with continued downward concentration trends. MW-16, which is located in an area of anomalous geology for the site, has historically produced fluctuating concentrations. MW-17 (all ports) had historically low concentrations for the site COCs.

The nine perimeter wells (MW-8B, MW-9B, MW-10B, MW-13B, MW-14B, MW-18, MW-19, MW-20, and MW-21) are all below the site action levels for all COCs with exception to well MW-21 Port 1 which exceeded the ROD cleanup goals for both 1,1,1-TCA (8.2 µg/L) and 1,1-DCE (6.4 µg/L). The COC concentration trends at MW-21 Port 1 remain stable. The remaining perimeter wells continued to show steadily decreasing Total VOC concentrations since 2010 with the current COC concentrations below or slightly above the CRQLs. The decreasing or stable COC concentration trends observed in the perimeter wells indicate that the VOC plume is not expanding past the perimeter wells.

Additionally, the comparison of total VOC isoconcentration maps between October 2008 and November 2015 (Figure 6) continues to show a decrease in the extent of 100 µg/L total VOC concentration across the Site.

The current monitoring well network is sufficient to ensure the continued protection of downgradient wells while also continuing to monitor the effectiveness of MNA, as evidenced by the following facts:

- The current and historical boundaries of both near-field and far-field plumes are defined.
- The network is protective of potential receptors by having sentinel and warning wells in the correct locations/depths.

- Sufficient wells are located in the midpoint of the plume to show contaminant concentration trends.
- Assessment of the LTM network will continue to be re-evaluated on a yearly basis after the annual sampling events and during the Five-Year Review reports.

The sampling locations, frequencies, and analytical parameters have been found to be representative of the groundwater, protective of the environment, and adequate to continue to monitor the effectiveness of the remedy. Therefore, the next annual sampling program is recommended to include the same wells as the November 2015 event. In addition, in accordance with the approved LTM Plan, gases, metals, and wet chemistry associated with MNA parameters should be sampled during the 2017 event, along with 1,4-dioxane.

All wells in the far-field plume with statistically significant trends have historically shown decreasing contaminant concentrations. The increased extraction rates of the near-field (source) treatment system and the source removal increase the likelihood that the extent of the plume margins will shrink in the future.

It is important to note that the VOC levels reported in all five of the shallow SVE wells sampled during the October 2014 sampling event (up to 31,000 µg/L of 1,1,1-TCA) were an order of magnitude higher than any of the other onsite near-field wells. This could indicate residual source material in this area. This shallow source is potentially a continuing source of groundwater contamination.

5.0 REFERENCES

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TABLES

Table 1 - Monitoring Well Construction Summary

Monitoring Well	X Coordinate	Y Coordinate	Sampling Interval ¹		Construction Information		
			Depth (ft bgs)	Elevation (ft amsl)	Total Depth (ft bgs)	Bottom Elevation (ft amsl)	Top of Casing (ft amsl)
ERT-1 ²	571897.25	4629866.00	intake	intake	195.00	108.94	303.94
ERT-2	571843.56	4629843.00	190.00	119.81	200.00	109.81	309.81
ERT-3	571850.19	4629819.00	210.00	105.89	220.00	95.89	315.89
ERT-4	571979.50	4629806.50	45.00	281.67	50.00	276.67	326.67
MW-1B	571967.38	4629665.00	90.0	243.53	100.00	233.53	333.53
MW-4	571971.06	4629799.00	16.00	313.21	21.50	307.71	329.21
MW-5B	571981.81	4629825.50	33.00	292.30	36.20	289.10	325.3
MW-5R ²	572003.06	4629852.00	intake	intake	125.00	188.63	313.63
MW-6B	572042.38	4629780.50	90.00	233.95	100.00	223.95	323.95
MW-7B	571794.25	4629797.00	90.00	223.93	100.00	213.93	313.93
MW-7R ²	571790.75	4629797.00	intake	intake	180.00	134.30	314.30
MW-8B	572249.41	4630989.19	90.00	69.68	100.00	59.68	159.68
MW-9B	572016.88	4630545.00	135.00	113.21	145.00	103.21	248.21
MW-10B	572734.60	4630604.00	90.00	135.64	100.00	125.64	225.64
MW-11B	572126.19	4630011.00	171.00	110.72	181.00	100.72	281.72
MW-11C	572125.00	4630007.00	210.00	74.58	220.00	64.58	284.58
MW-12B	572234.19	4630222.41	190.00	68.20	200.00	58.20	258.20
MW-13B ³	571312.94	4630103.00	NA	NA	200.00	21.93	221.93
MW-14B	572600.32	4630930.34	145.00	11.67	155.00	1.67	156.67
MW-15B	571701.56	4630172.50	140.00	104.89	150.00	94.89	244.89
MW-16	572083.65	4630265.75	80.00	194.11	93.00	181.11	274.11
MW-17-1	572545.72	4630421.63	47.00	194.92	57.00	184.92	241.92
MW-17-2			102.50	139.42	110.00	131.92	241.92
MW-17-3			124.00	117.92	129.00	112.92	241.92
MW-18-1 ³	571579.98	4630508.22	96.00	108.45	101.00	103.45	204.45
MW-18-2 ³			123.00	81.45	128.00	76.45	204.45
MW-18-3 ³			140.00	64.45	145.00	59.45	204.45

Table 1 Continued - Monitoring Well Construction Summary

Monitoring Well	X Coordinate	Y Coordinate	Sampling Interval ¹		Construction Information		
			Depth (ft bgs)	Elevation (ft amsl)	Total Depth (ft bgs)	Bottom Elevation (ft amsl)	Top of Casing (ft amsl)
MW-19-1 ³	572596.93	4631100.50	41.50	88.38	49.00	80.88	129.88
MW-19-2 ³			87.50	42.38	95.00	34.88	129.88
MW-19-3 ³			187.50	-57.62	195.00	-65.12	129.88
MW-20-1	571966.96	4631057.64	67.00	135.84	77.00	125.84	202.84
MW-20-2			97.50	105.34	111.50	91.34	202.84
MW-20-3			144.00	58.84	149.00	53.84	202.84
MW-21-1 ³	572596.00	4630042.00	42.75	190.84	48.00	185.59	233.59
MW-21-2 ³			67.00	166.59	69.50	164.09	233.59
MW-21-3 ³			75.50	158.09	78.00	155.59	233.59
MW-21-4 ³			121.50	112.09	124.00	109.59	233.59
MW-21-5 ³			142.50	91.09	145.00	88.59	233.59
MW-21-6 ³			160.50	73.09	163.00	70.59	233.59

Notes:

1. Sampling Interval designates depth to pump intake or FLUTe sampling port, in ft bgs
2. Extraction well
3. Artesian well

Abbreviations:

NA = Not Available

ft amsl = feet above mean sea level

ft bgs = feet below ground surface

Table 2 - Groundwater Elevations – November 2015

Monitoring Well	November 16, 2015		November 20, 2015	
	Depth to Water (ft btoc)	Water Elevation (ft amsl)	Depth to Water (ft btoc)	Water Elevation (ft amsl)
ERT-1 ¹	70.10	233.84	54.95	248.99
ERT-2	72.24	237.57	57.89	251.92
ERT-3	78.81	237.08	64.09	251.8
ERT-4	26.08	300.59	25.30	301.37
MW-1B	57.00	276.53	54.81	278.72
MW-4	4.54	324.67	3.42	325.79
MW-5B	25.19	300.11	24.27	301.03
MW-5R ¹	78.21	235.42	62.65	250.98
MW-6B	85.44	238.51	70.59	253.36
MW-7B	NM	NM	61.20	252.73
MW-7R ¹	NM	NM	62.28	252.02
MW-8B	29.03	130.65	28.90	130.78
MW-9B	18.62	229.59	19.32	228.89
MW-10B	26.23	199.41	26.06	199.58
MW-11B	39.99	241.73	30.21	251.51
MW-11C	NM	NM	32.10	252.48
MW-12B	NM	NM	10.35	247.85
MW-13B ²	0.00	221.93	0.00	221.93
MW-14B	5.79	150.88	5.53	151.14
MW-15B	NM	NM	15.46	229.43

Monitoring Well	November 16, 2015		November 20, 2015	
	Depth to Water (ft btoc)	Water Elevation (ft amsl)	Depth to Water (ft btoc)	Water Elevation (ft amsl)
MW-16	30.32	243.79	28.61	245.5
MW-17-1	7.71	234.21	7.13	234.79
MW-17-2	12.99	228.93	12.32	229.6
MW-17-3	12.95	228.97	12.40	229.52
MW-18-1 ²	0.00	204.45	0.00	204.45
MW-18-2 ²	0.00	204.45	0.00	204.45
MW-18-3 ²	0.00	204.45	0.00	204.45
MW-19-1 ²	0.00	129.88	0.00	129.88
MW-19-2 ²	0.00	129.88	0.00	129.88
MW-19-3 ²	0.00	129.88	0.00	129.88
MW-20-1	58.26	144.58	58.00	144.84
MW-20-2	55.65	147.19	55.91	146.93
MW-20-3	74.62	128.22	74.72	128.12
MW-21-1 ²	0.00	233.59	0.00	233.59
MW-21-2 ²	0.00	233.59	0.00	233.59
MW-21-3 ²	0.00	233.59	0.00	233.59
MW-21-4 ²	0.00	233.59	0.00	233.59
MW-21-5 ²	0.00	233.59	0.00	233.59
MW-21-6 ²	0.00	233.59	0.00	233.59

Notes:

1. Artesian well
2. Extraction well

Abbreviations:

NA = Not Available
 NM = Not Measured

ft amsl = feet above mean sea level
 ft bgs = feet below ground surface
 btoc = below top of casing

Table 3 - Monitoring Well Sampling Frequency

Monitoring Well		Long-Term Monitoring Frequency ¹		Well Location
		VOCs	MNA Parameters (Every 4 Years)	
ERT-1		Annual	No	On-site
ERT-2		Annual	No	On-site
ERT-3		Annual	Yes	On-site
ERT-4 ²		Annual	Yes	On-site
MW-1B		Annual	Yes	Background / Upgradient
MW-4 ²		Annual	Yes	
MW-5B		Annual	No	On-site
MW-5R		Annual	No	On-site
MW-6B		Annual	No	On-site
MW-7B		Water Level Only	No	On-site
MW-7R		Annual	No	On-site
MW-8B		Annual	No	Perimeter
MW-9		Water Level Only	No	Perimeter
MW-9B		Annual	No	Perimeter
MW-10B		Annual	No	Perimeter
MW-11		Water Level Only	No	Mid-Plume
MW-11B		Annual	Yes	Mid-Plume
MW-11C		Annual	Yes	Mid-Plume
MW-12B		Annual	Yes	Mid-Plume
MW-13B		Annual	No	Perimeter
MW-14B		Annual	No	Perimeter
MW-15B		Annual	Yes	Mid-Plume
MW-16		Annual	Yes	Mid-Plume
Multi-Port FLUTe Wells				
Well	Port			
MW-17	1	Annual	Yes	Mid-Plume
	2	Annual	Yes	Mid-Plume
	3	Annual	Yes	Mid-Plume
MW-18	1	Annual	No	Perimeter
	2	Annual	No	Perimeter
	3	Annual	No	Perimeter
MW-19	1	Annual	Yes	Perimeter
	2	Annual	Yes	Perimeter
	3	Annual	Yes	Perimeter
MW-20	1	Annual	No	Perimeter
	2	Annual	No	Perimeter
	3	Annual	No	Perimeter
MW-21	1	Annual	Yes	Perimeter
	2	Annual	Yes	Perimeter
	3	Sampling Port Damaged (Obstructed)		
	4	Annual	Yes	Perimeter
	5	Annual	Yes	Perimeter
	6	Annual	Yes	Perimeter

Notes:

1: Sample locations, frequency of collection of environmental samples, and water quality parameters may be altered in response to significant changes in data throughout the course of the program and at the direction of USACE/EPA.

2: Well located within former septic tank area.

VOCs = Volatile Organic Compounds

MNA = Monitored Natural Attenuation

Table 4 - November 2015 Analytical Results Summary

Monitoring Well	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goal	5	5	5	5	50
MW-1B	0.5 U	0.5 U	0.5 U	0.5 U	2 U
MW-4	980	12	65	200	3.9
MW-5B	660	13	98	23	5.7
MW-5R	44	3.9	15	3.9	2.5
MW-6B	12	0.5 U	3.5	0.5 U	2 U
MW-7R	180	80	24	1.6	2 J
MW-8B	0.5 U	0.5 U	0.5 U	0.5 U	2 U
MW-9B	0.59	0.72	0.5 U	0.5 U	4.7
MW-10B	0.5 U	0.5 U	0.5 U	0.5 U	2 U
MW-11B	4.4	4.8	11	1.5	2.9
MW-11C	3.2	1	4.2	0.66	2 U
MW-12B	5.6	7.1	12	2.1	2 U
MW-13B	0.5 U	0.5 U	0.5 U	0.5 U	2 U
MW-14B	0.5 U	1.4	1.5	0.5 U	3
MW-15B	46	16	7.2	1.2	4.3
MW-16	28	4.9	27	2.7	5.3
MW-17-1	11	4.7	14	2	2 U
MW-17-2	12	7.8	18	2.2	4.8
MW-17-3	4.2	15	19	0.45	3.1
MW-18-1	0.5 U	0.94	0.37	0.5 U	2 U
MW-18-2	0.5 U	0.71	0.5 U	0.5 U	2 U
MW-18-3	0.5 U	0.5 U	0.5 U	0.5 U	2 U
MW-19-1	0.5 U	1.1	1	0.5 U	2.8
MW-19-2	0.5 U	1.1	0.99	0.5 U	2.9
MW-19-3	0.5 U	0.5 U	0.5 U	0.5 U	2 U
MW-20-1	0.5 U	0.5 U	0.5 U	0.5 U	2 U
MW-20-2	0.5 U	0.5 U	0.5 U	0.5 U	2 U
MW-20-3	0.5 U	0.5 U	0.5 U	0.5 U	2 U
MW-21-1	8.2	1	6.4	3	2 U
MW-21-2	3.5	1.1	4.3	1.5	2 U
MW-21-3	Sampling port damaged – sample could not be collected.				
MW-21-4	2.8	0.97	3.7	1.1	2 U
MW-21-5	2.9	1.1	3.8	1.1	2 U
MW-21-6	0.5 U	0.5 U	0.5 U	0.5 U	2 U
ERT-1	53	12	17	4.2	2.8
ERT-2	7	2	2.2	0.58	2 U
ERT-3	150	15	43	26	24
ERT-4	2,100	57	280	93	3.3

Notes:

Blue shading = Exceeds Record of Decision (ROD) cleanup goal.

1,1,1-TCA = 1,1,1-Trichloroethane

1,1-DCA = 1,1-Dichloroethane

1,1-DCE = 1,1-Dichloroethene

TCE = Trichloroethene

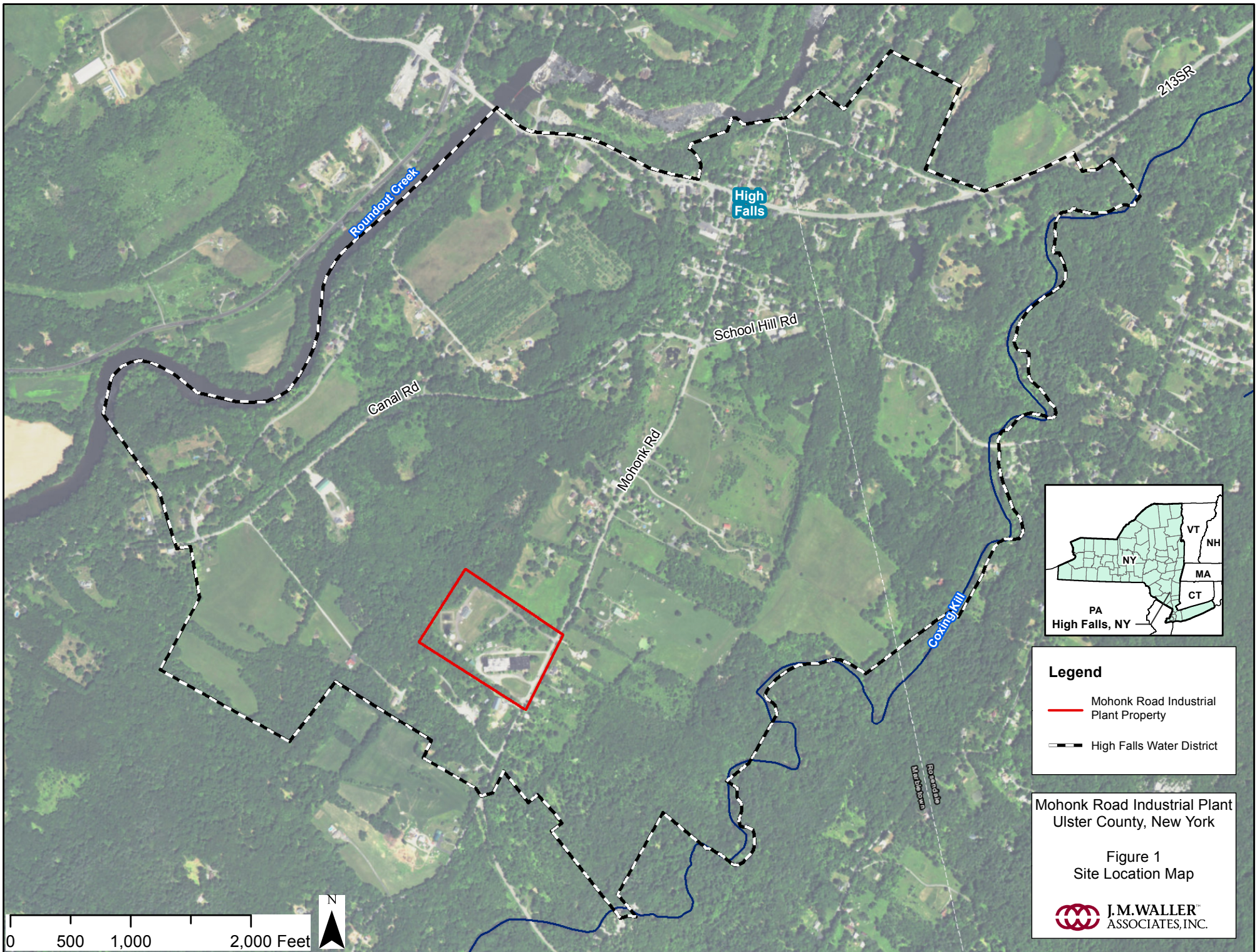
µg/L = micrograms per liter

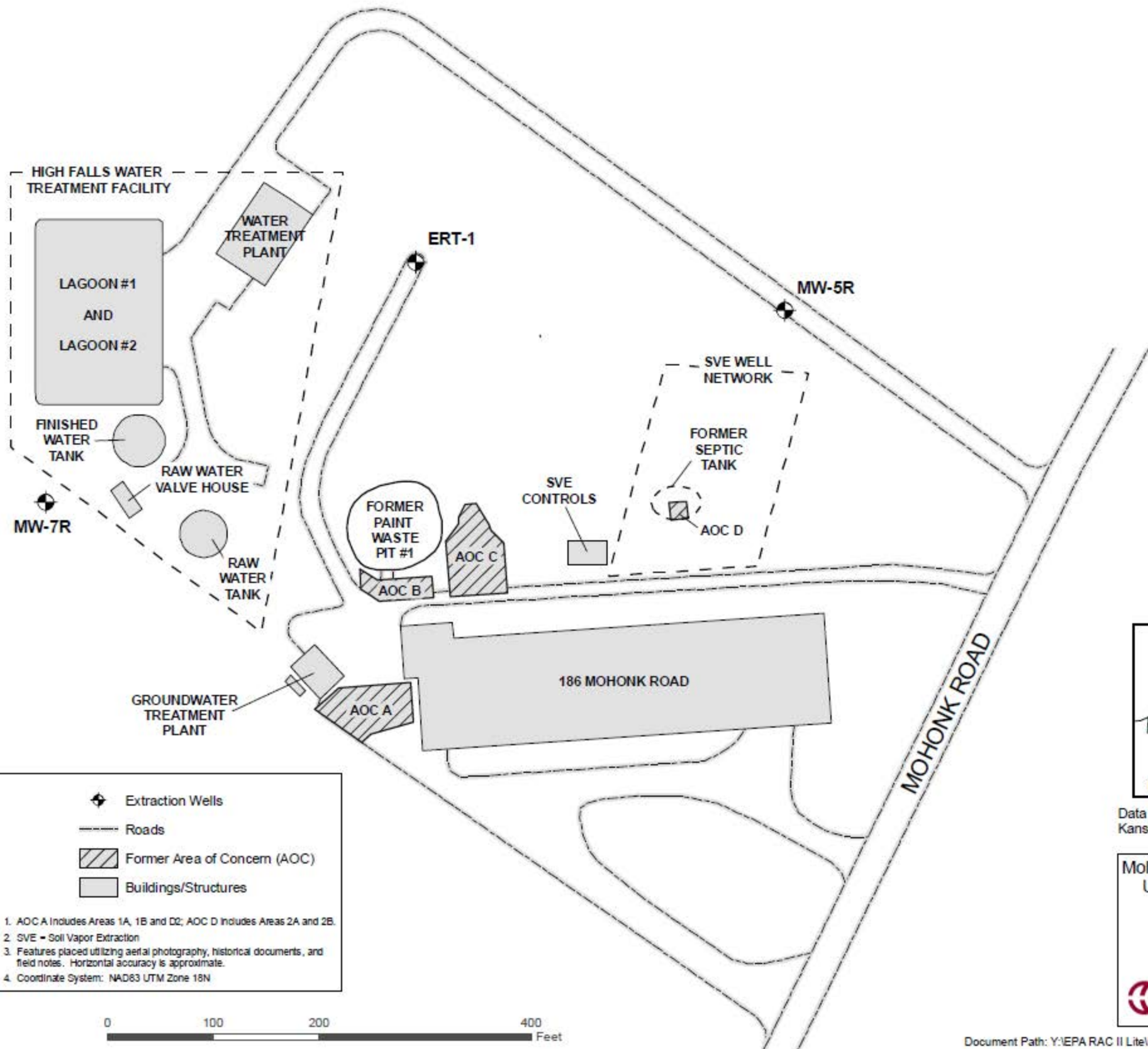
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

Table 5 –Trend Analysis Summary

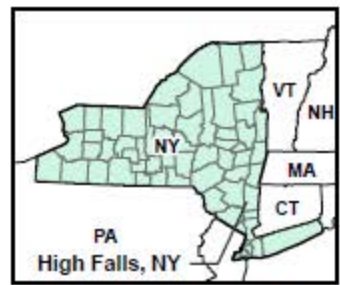
Contaminant of Concern	Wells with Decreasing or Probably Decreasing Trend	Wells with Increasing or Probably Increasing Trend	Wells with No Trend or Stable Trend
1,1,1-Trichloroethane	ERT-1, ERT-2, ERT-3, ERT-4, MW-4B, MW-5B, MW-5R, MW-6B, MW-7R, MW-9B, MW-11B, MW-11C, MW-12B, MW-15, MW-16B, MW-17, MW-21-2, MW-21-4, MW-21-5	None	MW-1B, MW-8B, MW-10B, MW-13B, MW-14B, MW-18, MW-19, MW-20, MW-21-1, MW-21-6
1,1-Dichloroethane	ERT-1, ERT-2, ERT-4, MW-4B, MW-5B, MW-5R, MW-6B, MW-11B, MW-11C, MW-12B, MW-15, MW-16B, MW-17, MW-18-3, MW-21-4, MW-21-5, MW-21-6	MW-9B, MW-18-2, MW-19-1, MW-19-2, MW-19-3	ERT-3, MW-1B, MW-7R, MW-8B, MW-10B, MW-13B, MW-14B, MW-18-1, MW-20, MW-21-1, MW-21-2
1,1-Dichloroethene	ERT-1, MW-4B, MW-5R, MW-7R, MW-11B, MW-11C, MW-12B, MW-15, MW-16B, MW-17, MW-21-4, MW-21-5, MW-21-6	MW-14B, MW-18-1, MW-18-3, MW-19	ERT-2, ERT-3, ERT-4, MW-1B, MW-5B, MW-6B, MW-8B, MW-9B, MW-10B, MW-13B, MW-18-2, MW-20, MW-21-1, MW-21-2
Trichloroethene	ERT-1, ERT-2, ERT-3, ERT-4, MW-4B, MW-5B, MW-5R, MW-7R, MW-11B, MW-11C, MW-12B, MW-15, MW-16B, MW-17, MW-21-4, MW-21-5, MW-21-6,	None	MW-1B, MW-6B, MW-8B, MW-9B, MW-10B, MW-13B, MW-14B, MW-18, MW-19, MW-20, MW-21-1, MW-21-2
1,4-Dioxane	ERT-2, ERT-4, MW-4B, MW-7R, MW-17-3, MW-21-6	MW-9B, MW-19-2	ERT-1, ERT-3, MW-1B, MW-5B, MW-5R, MW-6B, MW-8B, MW-10B, MW-11B, MW-11C, MW-12B, MW-13B, MW-14B, MW-15, MW-16B, MW-17-1, MW-17-2, MW-18, MW-19-1, MW-19-3, MW-20, MW-21-1, MW-21-2, MW-21-4, MW-21-5

FIGURES





- Extraction Wells
 - Roads
 - Former Area of Concern (AOC)
 - Buildings/Structures
1. AOC A Includes Areas 1A, 1B and D2; AOC D Includes Areas 2A and 2B.
 2. SVE = Soil Vapor Extraction
 3. Features placed utilizing aerial photography, historical documents, and field notes. Horizontal accuracy is approximate.
 4. Coordinate System: NAD83 UTM Zone 18N

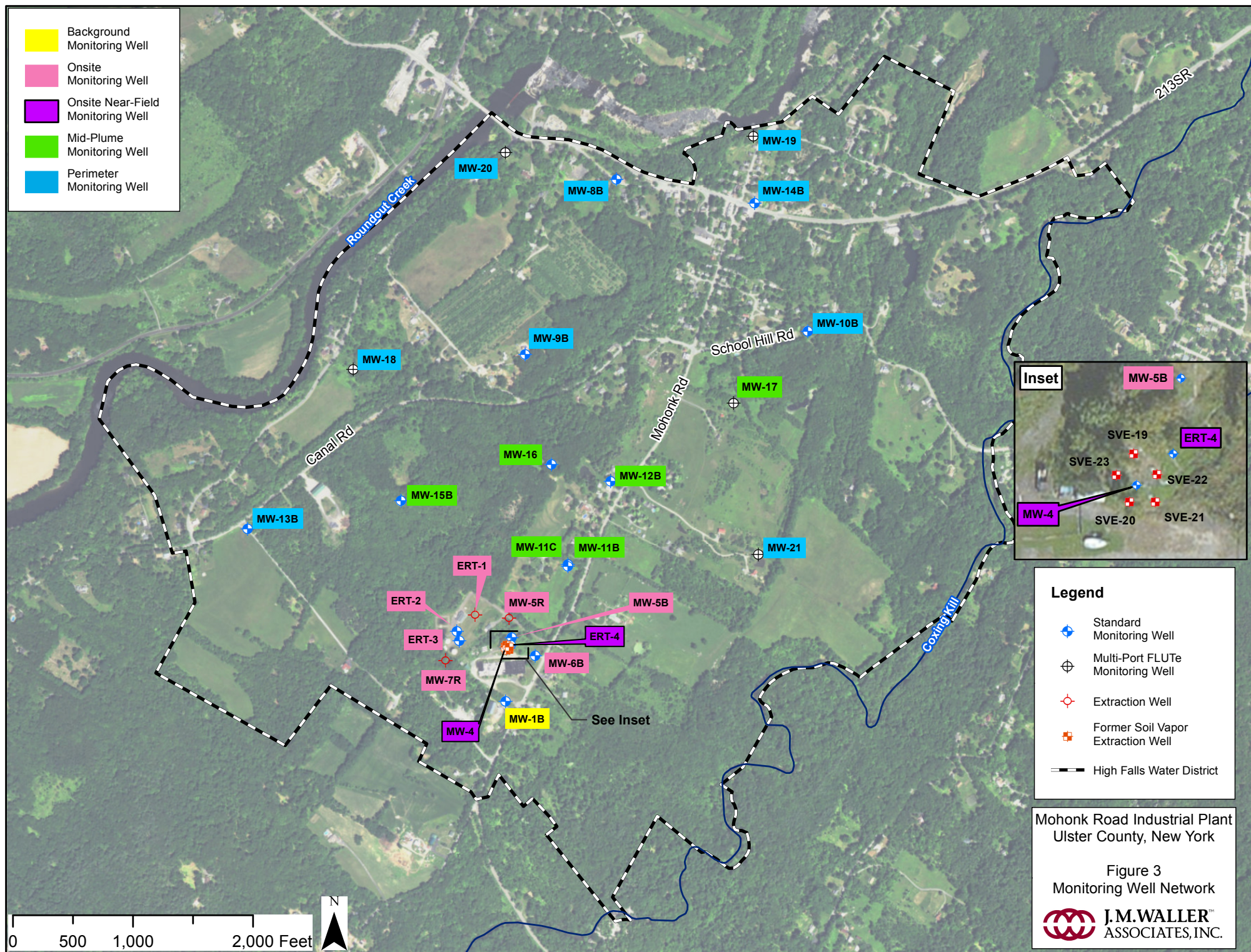


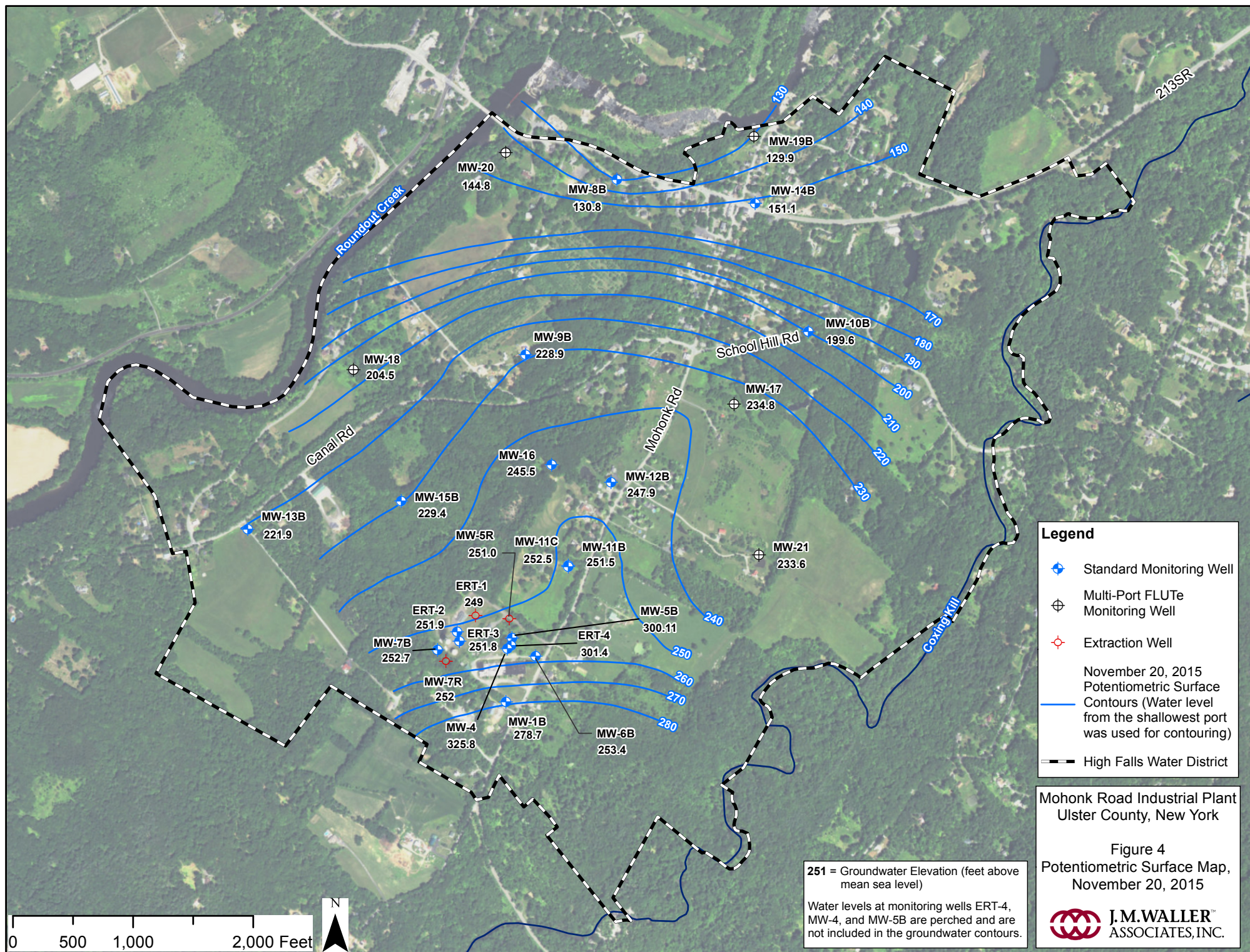
Data from US Army Corps of Engineers
Kansas City District, April 2008

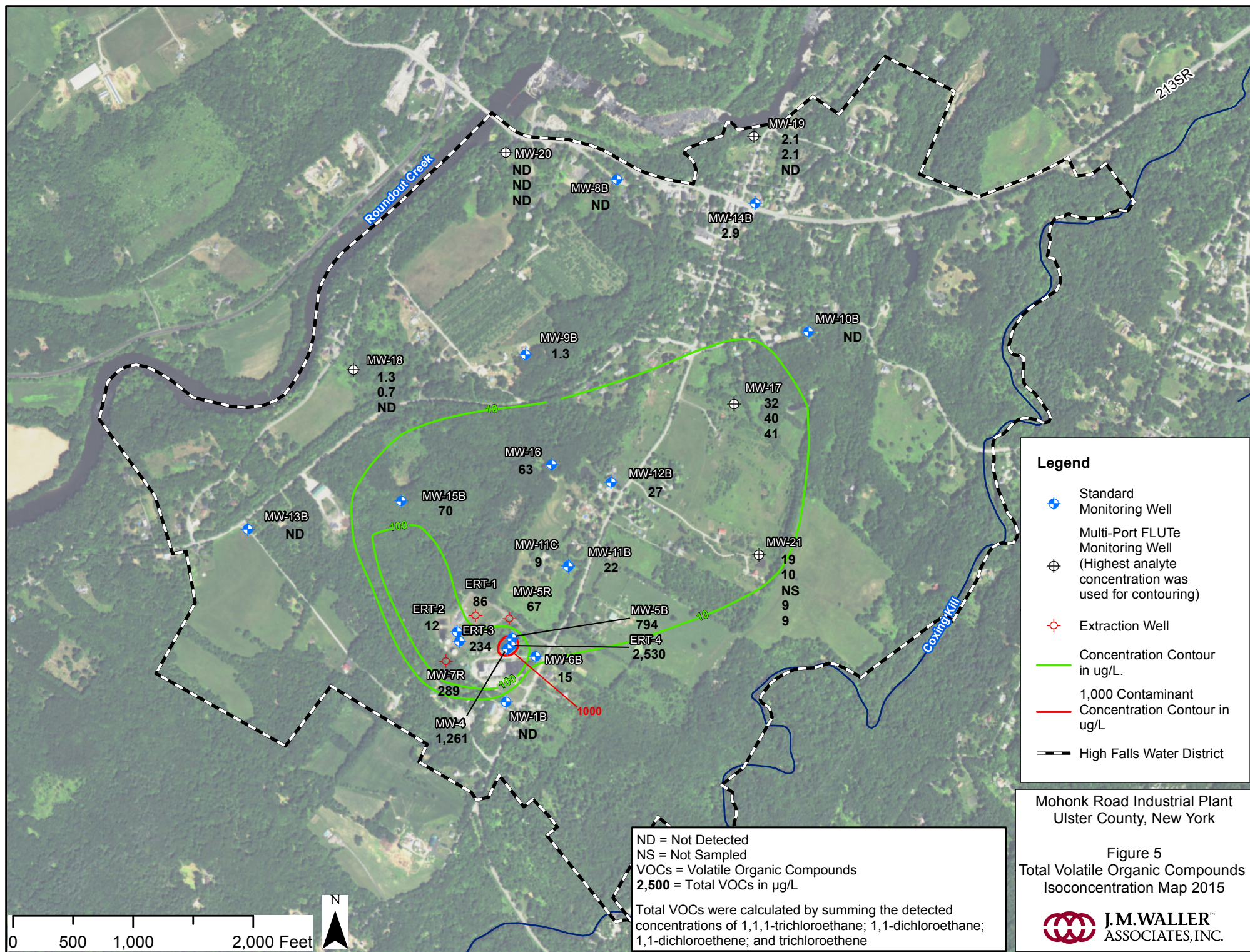
Mohonk Road Industrial Plant
Ulster County, New York

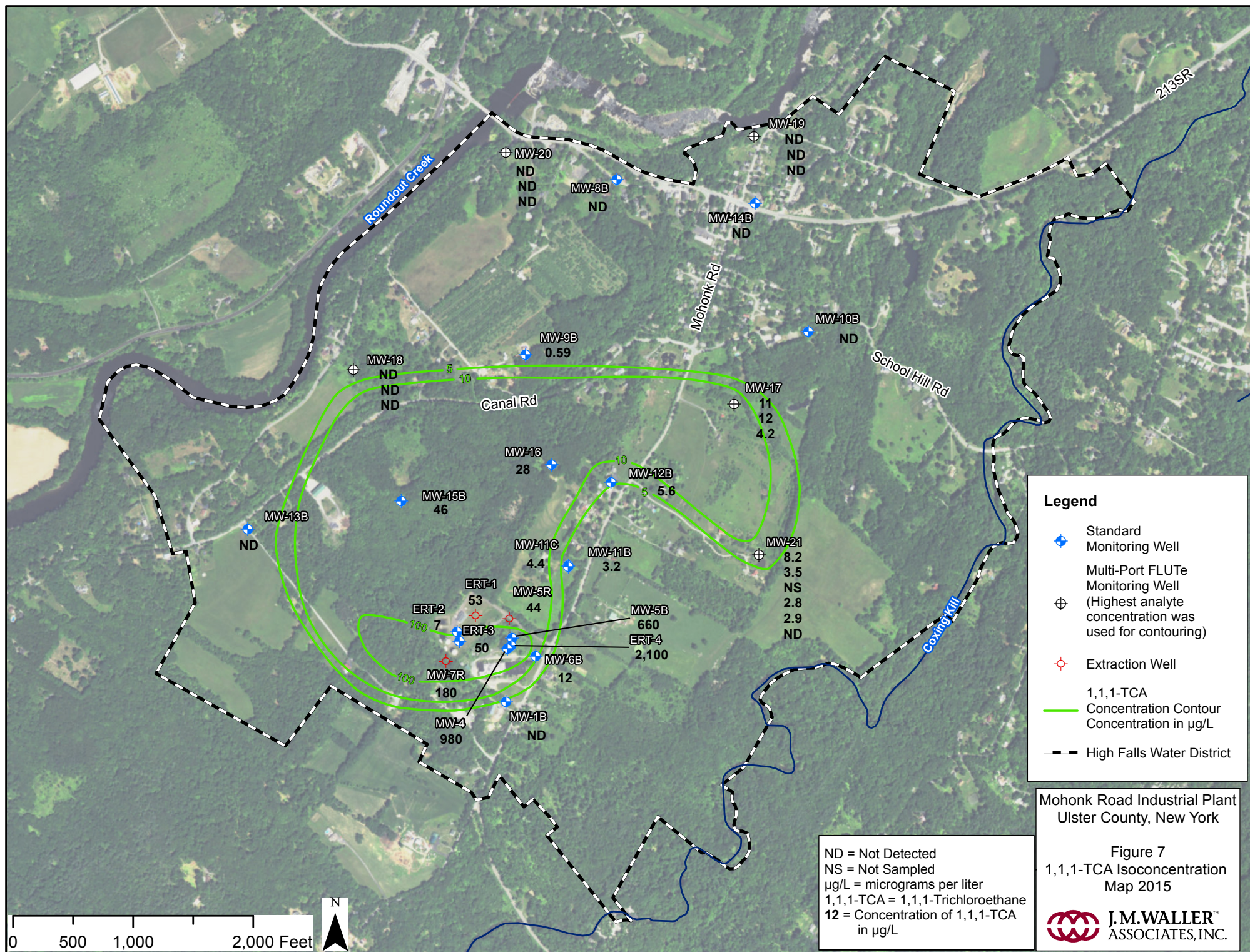
Figure 2
Site Layout

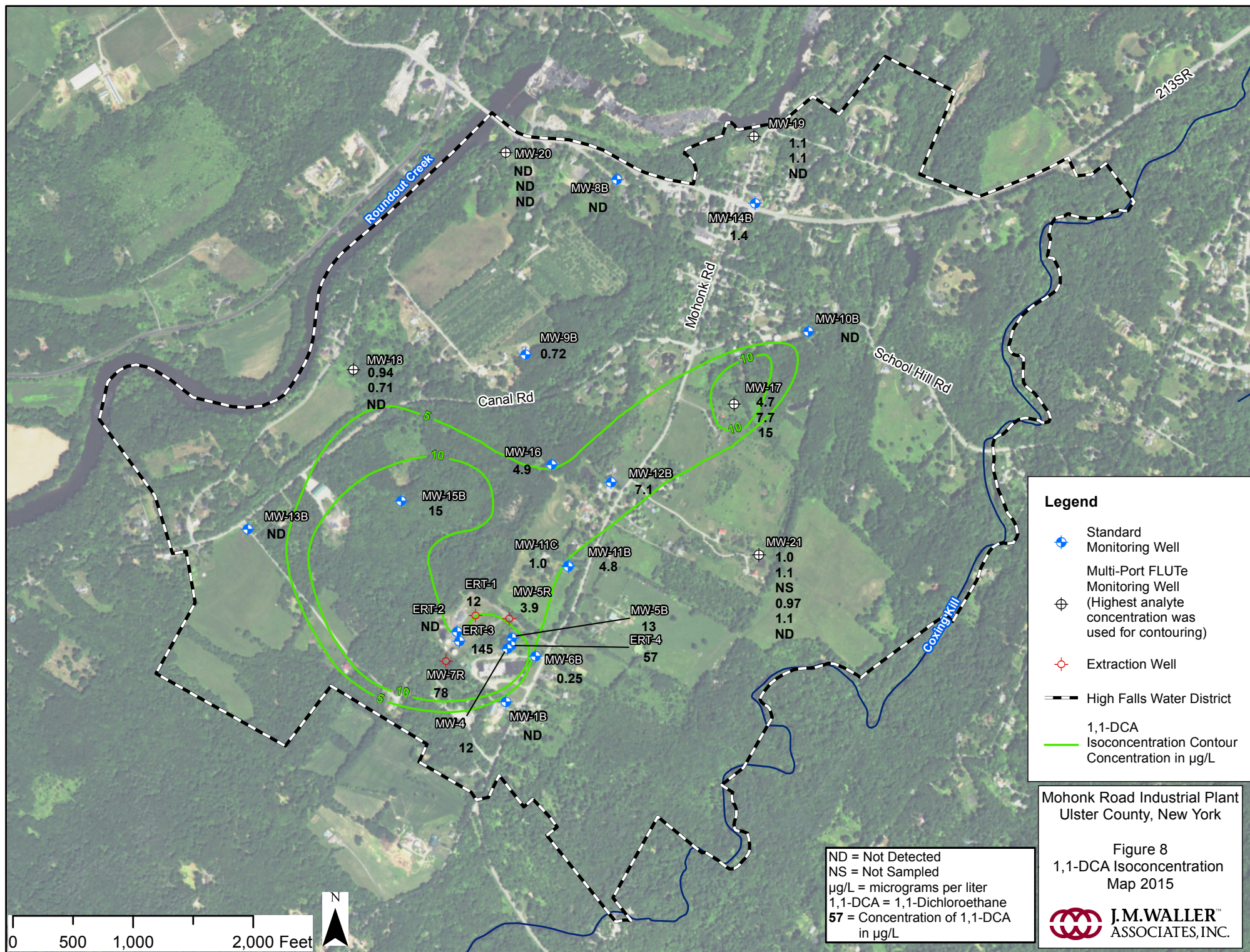


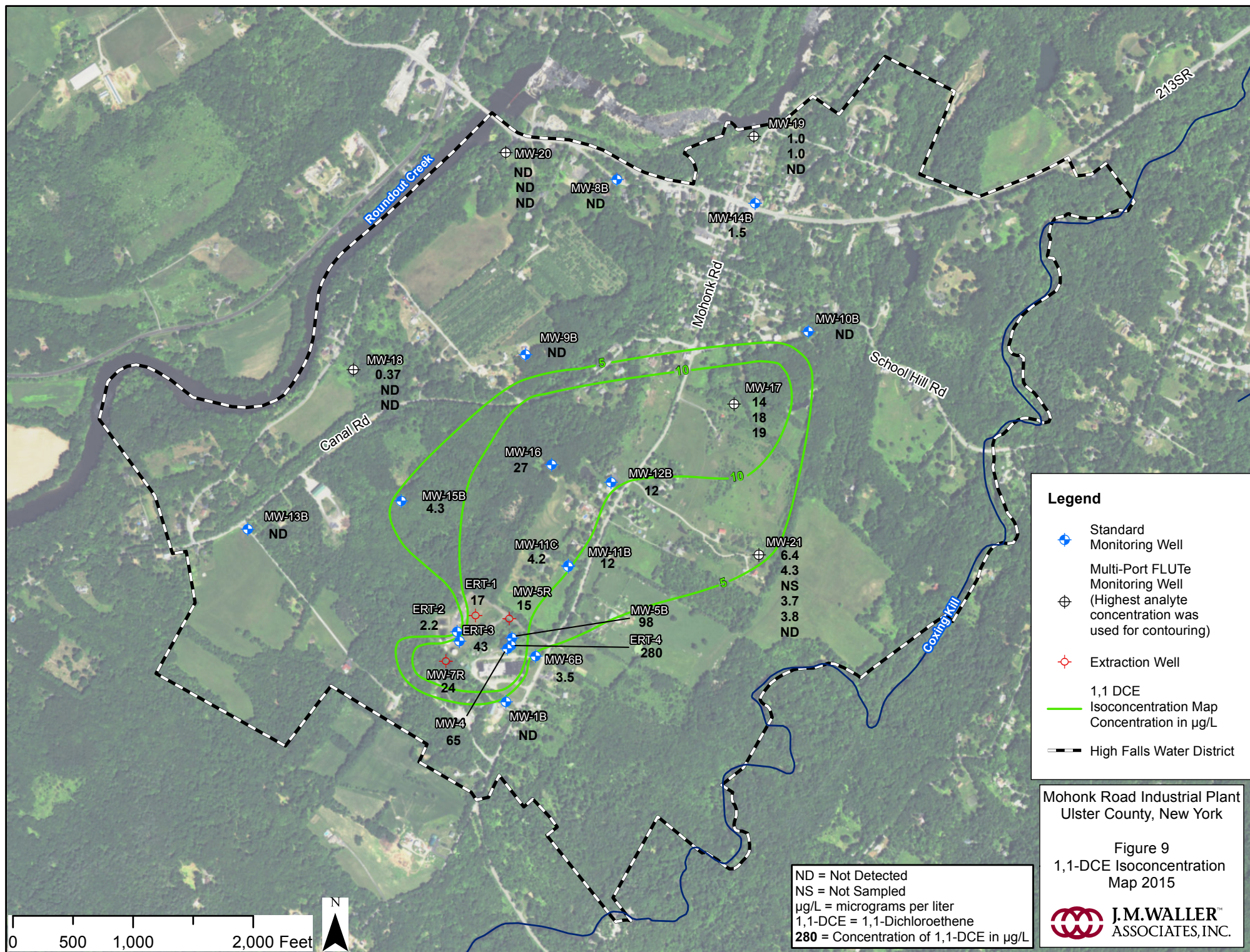


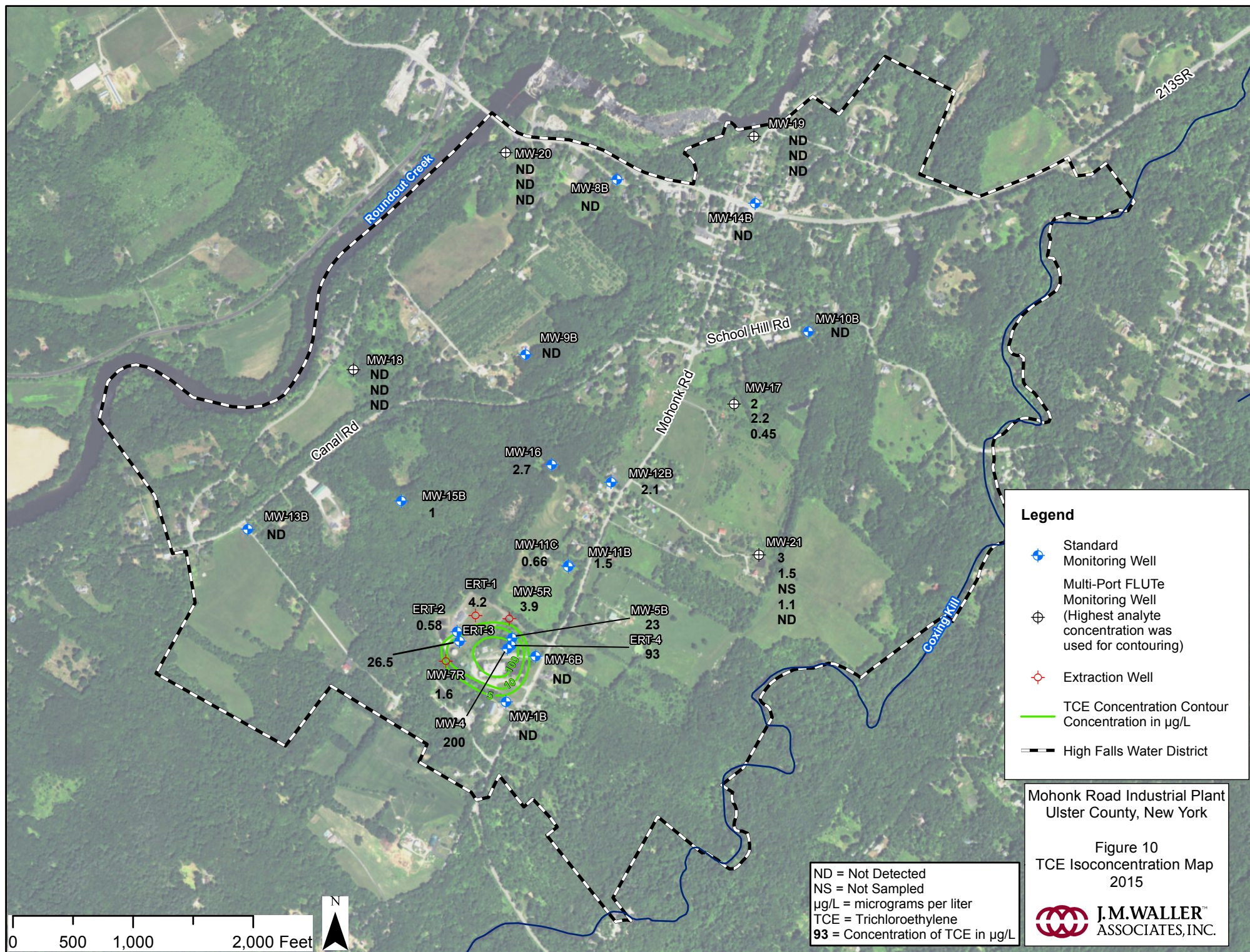












Appendix A

Daily Quality Control Reports (DQCRs)

DAILY QUALITY CONTROL REPORT

Site: Mohonk Road Industrial Plant Site

TO Manager: Mike Profit

QC Manager: Lynn Arabia

Date: November 16, 2015					Report No. 1		
Day:	Su	M	T	W	Th	F	Sa
Weather:	Clear	Cloudy		Overcast		Rain	Snow
Temp. (F)	To 32	32 - 50		50 - 70		70- 85	85 up
Wind:	Still	Moderate		High			
Humidity:	Dry	Moderate		High			
Personnel on site: Alex Valli, Tetra Tech Kennedy Lugo, Tetra Tech Terry Chuhay, J.M. Waller							
Sampling equipment on site: (3) YSI water quality meters with calibration kits (1) Mini RAE photoionization detector (PID) (2) Water level indicators (1) FLUTE water level indicator (3) HACH turbidity meters (2) Geosub submersible pumps Computers and printers							
Work performed: 1. Site setup. 2. Looking for/identifying wells for synoptic round of water levels. 3. AV sampled FLUTE wells MW-19 and MW-20; six samples total. 4. TC and KL sampled extraction wells ERT-1, MW-5R, and MW-7R.							
Quality control activities (including field calibrations): Pre- and post-calibration of (3) YSI water quality meters Pre- and post-calibration of Mini Rae PID Calibration of (3) HACH turbidity meters Completed daily trip blank							
Health and safety levels and activities: Level D. Walking in woods/heavy brush. Lifting precautions.							
Problems encountered/corrective actions taken: Could not find five wells. Mark Howard from AECOM due on November 17 to assist.							
Special notes: Mark Howard was unable to show the well locations due to illness.							
Tomorrow's planned activities: Sample FLUTE wells MW-17m MW-18, MW-21. Sample traditional wells MW-8B, -9B, -10B, -14B. If time allows, sample MW-11B and MW-12B.							

By: Alex Valli

Title: Field Team Leader

DAILY QUALITY CONTROL REPORT

Site: Mohonk Road Industrial Plant Site

TO Manager: Mike Profit

QC Manager: Lynn Arabia

Date: November 17, 2015					Report No. 2		
Day:	Su	M	T	W	Th	F	Sa
Weather:	Clear	Cloudy		Overcast		Rain	Snow
Temp. (F)	To 32	32 - 50		50 - 70		70- 85	85 up
Wind:	Still	Moderate		High			
Humidity:	Dry	Moderate		High			
Personnel on site: Alex Valli, Tetra Tech Kennedy Lugo, Tetra Tech Terry Chuhay, J.M. Waller Mark Howard, AECOM Amy Darpinian, USACE							
Sampling equipment on site: (3) YSI water quality meters with calibration kits (1) Mini RAE photoionization detector (PID) (2) Water level indicators (1) FLUTE water level indicator (3) HACH turbidity meters (2) Geosub submersible pumps Computers and printers							
Work performed: 1. With help from Mark Howard, located and identified 6 wells. 2. AV Sampled FLUTE Wells MW-17 and MW-18; six samples total. 3. TC and KL sampled traditional wells MW-4, MW-8B, MW-10B, and MW-14B.							
Quality control activities (including field calibrations): Pre- and post-calibration of (3) YSI water quality meters Pre- and post-calibration of Mini Rae PID Calibration of (3) HACH turbidity meters Completed daily trip blank, 1 MS/MSD on well MW-10B and two rinsate blanks.							
Health and safety levels and activities: Level D. Walking in woods/heavy brush. Lifting precautions.							
Problems encountered/corrective actions taken: GeoSump pump not able to get water out of deep well. TC ordered different pump to use.							
Special notes: Amy onsite noted that she is comfortable with the field work. She would like the work plan to include contingencies such as: what to do if the water level is dropping during sampling.							
Tomorrow's planned activities: Complete sampling of FLUTE Well MW-21. Sample traditional wells MW-11B, -11C, -13B, -15B, and -16.							

By: Alex Valli

Title: Field Team Leader

DAILY QUALITY CONTROL REPORT

Site: Mohonk Road Industrial Plant Site

TO Manager: Mike Profit

QC Manager: Lynn Arabia

Date: November 18, 2015					Report No. 3		
Day:	Su	M	T	W	Th	F	Sa
Weather:	Clear	Cloudy		Overcast		Rain	Snow
Temp. (F)	To 32	32 - 50		50 - 70		70- 85	85 up
Wind:	Still	Moderate		High			
Humidity:	Dry	Moderate		High			
Personnel on site: Alex Valli, Tetra Tech Kennedy Lugo, Tetra Tech Terry Chuhay, J.M. Waller							
Sampling equipment on site: (3) YSI water quality meters with calibration kits (1) Mini RAE photoionization detector (PID) (2) Water level indicators (1) FLUTE water level indicator (3) HACH turbidity meters (2) Geosub submersible pumps (1) Grunfos submersible pump with generator Computers and printers							
Work performed: 1. AV completed sampling of FLUTE well MW-21; five samples total. (Port 3 – not operational) 3. TC and KL sampled wells MW-11C, MW-13B, MW-16, MW-15B, and MW-1B							
Quality control activities (including field calibrations): Calibration of (3) YSI water quality meters Calibration of (3) HACH turbidity meters Completed daily trip blank, 1 MS/MSD on well MW-13B and duplicate sample collected at well MW-15B.							
Health and safety levels and activities: Level D. Walking in woods/heavy brush. Lifting precautions.							
Problems encountered/corrective actions taken: On November 16, it was noted that one of the submersible pumps was not as ordered. The rental company provided a replacement pump on November 18.							
Special notes: Saturday delivery of samples is probable. The lab will be alerted as to this possibility.							
Tomorrow's planned activities: Sample traditional wells MW-11B, MW-12B, MW-9B, ERT-2, ERT-3, and ERT-4.							

By: Alex Valli

Title: Field Team Leader

DAILY QUALITY CONTROL REPORT

Site: Mohonk Road Industrial Plant Site

TO Manager: Mike Profit

QC Manager: Lynn Arabia

Date: November 19, 2015					Report No. 4		
Day:	Su	M	T	W	Th	F	Sa
Weather:	Clear	Cloudy		Overcast		Rain	Snow
Temp. (F)	To 32	32 - 50		50 - 70		70- 85	85 up
Wind:	Still	Moderate		High			
Humidity:	Dry	Moderate		High			
Personnel on site: Kennedy Lugo, Tetra Tech Terence Chuhay, J.M. Waller							
Sampling equipment on site: (3) YSI water quality meters with calibration kits (1) Mini RAE photoionization detector (PID) (2) Water level indicators (1) FLUTE water level indicator (3) HACH turbidity meters (2) Geosub submersible pumps (1) Grunfos submersible pump with generator Computers and printers							
Work performed: 1. TC and KL sampled wells MW-11B, ERT-2, ERT-3, ERT-4, MW-5B, & MW-6B							
Quality control activities (including field calibrations): Calibration of (2) YSI water quality meters (third not used) Calibration of (2) HACH turbidity meters (third not used) Completed daily trip blank, collected field blanks. 1 duplicate sample taken at ERT-3							
Health and safety levels and activities: Level D. Working in rain. Lightning awareness.							
Problems encountered/corrective actions taken: Generator failure at well MW-9B necessitated work stoppage at that well. Failure likely due to exposure to rain. New generator being delivered by Pine Environmental to hotel by 08:00 11/20/15.							
Special notes: NYDEC on-site collecting water levels.							
Tomorrow's planned activities: Sample traditional wells MW-12B & MW-9B. Collect synoptic round of water levels.							

By: Kennedy Lugo

Title: Designated Field Team Leader

DAILY QUALITY CONTROL REPORT

Site: Mohonk Road Industrial Plant Site

TO Manager: Mike Profit

QC Manager: Lynn Arabia

Date: November 20, 2015					Report No. 5		
Day:	Su	M	T	W	Th	F	Sa
Weather:	Clear	Cloudy		Overcast		Rain	Snow
Temp. (°F)	To 32	32 - 50		50 - 70		70- 85	85 up
Wind:	Still	Moderate		High			
Humidity:	Dry	Moderate		High			
Personnel on site: Kennedy Lugo, Tetra Tech Terence Chuhay, J.M. Waller							
Sampling equipment on site: (3) YSI water quality meters with calibration kits (1) Mini RAE photoionization detector (PID) (2) Water level indicators (1) FLUTE water level indicator (3) HACH turbidity meters (2) Geosub submersible pumps (1) Grunfos submersible pump with generator Computers and printers							
Work performed: 1. TC and KL sampled wells MW-9B & MW-12B. 2. Collected post-sampling synoptic round of water levels. 3. Demobilized.							
Quality control activities (including field calibrations): Calibration of (2) YSI water quality meters (third not used) Calibration of (2) HACH turbidity meters (third not used) Completed daily trip blank, collected field blanks. Noted any well issues (e.g., missing/broken locks) on well assessment forms.							
Health and safety levels and activities: Level D. Working with and refueling gas-powered generator. Proper lifting technique.							
Problems encountered/corrective actions taken: No problems encountered.							
Special notes: Homeowner at MW-12B concerned that he was not given advance notice of well sampling activities. KL provided photo identification and business card on request. No issues thereafter.							
Tomorrow's planned activities: Sampling effort complete. Site demobilized.							

By: Kennedy Lugo

Title: Designated Field Team Leader

Appendix B

Field Forms

Well Assessment Checklist

Monitoring Well Purge Logs

Calibration Logs

Daily Safety Logs

Well Assessment Checklist

Appendix A.1
Monitoring Well ERT-1
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well: *Recovery well* Flush Mount *Stick up* Multilevel Well
 Well riser and screen material: NA; open hole bedrock well
 Surface casing material: *STEEL*
 Measuring point\elevation:
 Elevation (top of casing): 303.94
 Well lock\security type: *Pad lock*
 Well Depth (as installed): 195 ftbgs
 Well Depth (as measured): *100M* ftbtor
 Riser Diameter: 6" inches
 Surface Casing diameter: 6" inches
 Screened interval: NA ft
 Open hole interval: 28-195 ft
 Depth to water: *70.10* ftbtor
70.10 - 54.95

Appendix A.1
Monitoring Well ERT-1
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes ☒ No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes ☒ No

Well Condition

Is the concrete pad in good condition?	Yes	No	☒ NA
Is the well surface casing in good condition?	☒ Yes	No	NA
Is the surface casing vertical?	☒ Yes	No	NA
Is there an internal well seal?	Yes	☒ No	NA
Has there been physical damage to the well?	Yes	☒ No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	☒ Yes	No	NA
Is the well clearly labeled?	☒ Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	☒ NA

Other Comments: _____

Recommendations

Well needs to be redeveloped	Yes	☒ No
Well needs to be re-surveyed.	Yes	☒ No
Well needs to be repaired.	Yes	☒ No
Well needs to be replaced.	Yes	☒ No
Well needs to be properly abandoned.	Yes	☒ No
Action necessary.	Yes	☒ No

Inspected by: J Chubaz

Date of Inspection: 11-16-15

Appendix A.1
Monitoring Well ERT-2
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name:	Mohonk Road Industrial (MRIP) Superfund Site
Site Address:	186 Mohonk Road High Falls, New York 12400
Site County:	Ulster County
Site State:	New York
EPA Site ID Number:	NYD986950012
Site Owner:	
EPA Project Manager:	Damian Duda

Well Locational Information

State Well ID: _____
 Well Tag ID: _____
 Well Installation date: _____
 Latitude (by GPS): _____
 Longitude (by GPS): _____
 Ground surface elevation (by GPS): _____
 GPS Instrument used: _____
 Cross streets (if applicable): _____

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u>	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	Steel		
Measuring point\elevation:			
Elevation (top of casing):	309.81		
Well lock\security type:	<u>Pad lock</u>		
Well Depth (as installed):	200	ftbgs	
Well Depth (as measured):	<u>>202</u>	ftbtor	
Riser Diameter:	6"	inches	
Surface Casing diameter:	<u>6"</u>	inches	
Screened interval:	OPEN	ft	
Open hole interval:	NA	ft	
Depth to water:	<u>72.24</u>	ftbtor	
	<u>POST - 57.89</u>		

Appendix A.1
Monitoring Well ERT-2
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	<u>NA</u>
Is the well surface casing in good condition?	<u>Yes</u>	No	NA
Is the surface casing vertical?	<u>Yes</u>	No	NA
Is there an internal well seal?	Yes	<u>No</u>	NA
Has there been physical damage to the well?	Yes	<u>No</u>	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	<u>No</u>	NA
Is the well clearly labeled?	<u>Yes</u>	No	NA
Flush mount - Is it secure from runoff?	Yes	No	<u>NA</u>

Other Comments: 1 foot sticking

Recommendations

Well needs to be redeveloped	Yes	<u>No</u>
Well needs to be re-surveyed.	Yes	<u>No</u>
Well needs to be repaired.	Yes	<u>No</u>
Well needs to be replaced.	Yes	<u>No</u>
Well needs to be properly abandoned.	Yes	<u>No</u>
Action necessary.	Yes	<u>No</u>

Inspected by: Ilhaz

Date of Inspection: 11-16-15

Appendix A.1
Monitoring Well ERT-3
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name:	Mohonk Road Industrial (MRIP) Superfund Site
Site Address:	186 Mohonk Road High Falls, New York 12400
Site County:	Ulster County
Site State:	New York
EPA Site ID Number:	NYD986950012
Site Owner:	
EPA Project Manager:	Damian Duda

Well Locational Information

State Well ID: _____
 Well Tag ID: _____
 Well Installation date: _____
 Latitude (by GPS): _____
 Longitude (by GPS): _____
 Ground surface elevation (by GPS): _____
 GPS Instrument used: _____
 Cross streets (if applicable): _____

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u>	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	CS		
Measuring point elevation:			
Elevation (top of casing):	315.89		
Well lock/security type:	Pad Lock		
Well Depth (as installed):	220	ftbgs	
Well Depth (as measured):	NM	ftbtor	
Riser Diameter:	6"	inches	
Surface Casing diameter:	6" CS	inches	
Screened interval:	OPEN	ft	
Open hole interval:	NA	ft	
Depth to water:	78.81	ftbtor	
	725 - 64.09		

Appendix A.1
Monitoring Well ERT-3
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	<u>NA</u>
Is the well surface casing in good condition?	<u>Yes</u>	No	NA
Is the surface casing vertical?	<u>Yes</u>	No	NA
Is there an internal well seal?	Yes	<u>No</u>	NA
Has there been physical damage to the well?	Yes	<u>No</u>	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	<u>Yes</u>	No	NA
Is the well clearly labeled?	<u>Yes</u>	No	NA
Flush mount - Is it secure from runoff?	Yes	No	<u>NA</u>

Other Comments: 1 foot sticky

Recommendations

Well needs to be redeveloped	Yes	<u>No</u>
Well needs to be re-surveyed.	Yes	<u>No</u>
Well needs to be repaired.	Yes	<u>No</u>
Well needs to be replaced.	Yes	<u>No</u>
Well needs to be properly abandoned.	Yes	<u>No</u>
Action necessary.	Yes	<u>No</u>

Inspected by: T. Chubay

Date of Inspection: 11-16-15

Appendix A.1
Monitoring Well ERT-4
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u>	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	STEEL		
Measuring point\elevation:			
Elevation (top of casing):	NA		
Well lock\security type:	Pad lock		
Well Depth (as installed):	50	ftbgs	
Well Depth (as measured):	47.31	ftbtor	
Riser Diameter:	4"	inches	
Surface Casing diameter:		inches	
Screened interval:	NA	ft	
Open hole interval:	NA	ft	
Depth to water:	26.08	ftbtor	
	POST - 25.30		

Appendix A.1
Monitoring Well ERT-4
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes ☒ No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes ☒ No

Well Condition

Is the concrete pad in good condition?	☒ Yes	No	NA
Is the well surface casing in good condition?	☒ Yes	No	NA
Is the surface casing vertical?	☒ Yes	No	NA
Is there an internal well seal?	Yes	☒ No	NA
Has there been physical damage to the well?	Yes	☒ No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	☒ Yes	No	NA
Is the well clearly labeled?	☒ Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	☒ NA

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	☒ No
Well needs to be re-surveyed.	Yes	☒ No
Well needs to be repaired.	Yes	☒ No
Well needs to be replaced.	Yes	☒ No
Well needs to be properly abandoned.	Yes	☒ No
Action necessary.	Yes	☒ No

Inspected by: J Chubay

Date of Inspection: 11-16-15

Appendix A.1
Monitoring Well MW-1B
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID: MW-1B
 Well Installation date: 11-16-15
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u> ✓	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	PVC INNER, STICK OUTER		
Measuring point\elevation:	PVC mark		
Elevation (top of casing):	333.53		
Well lock\security type:	Master Pad		
Well Depth (as installed):	100	ftbgs	
Well Depth (as measured):	101.45	ftbtor	
Riser Diameter:	2" 4	inches	
Surface Casing diameter:	4	inches	
Screened interval:	NA	ft	
Open hole interval:	22-100	ft	
Depth to water:	57.00	ftbtor	
	PGST - 54.81		

Appendix A.1
Monitoring Well MW-1B
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes ☒ No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes ☒ No

Well Condition

Is the concrete pad in good condition?	Yes	No	☒ NA
Is the well surface casing in good condition?	☒ Yes	No	☒ NA
Is the surface casing vertical?	☒ Yes	No	☒ NA
Is there an internal well seal?	Yes	☒ No	NA
Has there been physical damage to the well?	Yes	☒ No	NA
Does sounding depth match completed depth?	Yes	☒ No	NA
Is measuring point marked?	☒ Yes	No	NA
Is the well clearly labeled?	☒ Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	☒ No	NA

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	☒ No
Well needs to be re-surveyed.	Yes	☒ No
Well needs to be repaired.	Yes	☒ No
Well needs to be replaced.	Yes	☒ No
Well needs to be properly abandoned.	Yes	☒ No
Action necessary.	Yes	☒ No

Inspected by: I. Chubay

Date of Inspection: 11-16-15

Appendix A.1
Monitoring Well MW-4
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u>	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	PVC INNER, STEEL OUTSIDE		
Measuring point\elevation:			
Elevation (top of casing):	329.21		
Well lock\security type:	NO LOCK		
Well Depth (as installed):	21.5	ftbgs	
Well Depth (as measured):	21.49	ftbtor	
Riser Diameter:	2"	inches	
Surface Casing diameter:	2"	inches	
Screened interval:	9.5-19.5	ft	
Open hole interval:		ft	
Depth to water:	4.54	ftbtor	
	POST 3.42		

Appendix A.1
Monitoring Well MW-4
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes ☐ No ☒

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes ☐ No ☒

Well Condition

Is the concrete pad in good condition?	☒ Yes	No	NA
Is the well surface casing in good condition?	☒ Yes	No	NA
Is the surface casing vertical?	☒ Yes	No	NA
Is there an internal well seal?	☒ Yes	No	NA
Has there been physical damage to the well?	Yes	☒ No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	☒ Yes	No	NA
Is the well clearly labeled?	☒ Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	☒ NA

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	☒ No
Well needs to be re-surveyed.	Yes	☒ No
Well needs to be repaired.	Yes	☒ No
Well needs to be replaced.	Yes	☒ No
Well needs to be properly abandoned.	Yes	☒ No
Action necessary.	Yes	☒ No

REPAIR LAK

Inspected by:

J. Chubay

Date of Inspection:

11-16-15

Appendix A.1
Monitoring Well MW-5B
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u>	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	STEEL OUTSIDE, PVC INSIDE		
Measuring point\elevation:			
Elevation (top of casing):	325.3		
Well lock\security type:	NO LOCK (INNER CASING TOO HIGH FOR LOCK TO FIT)		
Well Depth (as installed):	36.2	ftbgs	
Well Depth (as measured):	36.62	ftbtor	
Riser Diameter:	3	inches	
Surface Casing diameter:	2	inches	
Screened interval:	19-34	ft	
Open hole interval:		ft	
Depth to water:	25.19	ftbtor	
	POST - 24.27		

Appendix A.1
Monitoring Well MW-5B
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes ☒ No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes ☒ No

Well Condition

Is the concrete pad in good condition?	Yes	No	☒ NA
Is the well surface casing in good condition?	☒ Yes	No	NA
Is the surface casing vertical?	☒ Yes	No	NA
Is there an internal well seal?	☒ Yes	No	NA
Has there been physical damage to the well?	Yes	☒ No	NA
Does sounding depth match completed depth?	☒ Yes	No	NA
Is measuring point marked?	☒ Yes	No	NA
Is the well clearly labeled?	☒ Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	☒ NA

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	☒ No
Well needs to be re-surveyed.	Yes	☒ No
Well needs to be repaired.	Yes	☒ No
Well needs to be replaced.	Yes	☒ No
Well needs to be properly abandoned.	Yes	☒ No
Action necessary.	Yes	☒ No

NEEDS LOCK

Inspected by: Shutg

Date of Inspection: 11-16-15

Appendix A.1
Monitoring Well MW-5R
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	<u>Recovery</u> <u>Running</u> Flush Mount <u>Stick up</u> Multilevel Well
Well riser and screen material:	NA; open hole bedrock well
Surface casing material:	<u>CS</u>
Measuring point\elevation:	
Elevation (top of casing):	313.63
Well lock\security type:	<u>Pad lock</u>
Well Depth (as installed):	125 ftbgs
Well Depth (as measured):	<u>122.93</u> ftbtor
Riser Diameter:	6" inches
Surface Casing diameter:	<u>6"</u> inches
Screened interval:	NA ft
Open hole interval:	15-125 ft
Depth to water:	<u>78.21</u> ftbtor <u>POST 62.65</u>

Appendix A.1
Monitoring Well MW-5R
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	<u>Yes</u>	No	NA
Is the well surface casing in good condition?	<u>Yes</u>	No	NA
Is the surface casing vertical?	<u>Yes</u>	No	NA
Is there an internal well seal?	<u>Yes</u>	<u>No</u>	NA
Has there been physical damage to the well?	<u>Yes</u>	<u>No</u>	NA
Does sounding depth match completed depth?	<u>Yes</u>	<u>No</u>	NA
Is measuring point marked?	<u>Yes</u>	No	NA
Is the well clearly labeled?	<u>Yes</u>	No	NA
Flush mount - Is it secure from runoff?	<u>Yes</u>	No	<u>NA</u>

Other Comments: Running

Recommendations

Well needs to be redeveloped	Yes	<u>No</u>
Well needs to be re-surveyed.	Yes	<u>No</u>
Well needs to be repaired.	Yes	<u>No</u>
Well needs to be replaced.	Yes	<u>No</u>
Well needs to be properly abandoned.	Yes	<u>No</u>
Action necessary.	Yes	<u>No</u>

Inspected by: JLhuber

Date of Inspection: 11-16-15

Appendix A.1
Monitoring Well MW-6B
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u>	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	<u>Steel</u>		
Measuring point/elevation:			
Elevation (top of casing):	323.95		
Well lock/security type:	<u>Master Padlock</u>		
Well Depth (as installed):	100	ftbgs	
Well Depth (as measured):	<u>101.81</u>	ftbtor	
Riser Diameter:	2"	inches	
Surface Casing diameter:	<u>4" 2" ✓</u>	inches	
Screened interval:	39-100	ft	
Open hole interval:			
Depth to water:	<u>85.448 - 18</u>	ft	
	<u>205.59 - 70.59</u>		

Appendix A.1
Monitoring Well MW-6B
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes ☒ No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes ☒ No

Well Condition

Is the concrete pad in good condition?	Yes	No	☒ NA
Is the well surface casing in good condition?	☒ Yes	No	NA
Is the surface casing vertical?	☒ Yes	No	NA
Is there an internal well seal?	Yes	☒ No	NA
Has there been physical damage to the well?	Yes	☒ No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	☒ Yes	No	NA
Is the well clearly labeled?	Yes	☒ No	NA
Flush mount - Is it secure from runoff?	Yes	No	☒ NA

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	☒ No
Well needs to be re-surveyed.	Yes	☒ No
Well needs to be repaired.	Yes	☒ No
Well needs to be replaced.	Yes	☒ No
Well needs to be properly abandoned.	Yes	☒ No
Action necessary.	Yes	☒ No

Inspected by: 2/1/15

Date of Inspection: 11-16-15

Appendix A.1
Monitoring Well MW-7B
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u>	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	<u>STEEL OUTER, PVC INNER</u>		
Measuring point\elevation:			
Elevation (top of casing):	<u>313.93</u>		
Well lock\security type:	<u>PADLOCK</u>		
Well Depth (as installed):	<u>100</u>	ftbgs	
Well Depth (as measured):	<u>101.83</u>	ftbtor	
Riser Diameter:	<u>4.5</u>	inches	
Surface Casing diameter:	<u>4</u>	inches	
Screened interval:	NA	ft	
Open hole interval:	24-100	ft	
Depth to water:	<u>66.20</u>	ftbtor	
	<u>(POST)</u>		

Appendix A.1
Monitoring Well MW-7B
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes ☐ No ☒

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes ☐ No ☒

Well Condition

Is the concrete pad in good condition?	Yes	No	☒ NA
Is the well surface casing in good condition?	☒ Yes	No	NA
Is the surface casing vertical?	☒ Yes	No	NA
Is there an internal well seal?	☒ Yes	No	NA
Has there been physical damage to the well?	Yes	☒ No	NA
Does sounding depth match completed depth?	Yes	☒ No	NA
Is measuring point marked?	☒ Yes	No	NA
Is the well clearly labeled?	Yes	☒ No	NA
Flush mount - Is it secure from runoff?	Yes	No	☒ NA

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	☒ No
Well needs to be re-surveyed.	Yes	☒ No
Well needs to be repaired.	Yes	☒ No
Well needs to be replaced.	Yes	☒ No
Well needs to be properly abandoned.	Yes	☒ No
Action necessary.	Yes	☒ No

Inspected by: K. Lugo

Date of Inspection: 11/20/15

Appendix A.1
Monitoring Well MW-7R
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u>	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	CS		
Measuring point\elevation:			
Elevation (top of casing):	314.3		
Well lock\security type:	PAD LOCK		
Well Depth (as installed):	180	ftbgs	
Well Depth (as measured):	182.60	ftbtor	
Riser Diameter:	6"	inches	
Surface Casing diameter:	6	inches	
Screened interval:	NA	ft	
Open hole interval:	24-100	ft	
Depth to water:		ftbtor	
	POST - 62.28		

Appendix A.1
Monitoring Well MW-7R
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	<u>NA</u>
Is the well surface casing in good condition?	<u>Yes</u>	No	NA
Is the surface casing vertical?	<u>Yes</u>	No	NA
Is there an internal well seal?	Yes	<u>No</u>	NA
Has there been physical damage to the well?	Yes	<u>No</u>	NA
Does sounding depth match completed depth?	Yes	<u>No</u>	NA
Is measuring point marked?	Yes	<u>No</u>	NA
Is the well clearly labeled?	<u>Yes</u>	No	NA
Flush mount - Is it secure from runoff?	Yes	No	<u>NA</u>

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	<u>No</u>
Well needs to be re-surveyed.	Yes	<u>No</u>
Well needs to be repaired.	Yes	<u>No</u>
Well needs to be replaced.	Yes	<u>No</u>
Well needs to be properly abandoned.	Yes	<u>No</u>
Action necessary.	Yes	<u>No</u>

Inspected by: B. Lutz

Date of Inspection: 11/20/15

Appendix A.1
Monitoring Well MW-8B
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	<u>Flush Mount</u>	Stick up	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	<u>CS</u>		
Measuring point\elevation:			
Elevation (top of casing):	159.68		
Well lock\security type:	<u>NO Lock - need padlock</u>		
Well Depth (as installed):	100	ftbgs	
Well Depth (as measured):	<u>102.51</u>	ftbtor	
Riser Diameter:	6"	inches	
Surface Casing diameter:	<u>6</u>	inches	
Screened interval:	NA	ft	
Open hole interval:	48-100	ft	
Depth to water:	<u>29.03</u>	ftbtor	

POST SYNOPSIS - 28 90

Appendix A.1
Monitoring Well MW-8B
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	<u>Yes</u>	No	NA
Is the well surface casing in good condition?	<u>Yes</u>	No	NA
Is the surface casing vertical?	<u>Yes</u>	No	NA
Is there an internal well seal?	Yes	<u>No</u>	NA
Has there been physical damage to the well?	Yes	<u>No</u>	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	<u>No</u>	NA
Is the well clearly labeled?	<u>Yes</u>	No	NA
Flush mount - Is it secure from runoff?	<u>Yes</u>	No	NA

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	<u>No</u>
Well needs to be re-surveyed.	Yes	<u>No</u>
Well needs to be repaired.	Yes	<u>No</u>
Well needs to be replaced.	Yes	<u>No</u>
Well needs to be properly abandoned.	Yes	<u>No</u>
Action necessary.	<u>Yes</u>	No

New lock

Inspected by:

JLh

Date of Inspection:

11-16-15

Appendix A.1
Monitoring Well MW-9B
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	<u>Flush Mount</u>	Stick up	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	<u>CS</u>		
Measuring point\elevation:			
Elevation (top of casing):	248.21		
Well lock\security type:	<u>NO LOCK</u>		
Well Depth (as installed):	145	ftbgs	
Well Depth (as measured):	<u>~150 (SEET B-TM)</u>	ftbtor	
Riser Diameter:	6"	inches	
Surface Casing diameter:	<u>6'</u>	inches	
Screened interval:	NA	ft	
Open hole interval:	95-145	ft	
Depth to water:	<u>18.62</u>	ftbtor	

POST H30

Appendix A.1			
Monitoring Well MW-9B			
EPA Region 2 Superfund Well Assessment Checklist			
Well Headspace Readings			
PID/FID Reading taken inside top of casing: <u>0.0</u> ppm			
Do site conditions necessitate other headspace measurements?	Yes	☒ No	
If yes, list other measurements taken: _____			
Do readings indicate unsafe conditions exist?	Yes	☒ No	
Well Condition			
Is the concrete pad in good condition?	☒ Yes	No	NA
Is the well surface casing in good condition?	☒ Yes	No	NA
Is the surface casing vertical?	☒ Yes	No	NA
Is there an internal well seal?	☒ Yes	No	NA
Has there been physical damage to the well?	Yes	☒ No	NA
Does sounding depth match completed depth?	☒ Yes	No	NA
Is measuring point marked?	☒ Yes	No	NA
Is the well clearly labeled?	☒ Yes	No	NA
Flush mount - Is it secure from runoff?	☒ Yes	No	NA
Other Comments:			
Recommendations			
Well needs to be redeveloped	Yes	☒ No	
Well needs to be re-surveyed.	Yes	☒ No	
Well needs to be repaired.	Yes	☒ No	
Well needs to be replaced.	Yes	☒ No	
Well needs to be properly abandoned.	Yes	☒ No	
Action necessary.	Yes	☒ No	
Inspected by: <u>Ilhbay</u>			
Date of Inspection: <u>11/19/15</u>			

Appendix A.1
Monitoring Well MW-10B
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u>	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	<u>CS</u>		
Measuring point\elevation:			
Elevation (top of casing):	225.64		
Well lock\security type:	<u>Padlock gaoel</u>		
Well Depth (as installed):	100	ftbgs	
Well Depth (as measured):	<u>102.31</u>	ftbtor	
Riser Diameter:	6"	inches	
Surface Casing diameter:	<u>6"</u>	inches	
Screened interval:	NA	ft	
Open hole interval:	24-100	ft	
Depth to water:	<u>26.23</u>	ftbtor	
	<u>POST SYN -26.66</u>		

Appendix A.1
Monitoring Well MW-10B
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	<u>NA</u>
Is the well surface casing in good condition?	<u>Yes</u>	No	NA
Is the surface casing vertical?	<u>Yes</u>	No	NA
Is there an internal well seal?	Yes	<u>No</u>	NA
Has there been physical damage to the well?	Yes	<u>No</u>	NA
Does sounding depth match completed depth?	<u>Yes</u>	No	NA
Is measuring point marked?	<u>Yes</u>	No	NA
Is the well clearly labeled?	<u>Yes</u>	No	NA
Flush mount - Is it secure from runoff?	Yes	<u>No</u>	NA

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	<u>No</u>
Well needs to be re-surveyed.	Yes	<u>No</u>
Well needs to be repaired.	Yes	<u>No</u>
Well needs to be replaced.	Yes	<u>No</u>
Well needs to be properly abandoned.	Yes	<u>No</u>
Action necessary.	Yes	<u>No</u>

Inspected by: JLH

Date of Inspection: 11-16-15

Appendix A.1
Monitoring Well MW-11B
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u>	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	<u>CS</u>		
Measuring point\elevation:			
Elevation (top of casing):	<u>281.72</u>		
Well lock\security type:	<u>Pad lock</u>		
Well Depth (as installed):	<u>181</u>	ftbgs	
Well Depth (as measured):	<u>~183</u>	ftbtor	
Riser Diameter:	<u>6"</u>	inches	
Surface Casing diameter:	<u>6</u>	inches	
Screened interval:	<u>NA</u>	ft	
Open hole interval:	<u>49-181</u>	ft	
Depth to water:	<u>39.99</u>	ftbtor	
	<u>205T SW - 30.21</u>		

Appendix A.1
Monitoring Well MW-11B
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	<u>NA</u>
Is the well surface casing in good condition?	<u>Yes</u>	No	NA
Is the surface casing vertical?	<u>Yes</u>	No	NA
Is there an internal well seal?	Yes	<u>No</u>	NA
Has there been physical damage to the well?	Yes	<u>No</u>	NA
Does sounding depth match completed depth?	<u>Yes</u>	No	NA
Is measuring point marked?	Yes	<u>No</u>	NA
Is the well clearly labeled?	Yes	<u>No</u>	NA
Flush mount - Is it secure from runoff?	Yes	No	<u>NA</u>

Other Comments: Carbon steel to Central box

Recommendations

Well needs to be redeveloped	Yes	<u>No</u>
Well needs to be re-surveyed.	Yes	<u>No</u>
Well needs to be repaired.	Yes	<u>No</u>
Well needs to be replaced.	Yes	<u>No</u>
Well needs to be properly abandoned.	Yes	<u>No</u>
Action necessary.	Yes	<u>No</u>

Inspected by: JLH

Date of Inspection: 11-16-15

Appendix A.1
Monitoring Well MW-11C
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u>	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	CS		
Measuring point/elevation:			
Elevation (top of casing):	284.58		
Well lock/security type:	PADLOCK		
Well Depth (as installed):	220	ftbgs	
Well Depth (as measured):	UNABLE TO MEASURE	ftbtor	
Riser Diameter:	6"	inches	
Surface Casing diameter:	6	inches	
Screened interval:	NA	ft	
Open hole interval:	210	ft	
Depth to water:		ftbtor	

105.5 - 32.10

Appendix A.1
Monitoring Well MW-11C
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 00 ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	<u>Yes</u>	No	NA
Is the well surface casing in good condition?	<u>Yes</u>	No	NA
Is the surface casing vertical?	<u>Yes</u>	No	NA
Is there an internal well seal?	Yes	<u>No</u>	NA
Has there been physical damage to the well?	Yes	<u>No</u>	NA
Does sounding depth match completed depth?	Yes	No	<u>NA</u>
Is measuring point marked?	Yes	<u>No</u>	NA
Is the well clearly labeled?	Yes	<u>No</u>	NA
Flush mount - Is it secure from runoff?	Yes	No	<u>NA</u>

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	<u>No</u>
Well needs to be re-surveyed.	Yes	<u>No</u>
Well needs to be repaired.	Yes	<u>No</u>
Well needs to be replaced.	Yes	<u>No</u>
Well needs to be properly abandoned.	Yes	<u>No</u>
Action necessary.	Yes	<u>No</u>

Inspected by: H. Lugo

Date of Inspection: 11/20/15

Appendix A.1
Monitoring Well MW-12B
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	<u>Flush Mount</u>	Stick up	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	<u>C.S.</u>		
Measuring point\elevation:			
Elevation (top of casing):	258.2		
Well lock\security type:	<u>Padlock - broke</u>		
Well Depth (as installed):	200	ftbgs	
Well Depth (as measured):	<u>~197.63</u>	ftbtor	
Riser Diameter:	<u>6"</u>	inches	
Surface Casing diameter:	<u>6"</u>	inches	
Screened interval:	NA	ft	
Open hole interval:	18-200	ft	
Depth to water:	<u>10.35</u>	ftbtor	
	<u>(POST)</u>		

Appendix A.1
Monitoring Well MW-12B
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes ☒ No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes ☒ No

Well Condition

Is the concrete pad in good condition?	Yes	No	☒ NA
Is the well surface casing in good condition?	☒ Yes	No	NA
Is the surface casing vertical?	☒ Yes	No	NA
Is there an internal well seal?	Yes	☒ No	NA
Has there been physical damage to the well?	Yes	☒ No	NA
Does sounding depth match completed depth?	Yes	☒ No	NA
Is measuring point marked?	☒ Yes	No	NA
Is the well clearly labeled?	Yes	☒ No	NA
Flush mount - Is it secure from runoff?	☒ Yes	No	NA

Other Comments: STICK UP WELL CUT TO LEVEL GROUND
NOT FLUSH MOUNT N/ PAD

Recommendations

Well needs to be redeveloped	Yes	☒ No
Well needs to be re-surveyed.	Yes	☒ No
Well needs to be repaired.	Yes	☒ No
Well needs to be replaced.	Yes	☒ No
Well needs to be properly abandoned.	Yes	☒ No
Action necessary.	☒ Yes	No

LOCK REPLACEMENT

Inspected by: H. Laga
 Date of Inspection: 11/28/15

Appendix A.1
Monitoring Well MW-13B
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	Stick up	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	STIR		
Measuring point\elevation:			
Elevation (top of casing):	221.93		
Well lock\security type:	N/A		
Well Depth (as installed):	200	ftbgs	
Well Depth (as measured):	N/A	ftbtor	
Riser Diameter:	6"	inches	
Surface Casing diameter:		inches	
Screened interval:	NA	ft	
Open hole interval:	78-200	ft	
Depth to water:	ARTESIAN	ftbtor	
	POST SUR - ARTESIAN		

Appendix A.1
Monitoring Well MW-13B
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: u/a ppm

Do site conditions necessitate other headspace measurements? Yes ☒ No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes ☒ No

Well Condition

Is the concrete pad in good condition?	☒ Yes	No	NA
Is the well surface casing in good condition?	☒ Yes	No	NA
Is the surface casing vertical?	☒ Yes	No	NA
Is there an internal well seal?	☒ Yes	No	NA
Has there been physical damage to the well?	Yes	☒ No	NA
Does sounding depth match completed depth?	Yes	No	☒ NA
Is measuring point marked?	Yes	No	☒ NA
Is the well clearly labeled?	Yes	☒ No	NA
Flush mount - Is it secure from runoff?	☒ Yes	No	NA

Other Comments: Artesian

Recommendations

Well needs to be redeveloped	Yes	☒ No
Well needs to be re-surveyed.	Yes	☒ No
Well needs to be repaired.	Yes	☒ No
Well needs to be replaced.	Yes	☒ No
Well needs to be properly abandoned.	Yes	☒ No
Action necessary.	Yes	☒ No

Inspected by: [Signature]

Date of Inspection: 11/20/15

Appendix A.1
Monitoring Well MW-14B
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name:	Mohonk Road Industrial (MRIP) Superfund Site
Site Address:	186 Mohonk Road High Falls, New York 12400
Site County:	Ulster County
Site State:	New York
EPA Site ID Number:	NYD986950012
Site Owner:	
EPA Project Manager:	Damian Duda

Well Locational Information

State Well ID:	
Well Tag ID:	
Well Installation date:	
Latitude (by GPS):	
Longitude (by GPS):	
Ground surface elevation (by GPS):	
GPS Instrument used:	
Cross streets (if applicable):	

Well Construction Details

Type of well	<u>Flush Mount</u>	Stick up	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	<u>CS</u>		
Measuring point\elevation:			
Elevation (top of casing):	156.67		
Well lock\security type:	<u>Padlock - NON FUNCTIONING</u>		
Well Depth (as installed):	155	ftbgs	
Well Depth (as measured):	<u>155.67</u>	ftbtor	
Riser Diameter:	6"	inches	
Surface Casing diameter:	<u>6"</u>	inches	
Screened interval:	NA	ft	
Open hole interval:	26-155	ft	
Depth to water:	<u>5.79</u>	ftbtor	
	<u>POST-SYNAPTIC - 5.53</u>		

Appendix A.1
Monitoring Well MW-14B
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	<u>Yes</u>	No	NA
Is the well surface casing in good condition?	<u>Yes</u>	No	NA
Is the surface casing vertical?	<u>Yes</u>	No	NA
Is there an internal well seal?	Yes	<u>No</u>	NA
Has there been physical damage to the well?	Yes	<u>No</u>	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	<u>No</u>	NA
Is the well clearly labeled?	Yes	<u>No</u>	NA
Flush mount - Is it secure from runoff?	<u>Yes</u>	No	NA

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	<u>No</u>
Well needs to be re-surveyed.	Yes	<u>No</u>
Well needs to be repaired.	Yes	<u>No</u>
Well needs to be replaced.	Yes	<u>No</u>
Well needs to be properly abandoned.	Yes	<u>No</u>
Action necessary.	Yes	<u>No</u>

PAOLOCK REPLACEMENT NEEDED

Inspected by: *Shahg*

Date of Inspection: *11-16-15*

Appendix A.1
Monitoring Well MW-15B
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u>	Multilevel Well
Well riser and screen material:	NA; open hole bedrock well		
Surface casing material:	<u>CS</u>		
Measuring point\elevation:			
Elevation (top of casing):	244.89		
Well lock\security type:	<u>PADLOCK</u>		
Well Depth (as installed):	150	ftbgs	
Well Depth (as measured):	<u>~ 141.75</u>	ftbtor	(SOFT BOTTOM)
Riser Diameter:	<u>6</u>	inches	
Surface Casing diameter:	<u>6</u>	inches	
Screened interval:	NA	ft	
Open hole interval:	38-142	ft	
Depth to water:		ftbtor	
	<u>POST SURV - 15.46</u>		

Appendix A.1
Monitoring Well MW-15B
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes ☒ No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes ☒ No

Well Condition

Is the concrete pad in good condition?	Yes	No	☒ NA
Is the well surface casing in good condition?	☒ Yes	No	NA
Is the surface casing vertical?	☒ Yes	No	NA
Is there an internal well seal?	Yes	☒ No	NA
Has there been physical damage to the well?	Yes	☒ No	NA
Does sounding depth match completed depth?	Yes	☒ No	NA
Is measuring point marked?	☒ Yes	No	NA
Is the well clearly labeled?	☒ Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	☒ NA

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	☒ No
Well needs to be repaired.	Yes	☒ No
Well needs to be replaced.	Yes	☒ No
Well needs to be properly abandoned.	Yes	☒ No
Action necessary.	Yes	☒ No

Inspected by: [Signature]

Date of Inspection: 11/20/15

Appendix A.1
Monitoring Well MW-16
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u>	Multilevel Well
Well riser and screen material:	CS		
Surface casing material:	CS		
Measuring point/elevation:			
Elevation (top of casing):	274.11		
Well lock/security type:	Padlock		
Well Depth (as installed):	93	ftbgs	
Well Depth (as measured):	92.67	ftbtor	
Riser Diameter:	2"	inches	
Surface Casing diameter:	6"	inches	
Screened interval:	73-93	ft	
Open hole interval:	NA	ft	
Depth to water:	30.32	ftbtor	
	POST SUR - 28.61		

Appendix A.1
Monitoring Well MW-16
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes ☒ No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes ☒ No

Well Condition

Is the concrete pad in good condition?	Yes	No	☒ NA
Is the well surface casing in good condition?	☒ Yes	No	NA
Is the surface casing vertical?	☒ Yes	No	NA
Is there an internal well seal?	☒ Yes	No	NA
Has there been physical damage to the well?	Yes	☒ No	NA
Does sounding depth match completed depth?	☒ Yes	No	NA
Is measuring point marked?	Yes	☒ No	NA
Is the well clearly labeled?	☒ Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	☒ NA

2" well cap

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	☒ No
Well needs to be re-surveyed.	Yes	☒ No
Well needs to be repaired.	Yes	☒ No
Well needs to be replaced.	Yes	☒ No
Well needs to be properly abandoned.	Yes	☒ No
Action necessary.	Yes	☒ No

Inspected by:

Date of Inspection:

J Chulay
11-16-15

Appendix A.1
Monitoring Well MW-17-1
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	Stick up	<u>Multilevel Well</u>
Well riser and screen material:	PVC / Flute		
Surface casing material:			
Measuring point/elevation:			
Elevation (top of casing):	241.92		
Well lock/security type:			
Well Depth (as installed):	57	ftbgs	Air line $< 6''$ POST - 4.21
Well Depth (as measured):		ftbtor	
Riser Diameter:		inches	
Surface Casing diameter:		inches	
Screened interval:	NA	ft	
Open hole interval:	37-57	ft	
Depth to water:	7.71	ftbtor	
	POST - 7.13		

Appendix A.1
Monitoring Well MW-17-1
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	<u>NA</u>
Is the well surface casing in good condition?	<u>Yes</u>	No	NA
Is the surface casing vertical?	<u>Yes</u>	No	NA
Is there an internal well seal?	<u>Yes</u>	No	NA
Has there been physical damage to the well?	Yes	<u>No</u>	NA
Does sounding depth match completed depth?	Yes	No	<u>NA</u>
Is measuring point marked?	Yes	No	<u>NA</u>
Is the well clearly labeled?	<u>Yes</u>	No	NA
Flush mount - Is it secure from runoff?	Yes	No	<u>NA</u>

Flute Well

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	<u>No</u>
Well needs to be re-surveyed.	Yes	<u>No</u>
Well needs to be repaired.	Yes	<u>No</u>
Well needs to be replaced.	Yes	<u>No</u>
Well needs to be properly abandoned.	Yes	<u>No</u>
Action necessary.	Yes	<u>No</u>

Inspected by:

Date of Inspection:

Appendix A.1
Monitoring Well MW-17-2
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	Stick up	Multilevel Well
Well riser and screen material:			
Surface casing material:			
Measuring point\elevation:			
Elevation (top of casing):	241.92		
Well lock\security type:			
Well Depth (as installed):	110	ftbgs	
Well Depth (as measured):		ftbtor	
Riser Diameter:	8	inches	
Surface Casing diameter:		inches	
Screened interval:	NA	ft	
Open hole interval:	95-110	ft	
Depth to water:	12.99	ftbtor	
	1057 - 12.32		

Appendix A.1
Monitoring Well MW-17-2
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes

No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes

No

Well Condition

Is the concrete pad in good condition?	Yes	No	<u>NA</u>
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

Flute well

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by:

Date of Inspection:

Appendix A.1
Monitoring Well MW-17-3
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	Stick up	Multilevel Well
Well riser and screen material:	_____		
Surface casing material:	_____		
Measuring point\elevation:	_____		
Elevation (top of casing):	241.92	_____	
Well lock\security type:	_____		
Well Depth (as installed):	129	ftbgs	_____
Well Depth (as measured):	_____	ftbtor	_____
Riser Diameter:	_____	inches	_____
Surface Casing diameter:	_____	inches	_____
Screened interval:	NA	ft	_____
Open hole interval:	119-129	ft	_____
Depth to water:	12.95	ftbtor	_____
	POST - 12.40		

Appendix A.1
Monitoring Well MW-17-3
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: _____ ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	NA
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

Flute well

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by:

Date of Inspection:

Appendix A.1
Monitoring Well MW-18-1
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name:	Mohonk Road Industrial (MRIP) Superfund Site
Site Address:	186 Mohonk Road High Falls, New York 12400
Site County:	Ulster County
Site State:	New York
EPA Site ID Number:	NYD986950012
Site Owner:	
EPA Project Manager:	Damian Duda

Well Locational Information

State Well ID:	
Well Tag ID:	
Well Installation date:	
Latitude (by GPS):	
Longitude (by GPS):	
Ground surface elevation (by GPS):	
GPS Instrument used:	
Cross streets (if applicable):	

Well Construction Details

Type of well	Flush Mount	Stick up	Multilevel Well
Well riser and screen material:			
Surface casing material:			
Measuring point\elevation:			
Elevation (top of casing):	204.45		
Well lock\security type:			
Well Depth (as installed):	101	ftbgs	
Well Depth (as measured):		ftbtor	
Riser Diameter:		inches	
Surface Casing diameter:		inches	
Screened interval:	NA	ft	
Open hole interval:	91-101	ft	
Depth to water:		ftbtor	

PWT - SUN - WELL CASING ELEVATION AND DEPTH

Appendix A.1
Monitoring Well MW-18-1
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: _____ ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	NA
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

Flute
Well

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by:

Date of Inspection:

Appendix A.1
Monitoring Well MW-18-2
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	Stick up	Multilevel Well
Well riser and screen material:			
Surface casing material:			
Measuring point\elevation:			
Elevation (top of casing):	204.45		
Well lock\security type:			
Well Depth (as installed):	128	ftbgs	
Well Depth (as measured):		ftbtor	
Riser Diameter:		inches	
Surface Casing diameter:		inches	
Screened interval:	NA	ft	
Open hole interval:	118-128	ft	
Depth to water:		ftbtor	

PBSI-Syn - ACTL CORRECTION FILLER 1. CLIPBOARD

Appendix A.1
Monitoring Well MW-18-2
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: _____ ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	NA
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

FWTe
Well

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by:

Date of Inspection:

Appendix A.1
Monitoring Well MW-18-3
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	Stick up	<u>Multilevel Well</u>
Well riser and screen material:			
Surface casing material:			
Measuring point/elevation:			
Elevation (top of casing):	204.45		
Well lock/security type:			
Well Depth (as installed):	145	ftbgs	
Well Depth (as measured):		ftbtor	
Riser Diameter:		inches	
Surface Casing diameter:		inches	
Screened interval:	NA	ft	
Open hole interval:	135-145	ft	
Depth to water:		ftbtor	

POST-SYN - WELL CASING FLOODED OVERFLOW

Appendix A.1
Monitoring Well MW-18-3
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: _____ ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	NA
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

Flute Well

Other Comments: *WELL COULD NOT BE ASSESSED DUE TO
 INNER CASING BEING FLOODED*

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by: _____

Date of Inspection: _____

Appendix A.1
Monitoring Well MW-19-1
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	Stick up	Multilevel Well
Well riser and screen material:			
Surface casing material:			
Measuring point/elevation:			
Elevation (top of casing):	129.88		
Well lock/security type:			
Well Depth (as installed):	49	ftbgs	
Well Depth (as measured):		ftbtor	
Riser Diameter:		inches	
Surface Casing diameter:		inches	
Screened interval:	NA	ft	
Open hole interval:	34-49	ft	
Depth to water:		ftbtor	POST-SYNOPTIC - ARTESIAN

Appendix A.1
Monitoring Well MW-19-1
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: _____ ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	NA
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

FLUTE well

Other Comments: *ARTESIAN WELL - PRESSURE FROM WELL HAS PUSHED SLEEVE UP AND OUT. WELL NO LONGER VERTICAL*

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by: _____

Date of Inspection: _____

Appendix A.1
Monitoring Well MW-19-2
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID: _____
 Well Tag ID: _____
 Well Installation date: _____
 Latitude (by GPS): _____
 Longitude (by GPS): _____
 Ground surface elevation (by GPS): _____
 GPS Instrument used: _____
 Cross streets (if applicable): _____

Well Construction Details

Type of well	Flush Mount	Stick up	<u>Multilevel Well</u>
Well riser and screen material:	_____		
Surface casing material:	_____		
Measuring point/elevation:	_____		
Elevation (top of casing):	129.88	_____	
Well lock/security type:	_____		
Well Depth (as installed):	95	ftbgs	_____
Well Depth (as measured):	_____	ftbtor	_____
Riser Diameter:	_____	inches	_____
Surface Casing diameter:	_____	inches	_____
Screened interval:	NA	ft	_____
Open hole interval:	80-95	ft	_____
Depth to water:	_____	ftbtor	_____

POST SYNOPSIS - ADDITION

Appendix A.1
Monitoring Well MW-19-2
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: _____ ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	NA
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

Flute Well

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by:

Date of Inspection:

Appendix A.1
Monitoring Well MW-19-3
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	Stick up	Multilevel Well
Well riser and screen material:			
Surface casing material:			
Measuring point/elevation:			
Elevation (top of casing):	129.88		
Well lock/security type:			
Well Depth (as installed):	195	ftbgs	
Well Depth (as measured):		ftbtor	
Riser Diameter:		inches	
Surface Casing diameter:		inches	
Screened interval:	NA	ft	
Open hole interval:	180-195	ft	
Depth to water:		ftbtor	

POST SYNOPSIS - APTCSIAN

Appendix A.1
Monitoring Well MW-19-3
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: _____ ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	NA
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

Flute Well

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by:

Date of Inspection:

Appendix A.1
Monitoring Well MW-20-1

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name:	Mohonk Road Industrial (MRIP) Superfund Site
Site Address:	186 Mohonk Road High Falls, New York 12400
Site County:	Ulster County
Site State:	New York
EPA Site ID Number:	NYD986950012
Site Owner:	
EPA Project Manager:	Damian Duda

Well Locational Information

State Well ID:	
Well Tag ID:	
Well Installation date:	
Latitude (by GPS):	
Longitude (by GPS):	
Ground surface elevation (by GPS):	
GPS Instrument used:	
Cross streets (if applicable):	

Well Construction Details

Type of well	Flush Mount	Stick up	<u>Multilevel Well</u>
Well riser and screen material:			
Surface casing material:			
Measuring point\elevation:			
Elevation (top of casing):	202.84		
Well lock\security type:			
Well Depth (as installed):	77	ftbgs	
Well Depth (as measured):		ftbtor	
Riser Diameter:		inches	
Surface Casing diameter:		inches	
Screened interval:	NA	ft	
Open hole interval:	57-77	ft	
Depth to water:	58.26	ftbtor	
	POST SYNOPSIS	58.00	

Air port =
Dtw 41.91
POST - 40.40

Appendix A.1
Monitoring Well MW-20-1
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: _____ ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	NA
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

FLUTE Well

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by:

Date of Inspection:

J. H. H. H.
11-16-15

Appendix A.1
Monitoring Well MW-20-2

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name:	Mohonk Road Industrial (MRIP) Superfund Site
Site Address:	186 Mohonk Road High Falls, New York 12400
Site County:	Ulster County
Site State:	New York
EPA Site ID Number:	NYD986950012
Site Owner:	
EPA Project Manager:	Damian Duda

Well Locational Information

State Well ID: _____

Well Tag ID: _____

Well Installation date: _____

Latitude (by GPS): _____

Longitude (by GPS): _____

Ground surface elevation (by GPS): _____

GPS Instrument used: _____

Cross streets (if applicable): _____

Well Construction Details

Type of well	Flush Mount	~~Stick up~~ ^{sc}	Multilevel Well
Well riser and screen material:	_____		
Surface casing material:	_____		
Measuring point\elevation:	_____		
Elevation (top of casing):	202.84	_____	
Well lock\security type:	_____		
Well Depth (as installed):	111.5	ftbgs	_____
Well Depth (as measured):	_____	ftbtor	_____
Riser Diameter:	_____	inches	_____
Surface Casing diameter:	_____	inches	_____
Screened interval:	NA	ft	_____
Open hole interval:	86.5-111.5	ft	_____
Depth to water:	55.65	ftbtor	_____
	1051-512	55.91	_____

Appendix A.1
Monitoring Well MW-20-2
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: _____ ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	NA
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

FLUTE well

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by:

Date of Inspection:

Shuhay
11-16-15

Appendix A.1
Monitoring Well MW-20-3
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID: _____
 Well Tag ID: _____
 Well Installation date: _____
 Latitude (by GPS): _____
 Longitude (by GPS): _____
 Ground surface elevation (by GPS): _____
 GPS Instrument used: _____
 Cross streets (if applicable): _____

Well Construction Details

Type of well	Flush Mount	Stick up	Multilevel Well
Well riser and screen material:	_____		
Surface casing material:	_____		
Measuring point\elevation:	_____		
Elevation (top of casing):	202.84		
Well lock\security type:	_____		
Well Depth (as installed):	149	ftbgs	
Well Depth (as measured):		ftbtor	
Riser Diameter:		inches	
Surface Casing diameter:		inches	
Screened interval:	NA	ft	
Open hole interval:	139-149	ft	
Depth to water:	74.62	ftbtor	
	POST SUR	74.72	

Appendix A.1
Monitoring Well MW-20-3
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: 0.0 ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	NA
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

Flute Well

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by: J. H. H. H.

Date of Inspection: 11-16-15

Appendix A.1
Monitoring Well MW-21-1
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID: _____
 Well Tag ID: _____
 Well Installation date: _____
 Latitude (by GPS): _____
 Longitude (by GPS): _____
 Ground surface elevation (by GPS): _____
 GPS Instrument used: _____
 Cross streets (if applicable): _____

Well Construction Details

Type of well	Flush Mount	<u>Stick up</u>	<u>Multilevel Well</u>
Well riser and screen material:	_____		
Surface casing material:	_____		
Measuring point\elevation:	_____		
Elevation (top of casing):	233.59	_____	
Well lock\security type:	<u>NO LOCK</u>		
Well Depth (as installed):	48	ftbgs	_____
Well Depth (as measured):	_____	ftbtor	_____
Riser Diameter:	_____	inches	_____
Surface Casing diameter:	_____	inches	_____
Screened interval:	NA	ft	_____
Open hole interval:	33-48	ft	_____
Depth to water:	<u>ARTESIAN</u>	ftbtor	_____

Appendix A.1
Monitoring Well MW-21-1
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: NA ppm

Do site conditions necessitate other headspace measurements? Yes ☐ No ☒

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes ☐ No ☒

Well Condition

Is the concrete pad in good condition?	Yes	No	NA
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

Flute well

Other Comments: WELL IS HIGHLY CORRODED

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by: _____

Date of Inspection: _____

Appendix A.1

Monitoring Well MW-21-2

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	Stick up	Multilevel Well
Well riser and screen material:			
Surface casing material:			
Measuring point/elevation:			
Elevation (top of casing):	233.59		
Well lock/security type:			
Well Depth (as installed):	69.5	ftbgs	
Well Depth (as measured):		ftbtor	
Riser Diameter:		inches	
Surface Casing diameter:		inches	
Screened interval:	NA	ft	
Open hole interval:	54.5-69.5	ft	
Depth to water:	ARTESIAN	ftbtor	

Appendix A.1
Monitoring Well MW-21-2
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: _____ ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	NA
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

*FwTz
Well*

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by:

Date of Inspection:

Appendix A.1
Monitoring Well MW-21-3

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name:	Mohonk Road Industrial (MRIP) Superfund Site
Site Address:	186 Mohonk Road High Falls, New York 12400
Site County:	Ulster County
Site State:	New York
EPA Site ID Number:	NYD986950012
Site Owner:	
EPA Project Manager:	Damian Duda

Well Locational Information

State Well ID:	
Well Tag ID:	
Well Installation date:	
Latitude (by GPS):	
Longitude (by GPS):	
Ground surface elevation (by GPS):	
GPS Instrument used:	
Cross streets (if applicable):	

Well Construction Details

Type of well	Flush Mount	Stick up	Multilevel Well
Well riser and screen material:			
Surface casing material:			
Measuring point\elevation:			
Elevation (top of casing):	233.59		
Well lock\security type:			
Well Depth (as installed):	78	ftbgs	
Well Depth (as measured):		ftbtor	
Riser Diameter:		inches	
Surface Casing diameter:		inches	
Screened interval:	NA	ft	
Open hole interval:	63-78	ft	
Depth to water:	ARTESIAN	ftbtor	

Appendix A.1
Monitoring Well MW-21-3
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: _____ ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition? Yes No NA

Is the well surface casing in good condition? Yes No NA

Is the surface casing vertical? Yes No NA

Is there an internal well seal? Yes No NA

Has there been physical damage to the well? Yes No NA

Does sounding depth match completed depth? Yes No NA

Is measuring point marked? Yes No NA

Is the well clearly labeled? Yes No NA

Flush mount - Is it secure from runoff? Yes No NA

Flute well

Other Comments:

Recommendations

Well needs to be redeveloped Yes No

Well needs to be re-surveyed. Yes No

Well needs to be repaired. Yes No

Well needs to be replaced. Yes No

Well needs to be properly abandoned. Yes No

Action necessary. Yes No

Inspected by:

Date of Inspection:

Appendix A.1
Monitoring Well MW-21-4
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID:
 Well Tag ID:
 Well Installation date:
 Latitude (by GPS):
 Longitude (by GPS):
 Ground surface elevation (by GPS):
 GPS Instrument used:
 Cross streets (if applicable):

Well Construction Details

Type of well	Flush Mount	Stick up	Multilevel Well
Well riser and screen material:			
Surface casing material:			
Measuring point/elevation:			
Elevation (top of casing):	233.59		
Well lock/security type:			
Well Depth (as installed):	124	ftbgs	
Well Depth (as measured):		ftbtor	
Riser Diameter:		inches	
Surface Casing diameter:		inches	
Screened interval:	NA	ft	
Open hole interval:	109-124	ft	
Depth to water:	ARTESIAN	ftbtor	

Appendix A.1
Monitoring Well MW-21-4
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: _____ ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	NA
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

FLUTE
Well

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by:

Date of Inspection:

Appendix A.1		
Monitoring Well MW-21-5		
EPA Region 2 Superfund Well Assessment Checklist		
Facility Information		
Site Name:	Mohonk Road Industrial (MRIP) Superfund Site	
Site Address:	186 Mohonk Road High Falls, New York 12400	
Site County:	Ulster County	
Site State:	New York	
EPA Site ID Number:	NYD986950012	
Site Owner:		
EPA Project Manager:	Damian Duda	
Well Locational Information		
State Well ID:		
Well Tag ID:		
Well Installation date:		
Latitude (by GPS):		
Longitude (by GPS):		
Ground surface elevation (by GPS):		
GPS Instrument used:		
Cross streets (if applicable):		
Well Construction Details		
Type of well	Flush Mount	Stick up
	Multilevel Well	
Well riser and screen material:		
Surface casing material:		
Measuring point\elevation:		
Elevation (top of casing):	233.59	
Well lock\security type:		
Well Depth (as installed):	145	ftbgs
Well Depth (as measured):		ftbtor
Riser Diameter:		inches
Surface Casing diameter:		inches
Screened interval:	NA	ft
Open hole interval:	130-145	ft
Depth to water:	AR 77-510M	ftbtor

Appendix A.1
Monitoring Well MW-21-5
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: _____ ppm

Do site conditions necessitate other headspace measurements? Yes No

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No	NA
Is the well surface casing in good condition?	Yes	No	NA
Is the surface casing vertical?	Yes	No	NA
Is there an internal well seal?	Yes	No	NA
Has there been physical damage to the well?	Yes	No	NA
Does sounding depth match completed depth?	Yes	No	NA
Is measuring point marked?	Yes	No	NA
Is the well clearly labeled?	Yes	No	NA
Flush mount - Is it secure from runoff?	Yes	No	NA

Flush Well

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
Action necessary.	Yes	No

Inspected by:

Date of Inspection:

Appendix A.1
Monitoring Well MW-21-6
EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Mohonk Road Industrial (MRIP) Superfund Site
 Site Address: 186 Mohonk Road High Falls, New York 12400
 Site County: Ulster County
 Site State: New York
 EPA Site ID Number: NYD986950012
 Site Owner:
 EPA Project Manager: Damian Duda

Well Locational Information

State Well ID: _____
 Well Tag ID: _____
 Well Installation date: _____
 Latitude (by GPS): _____
 Longitude (by GPS): _____
 Ground surface elevation (by GPS): _____
 GPS Instrument used: _____
 Cross streets (if applicable): _____

Well Construction Details

Type of well	Flush Mount	Stick up	Multilevel Well
Well riser and screen material:	_____		
Surface casing material:	_____		
Measuring point/elevation:	_____		
Elevation (top of casing):	233.59	_____	
Well lock/security type:	_____		
Well Depth (as installed):	163	ftbgs	_____
Well Depth (as measured):	_____	ftbtor	_____
Riser Diameter:	_____	inches	_____
Surface Casing diameter:	_____	inches	_____
Screened interval:	NA	ft	_____
Open hole interval:	148-163	ft	_____
Depth to water:	ARTESIAN	ftbtor	_____

Appendix A.1
Monitoring Well MW-21-6
EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing: _____ ppm

Do site conditions necessitate other headspace measurements? Yes ☐ No ☐

If yes, list other measurements taken: _____

Do readings indicate unsafe conditions exist? Yes ☐ No ☐

Well Condition

Is the concrete pad in good condition?	Yes ☐	No ☐	NA ☐
Is the well surface casing in good condition?	Yes ☐	No ☐	NA ☐
Is the surface casing vertical?	Yes ☐	No ☐	NA ☐
Is there an internal well seal?	Yes ☐	No ☐	NA ☐
Has there been physical damage to the well?	Yes ☐	No ☐	NA ☐
Does sounding depth match completed depth?	Yes ☐	No ☐	NA ☐
Is measuring point marked?	Yes ☐	No ☐	NA ☐
Is the well clearly labeled?	Yes ☐	No ☐	NA ☐
Flush mount - Is it secure from runoff?	Yes ☐	No ☐	NA ☐

Flute well

Other Comments:

Recommendations

Well needs to be redeveloped	Yes ☐	No ☐
Well needs to be re-surveyed.	Yes ☐	No ☐
Well needs to be repaired.	Yes ☐	No ☐
Well needs to be replaced.	Yes ☐	No ☐
Well needs to be properly abandoned.	Yes ☐	No ☐
Action necessary.	Yes ☐	No ☐

Inspected by: _____

Date of Inspection: _____

Monitoring Well Purge Logs

Page of

KL

[illegible]



Page _____ of _____

Mohonk Road

ERT-4

Well diameter (in):

Pump depth (ft):

Pump type: 650 SWB

T = depth (ft) - Static Water Level (ft)

$$\mathbf{I} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$$
$$\mathbf{I} =$$

Pump on: 1305

PID: 0.0

[illegible]

Total Volume Removed: ~4 gal



Total Volume Removed:

Low-Flow Data Sheet

Project Name:

MRI P

Project No.:

Well 1.D.:

MW-4

Date: _____

6

Sample I.D.:

MW-4

Well Depth (from T.I.C.) = ~ 24.6 ft.

Well Diameter (in) =

$$= 0$$

Sample Time:

1610

Static Water Level (from T.I.C) = 4,82 ft.

Pump Depth (ft) =

TetraTech San

5

Pump Start Time:

1407

Pump Type:

Submersible Monsoon

			pH (SU)	Spec. Conduct (mS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Flow Rate (ml/min)	Static Water Level	Color	Total	Comments
Time:	Temp. (°F)											
1420	13.54		6.74	1.449	31.4	4.56	194.4	<100	8.50		1 gal	
1436	13.37		6.75	1.452	24.7	3.98	173.9	~100	9.80		2	
1453	13.23		6.75	1.445	12.0	3.37	170.9	~100	10.87		2.5	
1514	12.99		6.75	1.439	5.59	3.02	166.8	~100	10.97		3.0	
1536	13.09		6.74	1.428	3.16	2.44	160.6	~100	11.93		3.5	
1550	13.24		6.75	1.428	2.62	2.32	158.3	~100	12.00		4.0	
1558	13.42		6.74	1.420	2.58	2.06	159.1	~100	12.00		4.5	
	±10%	±0.1	±3%	±10%	±10%	±10mV	Total Volume Removed:					

Total Volume Removed:



Page ____ of ____

194-5448.03.01

inches

7A-5B

ft.

Samplers: K. Lugo

1

Total Volume Removed: ~ 4 gal

Total Volume Removed: ~ 400 l

MRP

Project No.:

MW-52

Date: 11-16-15

Well Diameter (in) =

Pump Depth (ft) =

Pump Type:

Sample I.D.: MW-5R

Sample Time: 1500

TetraTech Samplers:

5

[illegible]

Total Volume Removed:

TETRA TECH		Low-Flow Data Sheet					Page <u>1</u> of <u>1</u>			
Project Name: <u>MRIP</u>		Project No.: _____		Sample I.D.: <u>MW-6B</u>						
Well I.D.: <u>MW-6B</u>		Date: <u>11-17-15</u>		Sample Time: _____						
Well Depth (from T.I.C.) = _____ ft.		Well Diameter (in) = <u>3"</u>		TetraTech Samplers: <u>T. Chu hay</u>						
Static Water Level (from T.I.C.) = <u>79.34</u> ft.		Pump Depth (ft) = <u>~90'</u>								
Pump Start Time: <u>1204</u>		Pump Type: <u>SS Mensor sub</u>								
Time	Temp. (°F)	pH (SU)	Spec. Conduct (mS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Flow Rate (ml/min)	Static Water Level	Color	Comments
										<i>Equipment malfunction need to use deeper submersible pump</i>
		±10%	±0.1	±3%	±10%	±10mV			Total Volume Removed: _____	



Page _____ of _____

Mohonk Road

Mr-6B

ft.

ft.

Height of Water in Well (T):

T = depth (ft) - Static Water Level (ft)

11

ft.
T=

Total Volume Removed: ~6 ml

Total Volume Removed: ~600

Page 1 of 1

Project No.:

MW-7R

Date:

fit

Well Diameter (in) =

fit

Pump Type:

[illegible]

Total Volume Removed:



Page _____ of _____

Mohonk Road

44-813

Well diameter (in): 5 inches

Pump depth (ft): $\sim 90'$ ft.

Pump type: *Geo Suez*

Pump on: 1045 PID: 0.0

4

 $(+/-0.3 \text{ ft})$

Total Volume Removed: 5+ ml.



Page _____ of _____

Project No.: 194-5448.03.01

Date: 11/17/15

Well diameter (in): 6 inches

Sample Time: 1405

Pump type: GEO SUB

Samplers: *H. Lugo*

Pump on: 1300 PID: 0.0

	(+/- 3%)	(+/- 0.1 unit)	(+/- 3%)	(+/- 10%)	(+/- 10 mV)	(+/- 0.3 ft)
1.0	0.97	0.98	0.99	0.95	0.96	0.97
1.5	1.47	1.48	1.49	1.45	1.46	1.47
2.0	1.97	1.98	1.99	1.95	1.96	1.97
2.5	2.47	2.48	2.49	2.45	2.46	2.47
3.0	2.97	2.98	2.99	2.95	2.96	2.97
3.5	3.47	3.48	3.49	3.45	3.46	3.47
4.0	3.97	3.98	3.99	3.95	3.96	3.97
4.5	4.47	4.48	4.49	4.45	4.46	4.47
5.0	4.97	4.98	4.99	4.95	4.96	4.97
5.5	5.47	5.48	5.49	5.45	5.46	5.47
6.0	5.97	5.98	5.99	5.95	5.96	5.97
6.5	6.47	6.48	6.49	6.45	6.46	6.47
7.0	6.97	6.98	6.99	6.95	6.96	6.97
7.5	7.47	7.48	7.49	7.45	7.46	7.47
8.0	7.97	7.98	7.99	7.95	7.96	7.97
8.5	8.47	8.48	8.49	8.45	8.46	8.47
9.0	8.97	8.98	8.99	8.95	8.96	8.97
9.5	9.47	9.48	9.49	9.45	9.46	9.47
10.0	9.97	9.98	9.99	9.95	9.96	9.97

Total Volume Removed: ~5 gal

Total Volume Removed: ~534.1

Page 1 of 1

MRIP
MW11B

Date: 11-19-15

mw11B

Sample I.D.: MW11B

Well Diameter (in) =

Well Diameter (in) =

Pump Depth (ft) =

Pump Depth (ft) = ~180

Pump Type:

Pump Type: Centrifugal

[illegible]

Total Volume Removed:



Page / of

Project No.: 194-5448.03.01

Date:

Well diameter (in):

inches

Sample ID:

Pump depth (ft):

fi

Height of Water in Well (T):

T = depth (ft) - Static Water Level (ft)

$$\mathbb{T} = \frac{1}{\sqrt{1 - \beta^2}}$$
$$\mathbb{I} =$$

Pump on: 18:20

PID:

Pump type: 220

ENS

Samplers:

[illegible]

Total Volume Removed: $\sim 5 \text{ gal}$



Page _____ of _____

Project No.: 194-5448.03.01

Date: 11/17/15

Well diameter (in):

inches

Sample ID:

Pump depth (ft):

ft.

T = depth (ft) - Static Water Level (ft)

Pump on: 15.30

PID: 00000000

11

[illegible]

Total Volume Removed: ~ 10 Gallons

Page 1 of 1

(± 0.3 ft)

Total Volume Removed: ~4.5 gal

Project Name: Mohonk Rd Industrial Plant

Mohonk Rd Industrial Plant

Well I.D.: MW-17-1

Date: 11/17/2015

Date: 11/17/2015

Well Depth (from T.O.C.) = 57 ~~62~~ ft.

Purge Pressure (psi): 62

Static Water Level (WL) = 11.74 ft.

Sampling Pressure (psi): 46

Pump Type: Flute

Purge Volumes/stroke (L):

TetraTech Samplers: Alex Valli

[illegible]



Flute Sampling Data Sheet

Mohonk Rd Industrial Plant

Project No.: 194-5448.03.01

MW-17-2

Date: 11/17/2015

119

Purge Pressure (psi): 62

13.24

Sampling Pressure (psi): 46

Flute

Purge Volumes/stroke (L): 4.3

TetraTech Samplers: Alex Valli

[illegible]

Total Volume Removed:



Page 1 of 1

Sample Interval:

Sample I.D.: June 17-2

Sample Time: 1535

$$e)$$

TetraTech Samplers: Alex Valli

[illegible]

Total Volume Removed:

Project Name: Mohonk Rd Industrial Plant

Project No.: 94-5448-03-01

Sample Interval:

Well I.D.: MW-18 - 1

Date: 11/17/15

Sample I.D.: Q1221 MW-18-1

Well Depth (from T.O.C.) = 190 ft.

Purge Pressure (psi): 71

Sample Time: 1240

Static Water Level (WL) = 187 ft.

Sampling Pressure (psi): 54

Pump Type: Flute

Purge Volumes/stroke (L): 3.6

TetraTech Samplers: Alex Valli

[illegible]

Total Volume Removed:



Sample Interval:

Sample I.D.: MW-12-2

Sample Time: 1745

TetraTech Samplers: Alex Valli

[illegible]

Project Name:

Mohonk Rd Industrial Plant

Well I.D.: MW-18-3

MW-18-3

Well Depth (from T.O.C.) = 150 ft.

150 ft.

Static Water Level (WL) =

Do. Tes. 11/11/11.

Pump Type:

Flute

Purge Volumes/stroke (L):

5

TetraTech Samplers: Alex Valli

[illegible]

Total Volume Removed:

Project Name: Mohonk Rd Industrial Plant

Project No.: 194-5448.03.01

Sample Interval: 34-49

Well I.D.: MW-19-1

Date: 11/16/2015

Sample I.D.: MW-19-1

Well Depth (from T.O.C.) = 14. ft.

Purge Pressure (psi): 90

Sample Time: 1314

Static Water Level (WL) = _____ ft.

Sampling Pressure (psi): 71

Pump Type: Flute

Purge Volumes/stroke (L): 2 Gallons

TetraTech Samplers: Alex Valli

[illegible]

Total Volume Removed:



Project Name: Mohonk Rd Industrial Plant

Project No.: 94-5448.03.01

Well I.D.: MW-19- 2

Date: 1/16/2015

Well Depth (from T.O.C.) = 0.5 ft.

Purge Pressure (psi): 90

Static Water Level (WL) = 4023.12 ft.

Sampling Pressure (psi): 71

Pump Type: Flute

Purge Volumes/stroke (L): 2.0

TetraTech Samplers: Alex Valli

[illegible]

Total Volume Removed:



Sample Interval:

Sample I.D.: Mw-19-3

Sample Time:

Sampling Pressure (psi): 71

TetraTech Samplers: Alex Valli

[illegible]

Total Volume Removed:

Project Name: Mohonk Rd Industrial Plant

Project No.: 194-5448.03.01

Sample Interval:

Well I.D.: MW-20-1

Date: 11/16/2015

Sample I.D.: Mw-20-1

Well Depth (from T.O.C.) = ~~168~~ 77 ft.

Purge Pressure (psi): 71

Sample Time: 1620

Static Water Level (WL) = 55.4 ft.

Sampling Pressure (psi): 54

Pump Type: Flute

Purge Volumes/stroke (L): 2.0

TetraTech Samplers: Alex Valli

[illegible]

Total Volume Removed:

Project No.: 194-5448-03-01

Sample Interval: 26.5 - 11.5

Date: 11/17/2016

Sample I.D. : AN-20-2

Purge Pressure (psig): 71

Sample Time: 16.25

Sampling Pressure (psi): 71

Purge Volumes/stroke (L): 3.2

TetraTech Samplers: Alex Valli

[illegible]



TetraTech Samplers: Alex Valli

[illegible]

Project Name: Mahonk Rd Industrial Plant

Project No.: 194-5448.03.01

Sample Interval:

Well I.D.: MW-21 - 1

Date: 11/18/15

Sample I.D.: MW-21-1

Well Depth (from T.O.C.) = 48 ft.

Purge Pressure (psi):

Sample Time:

Static Water Level (WL) =

Sampling Pressure (psi):

hs
54

Pump Type: Flute

Purge Volumes/stroke (L):

TetraTech Samplers: Alex Valli

[illegible]

Total Volume Removed: 71.5



Sample Interval: 54.5 - 69.5

Sample I.D.: HW-21-2

Sample Time: 1105

TetraTech Samplers: Alex Valli

[illegible]

Sample Interval: 68 - 78

Sample I.D.:

Sample Time:

TetraTech Samplers: Alex Valli

[illegible]

TetraTech Samplers: Alex Valli

Total Volume Removed:

Project Name: Mohonk Rd Industrial Plant

Project No.: 194-5148-03-01

Sample Interval:

Well I.D.: MW-21-5

Date: 11/21/15

Sample I.D. : _____

Well Depth (from T.O.C.) = 140 ft.

Purge Pressure (psi): 70

Sample Time:

Static Water Level (WL) = _____ ft.

Sampling Pressure (psi):

Pump Type: Flute

Purge Volumes/stroke (l):

TetraTech Sample

[illegible]

Calibration Logs

MOHONK ROAD EQUIPMENT/INSTRUMENT CALIBRATION AND MAINTENANCE FORM

PROJECT: Mohonk Road PROJECT No.: 194-5448.03.01 DATE: 11/17/16 SHEET of

INSTRUMENT (NAME / MODEL NO. / SERIAL NO.): HAN 2100A PMS 10 024025

MANUFACTURER: HAN DATE PURCHASED or LEASED:

CALIBRATION LOGSHEET

CALIBRATION DATE	INITIAL SETTINGS	STANDARD(S) USED	PROCEDURE	ADJUSTMENTS MADE	FINAL SETTINGS	SIGNATURE	COMMENTS
11/17/16	~~20 NTU~~ ~~100 NTU~~ ~~500 NTU~~	20 NTU 100 NTU 500 NTU	STANDARD	NONE	20.4 NTU 100 NTU 796 NTU	[Signature]	VERIFICATION STANDARD 10 NTU READ 10.0 NTU
11/18/16	~~20 NTU~~ ~~100 NTU~~ ~~800 NTU~~	20 NTU 100 NTU 800 NTU	STANDARD	NONE	20.6 NTU 103 NTU 787 NTU	[Signature]	VERIFICATION - 10 NTU = 9.75 PASSED
11/21/16	~~20 NTU~~ ~~100 NTU~~ ~~800 NTU~~	20 NTU 100 NTU 800 NTU	STANDARD	NONE	80 NTU - 21.2 100 NTU - 106 800 NTU - 799	[Signature]	VERIFICATION - 10 NTU 9.34 - PASSED
11/22/16	~~20 NTU~~ ~~100 NTU~~ ~~800 NTU~~	~~20 NTU~~ ~~100 NTU~~ ~~800 NTU~~	~~STANDARD~~	~~NONE~~	~~80 NTU - 21.2~~ ~~100 NTU - 106~~ ~~800 NTU - 799~~	~~[Signature]~~	~~VERIFICATION - 10 NTU~~ ~~9.34 - PASSED~~
							COULD NOT BE CALIBRATED NOT USED

MOHONK ROAD EQUIPMENT/INSTRUMENT CALIBRATION AND MAINTENANCE FORM

PROJECT: Mohonk Road PROJECT No.: 194-5448.03.01 DATE: SHEET of
 INSTRUMENT (NAME / MODEL NO. / SERIAL NO.): ~~YSLE556~~ Hach 2100 Q Pinc ID # 025437
 MANUFACTURER: Y8# Hach DATE PURCHASED or LEASED:

CALIBRATION LOGSHEET

CALIBRATION DATE	INITIAL SETTINGS	STANDARD(S) USED	PROCEDURE	ADJUSTMENTS MADE	FINAL SETTINGS	SIGNATURE	COMMENTS
11/17/2015		10-NTU 20-NTU 100-NTU 800-NTU	STANDARD (AVERAGING)	NONE	10 NTU - 9.88 20 NTU - 19.4 100 NTU - 100 800 NTU - 812	AF VQ	Pass- Cal.
11/18/2015		20-NTU 100-NTU 800-NTU	STANDARD	NONE	20 NTU - 19.5 100 NTU - 100 800 NTU - 789	AF VQ	VERIFICATION 10 NTU ~~9.88~~ → 9.93 PASSED
11/19/15		20-NTU 100-NTU 800-NTU	STANDARD	NONE	20 NTU - 20.6 100 NTU - 101 800 NTU - 799	[Signature]	VERIFICATION 10 NTU 9.42 PASSED
11/20/15		20-NTU 100-NTU 800-NTU	STANDARD	NONE	20 NTU = 21.5 100 NTU = 100 800 NTU = 802	[Signature]	VERIFICATION 10 NTU = 9.52 PASSED

MOHONK ROAD EQUIPMENT/INSTRUMENT CALIBRATION AND MAINTENANCE FORM

PROJECT: Mohonk Road PROJECT No.: 194-5448.03.01 DATE: 11/13/15 SHEET 1 of 1
 INSTRUMENT (NAME / MODEL NO. / SERIAL NO.): YSI-556 HACH 2100A PMS 10 021523
 MANUFACTURER: YSI 26 DATE PURCHASED or LEASED:

CALIBRATION LOGSHEET

CALIBRATION DATE	INITIAL SETTINGS	STANDARD(S) USED	PROCEDURE	ADJUSTMENTS MADE	FINAL SETTINGS	SIGNATURE	COMMENTS
5/17/15		20 NTU 100 NTU 800 NTU	STANDARD	NONE	14.7 NTU 98.9 NTU 780 NTU	[Signature]	VERIFICATION 20 NTU = 10.1 NTU PASS
11/18/15		20 NTU 100 NTU 800 NTU	STANDARD	NONE	20 NTU = 14.5 100 NTU = 101.5 800 NTU = 799.0	[Signature]	VERIFICATION 10 NTU = 9.89 PASS
11/19/15							NOT USED
11/20/15		20 NTU 100 NTU 800 NTU	STANDARD	NONE	20 NTU = 20.3 100 NTU = 98.7 800 NTU = 815	[Signature]	9.85 VERIFICATION PASS

MOHONK ROAD EQUIPMENT/INSTRUMENT CALIBRATION AND MAINTENANCE FORM

PROJECT: Mohonk Road PROJECT No.: 194-5448.03.01 DATE: 11/16/15 SHEET 1 of 1

INSTRUMENT (NAME / MODEL NO. / SERIAL NO.): YSI 556 PNC 10 # 16703

MANUFACTURER: YSI DATE PURCHASED or LEASED:

CALIBRATION LOGSHEET

CALIBRATION DATE	INITIAL SETTINGS	STANDARD(S) USED	PROCEDURE	ADJUSTMENTS MADE	FINAL SETTINGS	SIGNATURE	COMMENTS
11/16/15	~~1.413 mScm 240.0 mV ORP 7.0 pH 4.0 pH~~	1.413 mScm 240.0 mV ORP 7.0 pH 4.0 pH	STANDARD	NONE	1.414 mScm 242.0 ORP PH - 6.94 PH - 4.01		
11/17/15	~~1.413 mScm 240.0 mV ORP 7.0 pH 4.0 pH~~	1.413 mScm 240.0 mV ORP 7.0 pH 4.0 pH	STANDARD	NONE	1.415 mScm 245.5 ORP PH - 7.04 PH - 3.97		
11/18/15	~~1.413 mScm 240.0 mV ORP 7.0 pH 4.0 pH~~	1.413 mScm 240.0 mV ORP 7.0 pH 4.0 pH	STANDARD	NONE	1.415 mScm 247.4 ORP PH - 6.91 PH - 4.16		
11/19/15	~~1.413 mScm 240.0 mV ORP 7.0 pH 4.0 pH~~	1.413 mScm 240.0 mV ORP 7.0 pH 4.0 pH	STANDARD	NONE	1.415 mScm 240.1 ORP PH - 7.05 PH - 3.89		
11/20/15	~~1.413 mScm 240.0 mV ORP 7.0 pH 4.0 pH~~	1.413 mScm 240.0 mV ORP 7.0 pH 4.0 pH	STANDARD	NONE	1.415 mScm 253.2 ORP PH - 7.01 PH - 3.93		

MOHONK ROAD EQUIPMENT/INSTRUMENT CALIBRATION AND MAINTENANCE FORM

PROJECT: Mohonk Road PROJECT No.: 194-5448.03.01 DATE: 11/16/15 SHEET 1 of 1

INSTRUMENT (NAME / MODEL NO. / SERIAL NO.): YSI 556 S/N 14F100896

MANUFACTURER: YSI DATE PURCHASED or LEASED:

CALIBRATION LOGSHEET

CALIBRATION DATE	INITIAL SETTINGS	STANDARD(S) USED	PROCEDURE	ADJUSTMENTS MADE	FINAL SETTINGS	SIGNATURE	COMMENTS
11/16/15	~~1413 mV/cm 240 mV ORP 7.0 pH 410 pH~~	1413 mV/cm 240 mV ORP 7.0 pH 410 pH	STANDARD	NONE	1413 mV/cm 240 mV ORP PH - 7.01 PH - 3.92	[Signature]	
11/18/15	~~1413 mV/cm 240 mV ORP 7.0 pH 410 pH~~	1413 mV/cm 240 mV ORP 7.0 pH 410 pH	STANDARD	NONE	1413 mV/cm 240 mV ORP PH - 7.33 PH - 4.87	[Signature]	
11/18/15	~~1413 mV/cm 240 mV ORP 7.0 pH 410 pH~~	1413 mV/cm 240 mV ORP 7.0 pH 410 pH	STANDARD	NONE	1413 mV/cm 240 mV ORP PH - 7.29 PH - 4.03	[Signature]	
11/19/15	~~1413 mV/cm 240 mV ORP 7.0 pH 410 pH~~	1413 mV/cm 240 mV ORP 7.0 pH 410 pH	STANDARD	NONE	1413 mV/cm 240 mV ORP PH - 6.73 PH - 4.84 240 mV ORP	[Signature]	
11/20/15	~~1413 mV/cm 240 mV ORP 7.0 pH 410 pH~~	1413 mV/cm 240 mV ORP 7.0 pH 410 pH	STANDARD	NONE	1413 mV/cm 240 mV ORP PH - 6.84 PH - 4.10	[Signature]	

MOHONK ROAD EQUIPMENT/INSTRUMENT CALIBRATION AND MAINTENANCE FORM

PROJECT: Mohonk Road PROJECT No.: 194-5448.03.01 DATE: 11/16/15 SHEET 1 of 1
 INSTRUMENT (NAME / MODEL NO. / SERIAL NO.): YSI 556 S/N 115102401
 MANUFACTURER: YSI DATE PURCHASED or LEASED:

CALIBRATION LOGSHEET

CALIBRATION DATE	INITIAL SETTINGS	STANDARD(S) USED	PROCEDURE	ADJUSTMENTS MADE	FINAL SETTINGS	SIGNATURE	COMMENTS
11/16/15	~~MS/KM - 1.413 ORP - 240.0 PH - 7.0 PH - 4.0~~	MS/KM - 1.413 ORP - 240.0 PH - 7.0 PH - 4.0	STANDARD	NONE	MS/KM - 1.413 ORP - 240.0 PH - 7.0 PH - 4.0		
11/17/15	~~MS/KM - 1.413 ORP - 240.0 PH - 7.0 PH - 4.0~~	MS/KM - 1.413 ORP - 240.0 PH - 7.0 PH - 4.0	STANDARD	NONE	MS/KM - 1.413 ORP - 240.0 PH - 7.0 PH - 4.0		
11/18/15	~~MS/KM - 1.413 ORP - 240.0 PH - 7.0 PH - 4.0~~	MS/KM - 1.413 ORP - 240.0 PH - 7.0 PH - 4.0	STANDARD	NONE	MS/KM - 1.413 ORP - 240.0 PH - 7.0 PH - 4.0		
11/19/15	~~MS/KM - 1.413 ORP - 240.0 PH - 7.0 PH - 4.0~~	MS/KM - 1.413 ORP - 240.0 PH - 7.0 PH - 4.0					NOT V 500
11/20/15	~~MS/KM - 1.413 ORP - 240.0 PH - 7.0 PH - 4.0~~	MS/KM - 1.413 ORP - 240.0 PH - 7.0 PH - 4.0					NOT V 500

Daily Safety Logs

TETRA TECH, INC.
DAILY BRIEFING SIGN-IN SHEET

Date: 11-16-15 Project Name/Number/Location: Monhank
 Shift/Department: DAY Person Conducting Briefing: T. Chuhay

1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Site conditions, low haz, except for slips, trips, falls.
ticks.
Site orientation - cVOCs

2. OTHER ISSUES (EHS Plan changes, attendee comments, etc.):

No AECOM Rep on site today

3. ATTENDEES (Print Name):

1	Terence Chuhay	21
2	Alex Vail	22
3	Ken Lugo	23
4		24
5		25
6		26
7		27
8		28
9		29
10		30
11		31
12		32
13		33
14		34
15		35
16		36
17		37
18		38
19		39
20		40

TETRA TECH, INC.
DAILY BRIEFING SIGN-IN SHEET

Date:

11-17-15

Project Name/Number/Location:

MRIP / Mohonk Rd

Shift/Department:

NA

Person Conducting Briefing:

Terence Chubag

1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Temperature "Cold" layered clothing, stay hydrated
 Warm hands and feet regular intervals.

2. OTHER ISSUES (EHS Plan changes, attendee comments, etc.):

No changes - Get water levels after all wells located

3. ATTENDEES (Print Name):

1	Terence Chubag	21
2	At the	22
3	K. Lero	23
4		24
5		25
6		26
7		27
8		28
9		29
10		30
11		31
12		32
13		33
14		34
15		35
16		36
17		37
18		38
19		39
20		40

TETRA TECH, INC.

DAILY BRIEFING SIGN-IN SHEET

Date: 11/18/15 Project Name/Number/Location: MRIP / MOHONK RD
 Shift/Department: FIELD STAFF Person Conducting Briefing: A-JAWI

1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

WEATHER: OVERCAST 37°, COOL. EXPECTED: CLOUDY, BREEZY
HIGH 51°
PROPER LIFTING TECHNIQUES. WORKING IN BRIMS,
FALL GRASS (TICKS)

2. OTHER ISSUES (EHS Plan changes, attendee comments, etc.):

CHANGES TO EQUIPMENT - INCLUDING GAS
POWER GENERATOR. (STORAGE)

3. ATTENDEES (Print Name):

1.	<u>A. Lugo</u>	21
2.	<u>A. V. G.</u>	22
3.	<u>J. Chahay</u>	23
4.		24
5.		25
6.		26
7.		27
8.		28
9.		29
10.		30
11.		31
12.		32
13.		33
14.		34
15.		35
16.		36
17.		37
18.		38
19.		39
20.		40

TETRA TECH, INC.
DAILY BRIEFING SIGN-IN SHEET

Date: 11-19-15Project Name/Number/Location: MRIP / High Falls, NY

Shift/Department: _____

Person Conducting Briefing: T. Chubay

1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Routine day - However rain might effect work
Slips, trips, and falls.

2. OTHER ISSUES (EHS Plan changes, attendee comments, etc.):

Weather - do not work in lightning

3. ATTENDEES (Print Name):

1. <u>T. Chubay</u>	21
2. <u>A. Lopez</u>	22
3.	23
4.	24
5.	25
6.	26
7.	27
8.	28
9.	29
10.	30
11.	31
12.	32
13.	33
14.	34
15.	35
16.	36
17.	37
18.	38
19.	39
20.	40

TETRA TECH, INC.

DAILY BRIEFING SIGN-IN SHEET

Date: 11/20/15Project Name/Number/Location: Mohonk RoadShift/Department: FIELD STAFFPerson Conducting Briefing: K. LUGO**1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):**

Weather: pretty cloudy ~ 47°F, cool. Expected: clear, sunny
High ~ 54°F
Proper lifting techniques

2. OTHER ISSUES (EHS Plan changes, attendee comments, etc.):

Operating gas-powered generator

3. ATTENDEES (Print Name):

1.	<u>K. Lugo / K. Lugo</u>	21.
2.	<u>Terence Chubay / Chubay</u>	22.
3.		23.
4.		24.
5.		25.
6.		26.
7.		27.
8.		28.
9.		29.
10.		30.
11.		31.
12.		32.
13.		33.
14.		34.
15.		35.
16.		36.
17.		37.
18.		38.
19.		39.
20.		40.

Appendix C

Monitoring Well Analytical Data Summary Tables

Table C-1
Historical Summary of Groundwater Analytical Results (Contaminants of Concern)

Table C-1
Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
Mohonk Road Industrial Plant Superfund Site

Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
MW-1B	October 1999	10 U	10 U	10U	10 U	NA
	December 2000	<3 U	<3 U	<3 U	<3 U	NA
	June 2001	<0.1 U	<0.1 U	<0.1 U	<0.1 U	NA
	January 2002	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	August 2002	<1.0 J	<1.0 J	<1.0 J	<1.0 J	NA
	January 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.5 U	0.5 U	0.5 U	1.3 J
	April 2005	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2005	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2006	0.5 U	0.5 U	0.5 U	0.5 U	2 R
	October 2006	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2007	0.5 U	0.5 U	0.5 U	0.5 U	NA
	December 2007	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2008	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	July 2008	0.5 U	0.5 U	0.5 U	0.5 U	2.2 J
	October 2008	0.5 U	0.5 U	0.5 U	0.5 U	2.2 U
	January 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	May 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	July 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2010	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	June 2011	0.5 U	0.5 U	0.5 U	0.5 U	1.9 UL
	January 2013	0.5 U	0.5 U	0.5 U	0.5 U	NA
	November 2013	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2014	0.5 U	0.5 U	0.5 U	0.5 U	NA
	November 2015	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
MW-4	October 1999	6,800 J	62	380 J	1,600	NA
	December 2000	4,500	75 J	500	1,600	NA
	June 2001	3,580	49.5	516	1,470	NA
	January 2002	6,160	64	891	2,490	NA
	August 2002	3,300	49	650	1,800	NA
	January 2003	2,960	32	428	1,650	NA
	July 2003	2,220	34	306	1,420	NA
	July 2004	2,200	33 J	310	1,300	9.6
	April 2005	1,600	41	290	1,300	13
	October 2005	820	39 J	100	800	16 J
	April 2006	1,500 J	31 J	240	1,000 J	5.9
	October 2006	1,100	43	120	1,100	4
	April 2007	1,700	34	210	970	NA
	December 2007	1,100	47 J	160	990	3.3
	April 2008	770	32 J	110	660	9.6
	May 2009	770	43	73	710	4
	October 2010	360	9.2	33	140	NA
	June 2011	310	7.8	43	190	2.2 UL
	January 2013	400	26	42	190	NA
	November 2013	4,900	50	340	480	2.0 U
	October 2014	1,600	41	140	280	NA
	November 2015	980	12	65	200	3.9

Table C-1
Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
Mohonk Road Industrial Plant Superfund Site

Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
MW-5B	October 1999	2,900	50	250	130	NA
	December 2000	2,100	43	280	120	NA
	June 2001	2,370	47.0	327	91.0	NA
	January 2002	10,100	92.0	1360	436.0	NA
	January 2003	3,030	19	445	171	NA
	July 2003	1,460	27	171	62	NA
	April 2005	3,000	35	440	270	15
	October 2005	1,100	41 J	97	96	27
	April 2006	2,500	28 J	280	230 J	12J
	October 2006	880	8.7	110	87	3.1
	April 2007	2,600	27	420	120	NA
	December 2007	4,600	15	560	380	4
	April 2008	6,300	21	770	140	14
	July 2008	1,600	20	160 J	78	18
	October 2008	1,000	24	120	70	9.7
	May 2009	5,000	40	890	240	10
	October 2010	410	10	54	31	4.5
	June 2011	580	8.4	83	40	2.1 U
	January 2013	650	6.4	78	73	NA
	November 2013	1,600	35	120	93	5
	October 2014	3,000	48	390	180	NA
	November 2015	600	13	98	23	5.7
MW-5R	October 1999*	290 J	7 J	28	16	NA
	December 1999	1,500	22	270	62	NA
	December 2000	400	23	120	34	NA
	June 2001	466	17.4	75.0	24.5	NA
	January 2002	1,570	67	339.0	67	NA
	August 2002	440	22	110	27	NA
	January 2003	374	19	84	22	NA
	July 2003	116	5	30	8	NA
	July 2004	290	19	61	10	NA
	March 2005	280	14	67	20	7.1
	October 2006	230	15	61	9.2	5
	April 2007	130	33	47	7	NA
	December 2007	350	55	36	2.1	2.1 U
	April 2008	36	3.4	14	6	14
	October 2008	99	12	33	9.8	5.4
	January 2009	110	15	40	11	4
	May 2009	140	6.6	35	10	3
	July 2009	55	4.6	24	6.9	2.0 U
	October 2009	210	7.5	35	7.7	1.5 J
	June 2011	79	11	30	8.1	2.7
	January 2013	25	2.4	10	5.3	NA
	November 2013	30	2.7	9.6	6.5	2.0 U
	October 2014	19	7.8	11	2.6	NA
	November 2015	44	3.9	15	3.9	2.5

Table C-1
Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
Mohonk Road Industrial Plant Superfund Site

Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
MW-6B	October 1999	58	2J	7J	10 U	NA
	December 2000	28	<3 U	3	<3 U	NA
	June 2001	30.4	0.5	5.7	0.2 J	NA
	January 2002	78	1	13	0.7 J	NA
	August 2002	27	0.50 J	5.6	<1 J	NA
	January 2003	14	0.4 J	2	<0.3 U	NA
	July 2003	13	<0.3 U	2	<0.3 U	NA
	July 2004	18	0.42 J	3.7	0.5 U	1.6 J
	April 2005	9.2	0.59	1.7	0.5 U	2.3
	April 2006	14	0.5 U	2.6	0.5 U	20 U
	October 2006	11	0.28 J	1.5	0.5 U	20 R
	April 2007	17	0.5 U	3.8	0.5 U	NA
	December 2007	11	0.33 J	1.5	0.5 U	2.1 U
	January 2009	7.3	0.5 U	1.6	0.5 U	2.0 U
	May 2009	8.5	0.5 U	1.5	0.5 U	2.2 U
	July 2009	6.8	0.5 U	1.3	0.5 U	2.1 U
	October 2009	3.6	0.18	0.5 U	0.5 U	2.0 U
	January 2013	7.2	0.5 U	2	0.5 U	NA
	November 2013	8.3	0.5 U	3.0	0.5 U	2.0 U
	October 2014	8.3	0.48 J	3.8	0.5 U	NA
	November 2015	12	0.5 U	3.5	0.5 U	2.0 U
MW-7R	October 1999*	470	23	35	4 J	NA
	December 1999	1,000	27 J	71	8.9	NA
	December 2000	320	27	44	<3 U	NA
	June 2001	381	23.2	39.8	3.8	NA
	January 2002	550	39	34	4	NA
	August 2002	480	60	56	5.0 J	NA
	January 2003	242 (Dup = 244)	15 (Dup = 15)	23 (Dup = 24)	3 (Dup = 3)	NA
	July 2003	365	24	43	4	NA
	July 2004	220	21	25	3.1	NA
	March 2005	270	22	43	5.6	8
	November 2005	170	16	20	3.5 J	11
	May 2006	200	23	24	4.8	NA
	October 2006	250	46	33	1.6	3.9
	April 2007	250	53	43	1.9	NA
	December 2007	350	52	37	2	2
	April 2008	330	25	82	1.5	3.7
	July 2008	57	12	13 J	0.3 J	2.1 U
	October 2008	92	13	33	11	4.6
	January 2009	70	14	19	2.4	2.0 U
	May 2009	160	40	30	2	2.4
	July 2009	240	40	35	2.1	2.0 U
	October 2009	170	39	24	2.4	2.0 U
	October 2010	67	18	18	1.4	2.2 U
	June 2011	92	30	23	2.5	2 U
	January 2013	73	24	19	2.2	NA
	November 2013	33	11	8.8	0.54	2.0 U
	October 2014	18	7	8	1.8	NA
	November 2015	180	80	24	1.6	2 J

Table C-1
Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
Mohonk Road Industrial Plant Superfund Site

Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
MW-8B	October 1999	10 U	10 U	10 U	10 U	NA
	December 2000	<3 U	<3 U	<3 U	<3 U	NA
	June 2001	<0.1 U	<0.1 U	<0.1 U	<0.1 U	NA
	January 2002	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	January 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.5 U	0.5 U	0.5 U	0.89 J
	April 2005	0.5 U	0.24 J	0.11 J	0.5 U	1.6 J
	October 2005	0.5 U	0.5 U	0.5 U	0.5 U	0.99 J
	April 2006	0.5 U	0.5 U	0.5 U	0.5 U	20 R/2 R
	October 2006	0.5 U	0.22 J	0.5 U	0.5 U	2 U
	April 2007	0.5 U	0.5 U	0.5 U	0.5 U	NA
	December 2007	0.5 U	0.37 J	0.22 J	0.5 U	2 U
	April 2008	0.5 U	0.29 J	0.26 J	0.5 U	3.6
	July 2008	0.5 U	0.25 J	0.5 U	0.5 U	2.1 U
	October 2008	0.5 U	0.5 U	0.5 U	0.5 U	2.2 U
	January 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	April 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	July 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2009	0.5 U	0.5 U	0.5 U	0.5 U	0.91
	October 2010	0.5 U	0.55	0.5 U	0.5 U	2 U
	June 2011	0.5 U	1.7	0.74	0.5 U	2 U
	January 2013	0.5 U	0.5 U	0.5 U	0.5 U	NA
	November 2013	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2014	0.5 U	0.27 J	0.5 U	0.5 U	NA
	November 2015	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
MW-9	October 1999	10 U	10 U	10 U	10 U	NA
	December 2000	<3 U	<3 U	<3 U	<3 U	NA
	June 2001	<0.1 U	<0.1 U	<0.1 U	<0.1 U	NA
	January 2002	0.7 J	<0.4 U	<0.4 U	<0.3 U	NA
	August 2002	0.73	0.27 J	<0.5	<0.5	NA
	January 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2006	0.5 U	0.5 U	0.5 U	0.5 U	20 R
	April 2007	0.5 U	0.5 U	0.5 U	0.5 U	NA

Table C-1
Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
Mohonk Road Industrial Plant Superfund Site

Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
MW-9B	October 1999	10 U	10 U	10 U	10 U	NA
	December 2000	<3 U	<3 U	<3 U	<3 U	NA
	June 2001	0.6	<0.1 U	0.2 J	<0.1 U	NA
	January 2002	0.9 J	<0.4 U	<0.4 U	<0.3 U	NA
	August 2002	<0.5	<0.5	<0.5	<0.5	NA
	January 2003	0.7 J	0.3 J	<0.4 U	<0.3 U	NA
	July 2003	0.3 J	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.57	0.26 J	0.5 U	0.5 U	2.5
	April 2005	0.69	0.28 J	0.13 J	0.5 U	2.6
	October 2005	0.72	0.26 J	0.5 U	0.5 U	3.4
	April 2006	0.46 J	0.25 J	0.5 U	0.5 U	1 J
	October 2006	0.47 J	0.25 J	0.5 U	0.5 U	20 R
	April 2007	0.7 J	0.5 U	0.5 U	0.5 U	NA
	December 2007	0.48 J	0.5 U	0.5 U	0.5 U	2.1 U
	April 2008	0.42 J	0.22 U	0.5 U	0.5 U	2
	July 2008	0.74	0.28 J	0.5 UJ	0.5 U	3.4
	October 2008	0.59	0.5 U	0.5 U	0.5 U	2.2 U
	January 2009	0.73	0.5 U	0.5 U	0.5 U	2.1 U
	April 2009	0.67	0.5 U	0.5 U	0.5 U	2.4
	July 2009	0.69	0.5 U	0.5 U	0.5 U	2.0 U
	October 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2010	0.7	0.5 U	0.5 U	0.5 U	2.2 U
	June 2011	0.72	0.5 U	0.5 U	0.5 U	2.1 U
	January 2013	0.52	0.5 U	0.5 U	0.5 U	NA
	November 2013	0.64	0.52	0.5 U	0.5 U	3.9
	October 2014	0.58	0.58	0.5 U	0.5 U	NA
	November 2015	0.59	0.72	0.5 U	0.5 U	4.7
MW-10B	October 1999	10 U	10 U	10 U	10 U	NA
	December 2000	<3 U	<3 U	<3 U	<3 U	NA
	June 2001	<0.1 U	<0.1 U	<0.1 U	<0.1 U	NA
	January 2002	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	August 2002	<0.5	<0.5	<0.5	<0.5	NA
	January 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.5 U	0.5 U	0.5 U	0.86 J
	April 2005	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2005	0.1 J	0.5 U	0.5 U	0.5 U	2 U
	April 2006	0.5 U	0.5 U	0.5 U	0.5 U	20 UJ
	October 2006	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2007	0.5 U	0.5 U	0.5 U	0.5 U	NA
	December 2007	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	April 2008	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	July 2008	0.5 U	0.5 U	0.5 UJ	0.5 U	2 U
	October 2008	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	January 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	April 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.2 U
	July 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2010	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	June 2011	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	January 2013	0.5 U	0.5 U	0.5 U	0.5 U	NA
	November 2013	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2014	0.5 U	0.5 U	0.5 U	0.5 U	NA
	November 2015	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U

Table C-1
Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
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Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
MW-11	April 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.2 U
	July 2009	0.5 U	0.5 U	1.0 U	0.5 U	2.0 U
MW-11B	October 1999	190	15	29	11	NA
	December 2000	180	36	<3 U	10	NA
	June 2001	64.6	12.3	24.4	4.8	NA
	January 2002	32	6	17	3	NA
	August 2002	56	8.5	28	3.8	NA
	January 2003	37	8	17	3	NA
	July 2003	44 J	9 J	14 J	4 J	NA
	July 2004	25	9.3	18	2.9	7
	April 2005	30	10	23	3.8	7.2
	October 2006	40	7.1	18	6.4	20 R
	April 2007	24	5.4	17	3.5	NA
	December 2007	19	8.3	19 J	3.5	2 U
	April 2008	13	5.3	11 J	2.4	5.3
	January 2009	23	11	27	5.1	3.9
	May 2009	15	8.5	19	3.4	3.8
	July 2009	14	8.4	18	2.8	2.0 U
	October 2009	12	5.8	15	2.7	2.0 U
	October 2010	16	13	23	4.1	3.8
	June 2011	9.5	7.5	12	2.4	2 UL
	January 2013	6.2	6.9	13	2.4	NA
	November 2013	5.8	5.6	12	2.6	2.0 U
	October 2014	4.9	6.7	13	2.7	NA
	November 2015	4.4	4.8	11	1.5	2.9
MW-11C	October 1999	120	6 J	4 J	6 J	NA
	December 2000	130	11	40	7	NA
	June 2001	86.0	7.3	35.2	5.3	NA
	January 2002	86.0	8	28	6	NA
	August 2002	69.0	9.6	37	4.7	NA
	January 2003	73.0	9	35	5	NA
	July 2003	45	4	22	3	NA
	July 2004	28	4.5	14	2.8	5.7
	April 2005	32	5	22	3.6	5.9
	October 2006	16	3	11	2.4	20 R
	April 2007	19	5	18	3.3	NA
	December 2007	12	2	8.2	1.7	2.1 U
	April 2008	6	1.3	4.4	1.1	1.9 J
	July 2008	10	1.8	6.1 J	1.3	3.2
	October 2008	11	2	9.2	1.6	2.1 U
	January 2009	13	2.6	12	2.2	2.1 U
	May 2009	11	2.2	9	1.8	2.2 U
	July 2009	7.3	2.1	6.7	1.9	2.0 U
	October 2009	5.6	1.5	4	1.5	2.0 U
	October 2010	9.1	2.3	8.1	2	2.2 U
	June 2011	12	2.2	10	1.5	2 UL
	January 2013	5.5	1.3	6.5	1.2	NA
	November 2013	4.4	1.1	5.2	1.1	2.0 U
	October 2014	3.2	1.2	0.5 U	0.95	NA
	November 2015	3.2	1	4.2	0.66	2.0 U

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Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
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Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
MW-12B	October 1999	380	37	72	23 J	NA
	December 2000	220	18	43	15	NA
	June 2001	256	26.8	67.2	19.6	NA
	January 2002	276	32	77	22	NA
	August 2002	240	36	65	23	NA
	January 2003	219	30	72	18	NA
	July 2003	174	25	52	16	NA
	July 2004	96	24	39	12	11
	April 2005	150	54	87	22	25
	October 2006	76	31	47	14	31 J
	April 2007	72	29	56	13	NA
	December 2007	26	6.2	15	4.3	2.1 U
	April 2008	18	8.8	15 J	5.2	9.8
	July 2008	7	2.4	3.4 J	1.3	2.1
	October 2008	9.6	3.2	6.7	1.9	2.1 U
	January 2009	3.4	1.3	3.1	1	2.1 U
	May 2009	21	17	29	6.3	5
	July 2009	19	16	27	5.9	3.5
	October 2009	19	16	30	7.3	8.2
	October 2010	16	9.2	14	3.5	2.2 U
	June 2011	8.6	5.9	11	3	2.1 UL
	January 2013	5.3	5.7	11	2.8	NA
	November 2013	3.4	3.2	6.0	1.4	2.0 U
	October 2014	2.5	3.2	5.2	1.4	NA
	November 2015	5.6	7.1	12	2.1	2.0 U
MW-13B	October 1999	10 U	10 U	10 U	10 U	NA
	December 2000	<3 U	<3 U	<3 U	<3 U	NA
	June 2001	<0.1 U	<0.1 U	<0.1 U	<0.1 U	NA
	January 2002	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	August 2002	<0.5	<0.5	<0.5	<0.5	NA
	January 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2005	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2005	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2006	0.5 R	0.5 R	0.5 R	0.5 R	2 R
	October 2006	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2007	0.5 U	0.5 U	0.5 U	1.1	NA
	December 2007	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	April 2008	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2008	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	February 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.2 U
	May 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	July 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2010	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	June 2011	0.5 U	0.5 U	0.5 U	0.5 U	2 UL
	January 2013	0.5 U	0.5 U	0.5 U	0.5 U	NA
	November 2013	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2014	0.5 U	0.5 U	0.5 U	0.5 U	NA
	November 2015	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U

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Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
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Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
MW-14B	October 1999	10 U	10 U	10 U	10 U	NA
	December 2000	<3 U	<3 U	<3 U	<3 U	NA
	June 2001	<0.1 U	0.4 J	<0.1 U	<0.1 U	NA
	January 2002	<0.3 U	1	0.5 J	<0.3 U	NA
	January 2003	<0.3 U	0.8 J	<0.4 U	<0.3 U	NA
	July 2003	<0.3 U	0.6 J	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.58	0.5 U	0.5 U	1.6 J
	April 2005	0.5 U	0.8	0.3 J	0.15 J	1.9 J
	October 2005	0.5 U	0.62	0.25 J	0.5 U	2
	April 2006	0.5 U	0.67	0.5 U	0.5 U	2 R
	October 2006	0.5 U	0.72	0.5 U	0.5 U	2 U
	April 2007	0.5 U	0.82	0.5 U	0.5 U	NA
	December 2007	0.5 U	0.76	0.3 J	0.5 U	2.1 U
	April 2008	0.5 U	0.74	0.24 J	0.5 U	1.6 J
	July 2008	0.5 U	2	0.5 UJ	0.5 U	3.9
	October 2008	0.5 U	2.2	0.88	0.5 U	2.1 U
	January 2009	0.5 U	1.5	0.58	0.5 U	2.1 U
	April 2009	0.5 U	1.3	0.5 U	0.5 U	2.1 U
	July 2009	0.5 U	1.2	0.5 U	0.5 U	2.1 U
	October 2009	0.5 U	1.3	0.5 U	0.5 U	2.5
	October 2010	0.5 U	3.1	2.2	0.5 U	2 U
	April 2011	0.5 U	2.5	1.4	0.5 U	2.2 U
	June 2011	0.5 U	0.5 U	0.5 U	0.5 U	2 UL
	January 2013	0.5 U	1.9	1.9	0.5 U	NA
	November 2013	0.5 U	1.9	1.6	0.5 U	2.0 U
	October 2014	0.5 U	1.4	1.4	0.5 U	NA
	November 2015	0.5 U	1.4	1.5	0.5 U	3
MW-15B	October 1999	380	30	39	4 J	NA
	December 2000	250	37	63	<3 U	NA
	June 2001	377	35.4	63.6	3.8	NA
	January 2002	482	40	73	4	NA
	August 2002	330	31	54	5	NA
	January 2003	380	36	68	3	NA
	July 2003	327	30	38	3	NA
	July 2004	310	37	56	3	9.9
	April 2005	320	36	48	3.6	9.3
	October 2006	180	25	38	3.1	40 R
	April 2007	200	30	60	3.9	NA
	December 2007	170	25	43	3.5	4
	April 2008	110	17	35	2.2	8.2
	July 2008	200	24	81 J	3.1	9.9
	October 2008	210	25	55	2.9	3.5
	February 2009	210	24	54	2.7	4.9
	May 2009	200	25	50	2.7	5.9
	July 2009	130	24	39	3	3.1
	October 2009	86	14	30	1.8	1.7 J
	October 2010	150	21	49	2.1	3.6
	June 2011	130	21	20	2.4	3.1
	January 2013	75	15	33	1.8	NA
	November 2013	57	13	26	1.7	2.8
	October 2014	72	13	36	1.4	NA
	November 2015	46	16	7.2	1.2	4.3
MW-16	July 2003	168	12	51	4	NA
	July 2004	160	10	60	8.8	8.9
	October 2006	140	25	60	12	40 R
	April 2007	2.9	0.5 U	1.7	0.5 U	NA
	December 2007	140	11	53	8.8	5.1 L
	April 2008	1.1	0.5 U	0.54	0.5 U	2 U
	July 2008	96	9.4	71 J	7.9	12
	October 2008	110	11	54	8.4	4.9
	February 2009	26	2.4	13	1.9	2.0 U
	May 2009	2.3	0.5 U	1.3	0.5 U	2.1 U
	July 2009	1.4	0.5 U	0.5 U	0.5 U	2.1 U
	October 2009	130	13	56	7.4	2.0 U
	October 2010	69	8.3	41	5.9	3.6
	June 2011	1.7	0.5 U	0.94	0.5 U	2.1 UL
	January 2013	5.6	0.5 U	4.1	0.65	NA
	November 2013	35	3.3	21	3.2	2.3
	October 2014	23	3.3	20	0.5 U	NA
	November 2015	28	4.9	27	2.7	5.3

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Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
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Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
MW-17-1	July 2003	175	21	63	11	NA
	July 2004	150	16	51	8.7	18
	April 2005	110	10	49	7.8	14
	April 2006	70J	16	30	7.6	8.4
	October 2006	79	16	38	7.9	20 R
	April 2007	80	16	58	8.4	NA
	December 2007	77	12	37	6.4	4.3
	April 2008	74	14	38	7.5	11
	July 2008	64	14	35 J	6.9	7.6
	October 2008	73	15	50	6.7	6.6
	February 2009	62	13	43	7.2	4
	May 2009	63	14	44	7	6
	July 2009	46	13	31	6.4	3.5
	October 2009	34	9.2	24 J	5.4	4.9
	October 2010	48	11	34	5.2	2.5
	June 2011	34	9.9	27	5.1	2.3
	January 2013	25	6.1	22	4.4	NA
	November 2013	22	6.4	21	4.1	2.6
	October 2014	22	7.4	19	3.8	NA
	November 2015	11	4.7	14	2	2.0 U
MW-17-2	July 2003	160	22	60	10	NA
	July 2004	130	18	49	10	15
	April 2005	130	13	53	6.8	15
	April 2006	100	15	50	4.5 J	11
	October 2006	73	18	37	5.8	20 R
	April 2007	79	16	50	5.4	NA
	December 2007	49	15	26	5.3	4.8
	April 2008	73	16	36 J	5.5	14
	July 2008	54	15	32 J	4.8	9.6
	October 2008	64	17	47	5.4	8.7
	February 2009	60	17	45	5.3	5.6
	May 2009	51	17	35	5.5	8.7
	July 2009	48	16	33	5.7	4.2
	October 2009	36	12	26 J	4.1	6.8
	October 2010	39	12	32	4.2	3.3
	June 2011	33	12	30	4	2.6
	January 2013	24	9.5	25	3.7	NA
	November 2013	24	10	27	3.7	3.5
	October 2014	16	9.7	19	2.8	NA
	November 2015	12	7.8	17	2.2	4.8
MW-17-3	July 2003	96	24	38	5	NA
	July 2004	120	21	41	1.6	14
	April 2005	110	13	46	1.4	15
	April 2006	63	16	36	0.6	10
	October 2006	65	19	35	0.74	20 R
	April 2007	73	17	49	0.6	NA
	December 2007	56	16	30	0.55	4.7
	April 2008	71	18 J	36 J	0.6	13
	July 2008	51	16	28 J	0.29 J	7.8 J
	October 2008	59	19	47	0.5 U	7.8
	February 2009	56	18	43	0.86	5.9
	May 2009	50	19	36	0.5 U	6.9
	July 2009	41	17	32	0.78	3.7
	October 2009	36	12	31 J	0.35 J	5.7
	October 2010	37	13	32	0.5 U	3.2
	June 2011	30	10	35	0.5 U	2.2 U
	January 2013	28	13	30	0.5 U	NA
	November 2013	24	13	29	0.5 U	3.8
	October 2014	17	12	22	0.5 U	NA
	November 2015	4.2	15	19	0.45	3.1

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Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
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Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
MW-18-1	July 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.34 J	0.5 U	0.5 U	1.7 J
	October 2004	0.5 U	0.43 J	0.23 J	0.5 U	2 U
	April 2005	0.5 U	0.71	0.24 J	0.5 U	0.78 J
	October 2005	0.5 U	0.49 J	0.17 J	0.5 U	1 J
	April 2006	0.5 U	0.32 J	0.5 U	0.5 U	2 R
	October 2006	0.5 U	0.3 J	0.5 U	0.5 U	2 U
	April 2007	0.5 U	0.5 U	0.5 U	0.5 U	NA
	December 2007	0.5 U	0.32 J	0.5 U	0.5 U	2.1 U
	April 2008	0.5 U	0.38 J	0.5 U	0.5 U	0.73 J
	October 2008	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	February 2009	0.5 U	0.73	0.5 U	0.5 U	2.1 U
	May 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.3 U
	July 2009	0.5 U	0.5 U	1.0 U	0.5 U	2.0 U
	October 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2010	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	June 2011	0.5 U	0.5 U	0.5 U	0.5 U	2.2 U
	November 2013	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2014	0.5 U	0.61	0.5 U	0.5 U	NA
	November 2015	0.5 U	0.94	0.37	0.5 U	2.0 U
MW-18-2	July 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.17 J	0.5 U	0.5 U	1.7 J
	October 2004	0.5 U	0.23 J	0.5 U	0.5 U	2 U
	April 2005	0.5 J	0.22 J	0.5 U	0.5 J	0.77 J
	October 2005	0.5 U	0.26 J	0.5 U	0.5 U	0.52 J
	April 2006	0.5 U	0.19 J	0.5 U	0.5 U	2 R
	October 2006	0.5 U	0.19 J	0.5 U	0.5 U	2 U
	April 2007	0.5 U	0.5 U	0.5 U	0.5 U	NA
	December 2007	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2008	0.5 U	0.5 U	0.5 U	0.5 U	2.2 U
	February 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	May 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	July 2009	0.5 U	0.5 U	1.0 U	0.5 U	2.1 U
	October 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2010	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	June 2011	0.5 U	0.5 U	0.5 U	0.5 U	2.2 U
	November 2013	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2014	0.5 U	0.78	0.5 U	0.5 U	NA
	November 2015	0.5 U	0.71	0.5 U	0.5 U	2.0 U
MW-18-3	July 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.24 J	0.5 U	0.5 U	2 U
	October 2004	0.5 U	0.4 J	0.17 J	0.5 U	2 U
	April 2005	0.5 U	0.55	0.19 J	0.5 U	0.73 J
	October 2005	0.5 U	0.49 J	0.15 J	0.5 U	0.57 J
	April 2006	0.5 U	0.27 J	0.5 U	0.5 U	2 R
	October 2006	0.5 U	0.39 J	0.5 U	0.5 U	2 U
	April 2007	0.5 U	0.5 U	0.5 U	0.5 U	NA
	December 2007	0.5 U	0.3 J	0.5 U	0.5 U	2.1 U
	April 2008	0.5 U	0.5 U	0.5 U	0.5 U	0.98 J
	October 2008	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	February 2009	0.5 U	0.52	0.5 U	0.5 U	2.1 U
	May 2009	0.5 U	0.5	0.5 U	0.5 U	2.0 U
	July 2009	0.5 U	0.5 U	1.0 U	0.5 U	2.1 U
	October 2009	0.5 U	0.5 U	0.5 U	0.5 U	5.1
	October 2010	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	June 2011	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
	November 2013	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2014	0.5 U	0.5 U	0.5 U	0.5 U	NA
	November 2015	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U

Table C-1
Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
Mohonk Road Industrial Plant Superfund Site

Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
MW-19-1	July 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.5 U	0.5 U	0.5 U	1.4 J
	October 2004	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2005	0.5 U	0.5 U	0.5 U	0.5 U	0.87 J
	October 2006	0.5 U	0.5 U	0.5 U	0.5 U	20 R
	April 2007	0.5 U	0.5 U	0.5 U	0.5 U	NA
	December 2007	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2008	0.5 U	0.5 U	0.5 U	0.5 U	1.9 J
	July 2008	0.5 U	0.44 J	0.5 U	0.5 U	1.9 U
	October 2008	0.5 U	0.5 U	0.53	0.5 U	2.1 U
	February 2009	0.5 U	0.66	0.56	0.5 U	2.1 U
	April 2009	0.5 U	1	0.75	0.5 U	2.0 U
	October 2009	0.5 U	0.98	0.5 U	0.5 U	3.3
	January 2010	0.5 U	1.3	0.98	0.5 U	2.2 U
	July 2010	0.5 U	1.3	0.85	0.5 U	2.3 U
	October 2010	0.5 U	1.2	0.94	0.5 U	2.1 U
	January 2011	0.5 U	1.6	1.4	0.5 U	2.1 U
	April 2011	0.5 U	1.2	0.9	0.5 U	2.1 U
	June 2011	0.5 U	1.1	0.9	0.5 U	2.1 U
	January 2013	0.5 U	0.5 U	0.5 U	0.5 U	NA
MW-19-2	November 2013	0.5 U	0.56	0.52	0.5 U	2.0 U
	October 2014	0.5 U	0.57	0.58	0.5 U	NA
	November 2015	0.5 U	1.1	1	0.5 U	2.8
	July 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2004	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2005	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2006	0.5 U	0.5 U	0.5 U	0.5 U	20 R
	April 2007	0.5 U	0.5 U	0.5 U	0.5 U	NA
	December 2007	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	April 2008	0.5 U	0.57	0.5 U	0.5 U	1.5 J
	July 2008	0.5 U	0.82	0.5 U	0.5 U	2 U
	October 2008	0.5 U	1.1	0.9	0.5 U	2.1 U
	February 2009	0.5 U	1.5	1.2	0.5 U	2.1 U
	April 2009	0.5 U	1.6	1.1	0.5 U	NA
	October 2009	0.5 U	1.1	0.5 U	0.5 U	2.6
	January 2010	0.5 U	1.4	1.1	0.5 U	2.2 U
	July 2010	0.5 U	1.3	0.82	0.5 U	2.4 U
	October 2010	0.5 U	1.3	0.99	0.5 U	2.1 U
	January 2011	0.5 U	1.7	1.5	0.5 U	2.1 U
	April 2011	0.5 U	1.6	1.1	0.5 U	2.1 U
MW-19-3	June 2011	0.5 U	1.7	1.2	0.5 U	2 U
	January 2013	0.5 U	1	1	0.5 U	NA
	November 2013	0.5 U	1.5	1.2	0.5 U	2.0 U
	October 2014	0.5 U	1.4	1.1	0.5 U	NA
	November 2015	0.5 U	1.1	0.99	0.5 U	2.9
	July 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2004	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2005	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2006	0.5 U	0.5 U	0.5 U	0.5 U	20 R
	April 2007	0.5 U	0.5 U	0.5 U	0.5 U	NA
	December 2007	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	April 2008	0.5 U	0.41 U	0.5 U	0.5 U	1.6 J
	July 2008	0.5 U	0.63	0.5 U	0.5 U	2 U
	October 2008	0.5 U	0.91	0.57	0.5 U	2.1 U
	February 2009	0.5 U	1.3	1	0.5 U	2.1 U
	April 2009	0.5 U	1.5	1.2	0.5 U	2.0 U
	October 2009	0.5 U	0.91	0.5 U	0.5 U	2.1
	January 2010	0.5 U	1.4	1.1	0.5 U	2.3 U
	July 2010	0.5 U	1.3	0.94	0.5 U	2.2 U
	October 2010	0.5 U	1.2	0.93	0.5 U	2.1 U
	January 2011	0.5 U	1.6	1.3	0.5 U	2.1 U
	April 2011	0.5 U	1.6	1.2	0.5 U	2 U
	June 2011	0.5 U	1.6	1.2	0.5 U	2.1 U
	January 2013	0.5 U	0.96	0.94	0.5 U	NA
	November 2013	0.5 U	1.4	1.1	0.5 U	2.0 U
	October 2014	0.5 U	1.5	1.1	0.5 U	NA
	November 2015	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U

Table C-1
Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
Mohonk Road Industrial Plant Superfund Site

Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
MW-20-1	July 2003	0.3 J	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2005	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2006	0.5 U	0.5 U	0.5 U	0.5 U	20 R
	April 2007	0.5 U	0.5 U	0.5 U	0.5 U	NA
	December 2007	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2008	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2008	0.5 U	0.5 U	0.5 U	0.5 U	2.2 U
	April 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.2 U
	October 2010	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	June 2011	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	January 2013	0.5 U	0.5 U	0.5 U	0.5 U	NA
	November 2013	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2014	0.5 U	0.5 U	0.5 U	0.5 U	NA
	November 2015	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
MW-20-2	July 2003	0.3 J	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2005	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2006	0.5 U	0.5 U	0.5 U	0.5 U	20 R
	April 2007	0.5 U	0.5 U	0.5 U	0.5 U	NA
	December 2007	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	April 2008	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2008	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	April 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.2 U
	October 2010	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	June 2011	0.5 U	0.5 U	0.5 U	0.5 U	2.8
	January 2013	0.5 U	0.5 U	0.5 U	0.5 U	NA
	November 2013	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2014	0.5 U	0.5 U	0.5 U	0.5 U	NA
	November 2015	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
MW-20-3	July 2003	<0.3 U	<0.4 U	<0.4 U	<0.3 U	NA
	July 2004	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2005	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2006	0.5 U	0.5 U	0.5 U	0.5 U	20 R
	April 2007	0.5 U	0.5 U	0.5 U	0.5 U	NA
	December 2007	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	April 2008	0.5 U	0.5 U	0.5 U	0.5 U	2 U
	October 2008	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	April 2009	0.5 U	0.5 U	0.5 U	0.5 U	2.2 U
	October 2010	0.5 U	0.5 U	0.5 U	0.5 U	2.1 U
	June 2011	0.5 U	0.5 U	0.5 U	0.5 U	2.2 U
	January 2013	0.5 U	0.5 U	0.5 U	0.5 U	NA
	November 2013	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U
	October 2014	0.5 U	0.5 U	0.5 U	0.5 U	NA
	November 2015	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U

Table C-1
Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
Mohonk Road Industrial Plant Superfund Site

Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
MW-21-1	October 2008	9.3	0.9	5.4	2.4	2.1 U
	February 2009	9	1.7	6.3	2.3	2.2 U
	May 2009	9.4	1.6	6.8	2.6	2.0 U
	July 2009	6.8	2.1	7	2.2	2.0 U
	October 2009	7.4	4.3	9.2	2.8	2.0 U
	January 2010	7.3	2.2	7.6	3.3	2.3 U
	July 2010	8.4	2.6	8.2	3.8	2.0 U
	October 2010	10	1.5	7.5	3.5	2.1 U L
	June 2011	4.2	0.57	3.7	1.8	2 U
	November 2013	7.2	0.69	4.3	2.1	2.0 U
	October 2014	7.3	0.98	4.7 J	2.2	NA
	November 2015	8.2	1	6.4	3	2.0 U
MW-21-2	October 2008	8.6	1.1	5.6	2.2	2.1 U
	February 2009	11	2.6	8.3	2.8	2.1 U
	May 2009	10	2.4	7.8	2.9	2.2 U
	July 2009	9.4	4.4	11	3	2.0 U
	October 2009	7.8	4.8	9.7	2.8	2.0 U
	January 2010	7.3	3	9	3.2	2.1 U
	July 2010	7.5	3	7.9	3.3	2.1 U
	October 2010	10	2.5	8.8	3.7	2 U
	June 2011	3.1	0.54	3.5	1.4	2.2
	January 2013	3	0.5 U	2	1.2	NA
	November 2013	3.6	0.50	2.5	1.3	2.0 U
	October 2014	4.2	1	3 J	1.5	NA
	November 2015	3.5	1.1	4.3	1.5	2.0 U
MW-21-3	October 2008	7.4	1.5	5.4	1.6	2.1 U
	February 2009	8.1	2.9	7.3	2	2.2 U
	May 2009	11	7.4	14	2.9	3.1
	July 2009	11	5.6	6.3	3.3	2.0 U
	October 2009	8.8	7.3	14	3.3	2.0 U
	January 2010	8.7	9.2	17	4.5	4.2
	July 2010	7.1	5.3	11	3	2.3 U
	October 2010	12	8.9	15	3.6	2.4
	June 2011	4.3	2.2	5.3	1.7	2.2 U

Table C-1
Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
Mohonk Road Industrial Plant Superfund Site

Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
MW-21-4	October 2008	11	1.3	6.2	2.5	2.2 U
	February 2009	9	1.7	7.1	2.3	2.2 U
	May 2009	11	5.6	14	3.3	2.2 U
	July 2009	11	6.1	15	3.7	2.0 U
	October 2009	9.1	11	16	5.6	2.0 U
	January 2010	8.7	9.5	18	4.7	4.1
	July 2010	8.3	3.1	9.3	3.2	2.2 U
	October 2010	5.3	1	4.3	1.9	2 U
	June 2011	3.4	0.79	4	1.5	2.1 U
	January 2013	3.3	0.63	2.4	1.1	NA
	November 2013	4.7	0.58	3.0	1.2	2.0 U
	October 2014	3.5	0.63	2.5	1	NA
	November 2015	2.8	0.97	3.7	1.1	2.0 U
	October 2008	12	2.8	9.4	4.3	2.1 U
	February 2009	8.4	2.1	7.2	3.2	3.4
MW-21-5	May 2009	11	5.9	13	4.1	2.5
	July 2009	10	6	14	4.2	2.0 U
	October 2009	8.5	10	17	5	2.0 U
	January 2010	8.4	10	18	4.9	4.3
	July 2010	7.8	4	9.9	3.9	2.1 U
	October 2010	6.2	2	6.4	2.9	2.1 U
	June 2011	4	1.1	4.4	1.6	2.2 U
	January 2013	3.3	0.5 U	2.3	1.2	NA
	November 2013	4.6	0.55	2.9	1.2	2.0 U
	October 2014	3.4	0.59	2.4	1.1	NA
	November 2015	2.9	1.1	3.8	1.1	2.0 U
	October 2008	2.5	23	24	3.3	9.1
	February 2009	3.1	15	18	2.9	2.1 U
	May 2009	4	16	20	2.9	5.2
	July 2009	3.5	15	19	2.9	3.3
MW-21-6	October 2009	5.4	13	16	3.8	2.0 U
	January 2010	2.8	17	21	3.7	6
	July 2010	1.4	18	21	2.8	3.7
	October 2010	3.1	11	15	2.6	2.7
	June 2011	2	8.5	11	2	2.1 U
	January 2013	3.4	0.85	2.8	1.2	NA
	November 2013	4.3	0.62	2.9	1.2	2.0 U
	October 2014	2.7	1.1	2.5	0.97	NA
	November 2015	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U

Table C-1
Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
Mohonk Road Industrial Plant Superfund Site

Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
ERT-1	October 1999*	1,400	94	170	100	NA
	December 1999	1,200	36 J	130	53	NA
	December 2000	390	29 J	87 J	34 J	NA
	June 2001	416	18.8	75.0	24.0	NA
	January 2002	488	25	69.0	24.0	NA
	August 2002	940	65	140.0	33.0	NA
	January 2003	506	22	78	24	NA
	July 2003	322	18	72	21	NA
	July 2004	240	17	59	17	NA
	March 2005	410	27	90	27	20
	November 2005	300	15	60	16	18
	May 2006	360	17	73	18	NA
	October 2006	170	17	36	13	8.6
	April 2007	240	53	44	2	NA
	December 2007	330	49	32	2.1	2.1 U
	April 2008	120	10	37 J	10	7.8
	July 2008	58	11	24 J	6.4	4.6
	October 2008	110	14	39	11	5
	January 2009	460	37	84	25	5.1
	May 2009	140	14	39	11	4.8
	July 2009	260	12	80	10	2.5
	October 2009	160	12	23	10	2 U
	October 2010	48	11	22	5.7	2.5 U
	June 2011	120	14	37	11	2 UL
	January 2013	65	10	30	8.3	NA
	November 2013	310	32	82	15	2.0 U
	October 2014	18	7.1	11	2.3	NA
	November 2015	53	12	17	4.2	2.8
ERT-2	October 1999	420	15	5 J	12	NA
	December 2000	220	12	21	7	NA
	June 2001	142	5.5	20.3	8.0	NA
	January 2002	358	20	38	16.0	NA
	August 2002	290	16	36	14.0	NA
	January 2003	202	10	34	13	NA
	July 2003	112	8	28	9	NA
	July 2004	41	6.2	14	4.7	4.1
	April 2005	180	21	25	2.8	4.8
	October 2005	150	12	12	8.4	21
	April 2006	28	2.3	8	2.5	2 R
	October 2006	7.5	0.48 J	1.7	1.4	2.1
	April 2007	62	3.2	14	3	NA
	December 2007	25	2.4	5	1.9	2.2 U
	April 2008	60	4.2	14	3.3	2 U
	October 2008	65	21	49	11	4.9
	May 2009	39	4.8	12	2.7	2.4
	October 2009	75	10	6.6	3.6	3.7
	October 2010	29	5.8	11	3	2.2 U
	June 2011	43	15	36	8.1	2.3
	January 2013	32	12	27	6.4	NA
	November 2013	22	9.2	16	3.7	2.2
	October 2014	21	7.3	15	5	NA
	November 2015	7	2	2.2	0.58	2.0 U

Table C-1
Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
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Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
ERT-3	October 1999	130	2J	11	52	NA
	December 2000	600	20	99 J	85	NA
	June 2001	328	9.0	47.6	70.4	NA
	January 2002	279	8.0	40	75	NA
	August 2002	250	9.4	42	73	NA
	January 2003	320	8	44	86	NA
	July 2003	389	11	60	79	NA
	July 2004	200	9.9	23	56	83
	April 2005	250	16	34	75	66
	April 2006	170	9.7	23	35	30
	October 2006	110	9.5	18	30	65 J
	April 2007	140	10	24	28	NA
	December 2007	210	18	32	39	7.6
	April 2008	250	13	37	40	31
	July 2008	210	14	26 J	29	32
	October 2008	190	18	31	48	23
	May 2009	190	16	26	37	35
	October 2009	73	6.3	6.3	20	13
	October 2010	100	16	23	20	8.1
	June 2011	91	16	29	21	4.9 L
	January 2013	87	15	22	34	NA
	November 2013	99	12	18	50	10
	October 2014	170	14	37	38	NA
	November 2015	150	15	43	26	24
ERT-4	October 1999	6,400 J	160	490 J	460 J	NA
	December 2000	3,600	190 J	220	390 J	NA
	June 2001	13,800	196	920	800	NA
	January 2002	16,900	134	1,090	908	NA
	August 2002	16,000	190	1,200	640	NA
	January 2003	7,080	107	539	369	NA
	July 2003	5,080	68	402	248	NA
	July 2004	9,000	130	600	440	6.8
	April 2005	6,500	150	510	320	24
	April 2006	4,700	160 J	350	170	12
	October 2006	3,500	120	270	210	1,000 R
	April 2007	28	1.6	4	9.2	NA
	December 2007	8,400	110 J	850	300	4.7
	April 2008	3,000	85 J	250	96 J	9.3
	July 2008	880	27	61	59	8.8
	February 2009	2,000	51	160	99	6.2
	May 2009	2,300	60	400	220	5.6
	July 2009	1,000	24	130	71	2.1 U
	October 2009	410	15	92	28	7.5
	October 2010	3,500	94	290	170	4.8
	June 2011	2,200	54	180	120	2.9
	January 2013	840	18	68	78	NA
	November 2013	4,700	80	310	260	4.7
	October 2014	840	13	62	41	NA
	November 2015	2,100	57	280	93	3.3

Table C-1
Historical Summary of Groundwater Analytical Results (Contaminants of Concern)
Mohonk Road Industrial Plant Superfund Site

Monitoring Well ID	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	TCE (µg/L)	1,4-Dioxane (µg/L)
ROD Cleanup Goals		5	5	5	5	50
NOTES: This table provides a summary of historical groundwater monitoring well sampling results for the MRIP Site, for only the four primary chlorinated VOC contaminants of concern, as follows: 1,1-DCA = 1,1-Dichloroethane 1,1-DCE = 1,1-Dichloroethene 1,1,1-TCA = 1,1,1-Trichloroethane TCE = Trichloroethene Other various VOCs were detected during the sampling rounds at varying locations and concentrations. A complete summary of analytical results for this sampling event is included elsewhere. All data expressed in concentrations of micrograms per liter (ug/L) or parts per billion (ppb) Highlighted values exceed cleanup standards for contaminants of concern (5 ug/l for primary COCs, 50 ug/l for 1,4-dioxane). NA = Not Analyzed Dup = Duplicate sample <u>Laboratory Qualifiers</u> U = The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method. J = The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL. R = Rejected. Presence or absence of analyte cannot be determined. Data is rejected/unusable L = Off-scale high. The actual value is expected to be greater than the reported value K = Off-scale low. Actual value is known to be less than the value given. *The analytical results from the samples collected in October 1999 are considered questionable due to soil and sediment loading in the well. August 2002 samples collected by USEPA and analyzed at two laboratories.						

**Table C-2
Historic Data Summary**

Table C-2
Historic Data Summary
Mohonk Road Industrial Plant Superfund Site

Analyte	Unit	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	
		4/10/2006	10/18/2006	4/3/2007	11/29/2007	4/14/2008	7/16/2008	10/21/2008	1/27/2009	5/6/2009	7/10/2009	10/9/2009	10/12/2010	6/7/2011	1/24/2013	11/12/2013	10/15/2014	11/18/2015	4/17/2006	10/24/2006	4/13/2007	12/17/2007	4/14/2008	5/7/2009	10/20/2010	6/16/2011	1/24/2013	11/6/2013	10/21/2014	11/17/2015	
Volatile Organics																															
1,1,1-trichloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1,500 J	1,100 J	1,700	1,100	770	770 K	360	310	400	4,900	1,600	980	
1,1,1,2-tetrachloroethane	µg/L	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
1,1,2-trichloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.6	5.6	2.9	3.9	2.1	1.9	0.9	0.81	0.87	2.7	10 U	5 U	
1,1-dichloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	31 J	43	34	47 J	32 J	43	9.2	7.8	26	50	41	12	
1,1-dichloroethene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	240 J	120	210	160	110	73	33	43	42	340 K	140	65	
1,2,3-trichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U J	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U J	5 U	
1,2,4-trichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2-dibromo-3-chloropropane	µg/L	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2-dibromoethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2-dichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2-dichloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.8	4 J	3.5	0.5 U	2.6	0.5 U	0.5 U	0.97	0.95	4.5	10 U	5 U	
1,2-dichloropropane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,3-dichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,4-dichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,4-dioxane	µg/L	20 R	2 U	NR	2 U	2 U	2 U	2.2 U	2.1 U	2 U	2 U	2 U	2.1 U	1.9 UL	-	2.0 U	-	2.0 U	5.9	4	NR	3.3	9.6	4	-	2.2 UL	-	2.0 U	-	3.9	
2-butanone	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	50 U	
2-hexanone	µg/L	5 U	5 U	5 U J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	50 U	
4-methyl-2-pentanone	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	50 U	
acetone	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	50 U	
benzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
bromochloromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
bromodichloromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
bromoforn	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
bromomethane	µg/L	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
carbon disulfide	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
carbon tetrachloride	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
chlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
chloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.4	4.3 J	3.3	3.8	1.9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.52	10 U	5 U
chloroform	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	5 U	1.1	1.5	0.89	0.74	0.5 U	0.5 U	0.5 U	1.5	10 U	5 U	
chloromethane	µg/L	0.5 U	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
cis-1,2-dichloroethene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	7 J	10 J	9.1	14 J	8.8 J	13	3.1	5.3	34	37	22	4.3	
cis-1,3-dichloropropene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
cyclohexane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
dibromochloromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
dichlorodifluoromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
ethane, 1-chloro-1,1-difluoro	µg/L	-	-	-	0.5 U	0.5 U	0.5 U	-	-	-	-	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	-	-	-	-	-	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	-
ethylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
isopropylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
m,p-xylene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.33	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
methyl acetate	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	1.4	0.5 U	0.5 U	0.5 U	0.5 U	1 U J	0.5 U	0.5 U	0.5 U	
methyl tert-butyl ether	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 UL	0.5 UL	0.5 U	0.5 U	0.5 U	0.44 J	1.9 J	1.3	1.8									

Table C-2
Historic Data Summary
Mohonk Road Industrial Plant Superfund Site

		MW-9	MW-9	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B	MW-9B
		10/16/2006	4/2/2007	4/11/2006	10/17/2006	4/3/2007	11/26/2007	4/7/2008	7/14/2008	10/17/2008	1/26/2009	4/30/2009	7/7/2009	10/5/2009	10/11/2010	6/3/2011	1/15/2013	10/28/2013	10/7/2014	11/20/2015
Analyte	Unit																			
Volatile Organics																				
1,1,1-trichloroethane	µg/L	0.5 U	0.5 U	0.46 J	0.47 J	0.7 J	0.48 J	0.42 J	0.74	0.59	0.73	0.67	0.69	0.5 U	0.7	0.72	0.52	0.64	0.58	0.59
1,1,2,2-tetrachloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-trichloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-dichloroethane	µg/L	0.5 U	0.5 U	0.25 J	0.25 J	0.5 U	0.5 U	0.22 J	0.28 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.52	0.58	0.72
1,1-dichloroethene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-trichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-trichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-dibromo-3-chloropropane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U L	0.5 U	0.5 U	0.5 U	0.5 U
1,2-dibromoethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-dichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-dichloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-dichloropropane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-dichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-dichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-dioxane	µg/L	20 R	NR	20 R	2 U	NR	2.1 U	2	3.4	2.2 U	2.1 U	2.4	2.2 U	2 U	2.2 U	2.1 U	-	3.9	-	4.7
2-butanone	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U
2-hexanone	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-methyl-2-pentanone	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
acetone	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
benzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bromochloromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bromodichloromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bromoforn	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bromomethane	µg/L	0.5 U	1 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
carbon disulfide	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
carbon tetrachloride	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chloroform	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chloromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-dichloroethene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-dichloropropene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cyclohexane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
dibromochloromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
dichlorodifluoromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ethane, 1-chloro-1,1-difluoro	µg/L	-	-	-	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	-	-	-	0.5 U	0.5 U	0.5 U	-	-
ethylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
isopropylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m,p-xylene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.12	0.5 U	0.5 U
methyl acetate	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
methyl tert-butyl ether	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U L	0.5 U	0.5 U	0.5 U	0.5 U
methylcyclohexane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
methylene chloride	µg/L	0.5 U	0.5 U	0.6 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.1	0.5 U	0.5 U	0.5 U	0.21	0.5 U	0.5 U
o-xylene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
styrene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tetrachloroethene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
toluene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-dichloroethene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-dichloropropene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U							

Table C-2
Historic Data Summary
Mohonk Road Industrial Plant Superfund Site

		MW-10B 4/13/2006	MW-10B 10/19/2006	MW-10B 4/4/2007	MW-10B 11/28/2007	MW-10B 4/8/2008	MW-10B 7/15/2008	MW-10B 10/17/2008	MW-10B 1/23/2009	MW-10B 4/28/2009	MW-10B 7/7/2009	MW-10B 10/6/2009	MW-10B 10/12/2010	MW-10B 6/1/2011	MW-10B 1/15/2013	MW-10B 10/29/2013	MW-10B 10/8/2014	MW-10B 11/17/2015
Analyte	Unit																	
Volatile Organics																		
1,1,1-trichloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-tetrachloroethane	µg/L	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-trichloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-dichloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-dichloroethene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-trichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
1,2,4-trichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
1,2-dibromo-3-chloropropane	µg/L	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-dibromomethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-dichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-dichloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-dichloropropane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-dichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-dichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-dioxane	µg/L	20 U J	2 U	NR	2.1 U	2 U	2 U	2.1 U	2.1 U	2.2 U	2 U	2 U	2.1 U	2.1 U	-	2.0 U	-	2 U
2-butanone	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U
2-hexanone	µg/L	5 U	5 U	5 U J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-methyl-2-pentanone	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
acetone	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
benzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bromochloromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bromodichloromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bromoform	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bromomethane	µg/L	0.5 U J	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
carbon disulfide	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
carbon tetrachloride	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chloroform	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chloromethane	µg/L	0.5 U	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-dichloroethene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-dichloropropene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cyclohexane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-dibromochloromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-dichlorodifluoromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ethane, 1-chloro-1,1-difluoro	µg/L	-	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	-	-	-	-	0.5 U	0.5 U	0.5 U	0.5 U	-
ethylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
isopropylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m,p-xylene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
methyl acetate	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
methyl tert-butyl ether	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 UJ	0.5 U	0.5 U	0.5 U	0.5 U
methylcyclohexane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
methylene chloride	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-xylene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
styrene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tetrachloroethene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
toluene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-dichloroethene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-dichloropropene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
trichloroethene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trichlorofluoromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
vinyl chloride	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U J	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U
Total VOCs	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gases																		
ethane	µg/L	12 U	12 U	-	-	U	U	1 U	2 U	12 U	2 U	12 U	2 U	2 U	2 U	2 U	-	-
ethene	µg/L	17 U	17 U	-	-	U	U	1 U	2 U	17 U	2 U	17 U	2 U	2 U	2 U	2 U	-	-
methane	µg/L	2.6 J	10 U	-	-	U	U	2 U	2 U	10 U	2 U	10 U	2 U	2 U	2 U	2 U	-	-
Metals																		
arsenic	mg/L	0.009 U	0.009 U	0.016 U	-	0.008 U	0.008 U	0.008 U	8.0 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008.			

Table C-2
Historic Data Summary
Mohonk Road Industrial Plant Superfund Site

[illegible]

Bold values indicate that the constituent was detected
 Highlighted values exceed cleanup standards for contaminants of concern (5 ug/l for primary COCs, 50 ug/l for 1,4-dioxane)
 Total VOCs was calculated by summing the detected concentrations of 1,1,1-trichloroethane; 1,1-dichloroethane; 1,1-dichloroethene; and trichloroethene
Laboratory Qualifiers
 U = The analyte was analyzed for, but was not detected at a level greater than or equal to the adjusted Contract Required Quantitation Limit (CRQL) for sample and method
 J = The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL)
 R = The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample
 N = The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
 K = Off-scale low. Actual value is known to be less than the value given.
 L = Off-scale high. Actual value is known to be greater than value given.

Acronyms and Abbreviations

- = Not analyzed	C = Celsius	mL/min = milliliters per minute	NS = Not sampled
µg/L = micrograms per liter	MeV = Mega-electron volt	NA = Not applicable	NTU = Nephelometric Turbidity Unit
µS/cm = micro-Siemens per centimeter	mg/L = milligrams per liter	NE = Not established	VOCs = Volatile Organic Compounds

Table C-2
Historic Data Summary
Mohonk Road Industrial Plant Superfund Site

[illegible]

Notes:

Bold values indicate that the constituent was detected

Highlighted values exceed cleanup standards for contaminants of concern (5 ug/l for primary COCs, 50 ug/l for 1,4-dioxane)

Total VOCs was calculated by summing the detected concentrations of 1,1,1-trichloroethane; 1,1-dichloroethane; 1,1-dichloroethene; and trichloroethene

Laboratory Qualifiers

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method

J = The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

R = The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample

N = The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

K = Off-scale low. Actual value is known to be less than the value given.

L = Off-scale high. Actual value is known to be greater than value given.

Acronyms and Abbreviations

- = Not analyzed

µg/L = micrograms per liter

$\mu\text{S}/\text{cm}$ = micro-Siemens per centimeter

C = Celsius

MeV = Mega-electron Volt

mg/L - milligrams per liter

mm/min = millimeters per minute

NA = Not applicable

NE = NOT ESTABLISHED

NS = Not Sampled

NTU = Nephelometric Turbidity Unit
NOC = Nitrate Nitrogen (mg/L)

VOCs = Volatile Organic Compounds

Table C-2
Historic Data Summary
Mohonk Road Industrial Plant Superfund Site

		MW-18-1 4/12/2006	MW-18-1 11/1/2006	MW-18-1 4/19/2007	MW-18-1 12/4/2007	MW-18-1 4/21/2008	MW-18-1 10/29/2008	MW-18-1 2/9/2009	MW-18-1 5/15/2009	MW-18-1 7/20/2009	MW-18-1 10/21/2009	MW-18-1 10/27/2010	MW-18-1 6/16/2011	MW-18-1 11/20/2013	MW-18-1 10/24/2014	MW-18-1 11/17/2015	MW-18-2 4/12/2006	MW-18-2 11/1/2006	MW-18-2 4/19/2007	MW-18-2 12/4/2007	MW-18-2 4/21/2008	MW-18-2 10/29/2008	MW-18-2 2/9/2009	MW-18-2 5/15/2009	MW-18-2 7/20/2009	MW-18-2 10/21/2009	MW-18-2 10/27/2010	MW-18-2 6/16/2011	MW-18-2 11/20/2013	MW-18-2 10/24/2014	MW-18-2 11/17/2015
Analyte	Unit																														
Volatile Organics																															
1,1,1-trichloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,1,2,2-tetrachloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-trichloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-dichloroethane	µg/L	0.32 J	0.3 J	0.5 U	0.32 J	0.38 J	0.5 U	0.73	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.61	0.94	0.19 J	0.19 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.78	0.71
1,1-dichloroethene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.37	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-trichlorobenzene	µg/L	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-trichlorobenzene	µg/L	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-dibromo-3-chloropropane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-dibromoethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-dichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-dichloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-dichloropropane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-dichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-dichlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-dioxane	µg/L	20 R	2 U	NR	2.1 U	0.73 J	2.1 U	2.1 U	2.3 U	2 U	2 U	2 U	2.2 U	2.0 U	-	2.0 U	20 R	2 U	NR	2 U	0.98 J	2.2 U	2.1 U	2 U	2.1 U	2 U	2.1 U	2.2 U	2.0 U	-	2.0 U
2-butanone	µg/L	5 U	5 U	5 U J	5 U J	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-hexanone	µg/L	5 U	5 U	5 U J	5 U J	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U J	5 U	5 U	5 U	5 U	5 U J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-methyl-2-pentanone	µg/L	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
acetone	µg/L	5 U	5 U	5 U J	5 U J	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U J	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
benzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
bromochloromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
bromodichloromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bromoform	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bromomethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UL	0.5 U	0.5 U	0.5 U
carbon disulfide	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
carbon tetrachloride	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chlorobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chloroform	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chloromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-dichloroethene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-dichloropropene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cyclohexane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
dibromochloromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
dichlorodifluoromethane	µg/L	0.5 U	0.5 U	2 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UL	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UL	0.5 U	0.5 U	0.5 U
ethane, 1-chloro-1,1-difluoro	µg/L	-	-	-	-	0.5 U	0.5 U	0.5 U	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	-	-	-	-	0.5 U	0.5 U	0.5 U	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ethylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
isopropylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m,p-xylene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
methyl acetate	µg/L	0.5 U	0.5 U	0.5 U J	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U																						

Notes:

Bold values indicate that the constituent was detected
Highlighted values exceed cleanup standards for contaminants of concern (5 ug/l for primary COCs, 50 ug/l for 1,4-dioxane)
Total VOCs was calculated by summing the detected concentrations of 1,1,1-trichloroethane; 1,1-dichloroethane; 1,1-dichloroethene; and trichloroethene

Laboratory Qualifiers

U = The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CROL) for sample and method.

J = The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CROL).

R = The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

N = The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

K = Off-scale low. Actual value is known to be less than the value given.

L = Off-scale high. Actual value is known to be greater than value given.

Acronyms and Abbreviations

- = Not analyzed

ug/L = micrograms per liter

$\mu\text{S}/\text{cm}$ = micro-Siemens per centimeter

C = Celsius

MeV = Mega-electron volt

mg/L = milligrams per liter

mL/min = milliliters per minute

NA = Not applicable

NE = Not established

NS = Not sampled

NTU = Nephelometric Turbidity Unit

VOCs = Volatile Organic Compounds

Appendix D
November 2015 Sampling Trip Report



MANAGING THE VISION® | ENVIRONMENTAL | FACILITIES | LOGISTICS

Contract No. W912DQ-12-D-3011

November 30, 2015

Ms. Christina Leung
Regional Sample Control Center
US Environmental Protection Agency, Region 2
2890 Woodbridge Avenue
MS 103
Edison, New Jersey 08837-3679

RE: Sampling Trip Report and CLP Paperwork
Mohonk Road Industrial Plant, High Falls, New York
Week of November 16, 2015; RAS Case Number 45812
Document Control Number W13011-0002-0007

Dear Ms. Leung:

Please find enclosed the Sampling Trip Report and CLP Paperwork for the sampling conducted the week of November 16, 2015, at the Mohonk Road Industrial Plant, High Falls, New York. The samples were collected under RAS Case Number 45812 and were shipped to KAP Technologies.

Thank you for your time and consideration. If there are any questions on the attached trip report, please contact me at (404) 419-4086.

Very truly yours,

A handwritten signature in black ink that reads "Michael Profit". The signature is written in a cursive, flowing style.

Michael Profit
Project Manager

Enclosure

cc: A. Chirpich – USACE, Kansas City District
D. Duda - EPA Region 2

SAMPLING TRIP REPORT

Site Name: Mohonk Road Industrial Plant
Site Location: High Falls, New York
CERCLIS Code: NYD986950012
Sampling Dates: 11/16/2015 – 11/20/2015
EPA Case Number: 45812
Sample Descriptions: See Tables 1 and 2 attached

Laboratory Receiving Samples:

Sample Type

CLP TCL Trace Volatile Organic Compounds
(TVOC) and 1,4-dioxane (MA 2527.1)

Name and Address of Laboratory

KAP Technologies, Inc.
9391 Grogans Mill Road, Suite A2
The Woodlands, TX 77380

Sample Dispatch Data:

Nineteen (19) groundwater samples and two (2) aqueous field blanks (rinsates) were sent for trace volatile organic compounds (TVOC) and 1,4 dioxane analyses and two (2) aqueous trip blanks were sent for TVOC analyses to KAP Technologies via Federal Express (FedEx) airbill number 7750011764200 on 18 November 2015 at 0900 hours.

Eighteen (18) groundwater samples and two (2) aqueous field blanks (rinsates) were sent for TVOC and 1,4 dioxane analyses and two (2) aqueous trip blanks were sent for TVOC analyses to KAP Technologies via FedEx airbill number 775021583635 on 19 November 2015 at 2030 hours.

Two (2) groundwater samples and one (1) aqueous field blank (rinsate) were sent for TVOC and 1,4 dioxane analyses and one (1) aqueous trip blank was sent for TVOC analyses to KAP Technologies via FedEx airbill number 806445890783 on 20 November 2015 at 1700 hours.

Sampling Personnel:

Alex Valli and Kennedy Lugo – Tetra Tech, Inc.
Terence Chuhay – J. M. Waller Associates, Inc.

Additional Comments:

There were no laboratory quality control (QC) samples submitted.

Field QC sample associations are as follows:

Analysis	Trip Blank	Field Rinsate Blank	Date	Associated Samples
TVOC	BC3Q0	Not applicable (FLUTe samples)	11/16/15	BC3N8, BC3P0, BC3N9, BC3P1, BC3P2, and BC3P3
TVOC and 1,4-dioxane	BC3Q0	BC3Q1	11/16/15	BC3L1, BC3L8, BC3M1
TVOC	BC3Q7	Not applicable (FLUTe samples)	11/17/15	BC3N2, BC3N3, BC3N4, BC3N5, BC3N6, and BC3N7
TVOC and 1,4-dioxane	BC3Q7	BC3R2	11/17/15	BC3M4, BC3M9, BC3L6, and BC3M2
TVOC	BC3Q8	Not applicable (FLUTe samples)	11/18/15	BC3P4, BC3P5, BC3P7, BC3P8, and BC3P9
TVOC and 1,4-dioxane	BC3Q8	BC3R3	11/18/15	BC3M7, BC3Q2, BC3N0, BC3R6, BC3N1, BC3L5
TVOC and 1,4-dioxane	BC3Q9	BC3R4	11/19/15	BC3L2, BC3L3, BC3R8, BC3L4, BC3M6, BC3L7, and BC3L9
TVOC and 1,4-dioxane	BC3R0	BC3R5	11/20/15	BC3M3, BC3M8

Report Typed By:

Terence Chuhay – 11/24/15

Report Reviewed By:

Michael Profit – 11/30/15

Table 1
Case Number 45812
Trace Volatile Organic Compounds
November 16-20, 2015
Mohonk Road Industrial Plant, High Falls, NY

	Sample No.	Sample Date	Sample Time	RAS Case No.	Chain of Custody No.	Federal Express Airbill No.	Shipment Date	Matrix	Analyses	Sample No.	Location
1	BC3L1	11/16/2015	15:25	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	ERT-1	ERT-1
2	BC3L2	11/19/2015	10:40	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	ERT-2	ERT-2
3	BC3L3	11/19/2015	9:00	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	ERT-3	ERT-3
4	BC3R8	11/19/2015	9:30	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	ERT-3X	ERT-3 Duplicate
5	BC3L4	11/19/2015	13:55	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	ERT-4	ERT-4
6	BC3M4	11/17/2015	14:04	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-10B	MW-10B
7	BC3M6	11/19/2015	12:30	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	MW-11B	MW-11B
8	BC3M7	11/18/2015	15:10	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	MW-11C	MW-11C
9	BC3M8	11/20/2015	9:25	45812	2-112015-151712-0004	806445890783	11/20/2015	Groundwater	CLP Trace Volatiles	MW-12B	MW-12B
10	BC3Q2	11/18/2015	8:40	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	MW-13B	MW-13B
11	BC3M9	11/17/2015	16:25	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-14B	MW-14B
12	BC3N0	11/18/2015	11:20	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	MW-15B	MW-15B
13	BC3R6	11/18/2015	11:30	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	MW-15BX	MW-15B Duplicate
14	BC3N1	11/18/2015	12:35	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	MW-16	MW-16
15	BC3N2	11/17/2015	15:20	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-17-1	MW-17
16	BC3N3	11/17/2015	15:27	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-17-2	MW-17
17	BC3N4	11/17/2015	15:35	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-17-3	MW-17
18	BC3N5	11/17/2015	12:40	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-18-1	MW-18
19	BC3N6	11/17/2015	12:45	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-18-2	MW-18
20	BC3N7	11/17/2015	12:50	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-18-3	MW-18
21	BC3N8	11/16/2015	13:14	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-19-1	MW-19
22	BC3P0	11/16/2015	13:20	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-19-2	MW-19
23	BC3N9	11/16/2015	13:29	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-19-3	MW-19
24	BC3L5	11/18/2015	15:30	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	MW-1B	MW-1B
25	BC3P1	11/16/2015	16:20	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-20-1	MW-20
26	BC3P2	11/16/2015	16:35	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-20-2	MW-20
27	BC3P3	11/16/2015	16:47	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-20-3	MW-20
28	BC3P4	11/18/2015	10:55	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	MW-21-1	MW-21
29	BC3P5	11/18/2015	11:05	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	MW-21-2	MW-21
30	BC3P7	11/18/2015	11:15	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	MW-21-4	MW-21
31	BC3P8	11/18/2015	13:40	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	MW-21-5	MW-21
32	BC3P9	11/18/2015	13:50	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	MW-21-6	MW-21
33	BC3L6	11/17/2015	16:10	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-4	MW-4
34	BC3L7	11/19/2015	12:35	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	MW-5B	MW-5B
35	BC3L8	11/16/2015	15:00	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-5R	MW-5R
36	BC3L9	11/19/2015	15:40	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP Trace Volatiles	MW-6B	MW-6B
37	BC3M1	11/16/2015	15:40	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-7R	MW-7R
38	BC3M2	11/17/2015	11:35	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP Trace Volatiles	MW-8B	MW-8B
39	BC3M3	11/20/2015	10:15	45812	2-112015-151712-0004	806445890783	11/20/2015	Groundwater	CLP Trace Volatiles	MW-9B	MW-9B
40	BC3Q1	11/16/2015	9:00	45812	2-111715-191159-0001	775001764200	11/18/2015	Field QC	CLP Trace Volatiles	QAFB111615	Rinsate Blank
41	BC3R2	11/17/2015	9:00	45812	2-111715-191159-0001	775001764200	11/18/2015	Field QC	CLP Trace Volatiles	QAFB111715	Rinsate Blank
42	BC3R3	11/18/2015	9:00	45812	2-111815-071019-0002	775021583635	11/19/2015	Field QC	CLP Trace Volatiles	QAFB111815	Rinsate Blank

Table 1
Case Number 45812
Trace Volatile Organic Compounds
November 16-20, 2015
Mohonk Road Industrial Plant, High Falls, NY

	Sample No.	Sample Date	Sample Time	RAS Case No.	Chain of Custody No.	Federal Express Airbill No.	Shipment Date	Matrix	Analyses	Sample No.	Location
43	BC3R4	11/19/2015	9:00	45812	2-111815-071019-0002	775021583635	11/19/2015	Field QC	CLP Trace Volatiles	QAFB111915	Rinsate Blank
44	BC3R5	11/20/2015	9:00	45812	2-112015-151712-0004	806445890783	11/20/2015	Field QC	CLP Trace Volatiles	QAFB112015	Rinsate Blank
45	BC3Q0	11/16/2015	8:00	45812	2-111715-191159-0001	775001764200	11/18/2015	Field QC	CLP Trace Volatiles	QATB111615	Trip Blank
46	BC3Q7	11/17/2015	8:00	45812	2-111715-191159-0001	775001764200	11/18/2015	Field QC	CLP Trace Volatiles	QATB111715	Trip Blank
47	BC3Q8	11/18/2015	8:00	45812	2-111815-071019-0002	775021583635	11/19/2015	Field QC	CLP Trace Volatiles	QATB111815	Trip Blank
48	BC3Q9	11/19/2015	8:00	45812	2-111815-071019-0002	775021583635	11/19/2015	Field QC	CLP Trace Volatiles	QATB111915	Trip Blank
49	BC3R0	11/20/2015	8:00	45812	2-112015-151712-0004	806445890783	11/20/2015	Field QC	CLP Trace Volatiles	QATB112015	Trip Blank

Note: All samples shipped to KAP Technologies, Inc. in The Woodlands, Texas

Table 2
Case Number 45812
Trace 1,4 dioxane (MA 2527.1)
November 16-20, 2015
Mohonk Road Industrial Plant, High Falls, NY

	Sample No.	Sample Date	Sample Time	RAS Case No.	Chain of Custody No.	Federal Express Airbill No.	Shipment Date	Matrix	Analyses	Sample No.	Location
1	BC3L1	11/16/2015	15:25	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	ERT-1	ERT-1
2	BC3L2	11/19/2015	10:40	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	ERT-2	ERT-2
3	BC3L3	11/19/2015	9:00	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	ERT-3	ERT-3
4	BC3R8	11/19/2015	9:30	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	ERT-3X	ERT-3 Duplicate
5	BC3L4	11/19/2015	13:55	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	ERT-4	ERT-4
6	BC3M4	11/17/2015	14:04	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-10B	MW-10B
7	BC3M6	11/19/2015	12:30	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-11B	MW-11B
8	BC3M7	11/18/2015	15:10	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-11C	MW-11C
9	BC3M8	11/20/2015	9:25	45812	2-112015-151712-0004	806445890783	11/20/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-12B	MW-12B
10	BC3Q2	11/18/2015	8:40	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-13B	MW-13B
11	BC3M9	11/17/2015	16:25	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-14B	MW-14B
12	BC3N0	11/18/2015	11:20	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-15B	MW-15B
13	BC3R6	11/18/2015	11:30	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-15BX	MW-15B Duplicate
14	BC3N1	11/18/2015	12:35	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-16	MW-16
15	BC3N2	11/17/2015	15:20	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-17-1	MW-17
16	BC3N3	11/17/2015	15:27	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-17-2	MW-17
17	BC3N4	11/17/2015	15:35	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-17-3	MW-17
18	BC3N5	11/17/2015	12:40	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-18-1	MW-18
19	BC3N6	11/17/2015	12:45	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-18-2	MW-18
20	BC3N7	11/17/2015	12:50	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-18-3	MW-18
21	BC3N8	11/16/2015	13:14	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-19-1	MW-19
22	BC3P0	11/16/2015	13:20	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-19-2	MW-19
23	BC3N9	11/16/2015	13:29	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-19-3	MW-19
24	BC3L5	11/18/2015	15:30	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-1B	MW-1B
25	BC3P1	11/16/2015	16:20	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-20-1	MW-20
26	BC3P2	11/16/2015	16:35	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-20-2	MW-20
27	BC3P3	11/16/2015	16:47	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-20-3	MW-20
28	BC3P4	11/18/2015	10:55	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-21-1	MW-21
29	BC3P5	11/18/2015	11:05	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-21-2	MW-21
30	BC3P7	11/18/2015	11:15	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-21-4	MW-21
31	BC3P8	11/18/2015	13:40	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-21-5	MW-21
32	BC3P9	11/18/2015	13:50	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-21-6	MW-21
33	BC3L6	11/17/2015	16:10	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-4	MW-4
34	BC3L7	11/19/2015	12:35	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-5B	MW-5B
35	BC3L8	11/16/2015	15:00	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-5R	MW-5R
36	BC3L9	11/19/2015	15:40	45812	2-111815-071019-0002	775021583635	11/19/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-6B	MW-6B
37	BC3M1	11/16/2015	15:40	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-7R	MW-7R
38	BC3M2	11/17/2015	11:35	45812	2-111715-191159-0001	775001764200	11/18/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-8B	MW-8B
39	BC3M3	11/20/2015	10:15	45812	2-112015-151712-0004	806445890783	11/20/2015	Groundwater	CLP MA 2527.1 SVOC 1,4 dioxane	MW-9B	MW-9B
40	BC3Q1	11/16/2015	9:00	45812	2-111715-191159-0001	775001764200	11/18/2015	Field QC	CLP MA 2527.1 SVOC 1,4 dioxane	QAFB111615	Rinsate Blank
41	BC3R2	11/17/2015	9:00	45812	2-111715-191159-0001	775001764200	11/18/2015	Field QC	CLP MA 2527.1 SVOC 1,4 dioxane	QAFB111715	Rinsate Blank
42	BC3R3	11/18/2015	9:00	45812	2-111815-071019-0002	775021583635	11/19/2015	Field QC	CLP MA 2527.1 SVOC 1,4 dioxane	QAFB111815	Rinsate Blank

Table 2
Case Number 45812
Trace 1,4 dioxane (MA 2527.1)
November 16-20, 2015
Mohonk Road Industrial Plant, High Falls, NY

	Sample No.	Sample Date	Sample Time	RAS Case No.	Chain of Custody No.	Federal Express Airbill No.	Shipment Date	Matrix	Analyses	Sample No.	Location
43	BC3R4	11/19/2015	9:00	45812	2-111815-071019-0002	775021583635	11/19/2015	Field QC	CLP MA 2527.1 SVOC 1,4 dioxane	QAFB111915	Rinsate Blank
44	BC3R5	11/20/2015	9:00	45812	2-112015-151712-0004	806445890783	11/20/2015	Field QC	CLP MA 2527.1 SVOC 1,4 dioxane	QAFB112015	Rinsate Blank

Note: All samples shipped to KAP Technologies, Inc. in The Woodlands, Texas

Appendix E

COC Concentrations Trend Graphs

Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, **provide at least four rounds** and **not more than ten rounds of data** that is **not seasonally affected**. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "**DATA ERR**" or "**DATE ERR**" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation from the governing regulatory agencies for the site and applicable guidance for recommendations on data entry for non-detect values (**See protocol at bottom of worksheet**).

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To avoid biasing the Mann-Kendall test, **the same value for all ND results must be entered** in the spreadsheet for a given compound. This is to make sure that any identified trends are data trends and not trends of laboratory detection limits. **SEE PROTOCOL AT BOTTOM OF WORKSHEET !**

Site Name = Mohonk Road Industrial Plant Superfund Site	Site ID No. = 02LG	Well Number = ERT-1

	Compound ->	1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	December-1999	1200	36	130	53		
2	December-2000	390	29	87	34		
3	January-2003	506	22	78	24		
4	October-2006	170	17	36	13	8.6	
5	December-2007	330	49	32	2.1	1	
6	October-2008	110	14	39	11	5	
7	October-2010	48	11	22	5.7	1	
8	November-2013	310	32	82	15	1	
9	October-2014	18	7.1	11	2.3		
10	November-2015	53	12	17	4.2	2.8	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-31 10 313.50 352.255 1.124	-23 10 22.91 13.324 0.582	-29 10 53.40 38.725 0.725	-27 10 16.43 16.386 0.997	-4 6 3.23 3.068 0.949	0 0 #DIV/0! #DIV/0! #DIV/0!

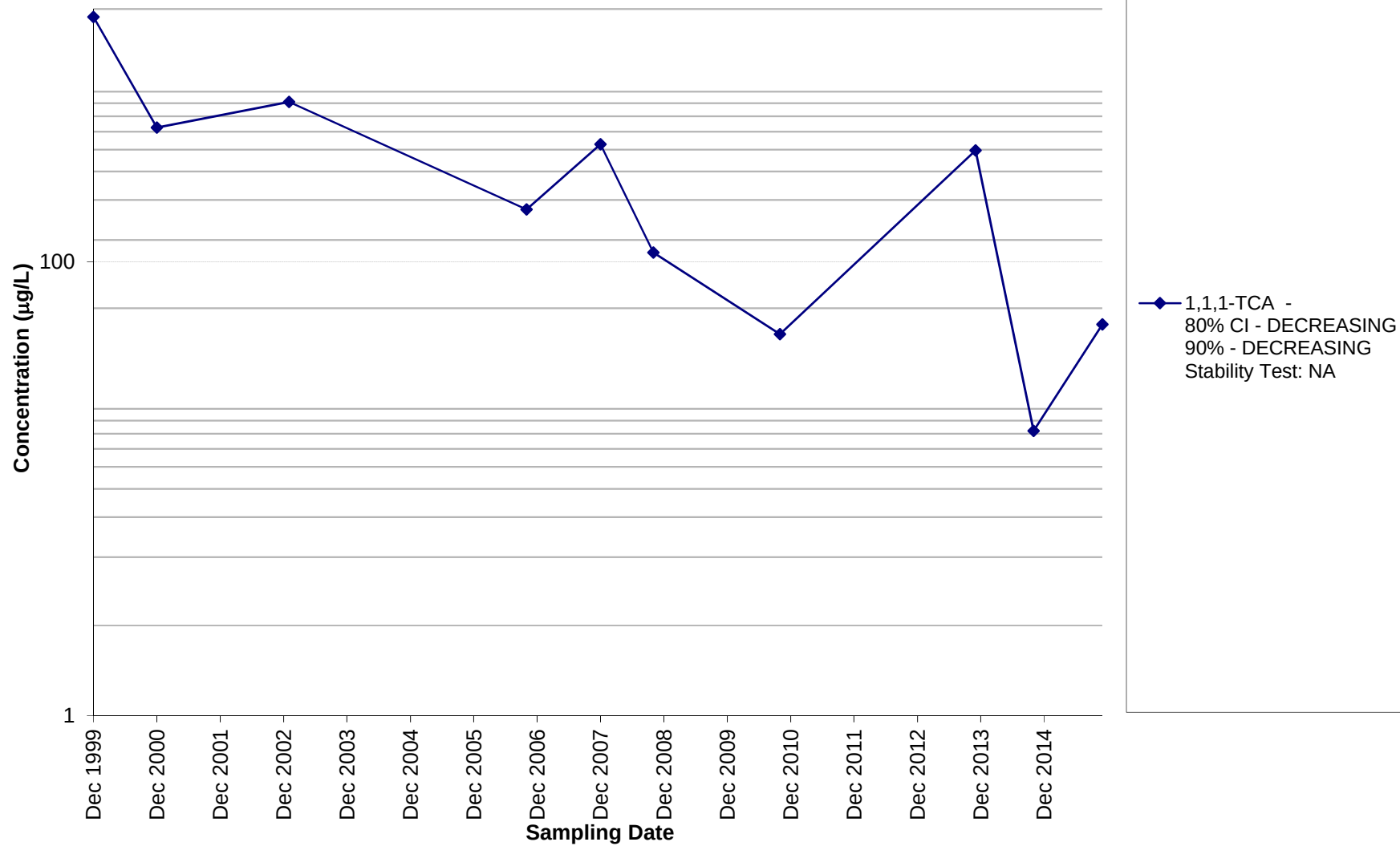
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4
Trend = 90% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4

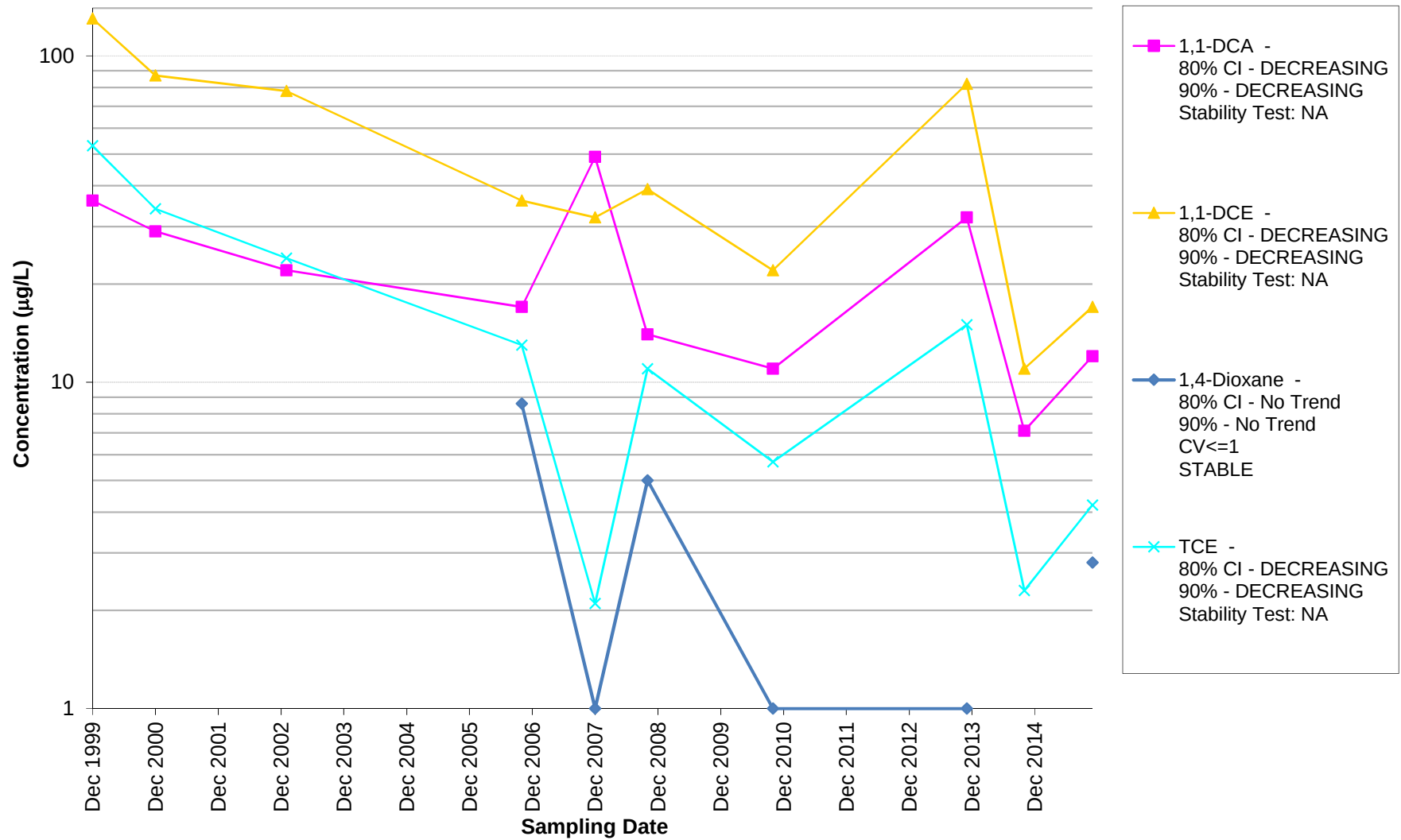
Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	NA	NA	CV<=1 STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for ERT-1 [1,1,1-TCA Only]



Mann-Kendall Test for ERT-1 [Other Constituents]



Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Site Name = Mohonk Road Industrial Plant Superfund Stie	Site ID No. = 02LG	Well Number = ERT-2

	Compound ->	1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	420	15	5	12		
2	December-2000	220	12	21	7		
3	January-2003	202	10	34	13		
4	October-2005	150	12	12	8.4	21	
5	October-2006	7.5	0.48	1.7	1.4	2.1	
6	October-2008	65	21	49	11	4.9	
7	October-2010	29	5.8	11	3	1	
8	November-2013	22	9.2	16	3.7	2.2	
9	October-2014	21	7.3	15	5		
10	November-2015	7	2	2.2	0.58	1	

Mann Kendall Statistic (S) =	-37	-20	-5	-21	-8	0
Number of Rounds (n) =	10	10	10	10	6	0
Average =	114.35	9.48	16.69	6.51	5.37	#DIV/0!
Standard Deviation =	134.759	6.069	14.874	4.472	7.790	#DIV/0!
Coefficient of Variation(CV)=	1.178	0.640	0.891	0.687	1.452	#DIV/0!

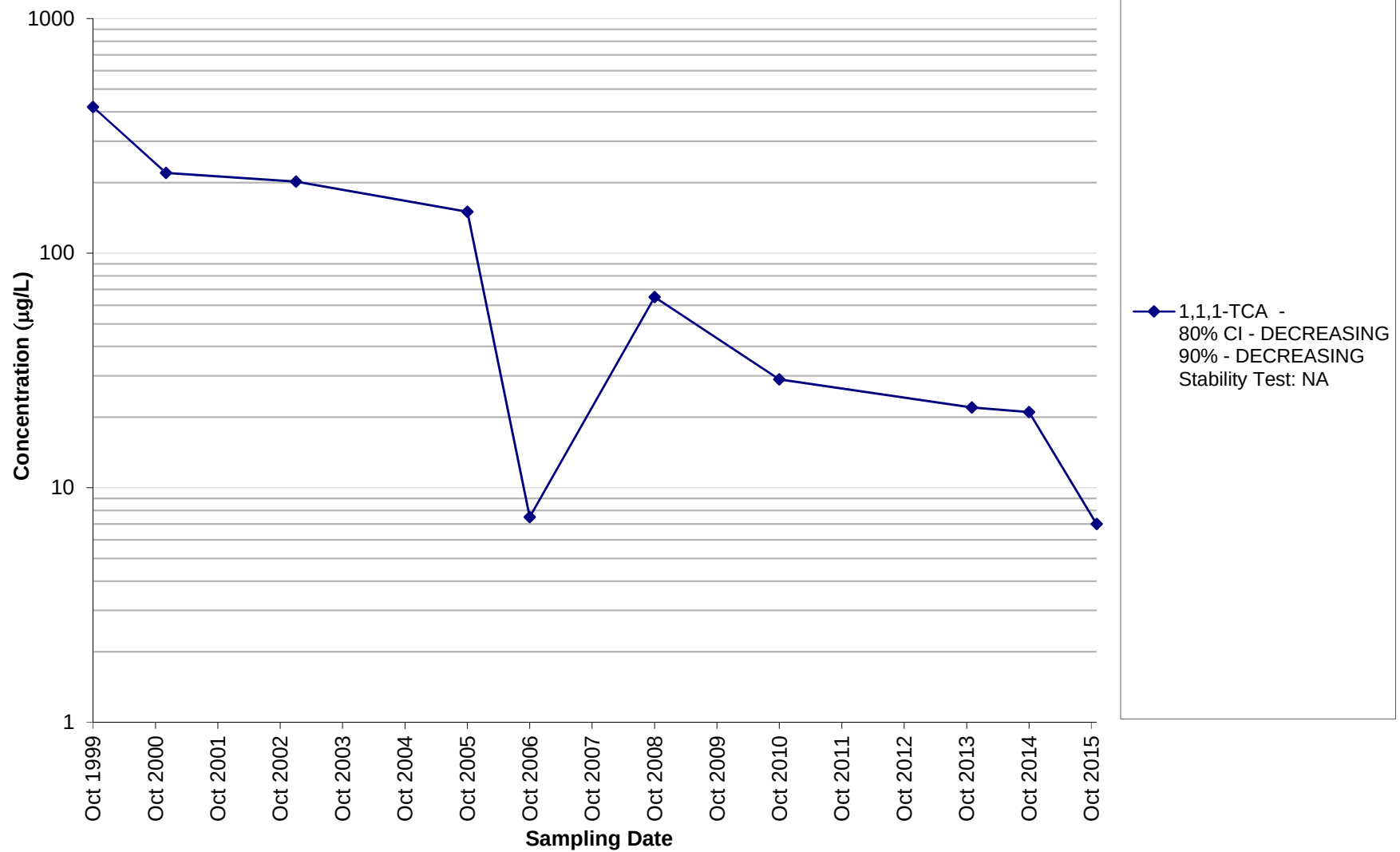
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	No Trend	DECREASING	DECREASING	N<4
Trend = 90% Confidence Level	DECREASING	DECREASING	No Trend	DECREASING	DECREASING	N<4

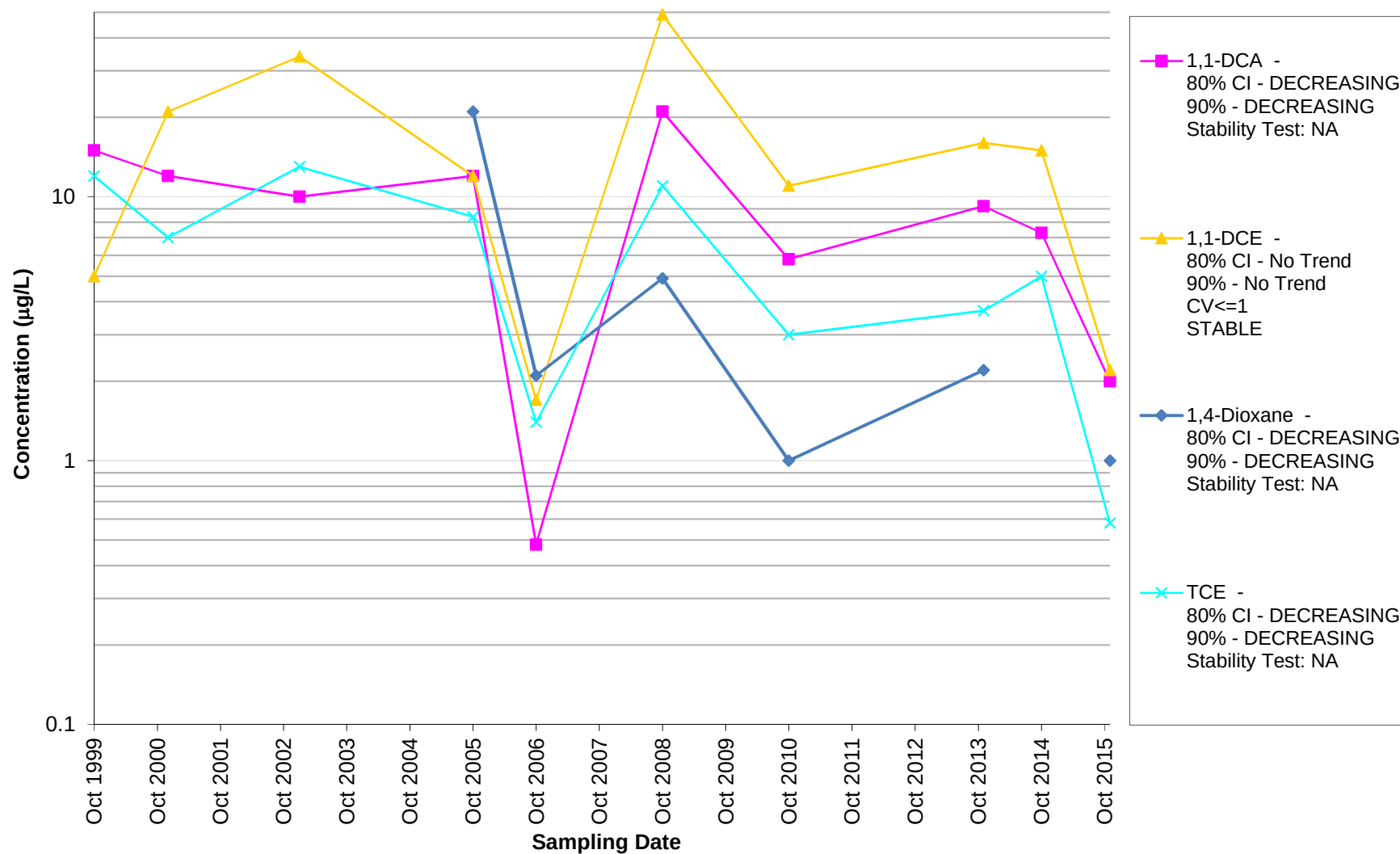
Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	CV<=1 STABLE	NA	NA	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for ERT-2 [1,1,1-TCA Only]



Mann-Kendall Test for ERT-2 [Other Constituents]



Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Error Messages: There is a section below the data entry screen that describes data entry errors in more detail and which cell has that error. Thus a user can determine what and where their error is very quickly. Note that a space is seen as text in Excel formulae.

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To avoid biasing the Mann-Kendall test, **the same value for all ND results must be entered** in the spreadsheet for a given compound. This is to make sure that any identified trends are data trends and not trends of laboratory detection limits. **SEE PROTOCOL AT BOTTOM OF WORKSHEET !**

Site Name = Mohonk Road Industrial Plant Superfund Site	Site ID No. = 02LG	Well Number = ERT-3

	Compound ->	1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	130	2	11	52		
2	December-2000	600	20	99	85		
3	January-2003	320	8	44	86		
4	October-2006	110	9.5	18	30	65	
5	December-2007	210	18	32	39	7.6	
6	October-2008	190	18	31	48	23	
7	October-2010	100	16	23	20	8.1	
8	November-2013	99	12	18	50	10	
9	October-2014	170	14	37	38		
10	November-2015	150	14.5	44.5	26.5	19.5	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-17	6	4	-19	-1	0
	10	10	10	10	6	0
	207.90	13.20	35.75	47.45	22.20	#DIV/0!
	152.962	5.478	24.919	22.562	21.912	#DIV/0!
	0.736	0.415	0.697	0.475	0.987	#DIV/0!

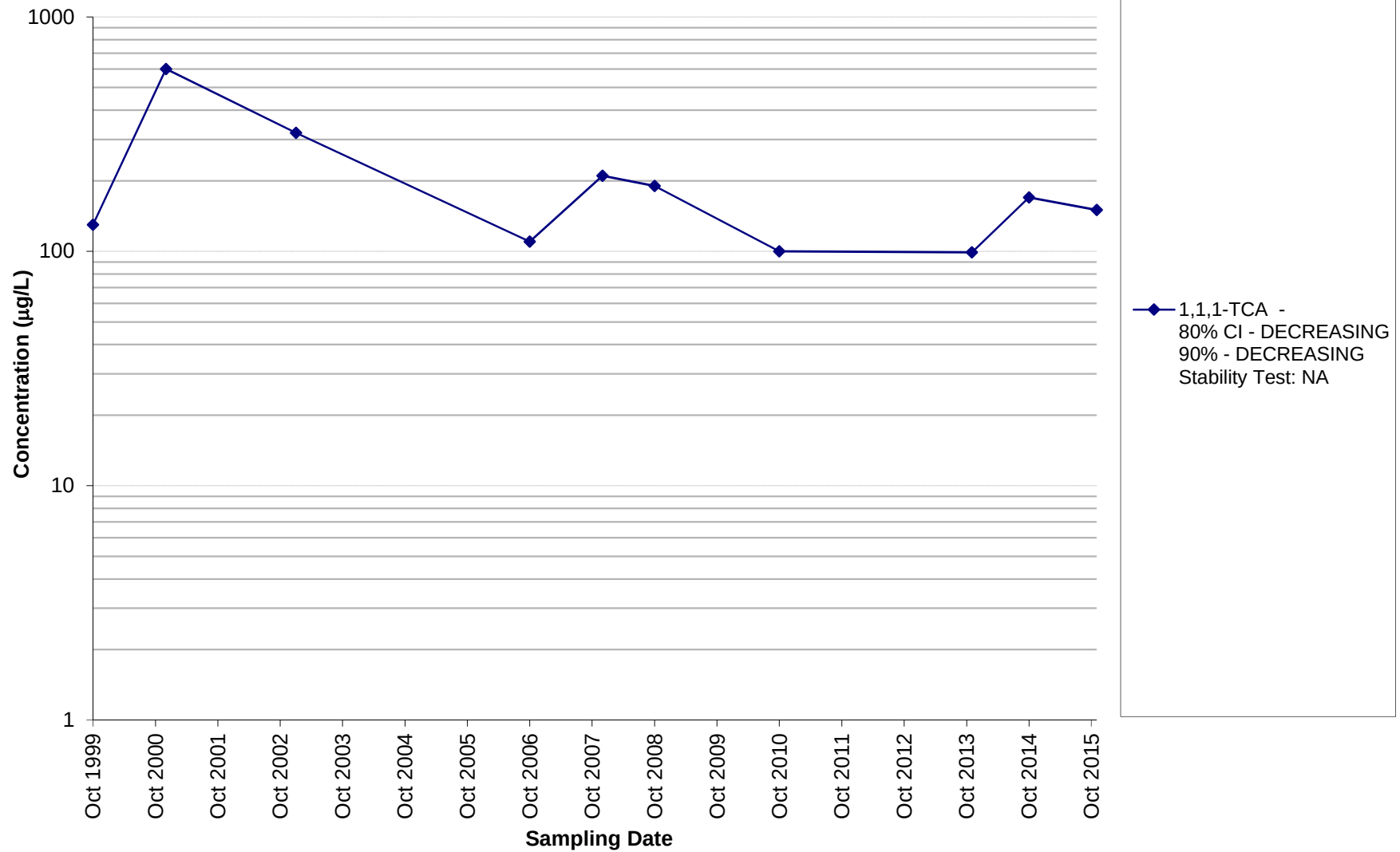
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	No Trend	No Trend	DECREASING	No Trend	N<4
Trend = 90% Confidence Level	DECREASING	No Trend	No Trend	DECREASING	No Trend	N<4

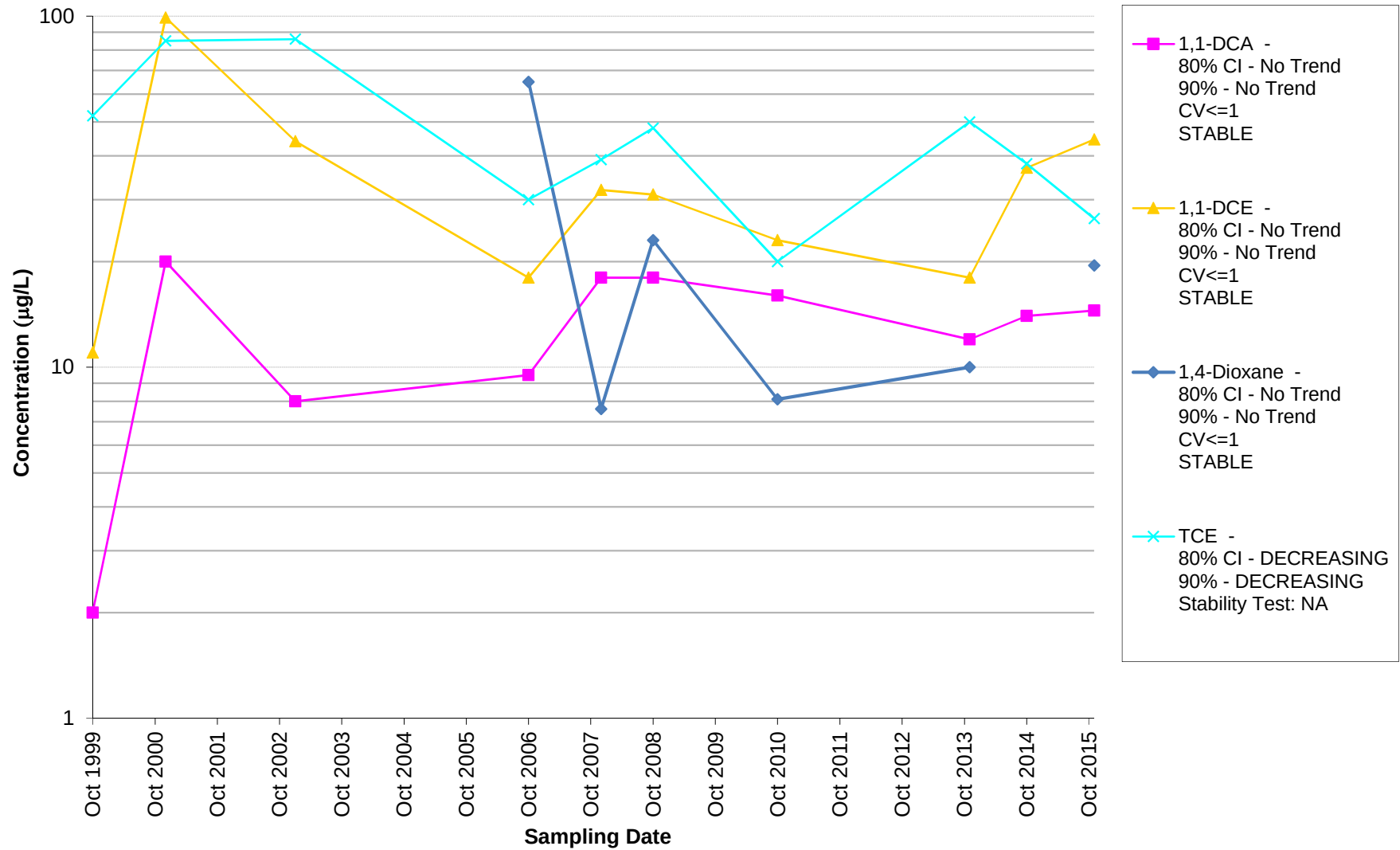
Stability Test, If No Trend Exists at 80% Confidence Level	NA	CV<=1 STABLE	CV<=1 STABLE	NA	CV<=1 STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for ERT-3 [1,1,1-TCA Only]



Mann-Kendall Test for ERT-3 [Other Constituents]



Mann-Kendall Statistical Test

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Site Name = Mohonk Road Industrial Plant Superfund Site	Site ID No. = 02LG	Well Number = ERT-4

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	6400	160	490	460		
2	December-2000	3600	190	220	390		
3	January-2003	7080	107	539	369		
4	October-2006	3500	120	270	210		
5	December-2007	8400	110	850	300	4.7	
6	October-2009	410	15	92	28	7.5	
7	October-2010	3500	94	290	170	4.8	
8	November-2013	4700	80	310	260	4.7	
9	October-2014	840	13	62	41		
10	November-2015	2100	57	280	93	3.3	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-16	-31	-9	-29	-5	0
	10	10	10	10	5	0
	4053.00	94.60	340.30	232.10	5.00	#DIV/0!
	2629.153	56.800	232.687	150.137	1.530	#DIV/0!
	0.649	0.600	0.684	0.647	0.306	#DIV/0!

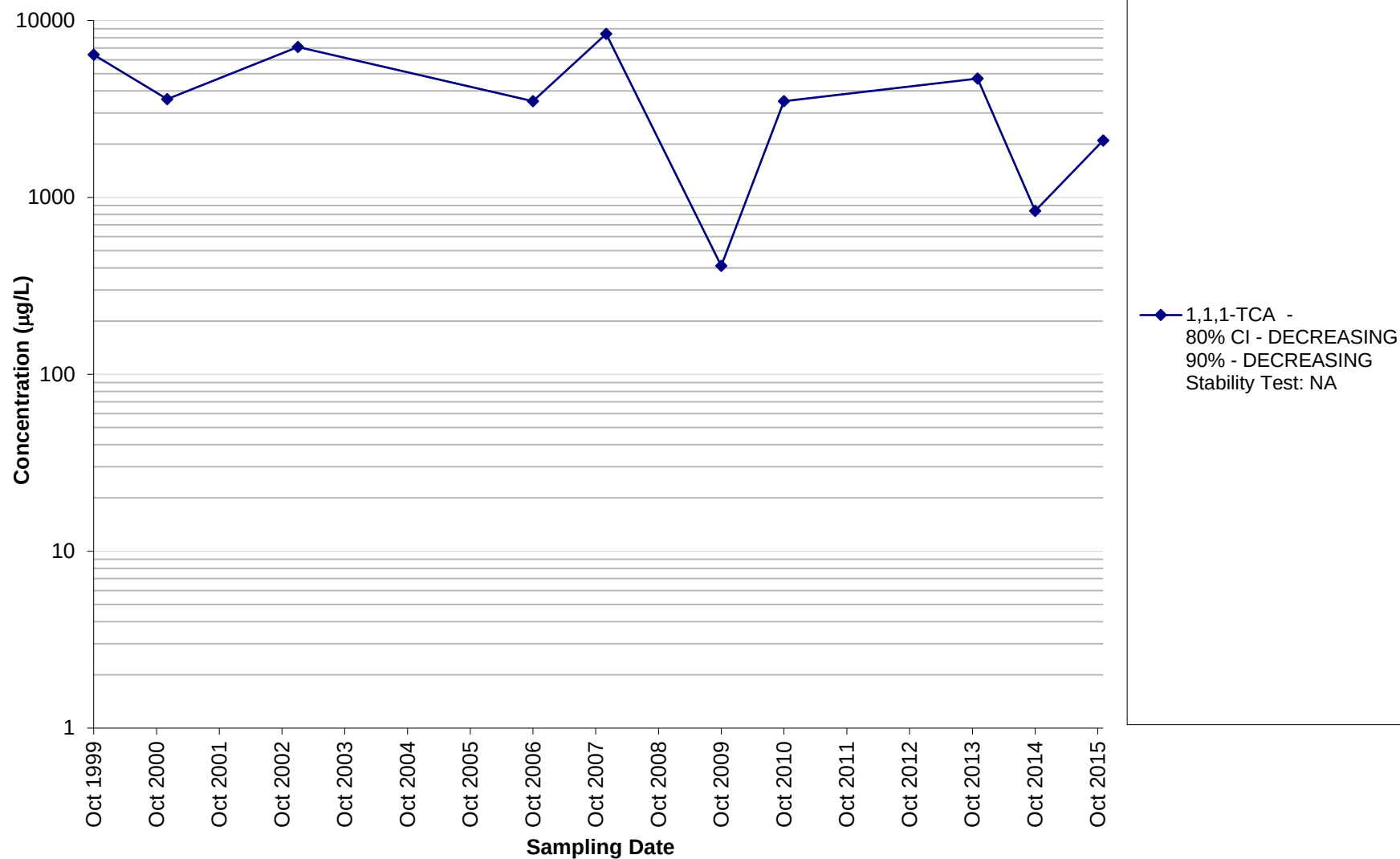
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	No Trend	DECREASING	DECREASING	N<4
Trend = 90% Confidence Level	DECREASING	DECREASING	No Trend	DECREASING	No Trend	N<4

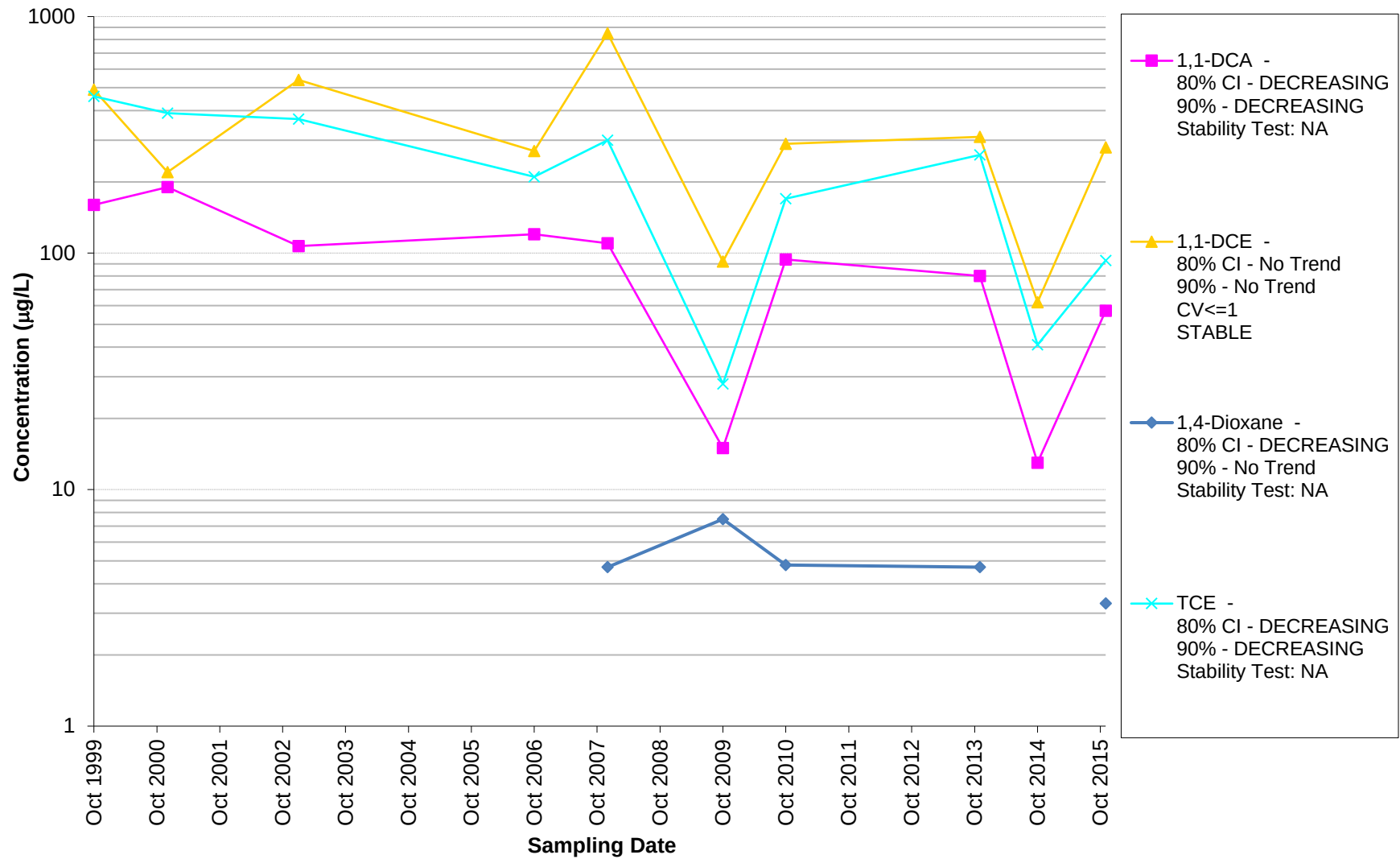
Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	CV<=1 STABLE	NA	NA	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for ERT-4 [1,1,1-TCA Only]



Mann-Kendall Test for ERT-4 [Other Constituents]



Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Error Messages: There is a section below the data entry screen that describes data entry errors in more detail and which cell has that error. Thus a user can determine what and where their error is very quickly. Note that a space is seen as text in Excel formulae.

Data Entry and Error Messages: When there are less than four rounds of data entered, instead of getting an "**ERROR**" message, only "**n<4**" is displayed. But, if **text**, a **zero** or a **negative number** is inadvertently entered, the "**ERROR**" message is displayed. Thus, during data entry, an "ERROR" message is only displayed when there actually is an error. Note that the **date must be entered before sample results collected on that date are entered** to avoid an error message.

To avoid biasing the Mann-Kendall test, **the same value for all ND results must be entered** in the spreadsheet for a given compound. This is to make sure that any identified trends are data trends and not trends of laboratory detection limits. **SEE PROTOCOL AT BOTTOM OF WORKSHEET !**

Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-1B

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	0.15	0.2	0.2	0.15		
2	December-2000	0.15	0.2	0.2	0.15		
3	January-2003	0.15	0.2	0.2	0.15		
4	October-2005	0.15	0.2	0.2	0.15	1	
5	October-2006	0.15	0.2	0.2	0.15	1	
6	October-2008	0.15	0.2	0.2	0.15	1	
7	October-2010	0.15	0.2	0.2	0.15	1	
8	November-2013	0.15	0.2	0.2	0.15	1	
9	October-2014	0.15	0.2	0.2	0.15		
10	November-2015	0.15	0.2	0.2	0.15	1	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	0	0	0	0	0	0
	10	10	10	10	6	0
	0.15	0.20	0.20	0.15	1.00	#DIV/0!
	0.000	0.000	0.000	0.000	0.000	#DIV/0!
	0.000	0.000	0.000	0.000	0.000	#DIV/0!

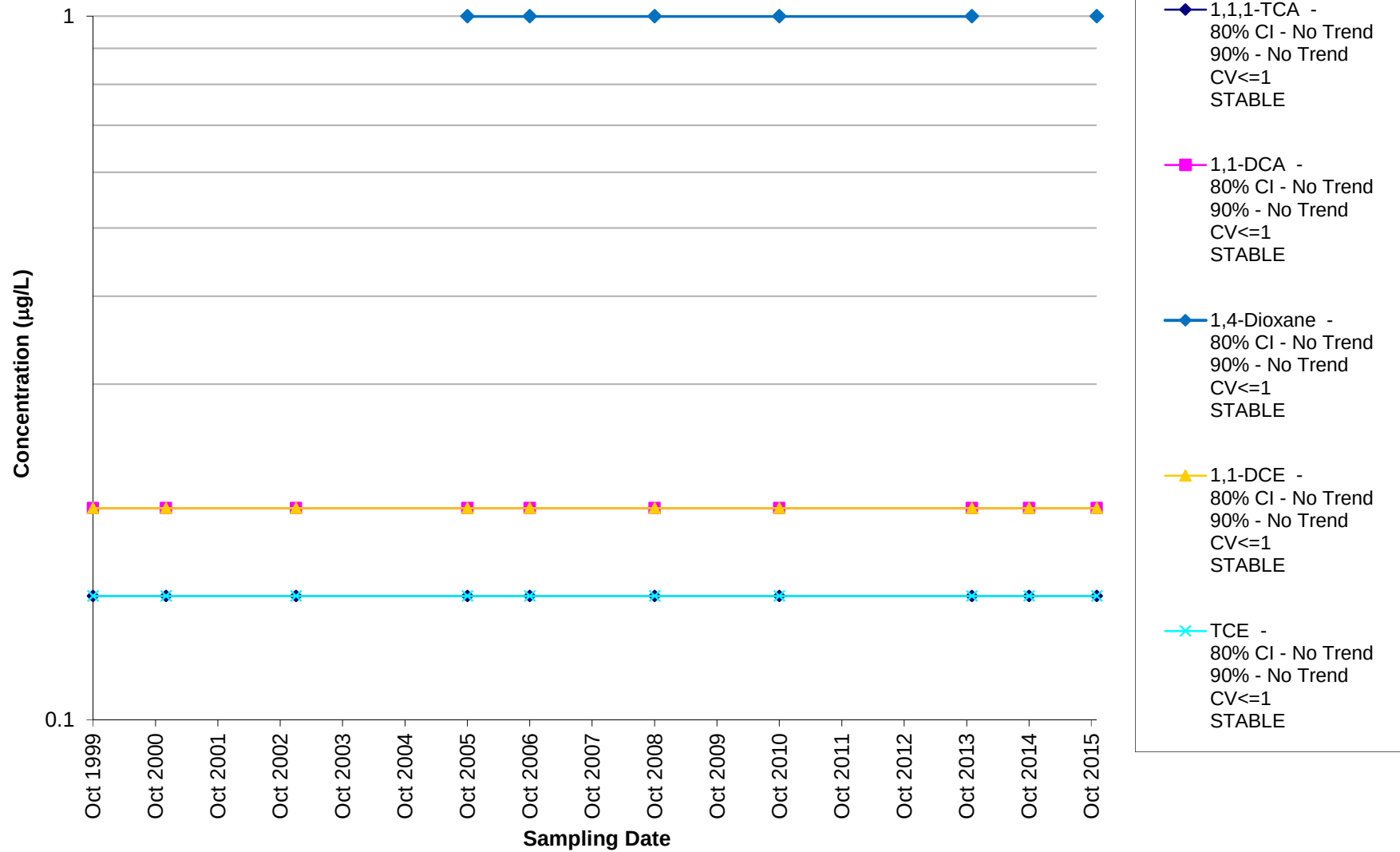
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	N<4
Trend = 90% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By = KL	Date = 2/15/2016	Checked By = LEA

Mann-Kendall Test for MRMW-1B



Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-4

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	6800	62	380	1600		
2	December-2000	4500	75	500	1600		
3	January-2003	2960	32	428	1650		
4	October-2005	820	39	100	800		
5	October-2006	1100	43	120	1100	16	
6	December-2007	1100	47	160	990	4	
7	October-2010	360	9.2	33	140	3.3	
8	November-2013	4900	50	340	480		
9	October-2014	1600	41	140	280	1	
10	November-2015	980	12	65	200	3.9	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-16	-13	-19	-30	-6	0
	10	10	10	10	5	0
	2512.00	41.02	226.60	884.00	5.64	#DIV/0!
	2183.335	20.153	168.200	598.743	5.917	#DIV/0!
	0.869	0.491	0.742	0.677	1.049	#DIV/0!

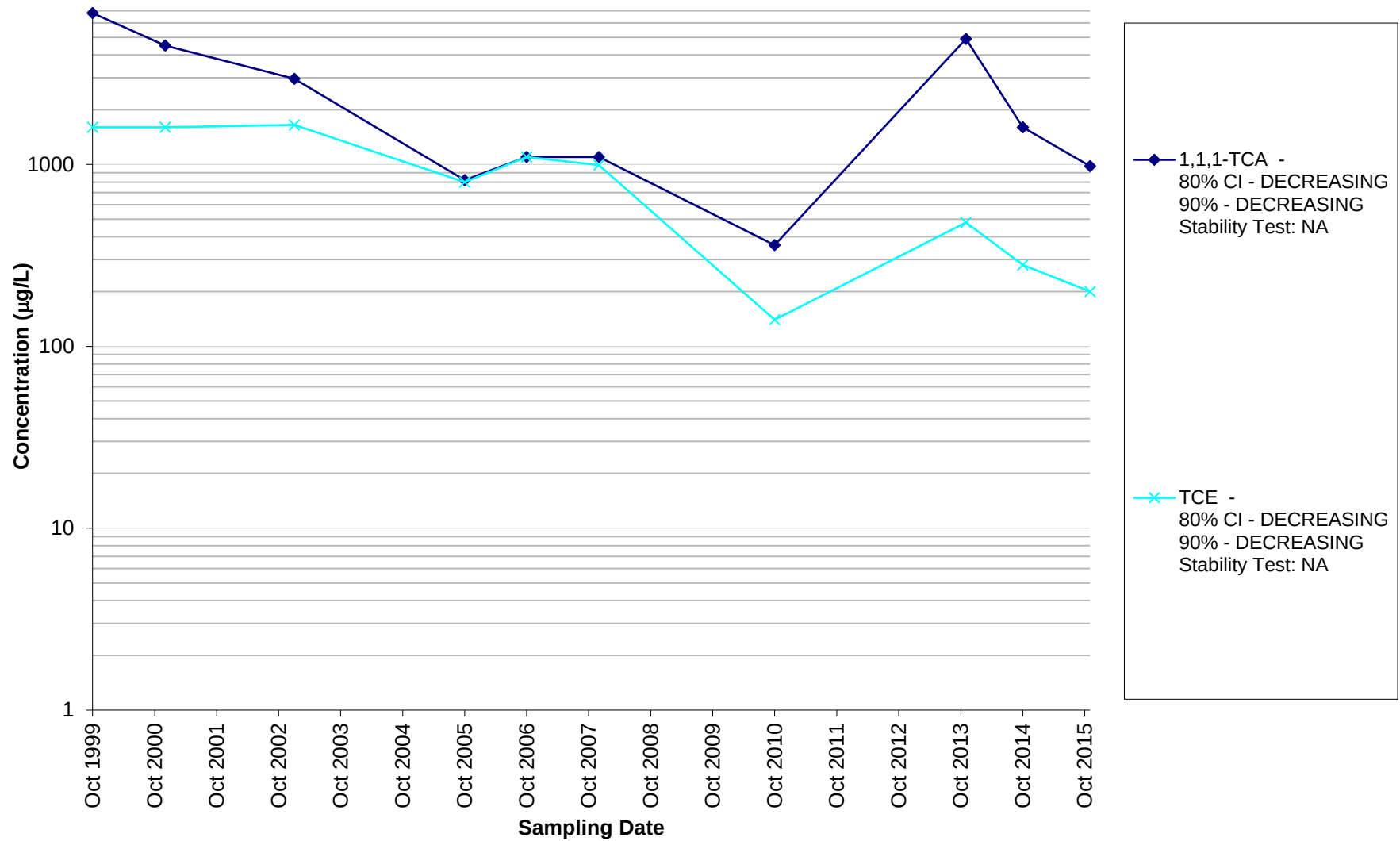
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	DECREASING	N<4
Trend = 90% Confidence Level	DECREASING	No Trend	DECREASING	DECREASING	No Trend	N<4

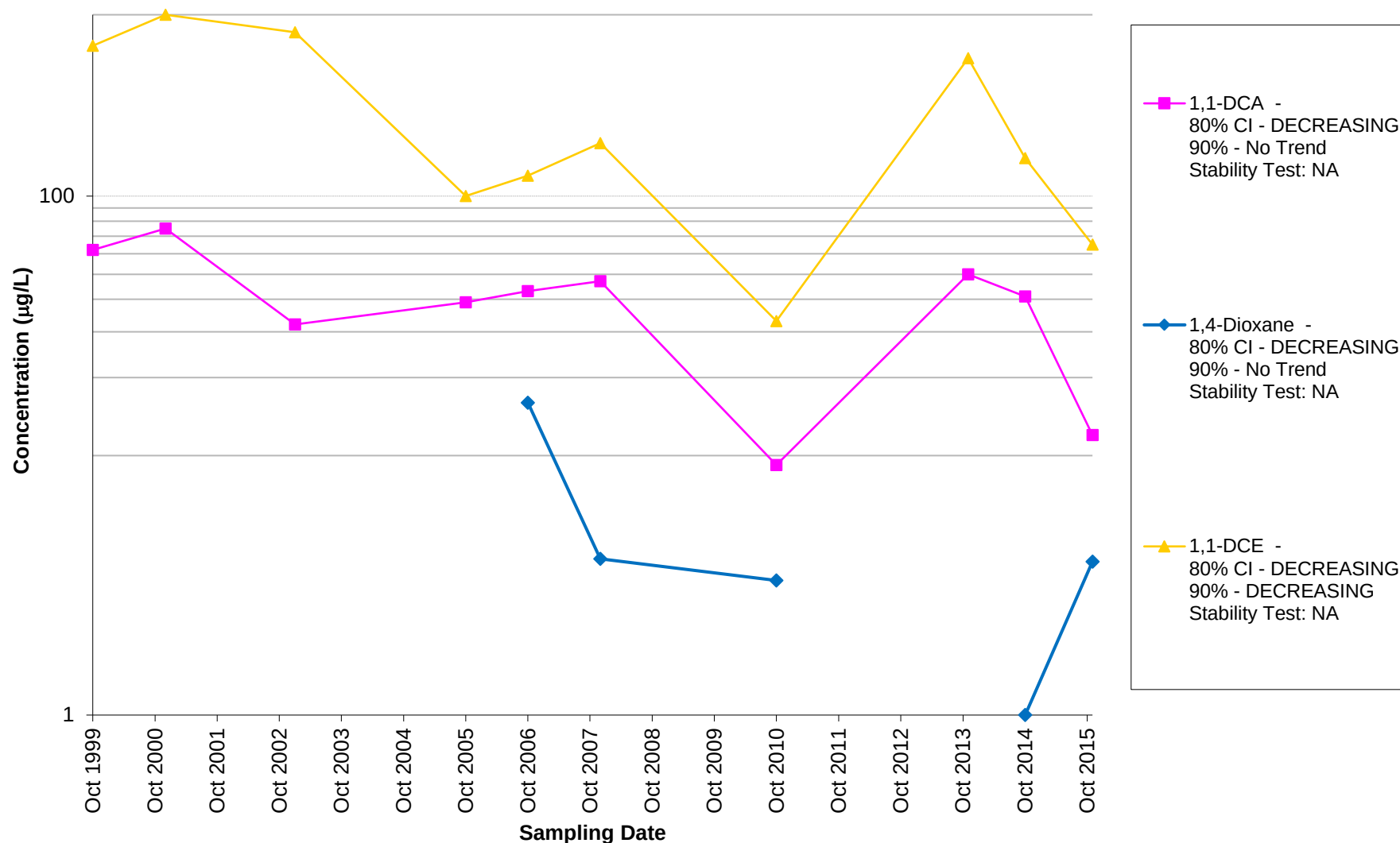
Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	NA	NA	NA	n<4 n<4

Data Entry By =	KL	Date =	2/15/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-4 [1,1,1-TCE and TCE Only]



Mann-Kendall Test for MRMW-4 [Other Constituents]



Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-5B

	Compound ->	1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	2900	50	250	130		
2	December-2000	2100	43	280	120		
3	January-2003	3030	19	445	171		
4	October-2005	1100	41	97	96	27	
5	October-2006	880	8.7	110	87	3.1	
6	October-2008	1000	24	120	70	9.7	
7	October-2010	410	10	54	31	4.5	
8	November-2013	1600	35	120	93	5	
9	October-2014	3000	48	390	180		
10	November-2015	660	13	98	23	5.7	

Mann Kendall Statistic (S) =	-15	-11	-8	-19	-1	0
Number of Rounds (n) =	10	10	10	10	6	0
Average =	1668.00	29.17	196.40	100.10	9.17	#DIV/0!
Standard Deviation =	1017.991	16.096	136.677	52.244	9.014	#DIV/0!
Coefficient of Variation(CV)=	0.610	0.552	0.696	0.522	0.983	#DIV/0!

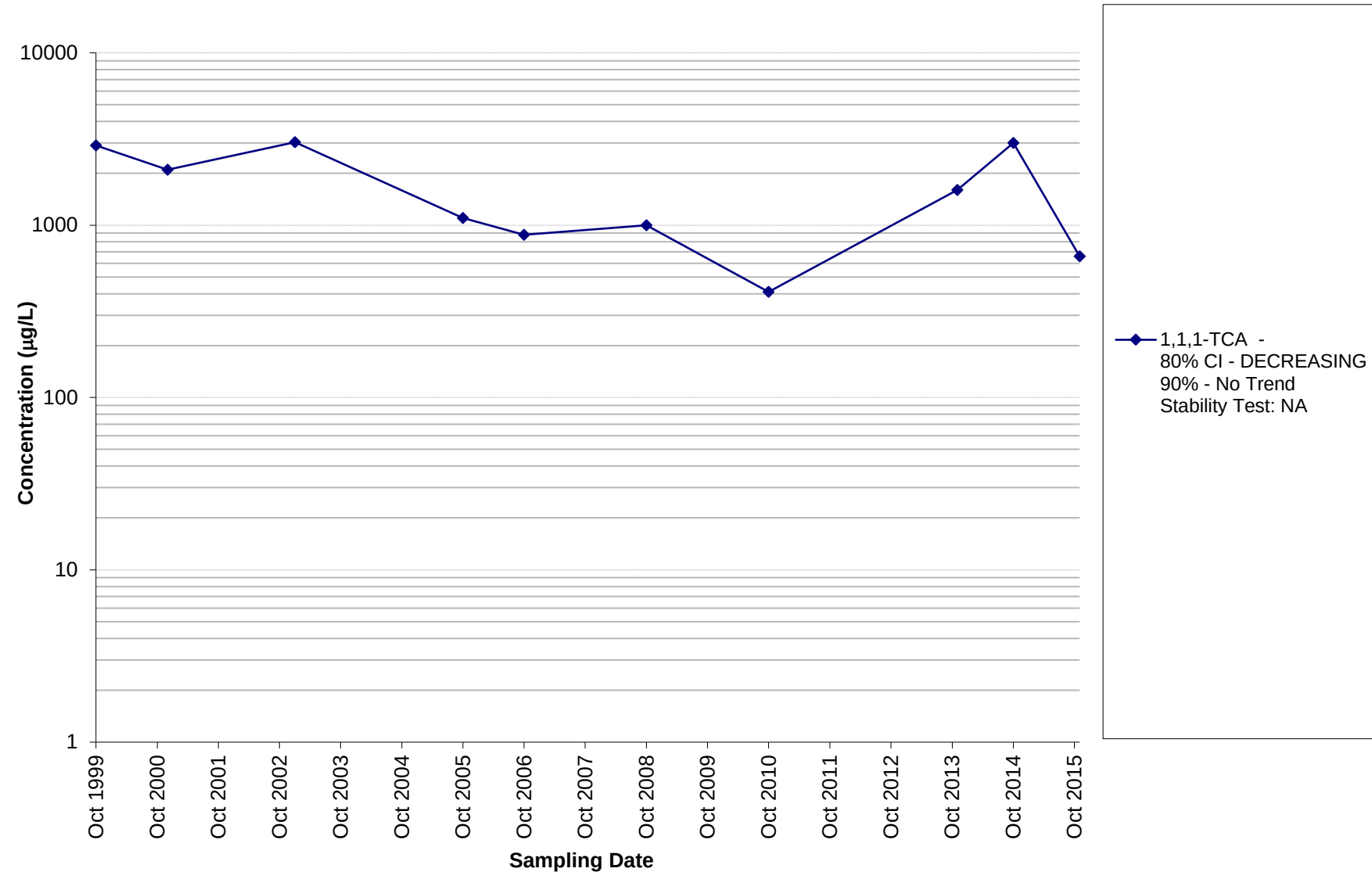
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	No Trend	DECREASING	No Trend	N<4
Trend = 90% Confidence Level	No Trend	No Trend	No Trend	DECREASING	No Trend	N<4

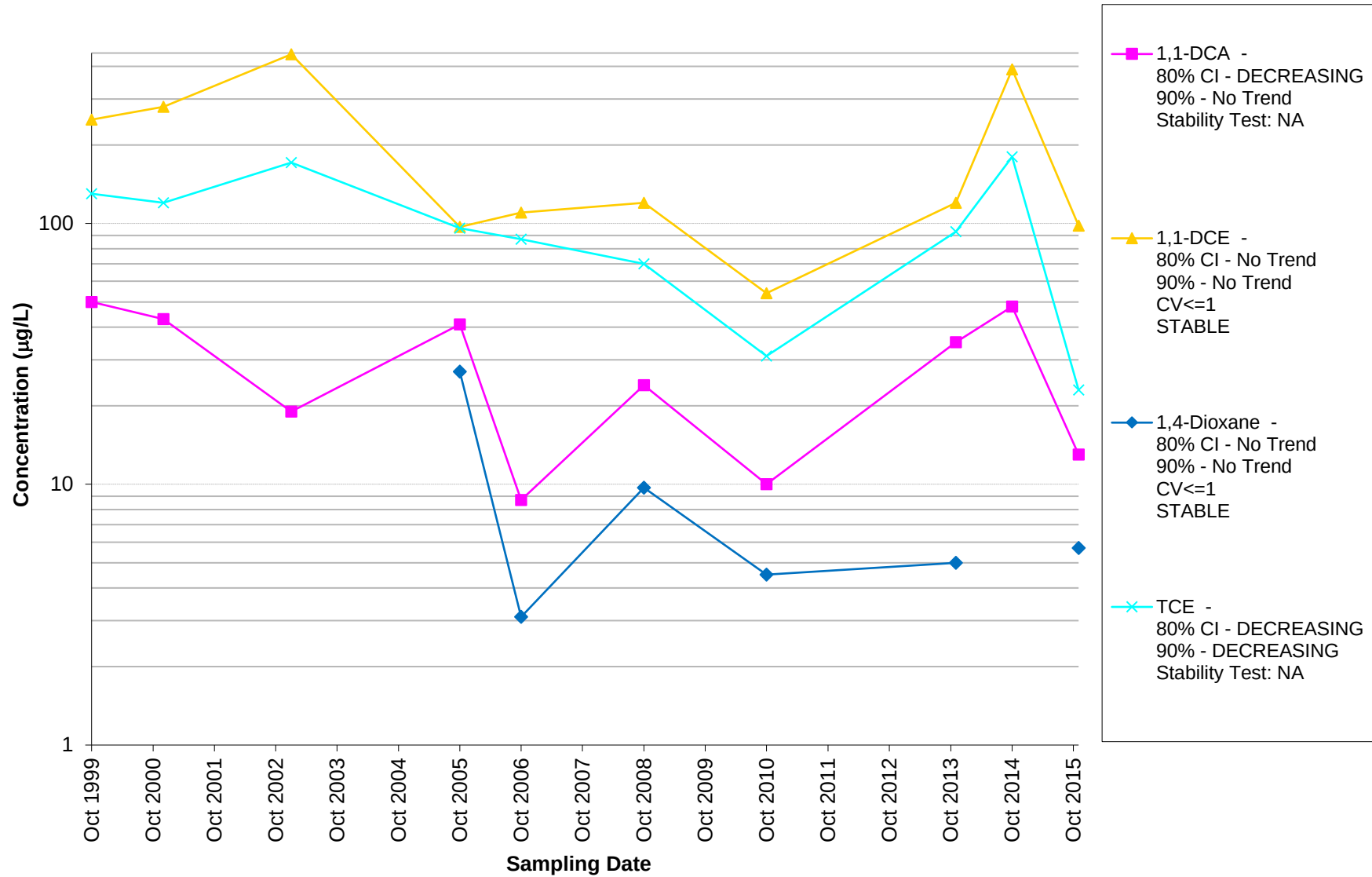
Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	CV<=1 STABLE	NA	CV<=1 STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/15/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-5B [1,1,1-TCA Only]



Mann-Kendall Test for MRMW-5B [Other Constituents]



Mann-Kendall Statistical Test

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-5R

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	December-1999	1500	22	270	62		
2	December-2000	400	23	120	34		
3	January-2003	374	19	84	22		
4	October-2006	230	15	61	9.2	5	
5	December-2007	350	55	36	2.1	1	
6	October-2008	99	12	33	9.8	5.4	
7	October-2009	210	7.5	35	7.7	15	
8	November-2013	30	2.7	9.6	6.5	1	
9	October-2014	19	7.8	11	2.6		
10	November-2015	44	3.9	15	3.9	2.5	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-37	-29	-37	-31	0	0
	10	10	10	10	6	0
	325.60	16.79	67.46	15.98	4.98	#DIV/0!
	437.445	15.234	79.314	18.971	5.261	#DIV/0!
	1.344	0.907	1.176	1.187	1.056	#DIV/0!

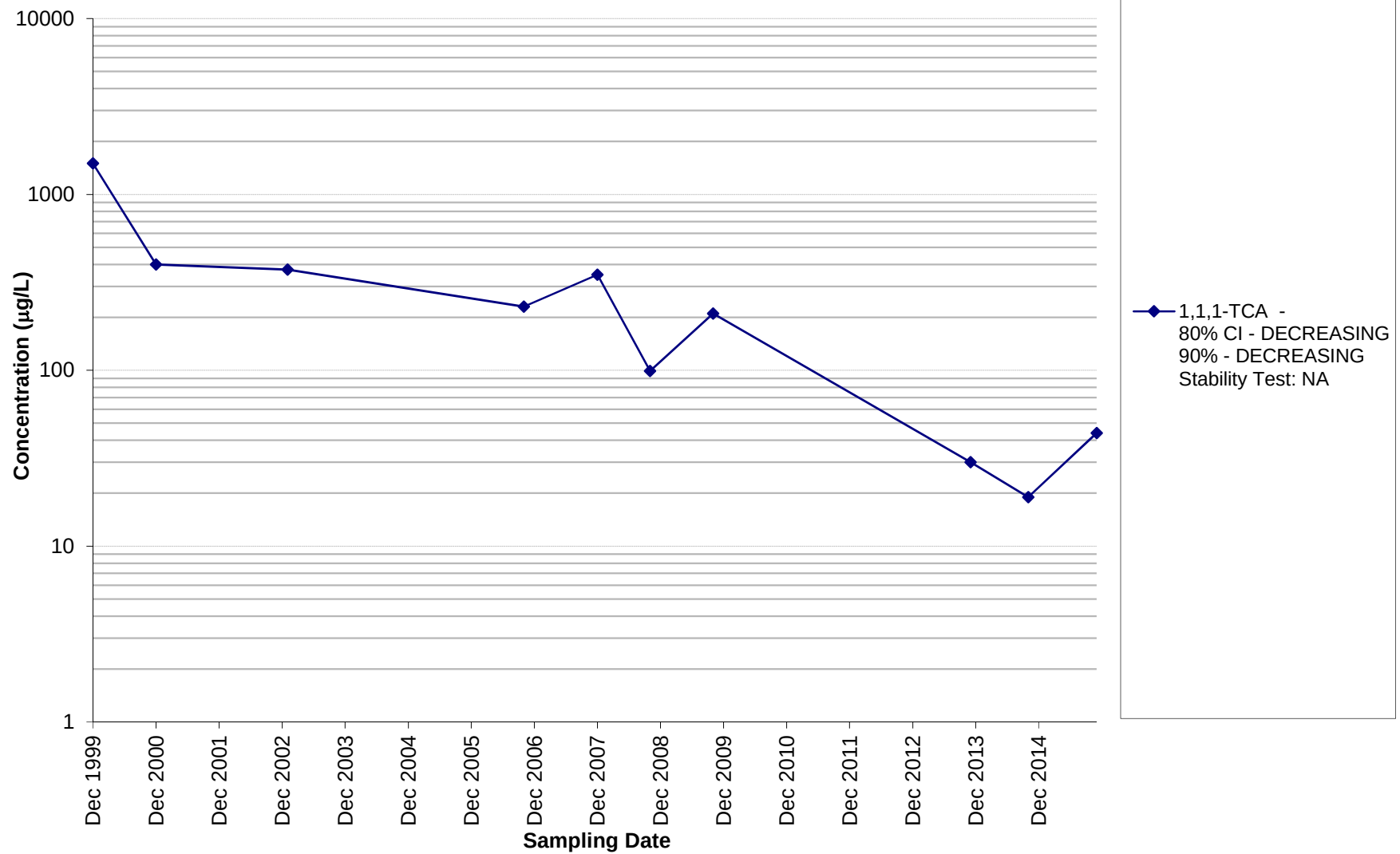
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4
Trend = 90% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4

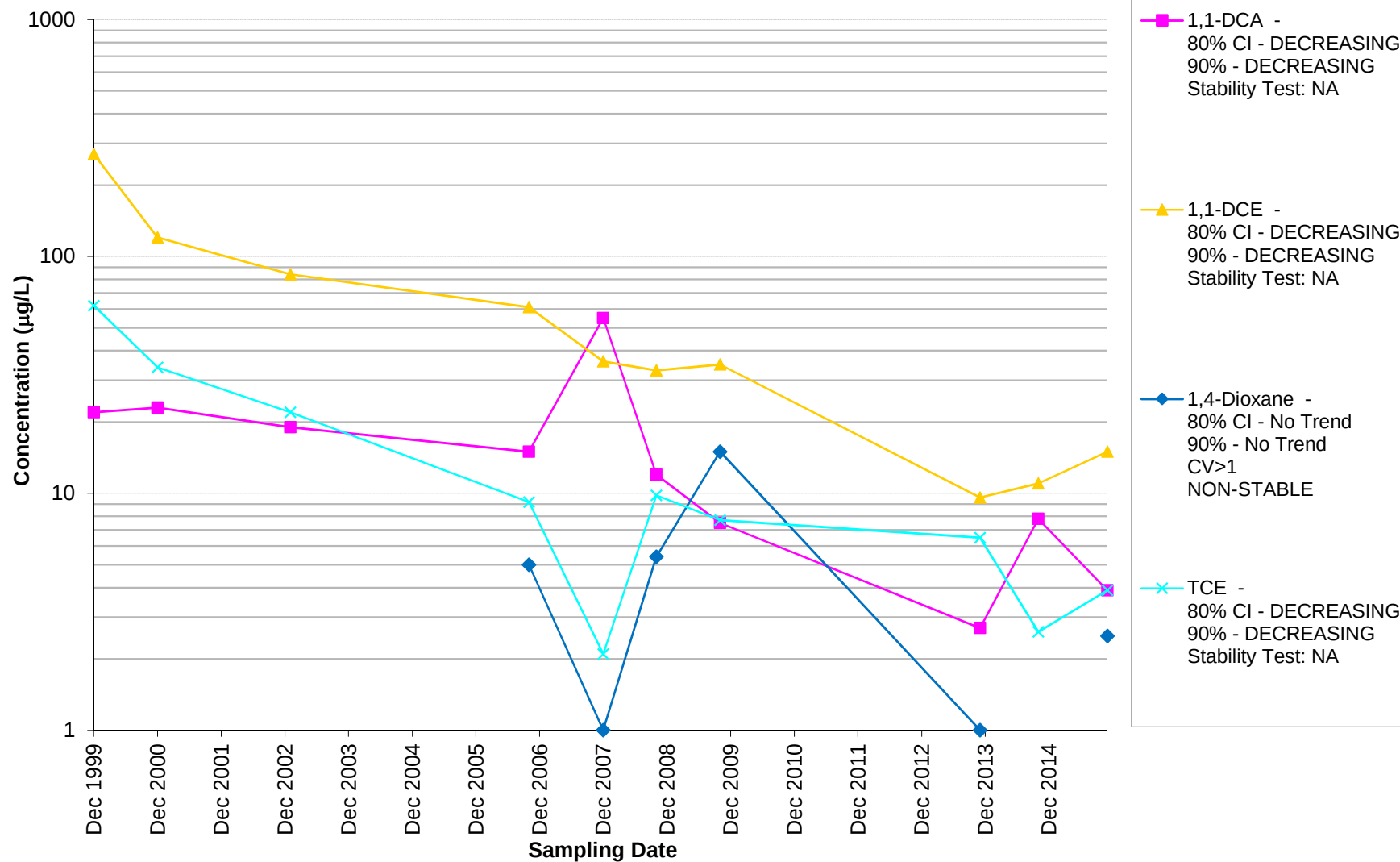
Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	NA	NA	CV>1 NON-STABLE	n<4 n<4

Data Entry By = KL	Date = 2/15/2016	Checked By = LEA

Mann-Kendall Test for MRMW-5R [1,1,1-TCA Only]



Mann-Kendall Test for MRMW-5R [Other Constituents]



Mann-Kendall Statistical Test

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-6B

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	58	2	7	0.15		
2	December-2000	28	0.25	3	0.15		
3	August-2002	27	0.5	5.6	1		
4	January-2003	14	0.4	2	0.15		
5	October-2006	11	0.28	1.5	0.15		
6	December-2007	11	0.33	1.5	0.15	1	
7	October-2009	3.6	0.18	0.25	0.15	1	
8	November-2013	8.3	0.25	3	0.15	1	
9	October-2014	8.3	0.48	3.8	0.15		
10	November-2015	12	0.25	3.5	0.15	1	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-29	-16	-9	-5	0	0
	10	10	10	10	4	0
	18.12	0.49	3.12	0.24	1.00	#DIV/0!
	16.078	0.540	2.016	0.269	0.000	#DIV/0!
	0.887	1.098	0.647	1.144	0.000	#DIV/0!

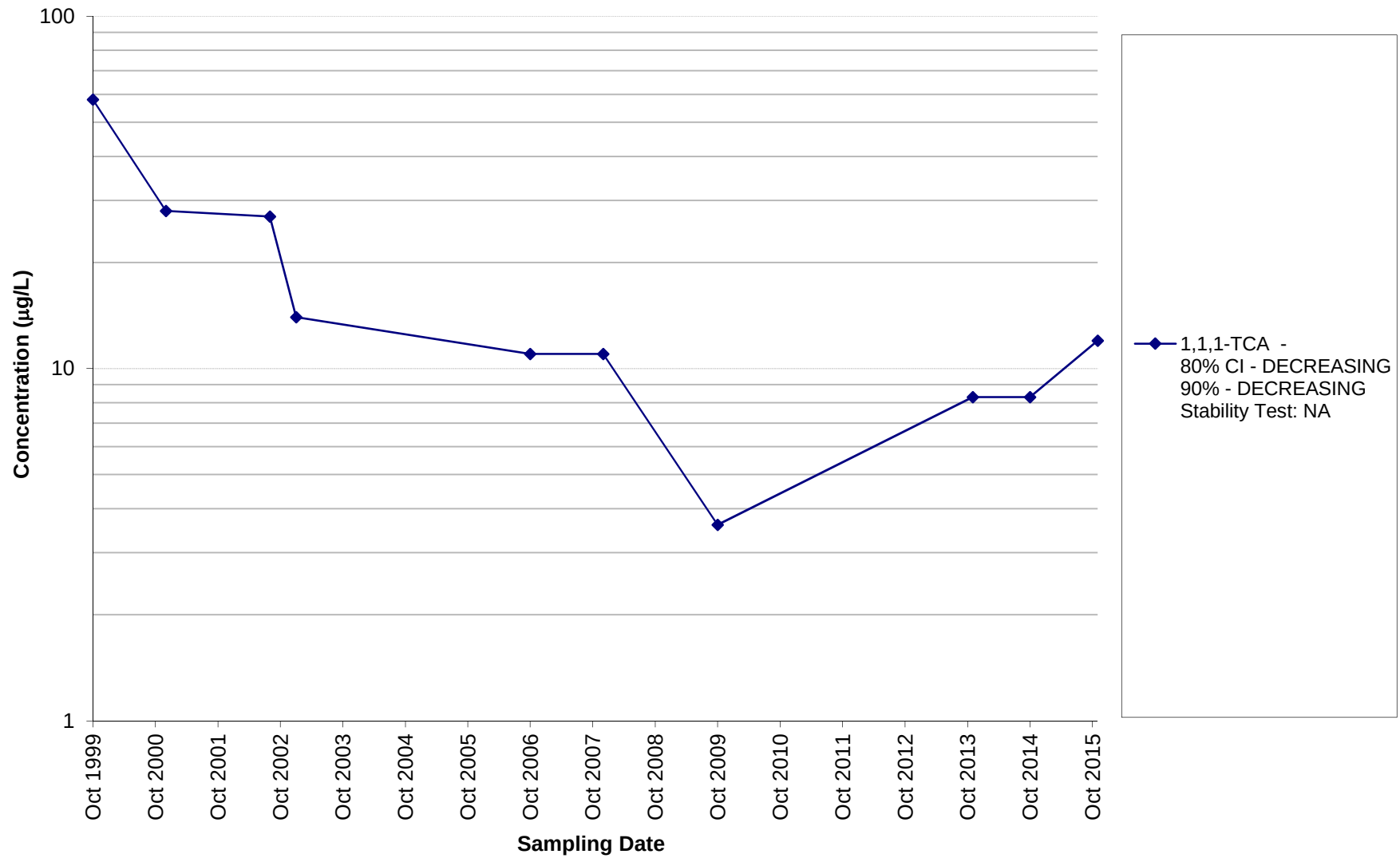
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	No Trend	No Trend	No Trend	N<4
Trend = 90% Confidence Level	DECREASING	DECREASING	No Trend	No Trend	No Trend	N<4

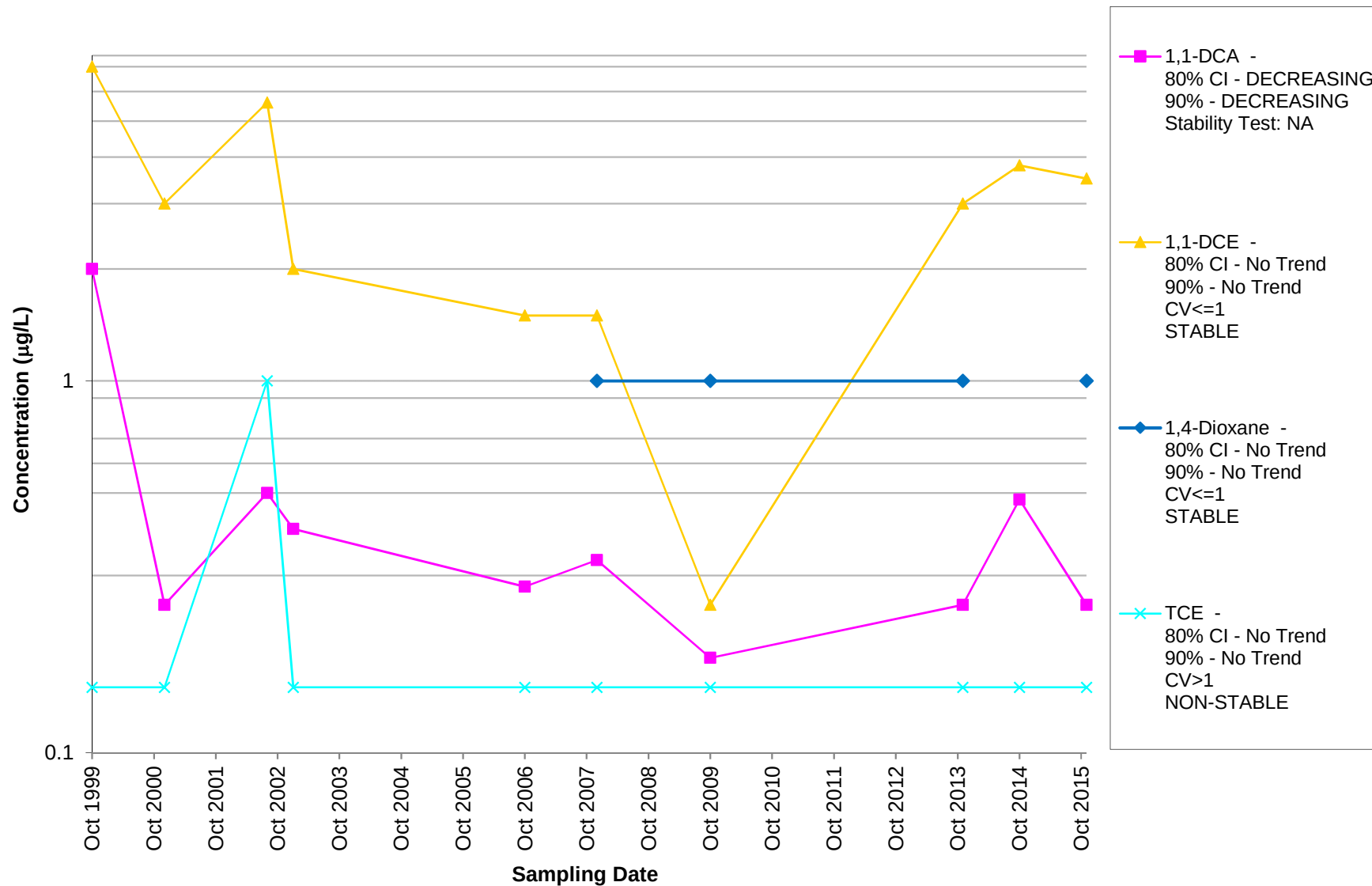
Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	CV<=1 STABLE	CV>1 NON-STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By = KL	Date = 2/15/2016	Checked By = LEA

Mann-Kendall Test for MRMW-6B [1,1,1-TCA Only]



Mann-Kendall Test for MRMW-6B [Other Constituents]



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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-7R

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	December-1999	1000	27	71	8.9		
2	December-2000	320	27	44	1.5		
3	January-2003	244	15	24	3		
4	November-2005	170	16	20	3.5	11	
5	October-2006	250	46	33	1.6	3.9	
6	October-2008	92	13	33	11	4.6	
7	October-2010	67	18	18	1.4	1	
8	November-2013	33	11	8.8	0.54	1	
9	October-2014	18	7	8	1.8		
10	November-2015	180	78	24	1.6	2	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-31	-10	-27	-12	-8	0
	10	10	10	10	6	0
	237.40	25.80	28.38	3.48	3.92	#DIV/0!
	286.068	21.462	18.614	3.542	3.777	#DIV/0!
	1.205	0.832	0.656	1.017	0.964	#DIV/0!

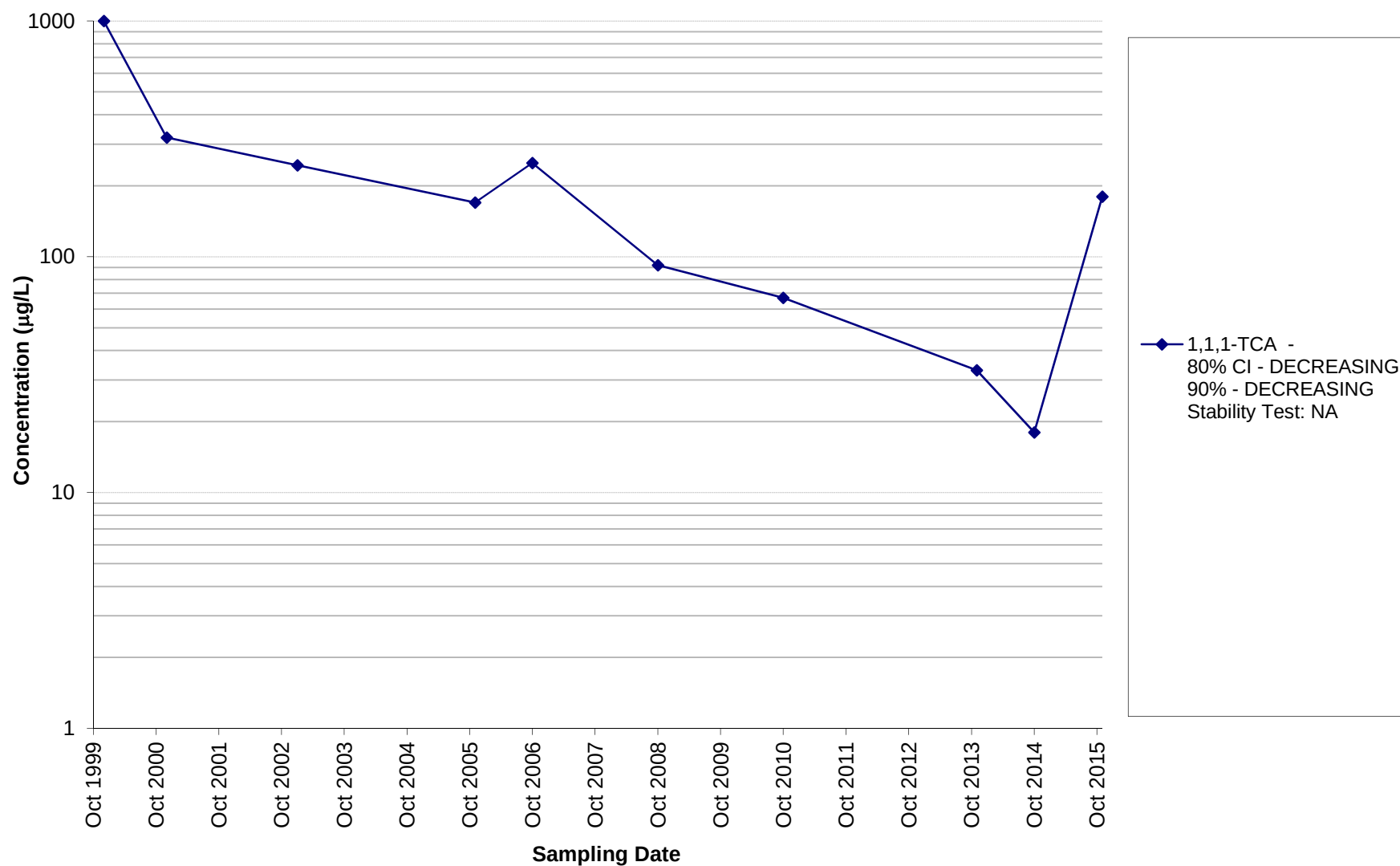
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	No Trend	DECREASING	DECREASING	DECREASING	N<4
Trend = 90% Confidence Level	DECREASING	No Trend	DECREASING	No Trend	DECREASING	N<4

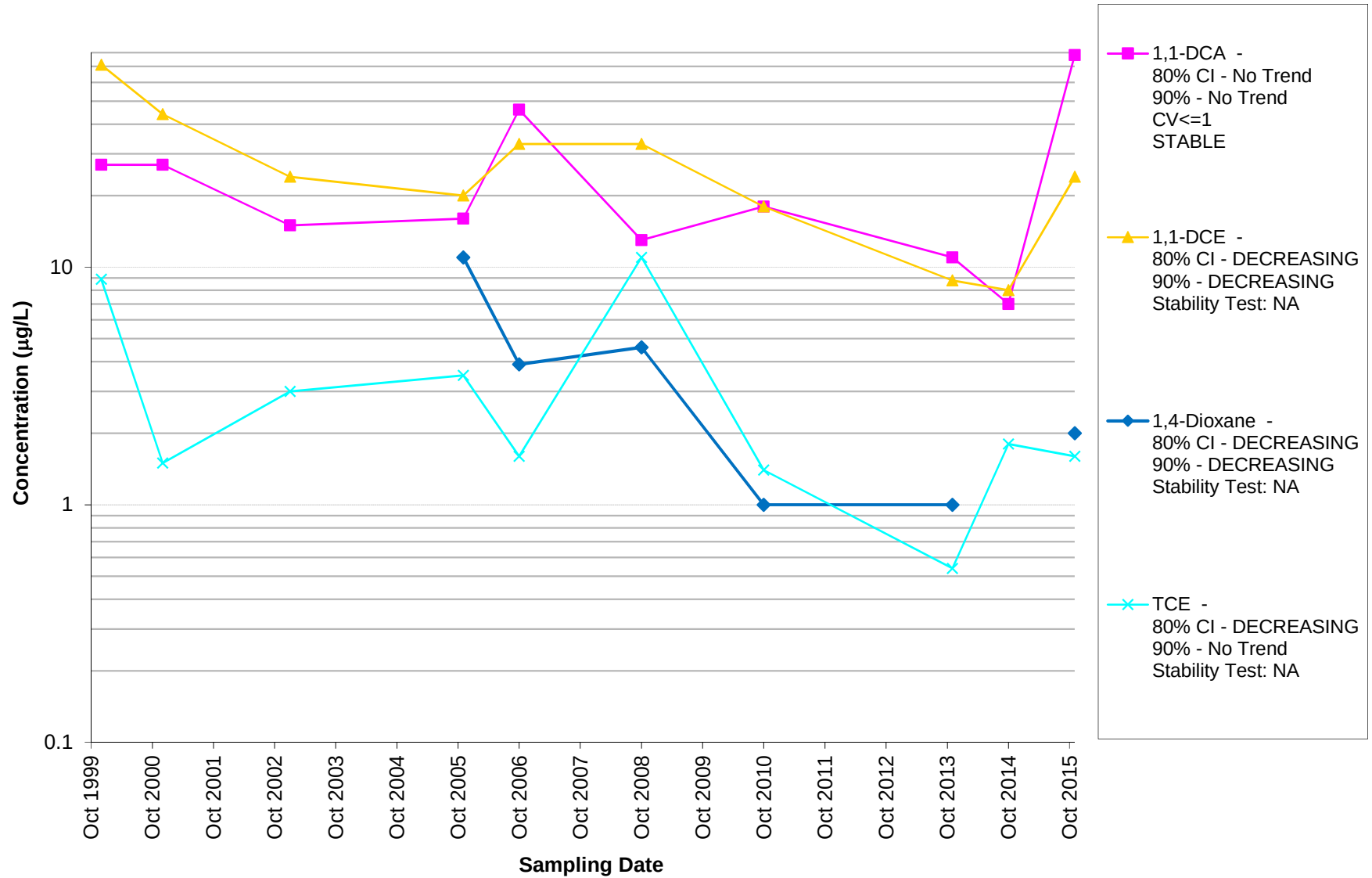
Stability Test, If No Trend Exists at 80% Confidence Level	NA	CV<=1 STABLE	NA	NA	NA	n<4 n<4

Data Entry By =	KL	Date =	2/15/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-7R [1,1,1-TCA Only]



Mann-Kendall Test for MRMW-7R [Sheet 1]



Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, **provide at least four rounds** and **not more than ten rounds of data** that is **not seasonally affected**. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "**DATA ERR**" or "**DATE ERR**" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation from the governing regulatory agencies for the site and applicable guidance for recommendations on data entry for non-detect values (**See protocol at bottom of worksheet**).

Error Messages: There is a section below the data entry screen that describes data entry errors in more detail and which cell has that error. Thus a user can determine what and where their error is very quickly. Note that a space is seen as text in Excel formulae.

Data Entry and Error Messages: When there are less than four rounds of data entered, instead of getting an "**ERROR**" message, only "**n<4**" is displayed. But, if **text**, a **zero** or a **negative number** is inadvertently entered, the "**ERROR**" message is displayed. Thus, during data entry, an "ERROR" message is only displayed when there actually is an error. Note that the **date must be entered before sample results collected on that date are entered** to avoid an error message.

To avoid biasing the Mann-Kendall test, **the same value for all ND results must be entered** in the spreadsheet for a given compound. This is to make sure that any identified trends are data trends and not trends of laboratory detection limits. **SEE PROTOCOL AT BOTTOM OF WORKSHEET !**

Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-8B

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	0.15	0.2	0.2	0.15		
2	December-2000	0.15	0.2	0.2	0.15		
3	January-2003	0.15	0.2	0.2	0.15		
4	October-2005	0.15	0.2	0.2	0.15	0.99	
5	October-2006	0.15	0.22	0.2	0.15	1	
6	October-2008	0.15	0.2	0.2	0.15	1	
7	October-2010	0.15	0.55	0.2	0.15	1	
8	November-2013	0.15	0.2	0.2	0.15	1	
9	October-2014	0.15	0.27	0.2	0.15		
10	November-2015	0.15	0.2	0.2	0.15	1	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	0	10	0	0	5	0
	10	10	10	10	6	0
	0.15	0.24	0.20	0.15	1.00	#DIV/0!
	0.000	0.110	0.000	0.000	0.004	#DIV/0!
	0.000	0.450	0.000	0.000	0.004	#DIV/0!

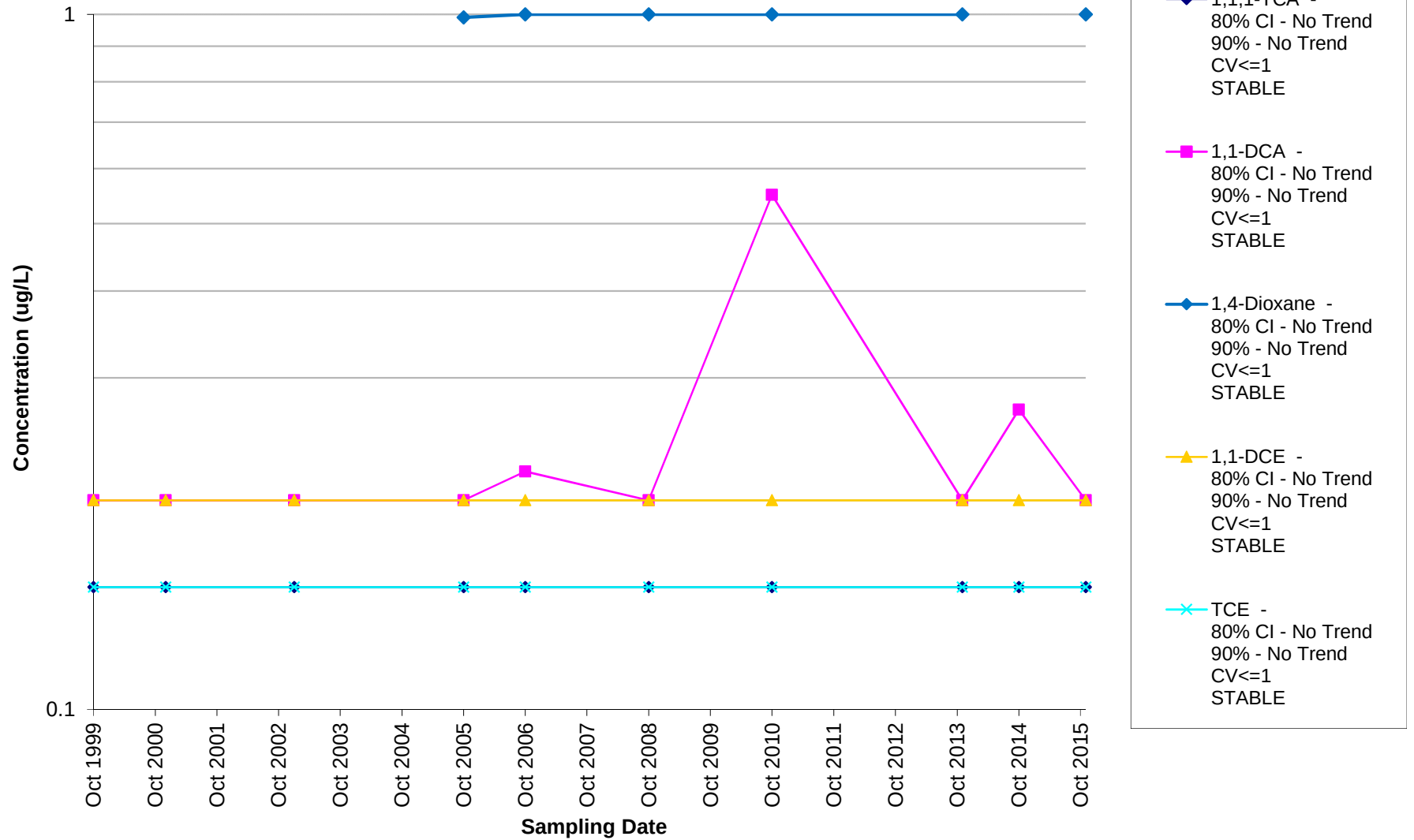
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	N<4
Trend = 90% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By = KL	Date = 2/15/2016	Checked By = LEA

Mann-Kendall Test for MRMW-8B



Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-9B

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	1.5	0.25	0.2	0.15		
2	December-2000	1.5	0.25	0.2	0.15		
3	January-2003	0.7	0.3	0.2	0.15		
4	October-2005	0.72	0.26	0.2	0.15	3.4	
5	October-2006	0.47	0.25	0.2	0.15		
6	October-2008	0.59	0.25	0.2	0.15	1.1	
7	October-2010	0.7	0.25	0.2	0.15	1.1	
8	November-2013	0.64	0.52	0.2	0.15	3.9	
9	October-2014	0.58	0.58	0.2	0.15		
10	November-2015	0.59	0.72	0.2	0.15	4.7	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-24	21	0	0	5	0
	10	10	10	10	5	0
	0.80	0.36	0.20	0.15	2.84	#DIV/0!
	0.377	0.176	0.000	0.000	1.655	#DIV/0!
	0.472	0.484	0.000	0.000	0.583	#DIV/0!

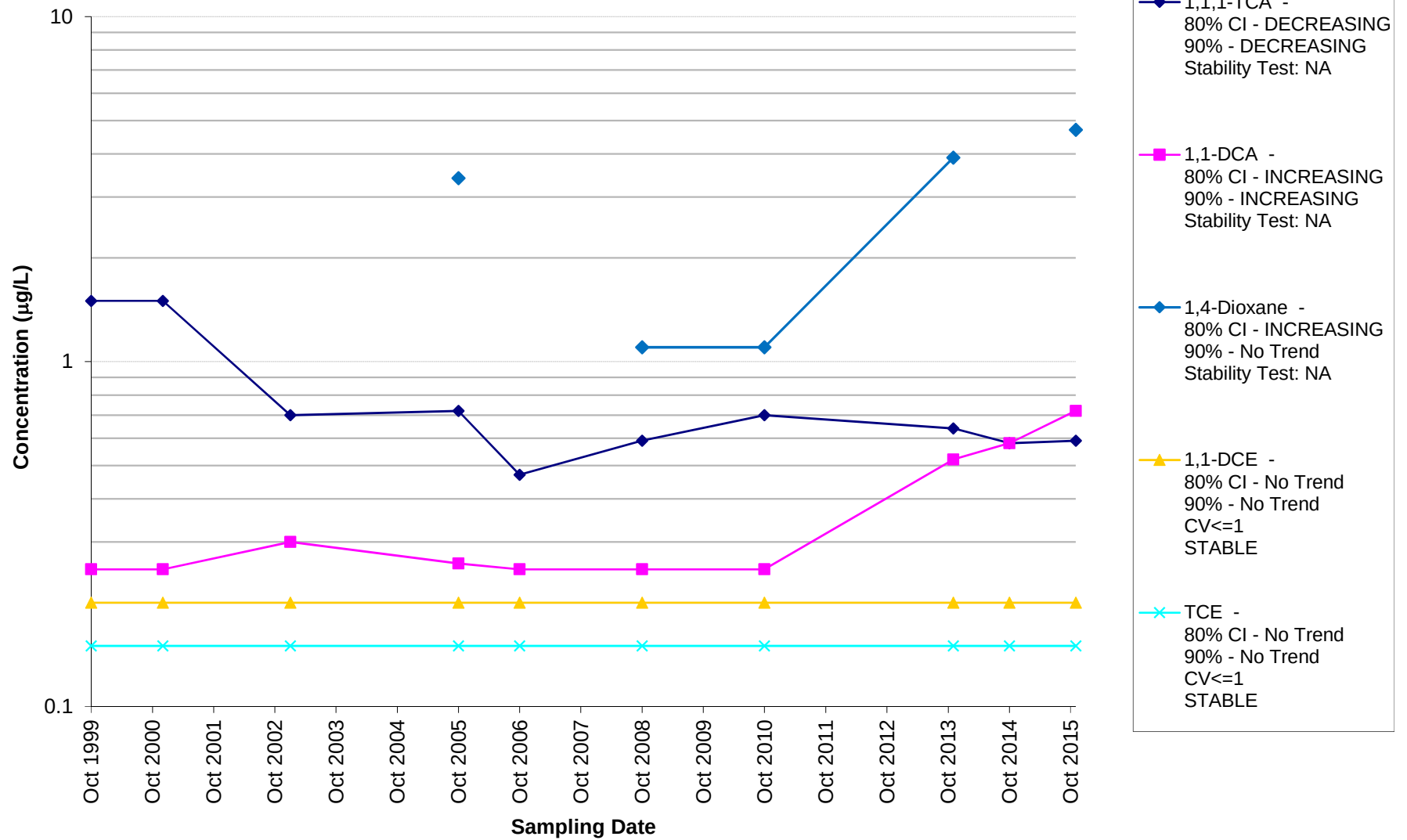
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	INCREASING	No Trend	No Trend	INCREASING	N<4
Trend = 90% Confidence Level	DECREASING	INCREASING	No Trend	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	CV<=1 STABLE	CV<=1 STABLE	NA	n<4 n<4

Data Entry By = KL	Date = 2/16/2016	Checked By = LEA

Mann-Kendall Test for MRMW-9B



Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Error Messages: There is a section below the data entry screen that describes data entry errors in more detail and which cell has that error. Thus a user can determine what and where their error is very quickly. Note that a space is seen as text in Excel formulae.

Data Entry and Error Messages: When there are less than four rounds of data entered, instead of getting an "**ERROR**" message, only "**n<4**" is displayed. But, if **text**, a **zero** or a **negative number** is inadvertently entered, the "**ERROR**" message is displayed. Thus, during data entry, an "ERROR" message is only displayed when there actually is an error. Note that the **date must be entered before sample results collected on that date are entered** to avoid an error message.

To avoid biasing the Mann-Kendall test, **the same value for all ND results must be entered** in the spreadsheet for a given compound. This is to make sure that any identified trends are data trends and not trends of laboratory detection limits. **SEE PROTOCOL AT BOTTOM OF WORKSHEET !**

Site Name = Mohonk Road Industrial Plant Superfund Site	Site ID No. = 02LG	Well Number = MRMW-10B

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	0.15	0.2	0.2	0.15		
2	December-2000	0.15	0.2	0.2	0.15		
3	January-2003	0.15	0.2	0.2	0.15		
4	October-2005	0.1	0.2	0.2	0.15	1	
5	October-2006	0.15	0.2	0.2	0.15	1	
6	October-2008	0.15	0.2	0.2	0.15	1	
7	October-2010	0.15	0.2	0.2	0.15	1	
8	November-2013	0.15	0.2	0.2	0.15	1	
9	October-2014	0.15	0.2	0.2	0.15		
10	November-2015	0.15	0.2	0.2	0.15	1	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	3	0	0	0	0	0
	10	10	10	10	6	0
	0.15	0.20	0.20	0.15	1.00	#DIV/0!
	0.016	0.000	0.000	0.000	0.000	#DIV/0!
	0.109	0.000	0.000	0.000	0.000	#DIV/0!

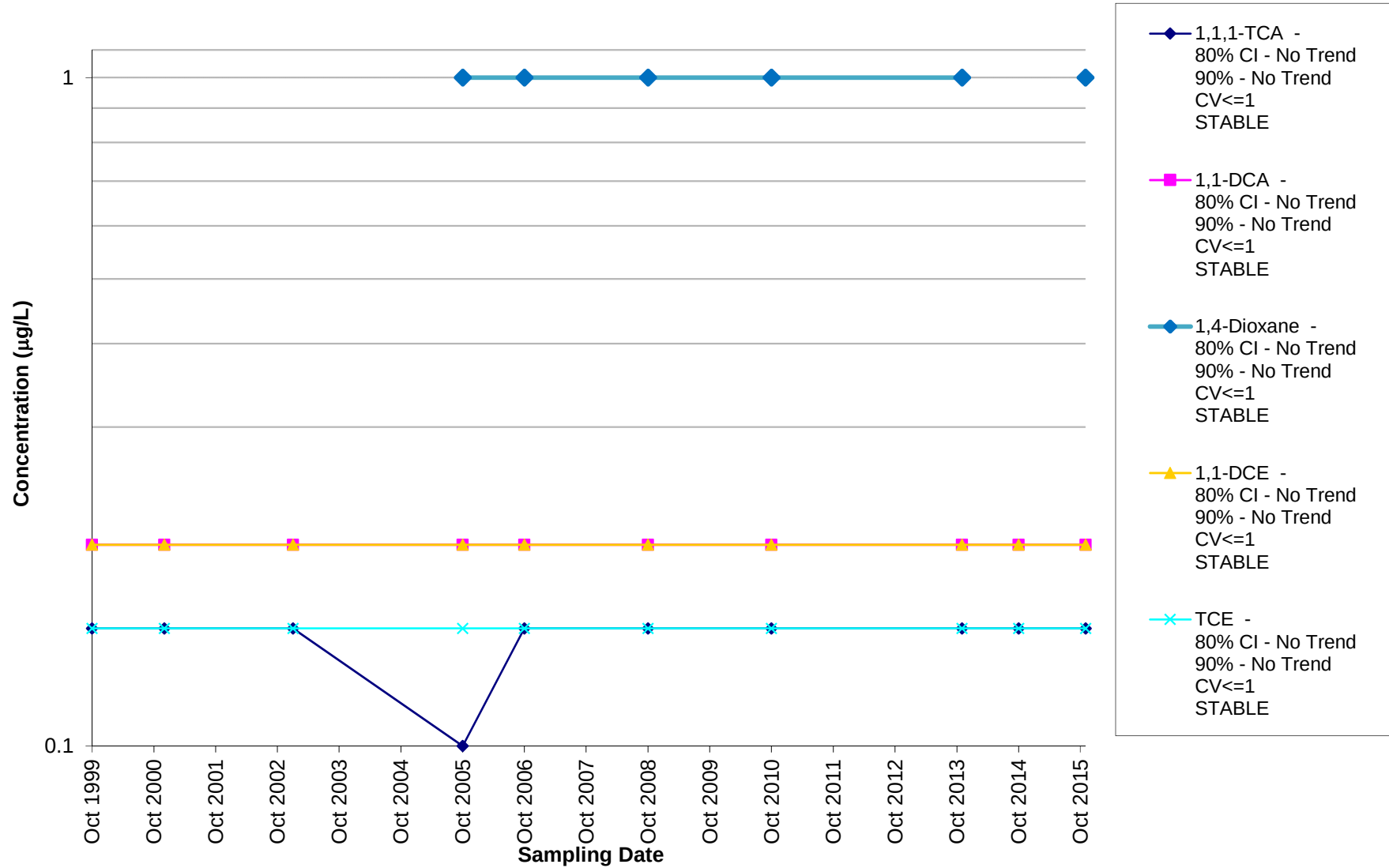
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	N<4
Trend = 90% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By = KL	Date = 2/16/2016	Checked By = LEA

Mann-Kendall Test for MRMW-10B



Mann-Kendall Statistical Test

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Error Messages: There is a section below the data entry screen that describes data entry errors in more detail and which cell has that error. Thus a user can determine what and where their error is very quickly. Note that a space is seen as text in Excel formulae.

Data Entry and Error Messages: When there are less than four rounds of data entered, instead of getting an "**ERROR**" message, only "**n<4**" is displayed. But, if **text**, a **zero** or a **negative number** is inadvertently entered, the "**ERROR**" message is displayed. Thus, during data entry, an "ERROR" message is only displayed when there actually is an error. Note that the **date must be entered before sample results collected on that date are entered** to avoid an error message.

To avoid biasing the Mann-Kendall test, **the same value for all ND results must be entered** in the spreadsheet for a given compound. This is to make sure that any identified trends are data trends and not trends of laboratory detection limits. **SEE PROTOCOL AT BOTTOM OF WORKSHEET !**

Site Name = Mohonk Road Industrial Plant Superfund Site	Site ID No. = 02LG	Well Number = MRMW-11B

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	190	15	29	11		
2	December-2000	180	36	1.5	10		
3	January-2003	37	8	17	3		
4	October-2006	40	7.1	18	6.4		
5	December-2007	19	8.3	19	3.5	1	
6	October-2009	12	5.8	15	2.7	1	
7	October-2010	16	13	23	4.1	3.8	
8	November-2013	5.8	5.6	12	2.6	1	
9	October-2014	4.9	6.7	13	2.7		
10	November-2015	4.4	4.8	11	1.5	2.9	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-41	-27	-13	-32	3	0
	10	10	10	10	5	0
	50.91	11.03	15.85	4.75	1.94	#DIV/0!
	71.793	9.367	7.401	3.300	1.326	#DIV/0!
	1.410	0.849	0.467	0.695	0.683	#DIV/0!

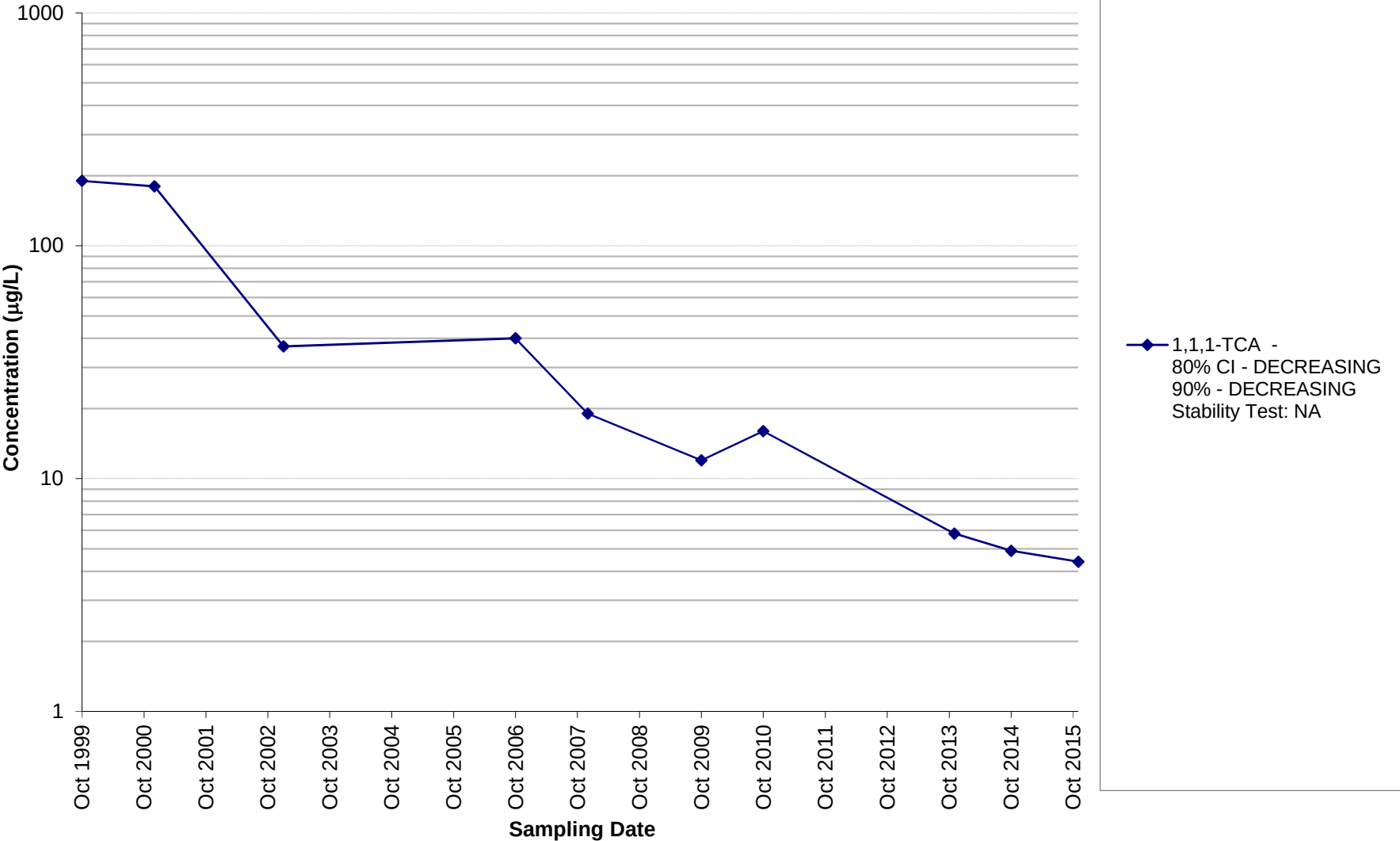
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4
Trend = 90% Confidence Level	DECREASING	DECREASING	No Trend	DECREASING	No Trend	N<4

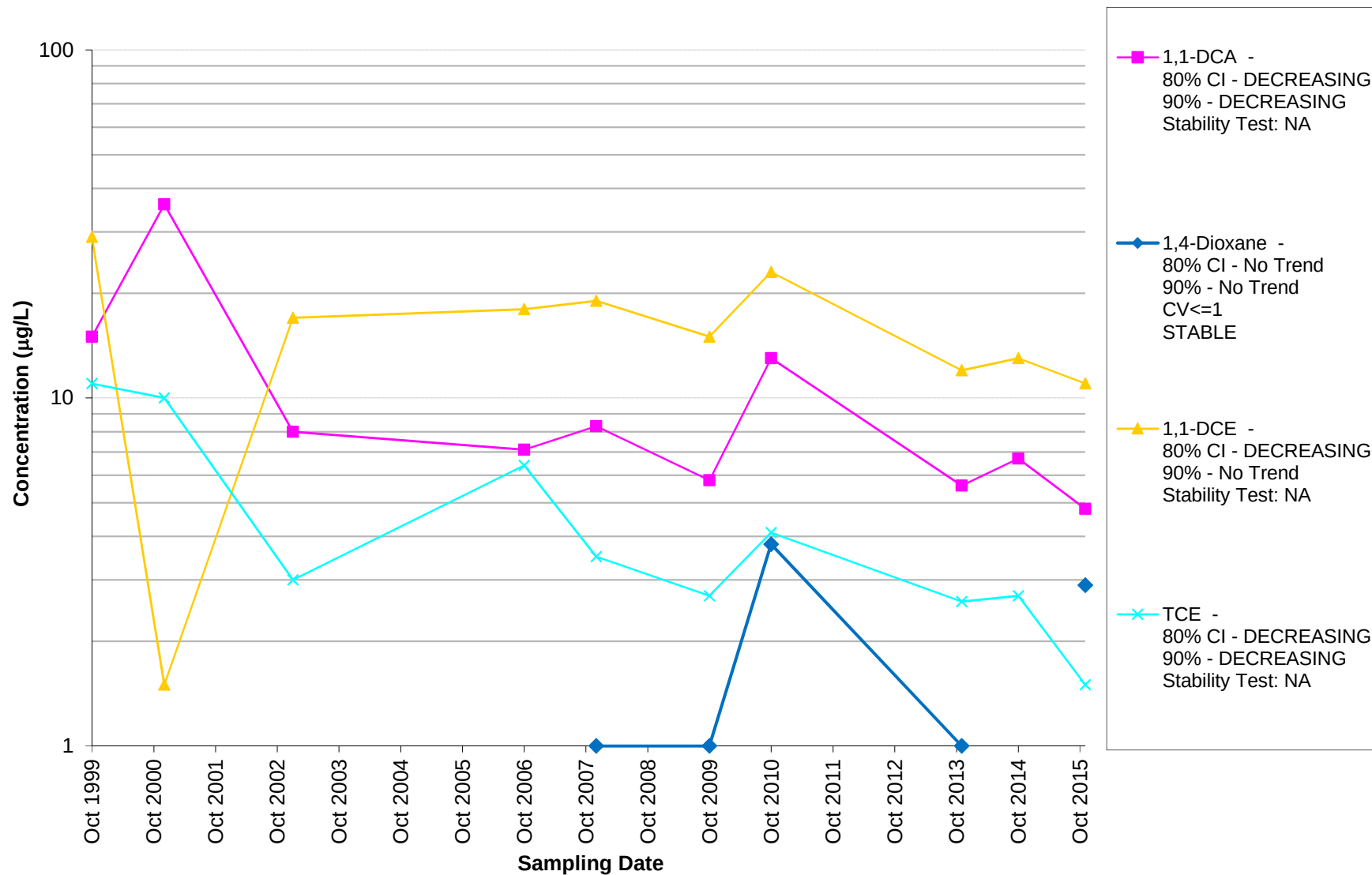
Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	NA	NA	CV<=1 STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-11B [1,1,1-TCA Only]



Mann-Kendall Test for MRMW-11B [Other Constituents]



Mann-Kendall Statistical Test

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Error Messages: There is a section below the data entry screen that describes data entry errors in more detail and which cell has that error. Thus a user can determine what and where their error is very quickly. Note that a space is seen as text in Excel formulae.

Data Entry and Error Messages: When there are less than four rounds of data entered, instead of getting an "**ERROR**" message, only "**n<4**" is displayed. But, if **text**, a **zero** or a **negative number** is inadvertently entered, the "**ERROR**" message is displayed. Thus, during data entry, an "ERROR" message is only displayed when there actually is an error. Note that the **date must be entered before sample results collected on that date are entered** to avoid an error message.

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Site Name = Mohonk Road Industrial Plant Superfund Stie	Site ID No. = 02LG	Well Number = MRMW-11C

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	120	6	4	6		
2	December-2000	130	11	40	7		
3	January-2003	73	9	35	5		
4	October-2006	16	3	11	2.4		
5	December-2007	12	2	8.2	1.7	1	
6	October-2008	11	2	9.2	1.6	1	
7	October-2010	9.1	2.3	8.1	2	1	
8	November-2013	4.4	1.1	5.2	1.1	1	
9	October-2014	3.2	1.2	0.25	0.95		
10	November-2015	3.2	1	4.2	0.66	1	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-42	-34	-25	-39	0	0
	10	10	10	10	5	0
	38.19	3.86	12.52	2.84	1.00	#DIV/0!
	50.208	3.574	13.573	2.286	0.000	#DIV/0!
	1.315	0.926	1.085	0.805	0.000	#DIV/0!

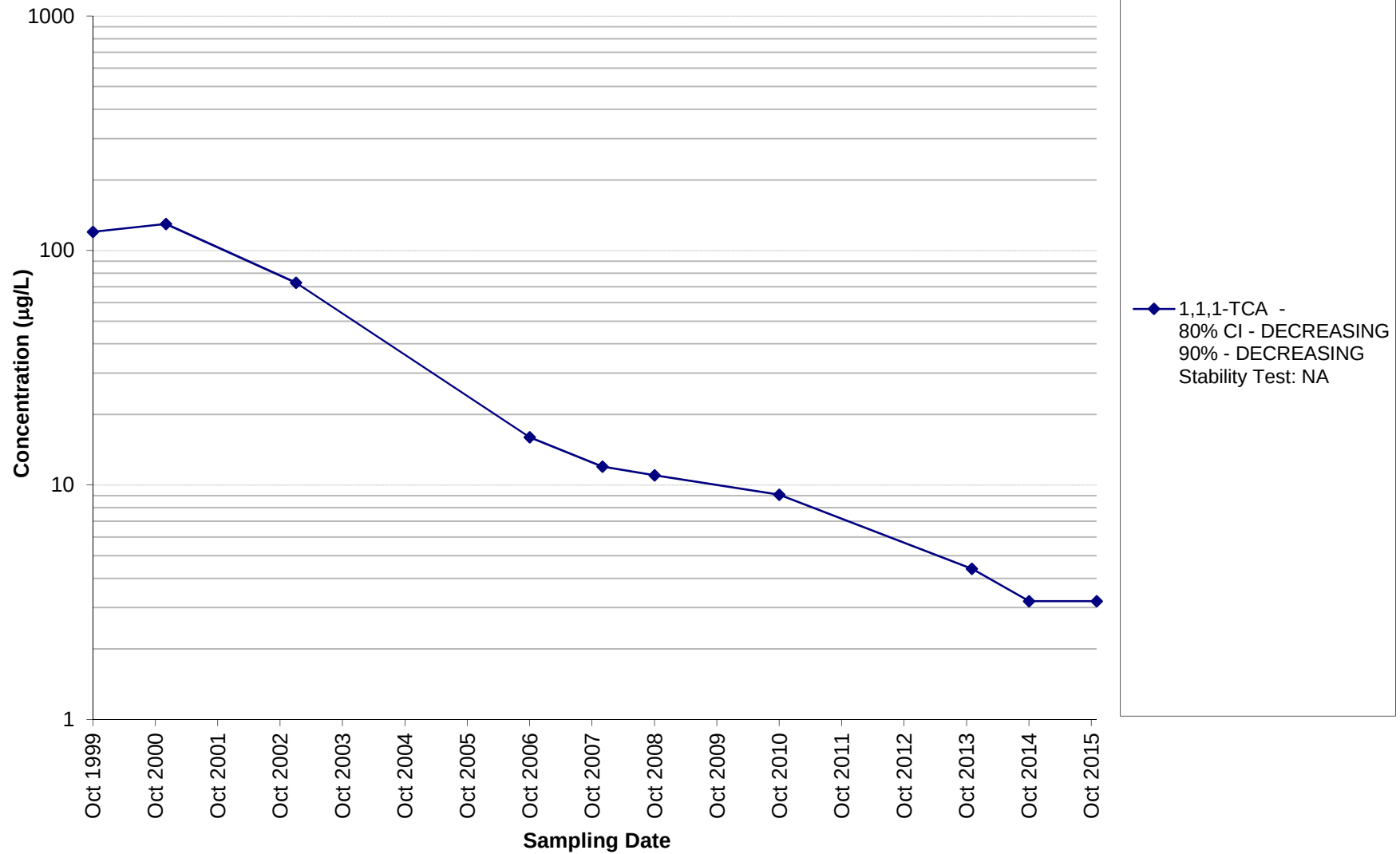
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4
Trend = 90% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4

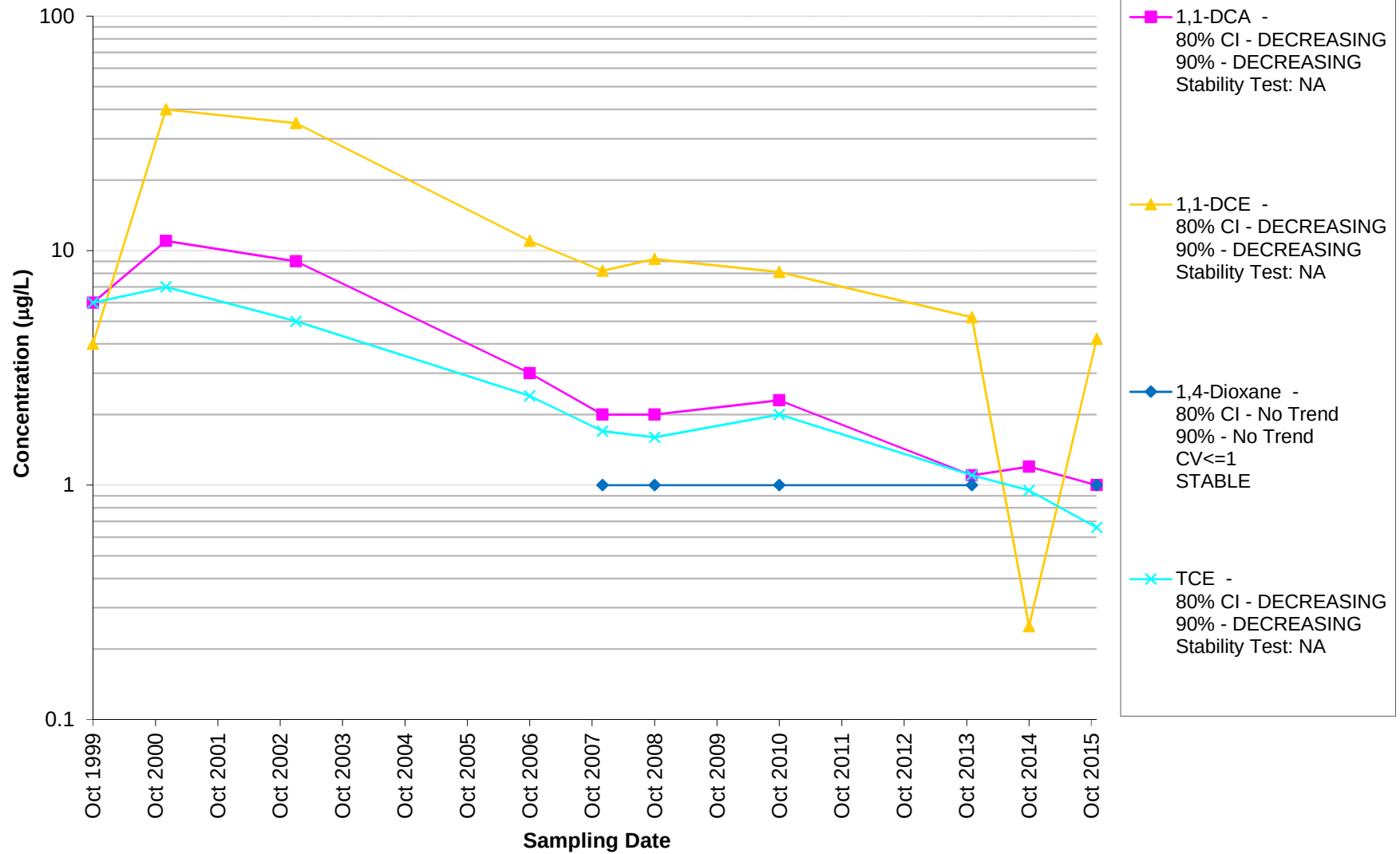
Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	NA	NA	CV<=1 STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-11C [1,1,1-TCA Only]



Mann-Kendall Test for MRMW-11C [Other Constituents]



Mann-Kendall Statistical Test

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Site Name = Mohonk Road Industrial Plant Superfund Site	Site ID No. = 02LG	Well Number = MRMW-12B

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	380	37	72	23		
2	December-2000	220	18	43	15		
3	January-2003	219	30	72	18		
4	October-2006	76	31	47	14	31	
5	December-2007	26	6.2	15	4.3	1	
6	October-2008	9.6	3.2	6.7	1.9	1	
7	October-2010	16	9.2	14	3.5	1	
8	November-2013	3.4	3.2	6	1.4	1	
9	October-2014	2.5	3.2	5.2	1.4		
10	November-2015	5.6	7.1	12	2.1	1	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-39	-24	-32	-34	-5	0
	10	10	10	10	6	0
	95.81	14.81	29.29	8.46	6.00	#DIV/0!
	131.578	13.186	26.915	8.172	12.247	#DIV/0!
	1.373	0.890	0.919	0.966	2.041	#DIV/0!

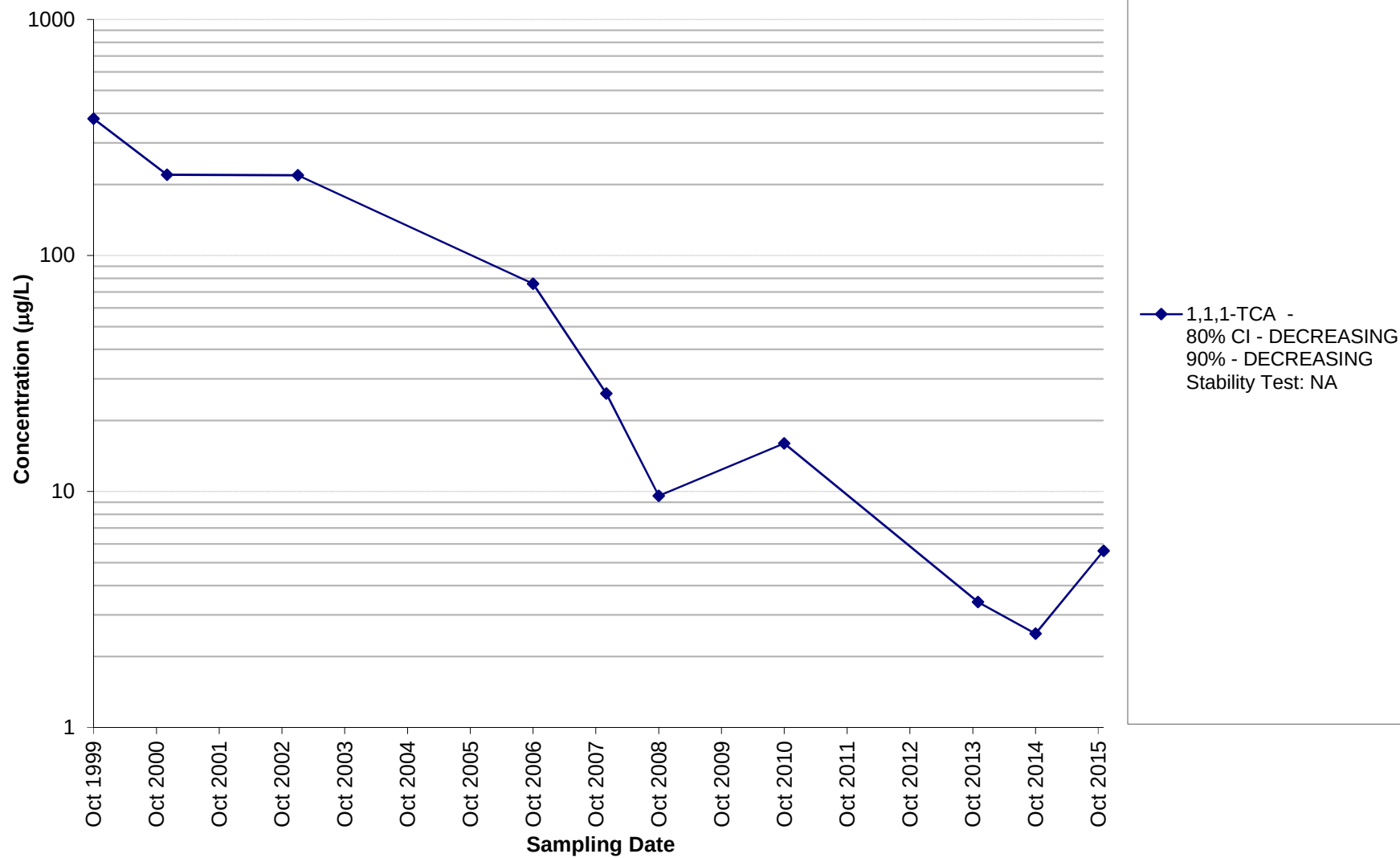
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4
Trend = 90% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4

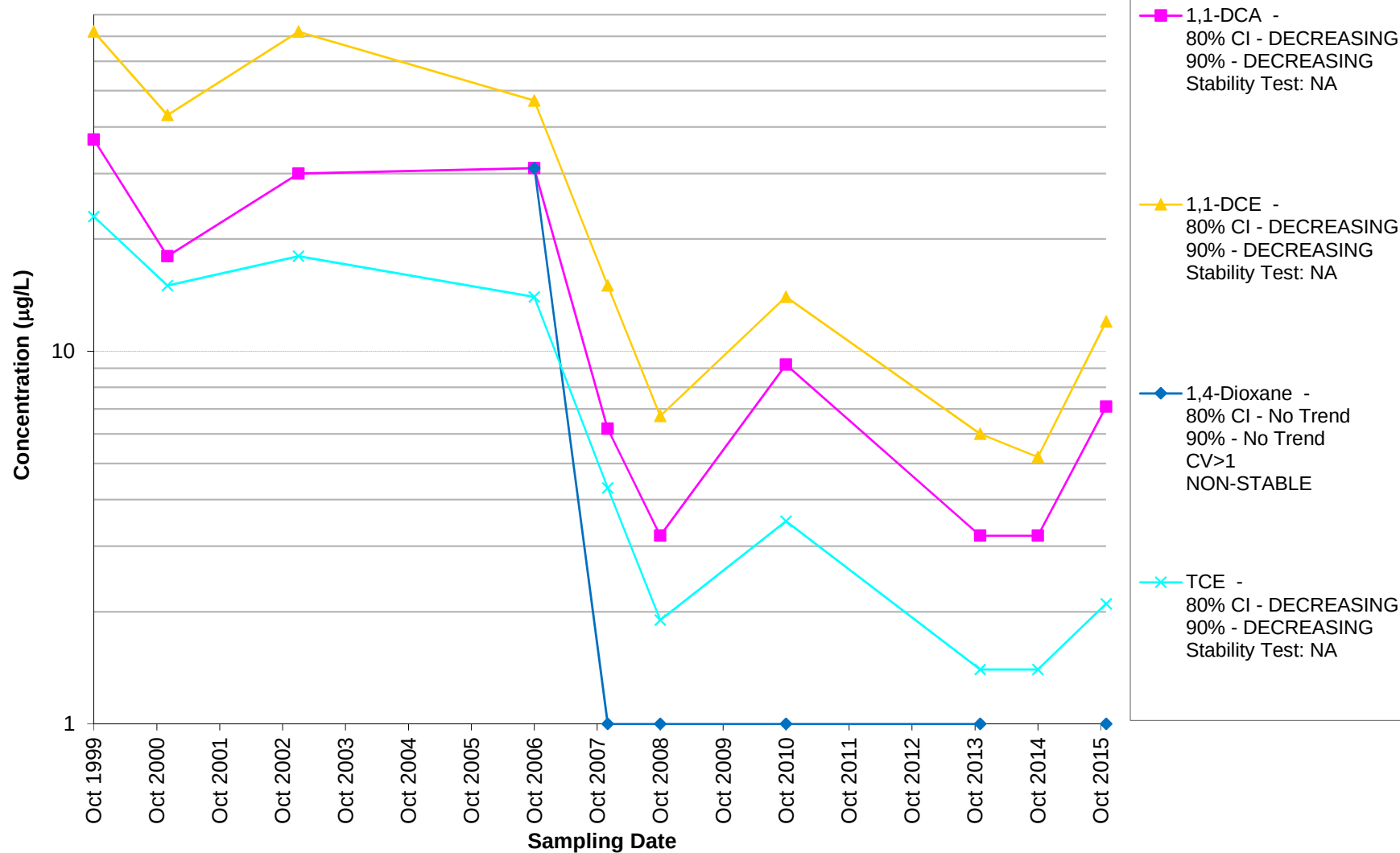
Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	NA	NA	CV>1 NON-STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-12B [1,1,1-TCA Only]



Mann-Kendall Test for MRMW-12B [Other Constituents]



Mann-Kendall Statistical Test

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Site Name = Mohonk Road	Site ID No. = 02LG	Well Number = MRMW-13B

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	0.15	0.2	0.2	0.15		
2	December-2000	0.15	0.2	0.2	0.15		
3	January-2003	0.15	0.2	0.2	0.15		
4	October-2005	0.15	0.2	0.2	0.15	1	
5	October-2006	0.15	0.2	0.2	0.15	1	
6	October-2008	0.15	0.2	0.2	0.15	1	
7	October-2010	0.15	0.2	0.2	0.15	1	
8	November-2013	0.15	0.2	0.2	0.15	1	
9	October-2014	0.15	0.2	0.2	0.15		
10	November-2015	0.15	0.2	0.2	0.15	1	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	0	0	0	0	0	0
	10	10	10	10	6	0
	0.15	0.20	0.20	0.15	1.00	#DIV/0!
	0.000	0.000	0.000	0.000	0.000	#DIV/0!
	0.000	0.000	0.000	0.000	0.000	#DIV/0!

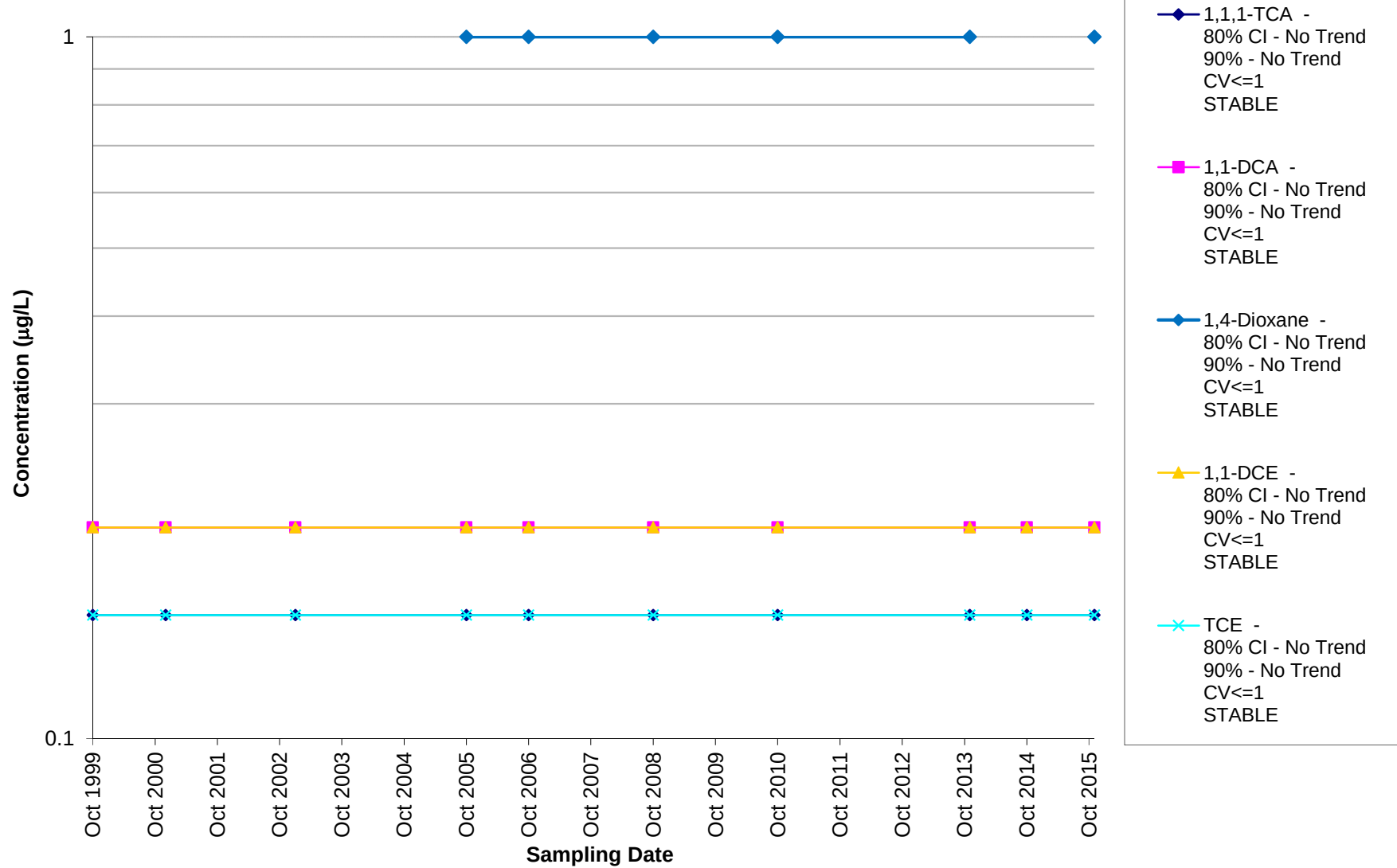
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	N<4
Trend = 90% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-13B



Mann-Kendall Statistical Test

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Data Entry and Error Messages: When there are less than four rounds of data entered, instead of getting an "**ERROR**" message, only "**n<4**" is displayed. But, if **text**, a **zero** or a **negative number** is inadvertently entered, the "**ERROR**" message is displayed. Thus, during data entry, an "ERROR" message is only displayed when there actually is an error. Note that the **date must be entered before sample results collected on that date are entered** to avoid an error message.

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Site Name = Mohonk Road Industrial Plant Superfund Site	Site ID No. = 02LG	Well Number = MRMW-14B

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	0.15	1.5	0.2	0.15		
2	December-2000	0.15	1.5	0.2	0.15		
3	January-2003	0.15	0.8	0.2	0.15		
4	October-2005	0.15	0.62	0.25	0.15	2	
5	October-2006	0.15	0.72	0.2	0.15	1	
6	October-2008	0.15	2.2	0.88	0.15	1	
7	October-2010	0.15	3.1	2.2	0.15	1	
8	November-2013	0.15	1.9	1.6	0.15	1	
9	October-2014	0.15	1.4	1.4	0.15		
10	November-2015	0.15	1.4	1.5	0.15	3	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	0	3	27	0	1	0
	10	10	10	10	6	0
	0.15	1.51	0.86	0.15	1.50	#DIV/0!
	0.000	0.753	0.757	0.000	0.837	#DIV/0!
	0.000	0.497	0.877	0.000	0.558	#DIV/0!

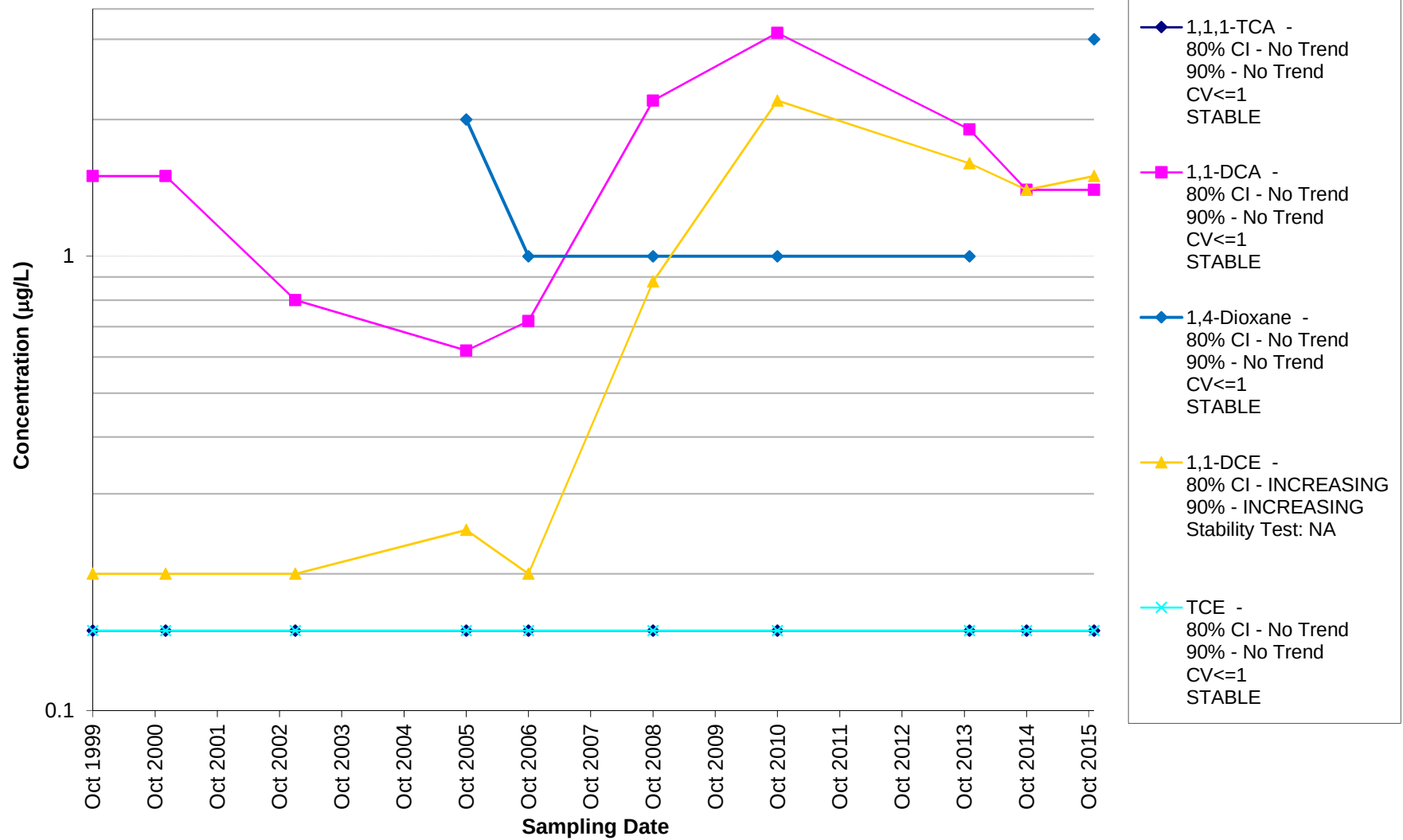
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	No Trend	INCREASING	No Trend	No Trend	N<4
Trend = 90% Confidence Level	No Trend	No Trend	INCREASING	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	CV<=1 STABLE	NA	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By = KL	Date = 2/16/2016	Checked By = LEA

Mann-Kendall Test for MRMW-14B



Mann-Kendall Statistical Test

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Error Messages: There is a section below the data entry screen that describes data entry errors in more detail and which cell has that error. Thus a user can determine what and where their error is very quickly. Note that a space is seen as text in Excel formulae.

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Site Name = Mohonk Road Industrial Plant Superfund Site	Site ID No. = 02LG	Well Number = MRMW-15B

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-1999	380	30	39	4		
2	December-2000	250	37	63	1.5		
3	January-2003	380	36	68	3		
4	October-2006	180	25	38	3.1		
5	December-2007	170	25	43	3.5	4	
6	October-2008	210	25	55	2.9	3.5	
7	October-2010	150	21	49	2.1	3.6	
8	November-2013	57	13	26	1.7	2.8	
9	October-2014	72	13	36	1.4		
10	November-2015	44.5	15	4.35	1.085	4.9	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-36	-33	-21	-27	0	0
	10	10	10	10	5	0
	189.35	24.00	42.14	2.43	3.76	#DIV/0!
	120.683	8.718	18.470	0.999	0.770	#DIV/0!
	0.637	0.363	0.438	0.411	0.205	#DIV/0!

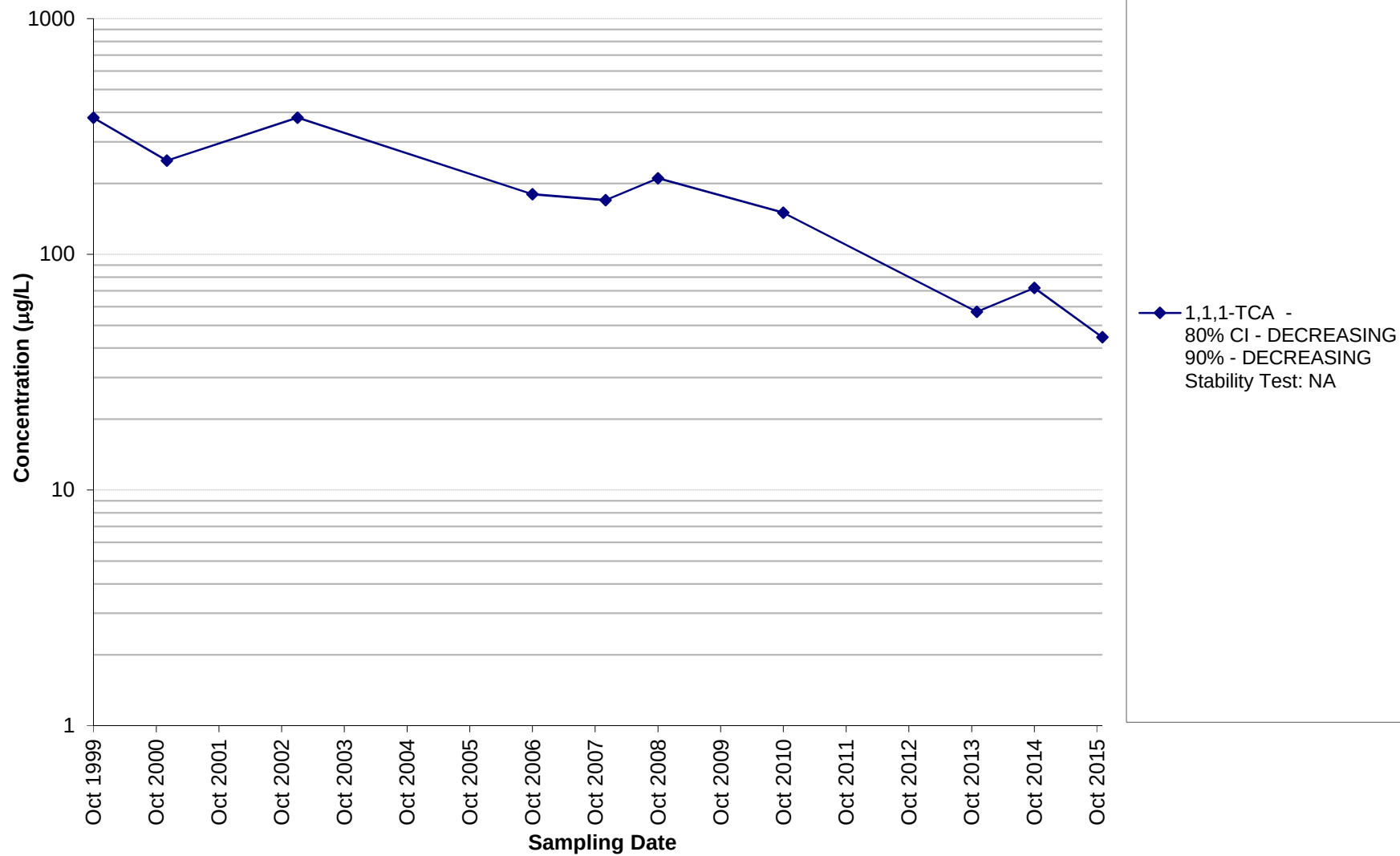
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4
Trend = 90% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4

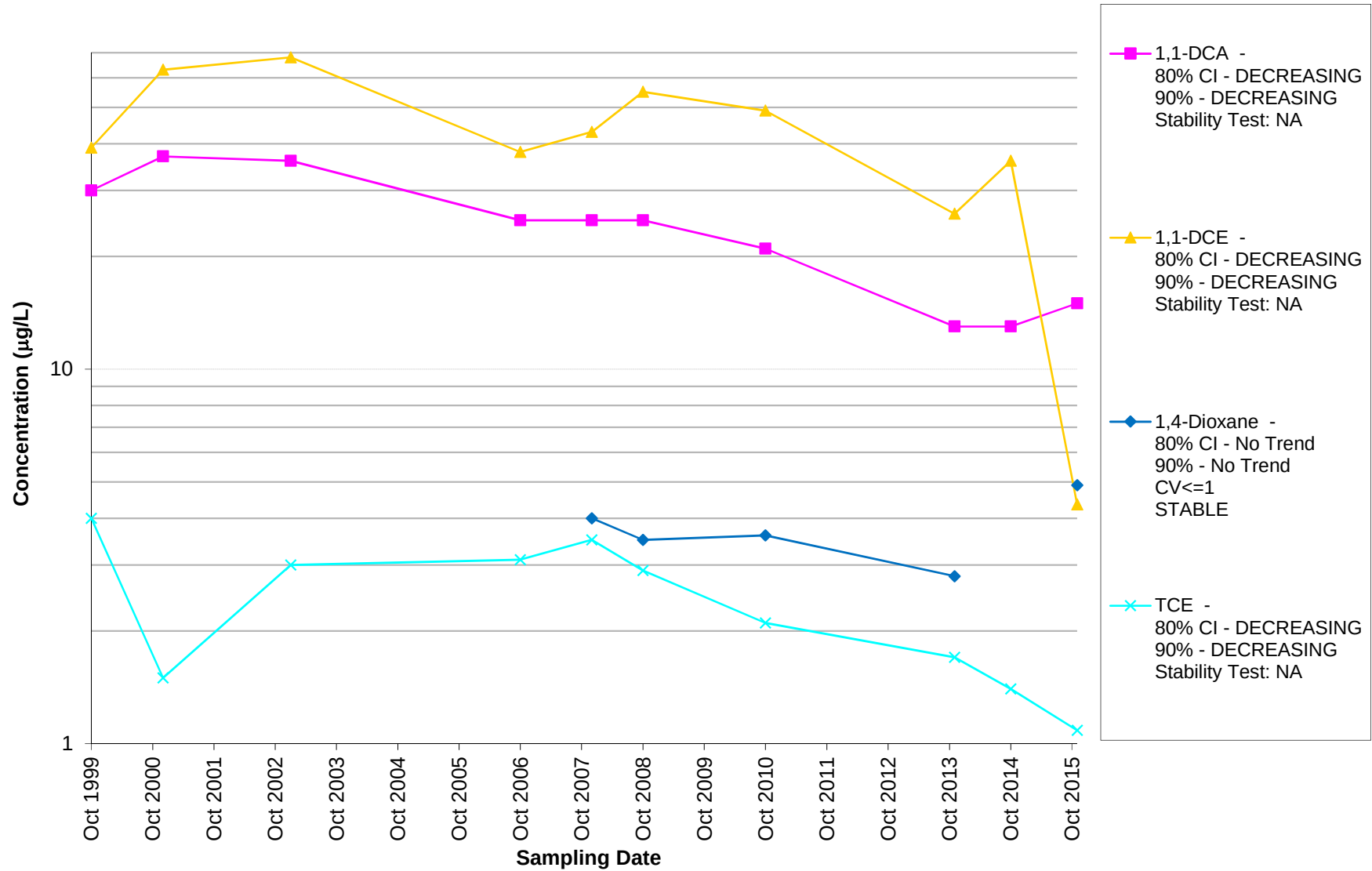
Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	NA	NA	CV<=1 STABLE	n<4 n<4

Data Entry By = KL	Date = 2/16/2016	Checked By = LEA

Mann-Kendall Test for MRMW-15B [1,1,1-TCA Only]



Mann-Kendall Test for MRMW-15B [Sheet 1]



Mann-Kendall Statistical Test

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Site Name = Mohonk Road Industrial Plant Superfund Site	Site ID No. = 02LG	Well Number = MRMW-16

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2006	140	25	60	12		
2	December-2007	140	11	53	8.8	5.1	
3	October-2008	110	11	54	8.4	4.9	
4	October-2009	130	13	56	7.4	1	
5	October-2010	69	8.3	41	5.9	3.6	
6	November-2013	35	3.3	21	3.2	2.3	
7	October-2014	23	3.3	20	0.25		
8	November-2015	28	4.9	27	2.7	5.3	
9							
10							

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-23	-18	-18	-26	-1	0
	8	8	8	8	6	0
	84.38	9.98	41.50	6.08	3.70	#DIV/0!
	51.472	7.118	16.622	3.842	1.745	#DIV/0!
	0.610	0.714	0.401	0.632	0.472	#DIV/0!

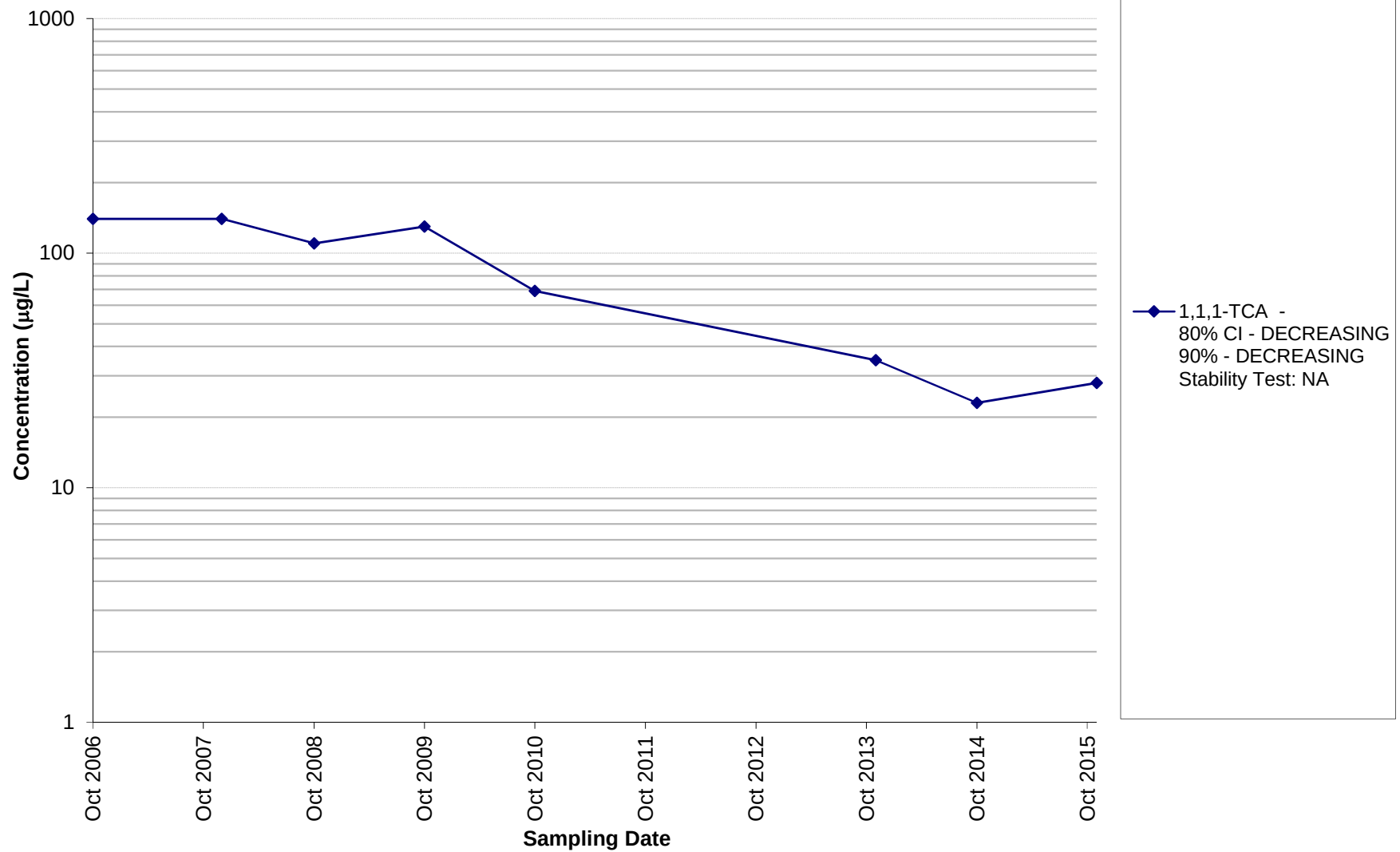
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4
Trend = 90% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4

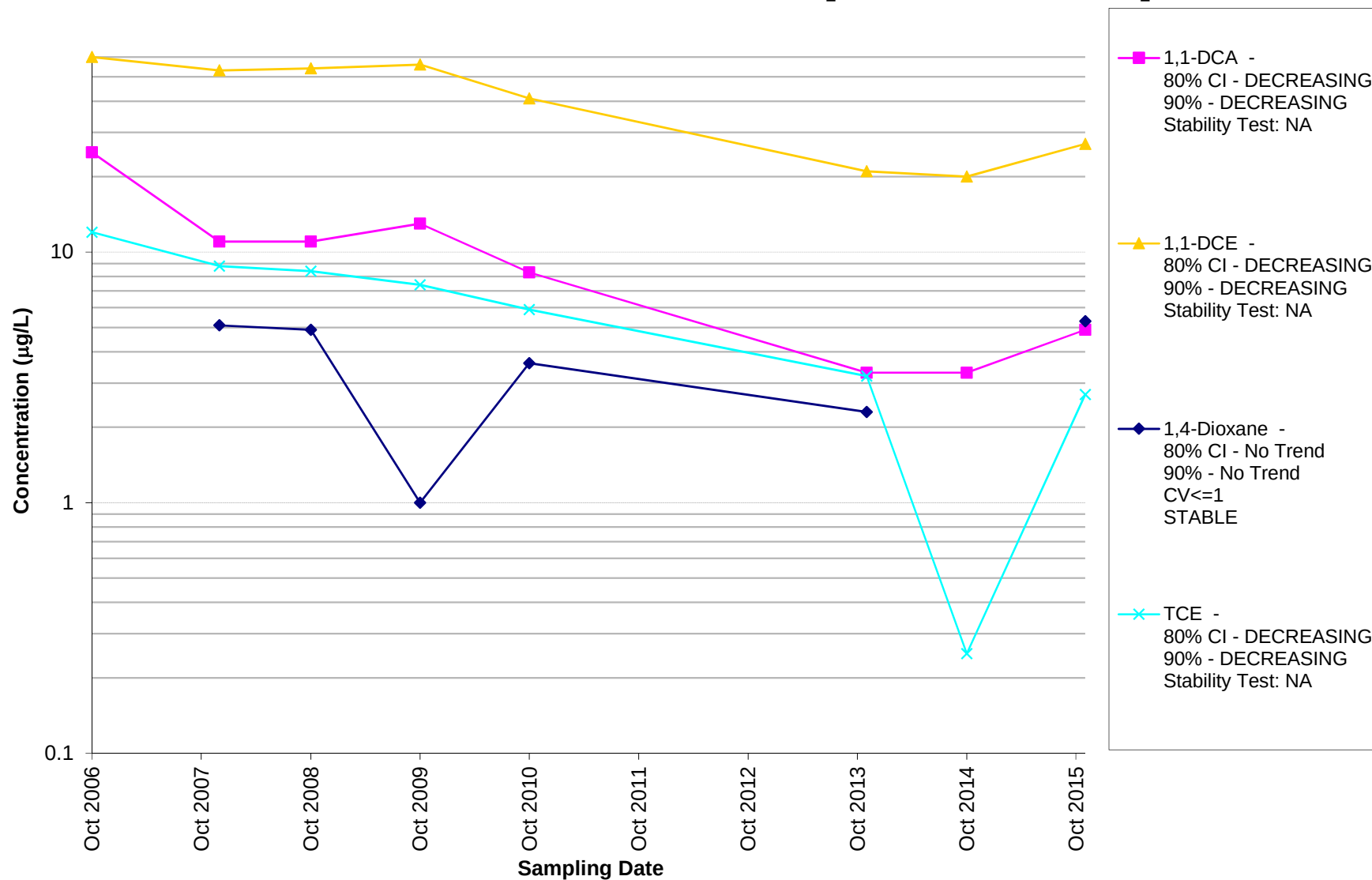
Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	NA	NA	CV<=1 STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-16 [1,1,1-TCA Only]



Mann-Kendall Test for MRMW-16 [Other Constituents]



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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-17-1

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2006	79	16	38	7.9		
2	December-2007	77	12	37	6.4	4.3	
3	October-2008	73	15	50	6.7	6.6	
4	October-2009	34	9.2	24	5.4	4.9	
5	October-2010	48	11	34	5.2	2.5	
6	November-2013	22	6.4	21	4.1	2.6	
7	October-2014	22	7.4	19	3.8		
8	November-2015	11	4.7	14	2	1	
9							
10							

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-25	-22	-22	-26	-9	0
	8	8	8	8	6	0
	45.75	10.21	29.63	5.19	3.65	#DIV/0!
	27.525	4.037	12.082	1.868	2.007	#DIV/0!
	0.602	0.395	0.408	0.360	0.550	#DIV/0!

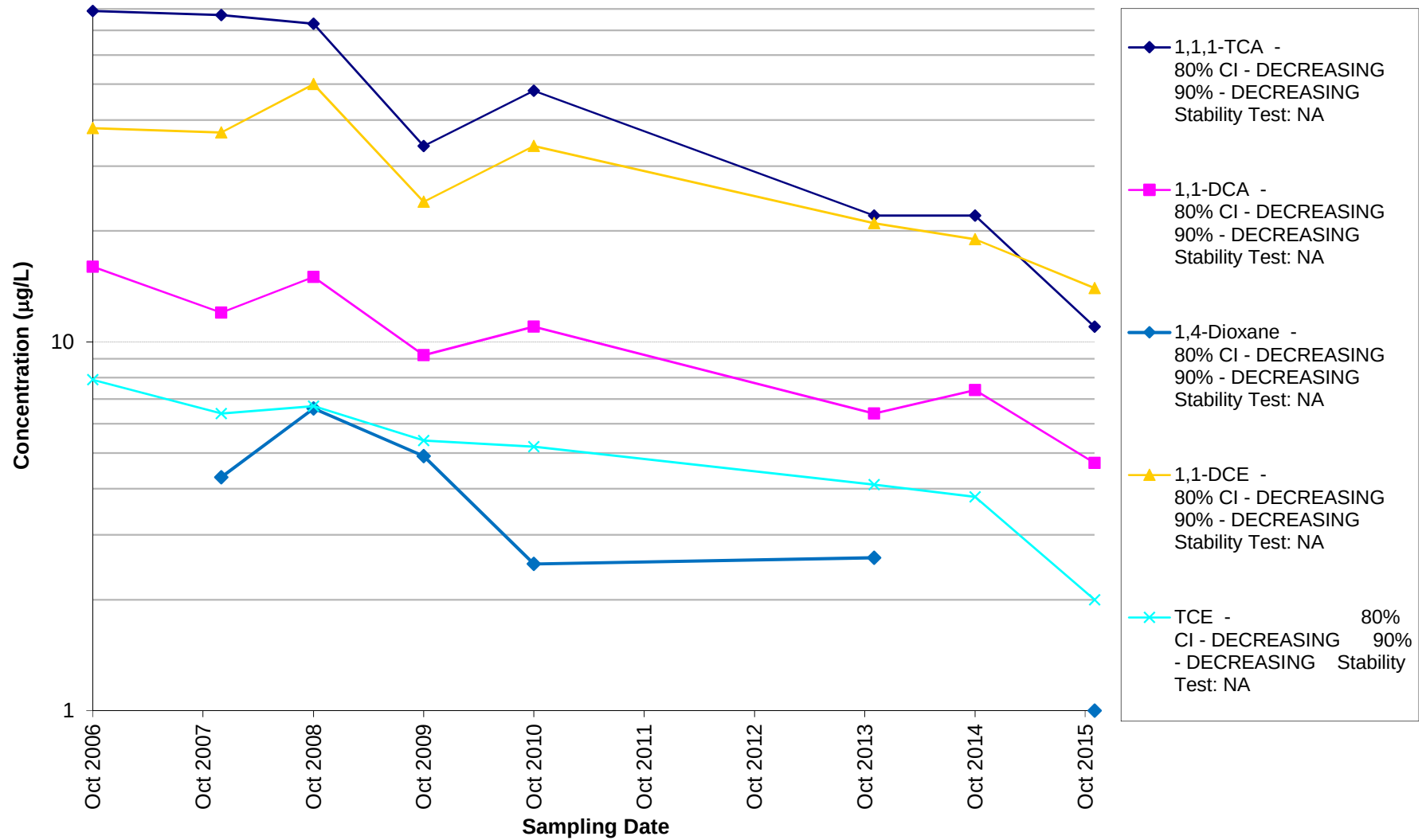
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	DECREASING	N<4
Trend = 90% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	DECREASING	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	NA	NA	NA	n<4 n<4

Data Entry By = KL	Date = 2/16/2016	Checked By = LEA

Mann-Kendall Test for MRMW-17-1



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Error Messages: There is a section below the data entry screen that describes data entry errors in more detail and which cell has that error. Thus a user can determine what and where their error is very quickly. Note that a space is seen as text in Excel formulae.

Data Entry and Error Messages: When there are less than four rounds of data entered, instead of getting an "**ERROR**" message, only "**n<4**" is displayed. But, if **text**, a **zero** or a **negative number** is inadvertently entered, the "**ERROR**" message is displayed. Thus, during data entry, an "ERROR" message is only displayed when there actually is an error. Note that the **date must be entered before sample results collected on that date are entered** to avoid an error message.

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Site Name = Mohonk Road Industrial Plant Superfund Site	Site ID No. = 02LG	Well Number = MRMW-17-2

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2006	73	18	37	5.8		
2	December-2007	49	15	26	5.3	4.8	
3	October-2008	64	17	47	5.4	8.7	
4	October-2009	36	12	26	4.1	6.8	
5	October-2010	39	12	32	4.2	3.3	
6	November-2013	24	10	27	3.7	3.5	
7	October-2014	16	9.7	19	2.8		
8	November-2015	12	7.8	18	2.2	4.8	
9							
10							

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-24	-25	-15	-24	-4	0
	8	8	8	8	6	0
	39.13	12.69	29.00	4.19	5.32	#DIV/0!
	21.951	3.648	9.562	1.278	2.076	#DIV/0!
	0.561	0.288	0.330	0.305	0.390	#DIV/0!

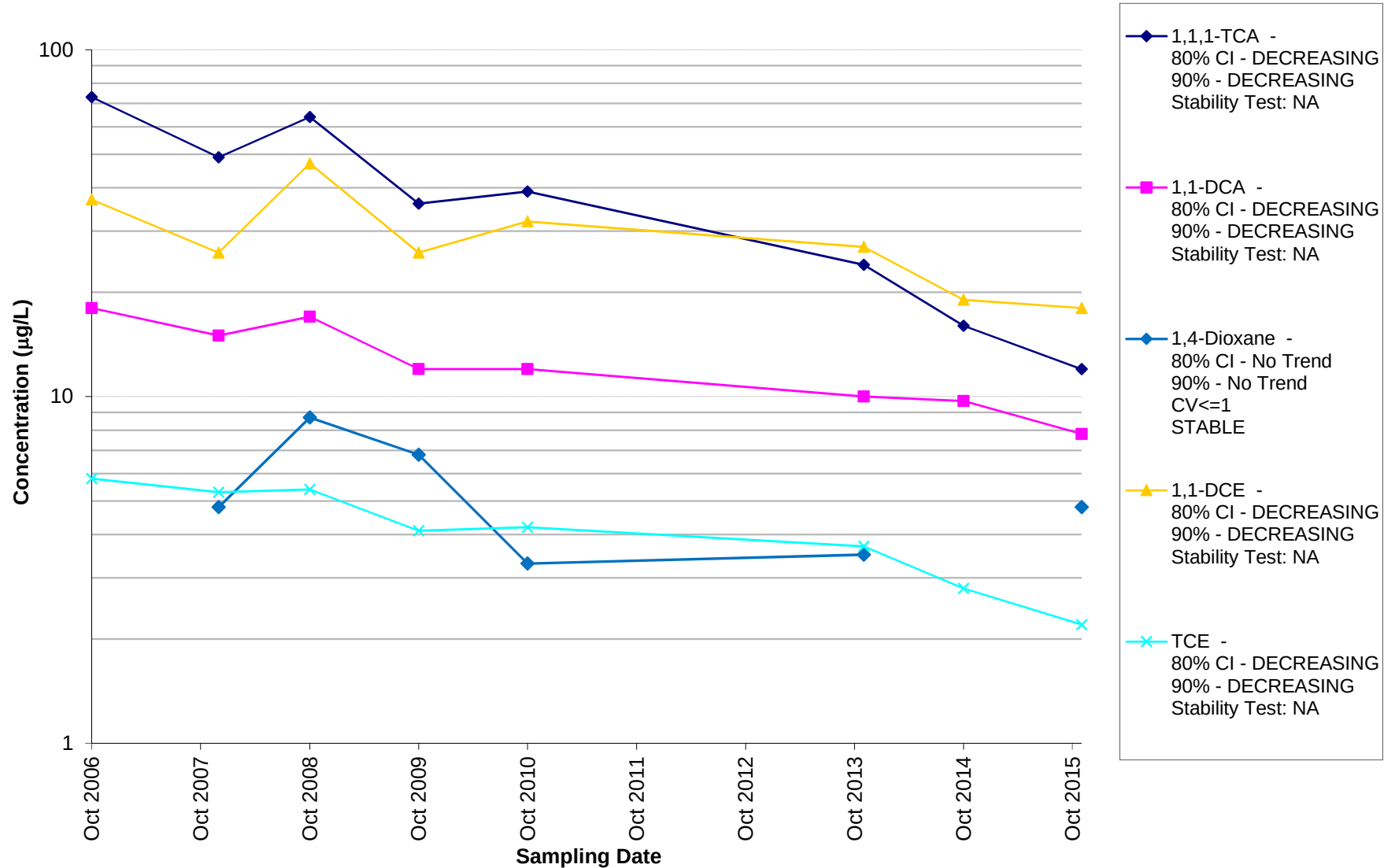
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4
Trend = 90% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	NA	NA	CV<=1 STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-17-2



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Site Name = Mohonk Road Industrial Plant Superfund Site	Site ID No. = 02LG	Well Number = MRMW-17-3

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2006	65	19	35	0.74		
2	December-2007	56	16	30	0.55	4.7	
3	October-2008	59	19	47	0.25	7.8	
4	October-2009	36	12	31	0.35	5.7	
5	October-2010	37	13	32	0.25	3.2	
6	November-2013	24	13	29	0.25	3.8	
7	October-2014	17	12	22	0.25		
8	November-2015	4.2	15	19	0.45	3.1	
9							
10							

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-24	-11	-18	-10	-9	0
	8	8	8	8	6	0
	37.28	14.88	30.63	0.39	4.72	#DIV/0!
	21.627	2.900	8.467	0.182	1.802	#DIV/0!
	0.580	0.195	0.276	0.471	0.382	#DIV/0!

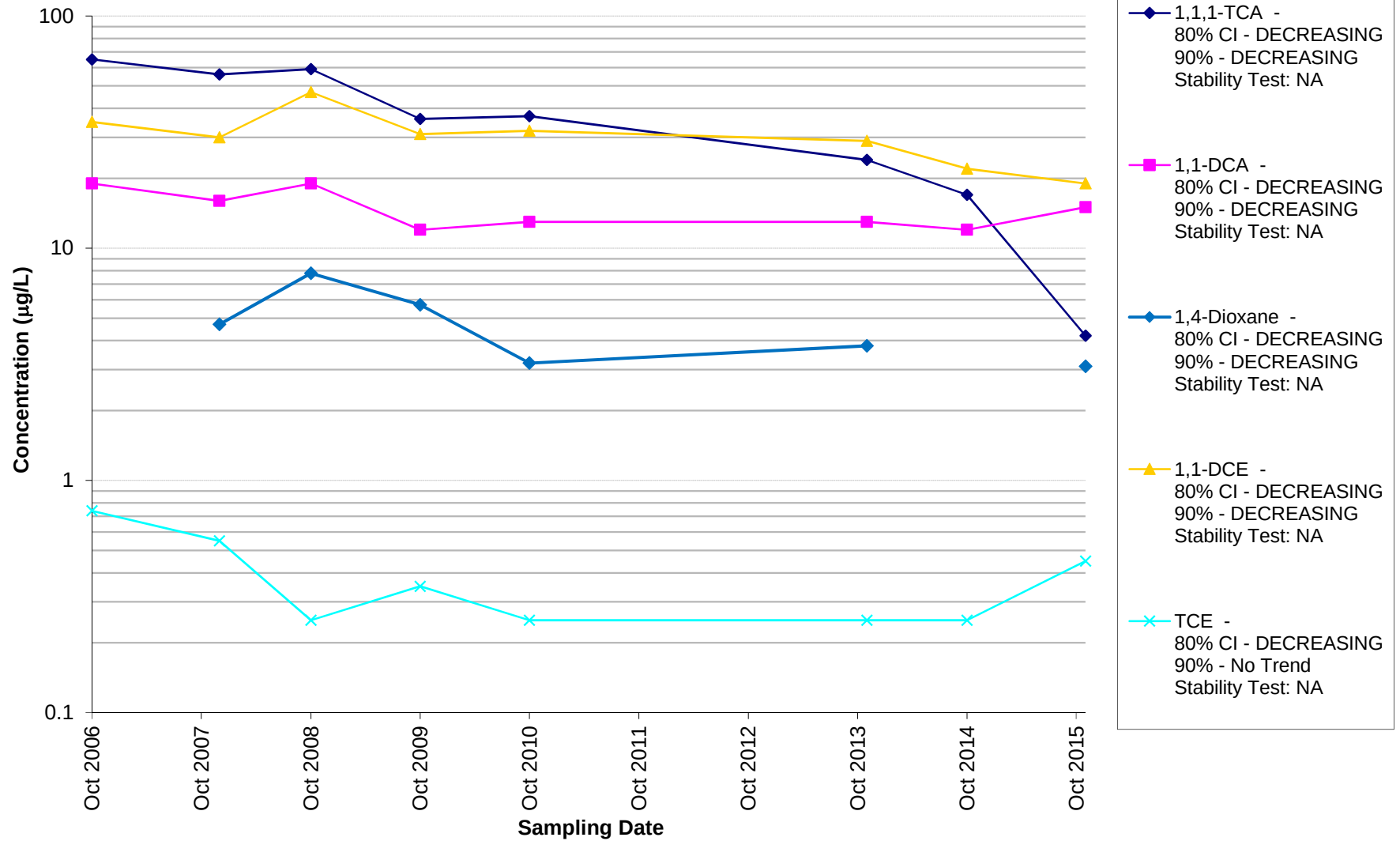
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	DECREASING	N<4
Trend = 90% Confidence Level	DECREASING	DECREASING	DECREASING	No Trend	DECREASING	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	NA	NA	NA	n<4 n<4

Data Entry By = KL	Date = 2/16/2016	Checked By = LEA

Mann-Kendall Test for MRMW-17-3



Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-18-1

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2004	0.25	0.43	0.23	0.25	1	
2	October-2005	0.25	0.49	0.17	0.25	1	
3	October-2006	0.25	0.3	0.25	0.25	1	
4	December-2007	0.25	0.32	0.25	0.25	1	
5	October-2008	0.25	0.25	0.25	0.25	1	
6	October-2009	0.25	0.25	0.25	0.25	1	
7	October-2010	0.25	0.25	0.25	0.25	1	
8	November-2013	0.25	0.25	0.25	0.25	1	
9	October-2014	0.25	0.61	0.25	0.25		
10	November-2015	0.25	0.94	0.37	0.25	1	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	0	-1	22	0	0	0
	10	10	10	10	9	0
	0.25	0.41	0.25	0.25	1.00	#DIV/0!
	0.000	0.224	0.048	0.000	0.000	#DIV/0!
	0.000	0.547	0.192	0.000	0.000	#DIV/0!

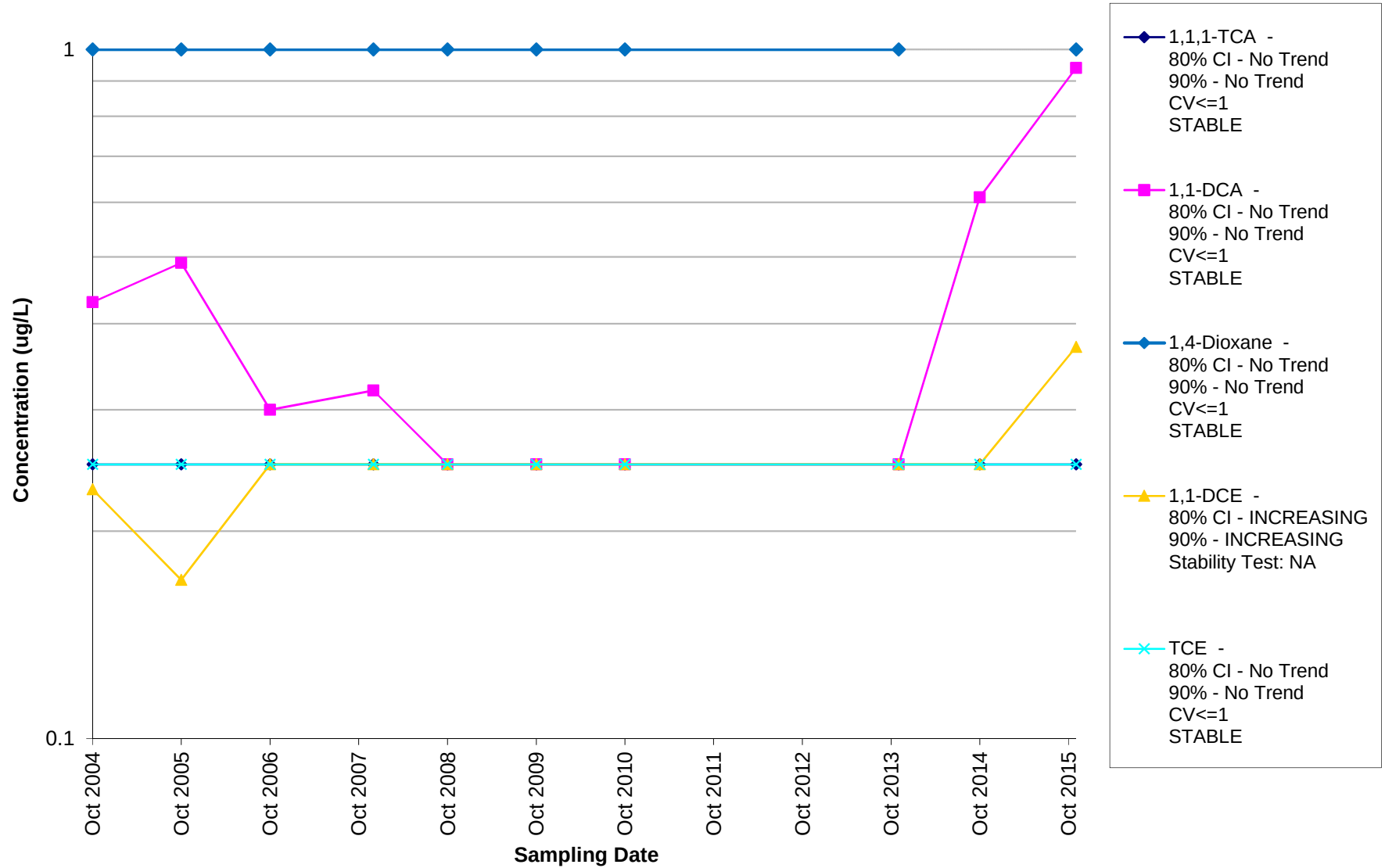
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	No Trend	INCREASING	No Trend	No Trend	N<4
Trend = 90% Confidence Level	No Trend	No Trend	INCREASING	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	CV<=1 STABLE	NA	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By = KL	Date = 2/16/2016	Checked By = LEA

Mann-Kendall Test for MRMW-18-1



Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-18-2

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2004	0.25	0.23	0.25	0.25	1	
2	October-2005	0.25	0.26	0.25	0.25	0.52	
3	October-2006	0.25	0.19	0.25	0.25	1	
4	December-2007	0.25	0.25	0.25	0.25	1	
5	October-2008	0.25	0.25	0.25	0.25	1	
6	October-2009	0.25	0.25	0.25	0.25	1	
7	October-2010	0.25	0.25	0.25	0.25	1	
8	November-2013	0.25	0.25	0.25	0.25	1	
9	October-2014	0.25	0.78	0.25	0.25		
10	November-2015	0.25	0.71	0.25	0.25	1	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	0	19	0	0	6	0
	10	10	10	10	9	0
	0.25	0.34	0.25	0.25	0.95	#DIV/0!
	0.000	0.214	0.000	0.000	0.160	#DIV/0!
	0.000	0.626	0.000	0.000	0.169	#DIV/0!

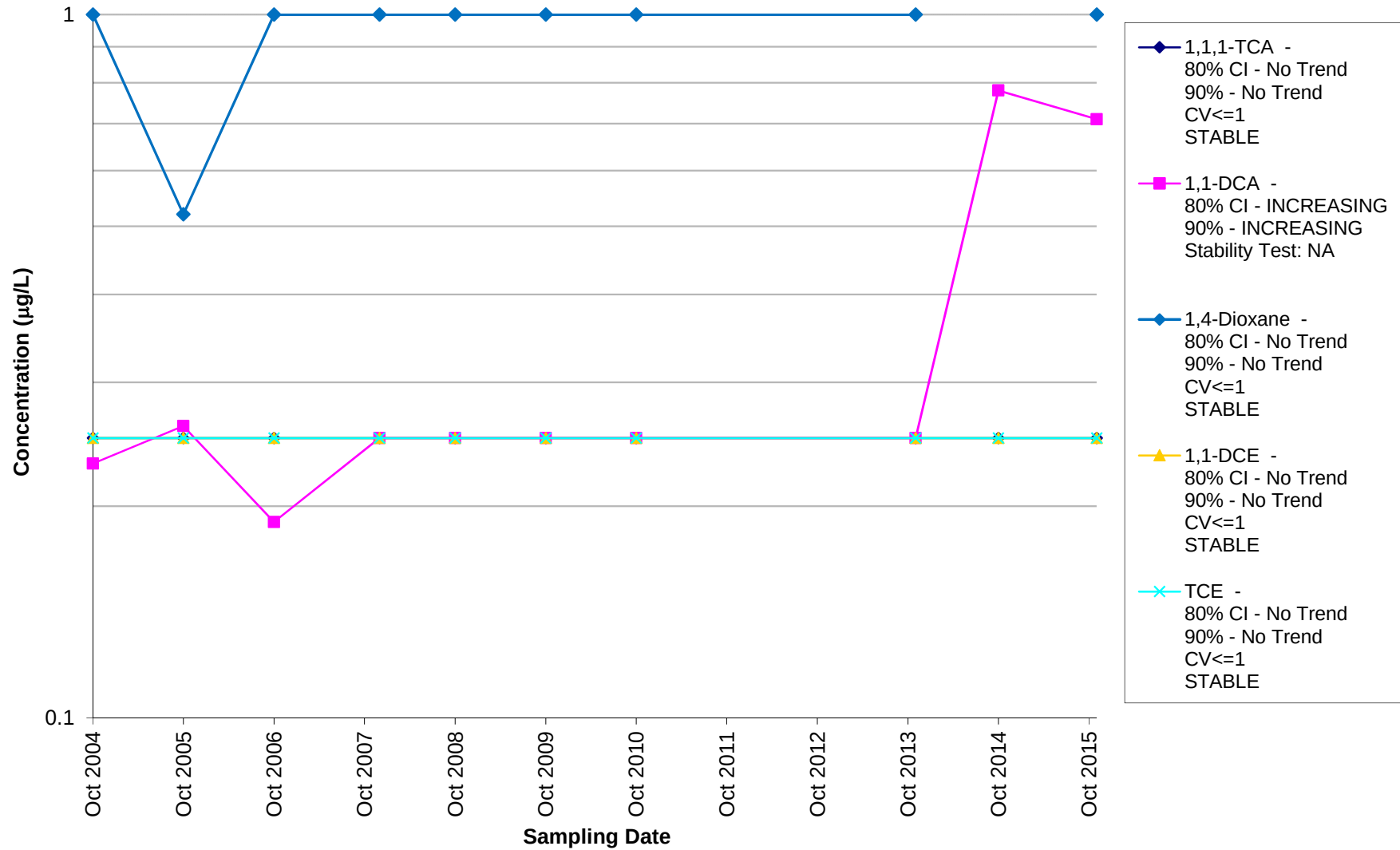
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	INCREASING	No Trend	No Trend	No Trend	N<4
Trend = 90% Confidence Level	No Trend	INCREASING	No Trend	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	NA	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-18-2



Mann-Kendall Statistical Test

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-18-3

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2004	0.25	0.4	0.17	0.25	1	
2	October-2005	0.25	0.49	0.15	0.25	0.57	
3	October-2006	0.25	0.39	0.25	0.25	1	
4	December-2007	0.25	0.3	0.25	0.25	1	
5	October-2008	0.25	0.25	0.25	0.25	1	
6	October-2009	0.25	0.25	0.25	0.25	5.1	
7	October-2010	0.25	0.25	0.25	0.25	1	
8	November-2013	0.25	0.25	0.25	0.25	1	
9	October-2014	0.25	0.25	0.25	0.25		
10	November-2015	0.25	0.25	0.25	0.25	1	

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	0	-28	15	0	7	0
	10	10	10	10	9	0
	0.25	0.31	0.23	0.25	1.41	#DIV/0!
	0.000	0.087	0.038	0.000	1.392	#DIV/0!
	0.000	0.283	0.165	0.000	0.989	#DIV/0!

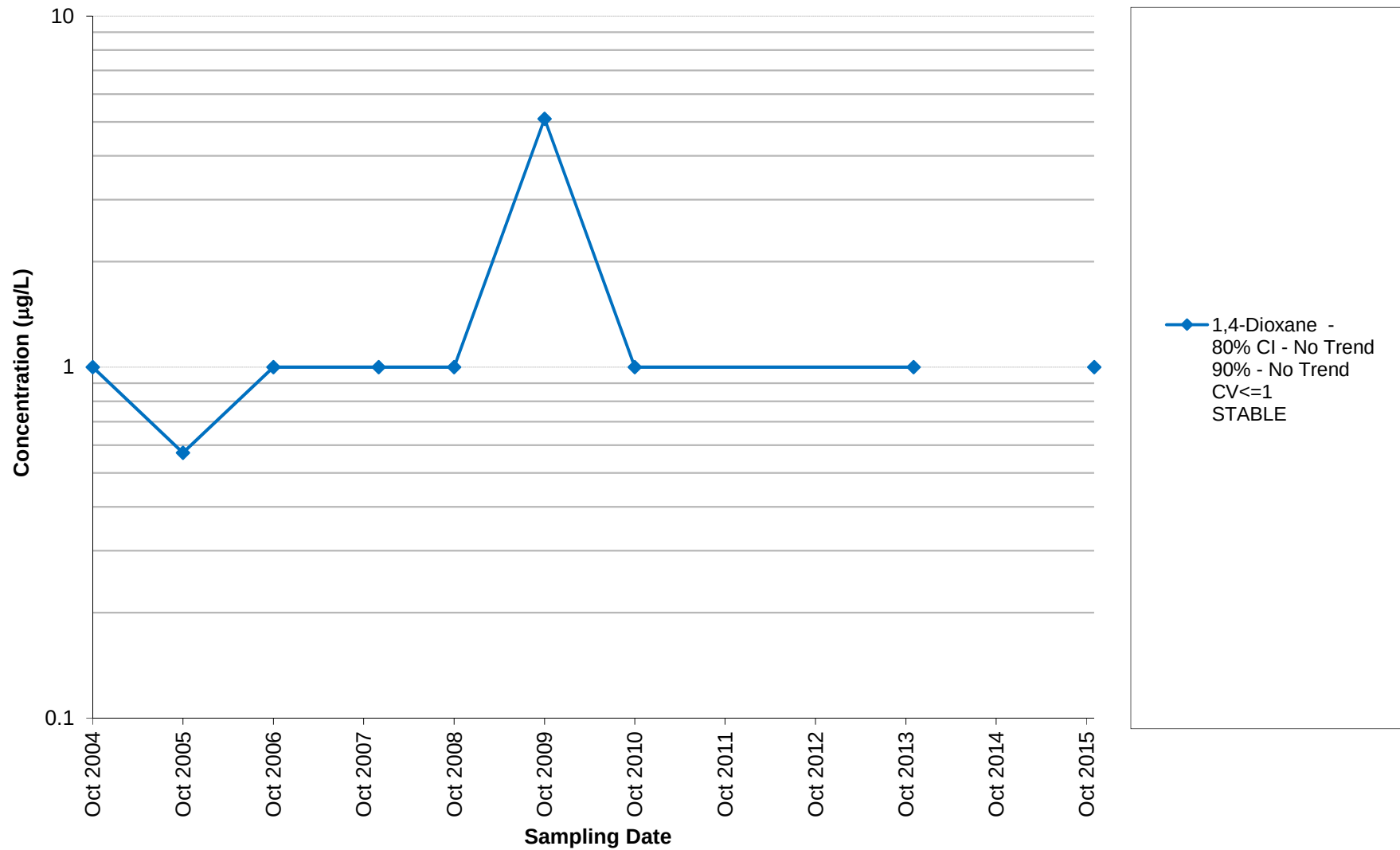
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	DECREASING	INCREASING	No Trend	No Trend	N<4
Trend = 90% Confidence Level	No Trend	DECREASING	No Trend	No Trend	No Trend	N<4

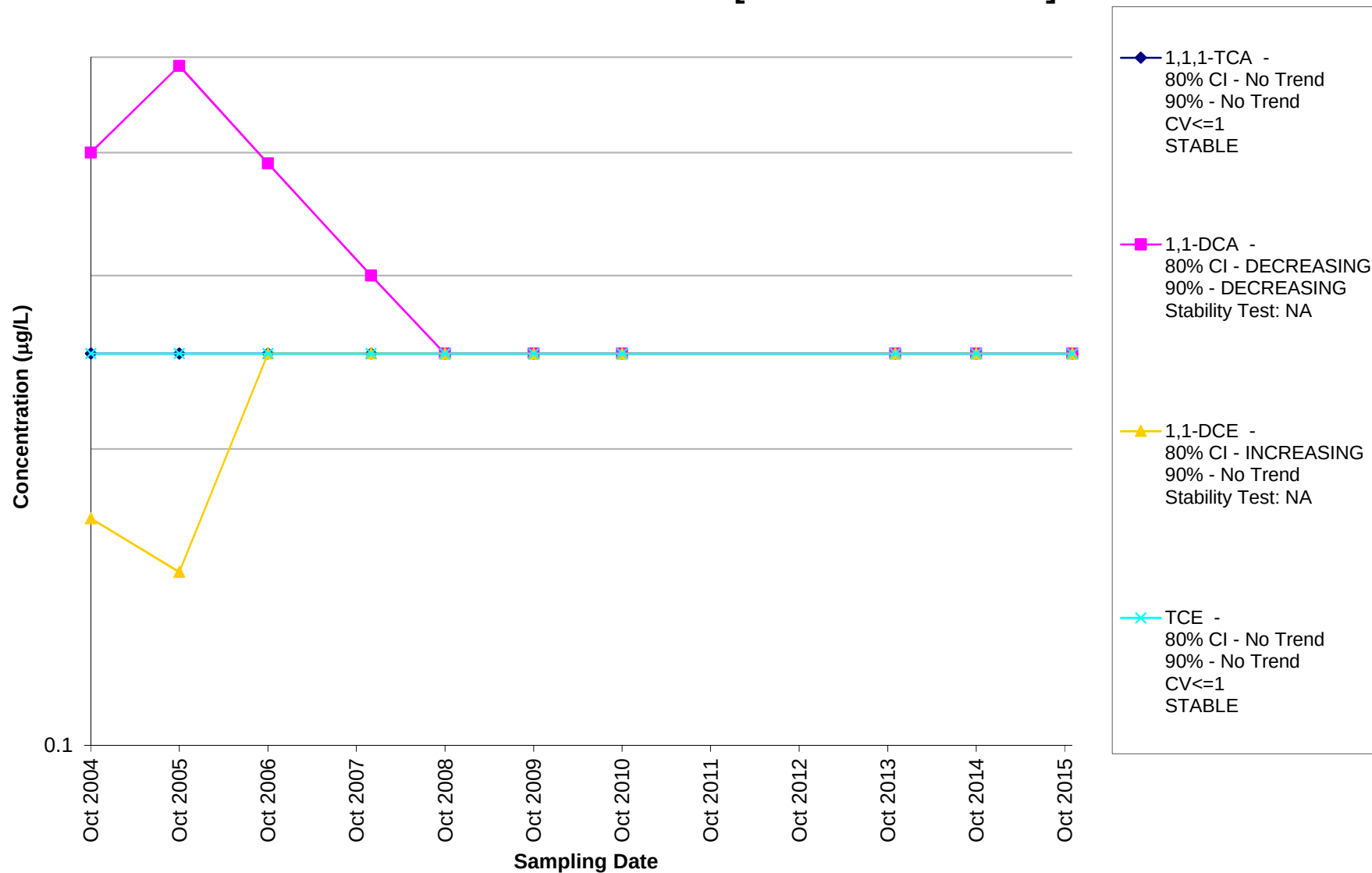
Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	NA	NA	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By = KL	Date = 2/16/2016	Checked By = LEA

Mann-Kendall Test for MRMW-18-3 [1,4-Dioxane Only]



Mann-Kendall Test for MRMW-18-3 [Other Constituents]



Mann-Kendall Statistical Test

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-19-1

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2004	0.25	0.25	0.25	0.25	1	
2	October-2006	0.25	0.25	0.25	0.25		
3	December-2007	0.25	0.25	0.25	0.25	1	
4	October-2008	0.25	0.25	0.53	0.25	1	
5	October-2009	0.25	0.98	0.25	0.25	3.3	
6	October-2010	0.25	1.2	0.94	0.25	1	
7	November-2013	0.25	0.56	0.52	0.25	1	
8	October-2014	0.25	0.57	0.58	0.25		
9	November-2015	0.25	1.1	1	0.25	2.8	
10							

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	0	20	22	0	5	0
	9	9	9	9	7	0
	0.25	0.60	0.51	0.25	1.59	#DIV/0!
	0.000	0.395	0.296	0.000	1.011	#DIV/0!
	0.000	0.657	0.583	0.000	0.637	#DIV/0!

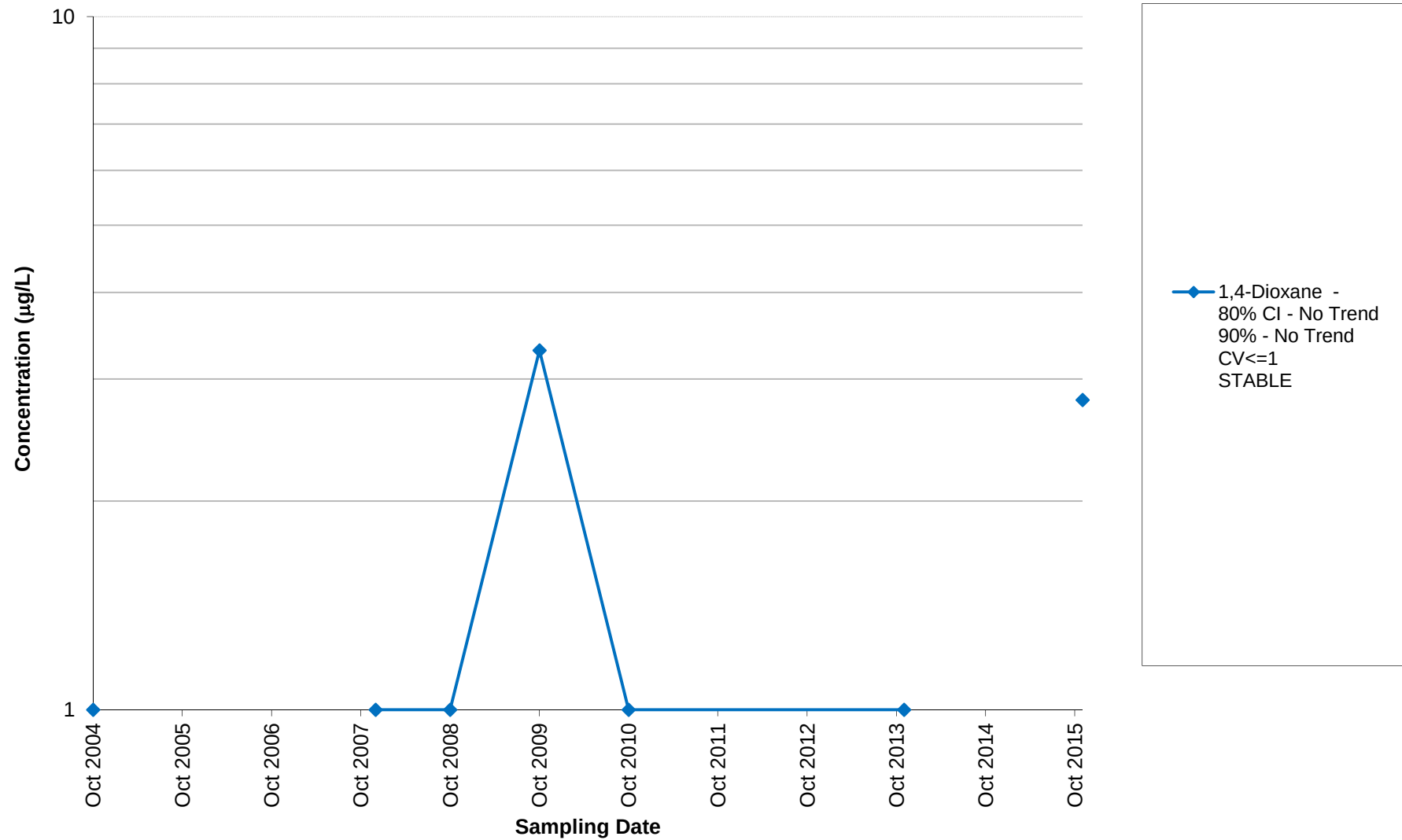
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	INCREASING	INCREASING	No Trend	No Trend	N<4
Trend = 90% Confidence Level	No Trend	INCREASING	INCREASING	No Trend	No Trend	N<4

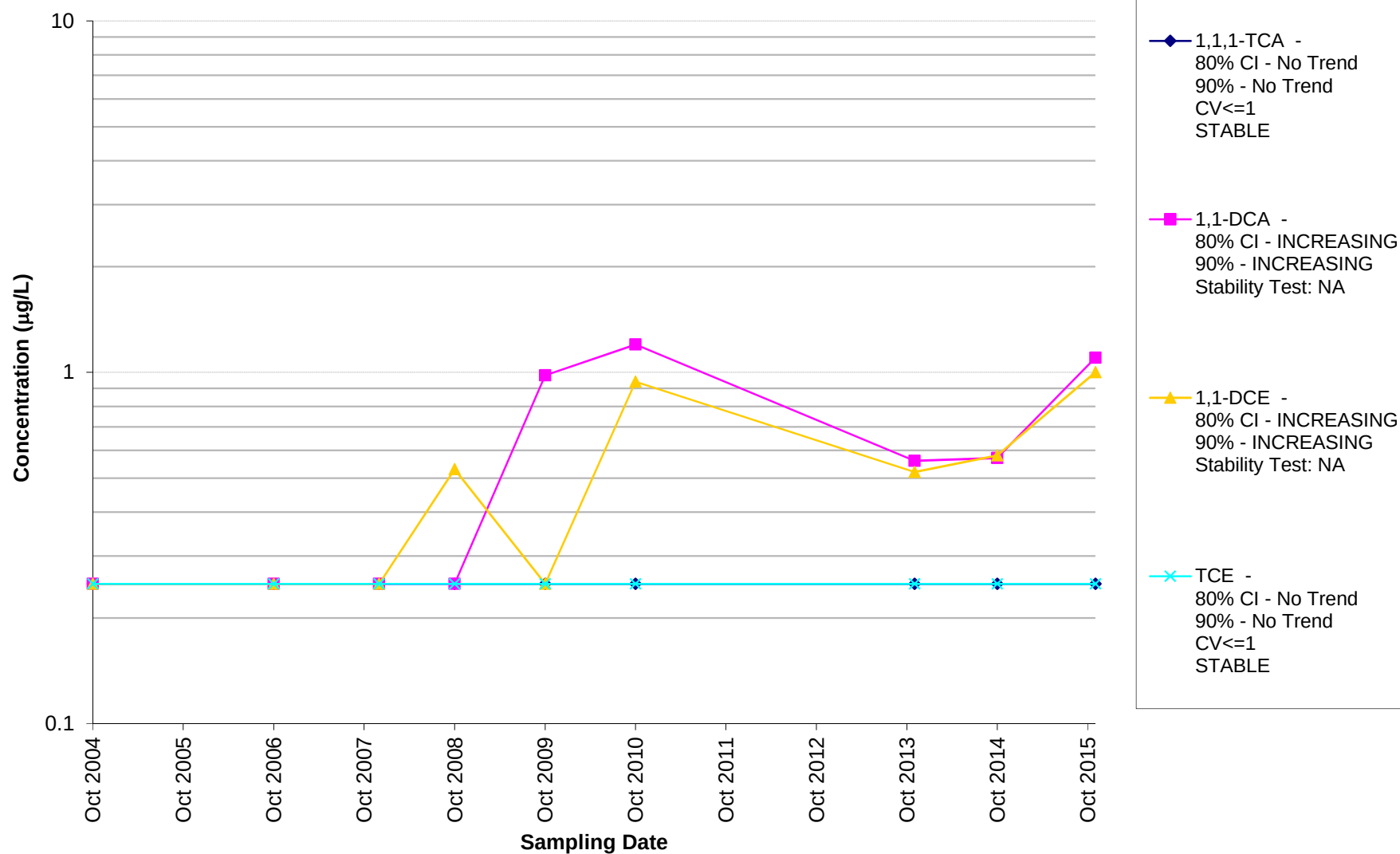
Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	NA	NA	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By = KL	Date = 2/16/2016	Checked By = LEA

Mann-Kendall Test for MRMW-19-1 [1,4-Dioxane Only]



Mann-Kendall Test for MRMW-19-1 [Other Constituents]



Mann-Kendall Statistical Test

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-19-2

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2004	0.25	0.25	0.25	0.25	1	
2	October-2006	0.25	0.25	0.25	0.25		
3	December-2007	0.25	0.25	0.25	0.25	1	
4	October-2008	0.25	1.1	0.9	0.25	1	
5	October-2009	0.25	1.1	0.25	0.25	2.6	
6	October-2010	0.25	1.3	0.99	0.25	1	
7	November-2013	0.25	1.5	1.2	0.25	1	
8	October-2014	0.25	1.4	1.1	0.25		
9	November-2015	0.25	1.1	0.99	0.25	2.9	
10							

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	0	22	21	0	7	0
	9	9	9	9	7	0
	0.25	0.92	0.69	0.25	1.50	#DIV/0!
	0.000	0.519	0.422	0.000	0.858	#DIV/0!
	0.000	0.566	0.615	0.000	0.572	#DIV/0!

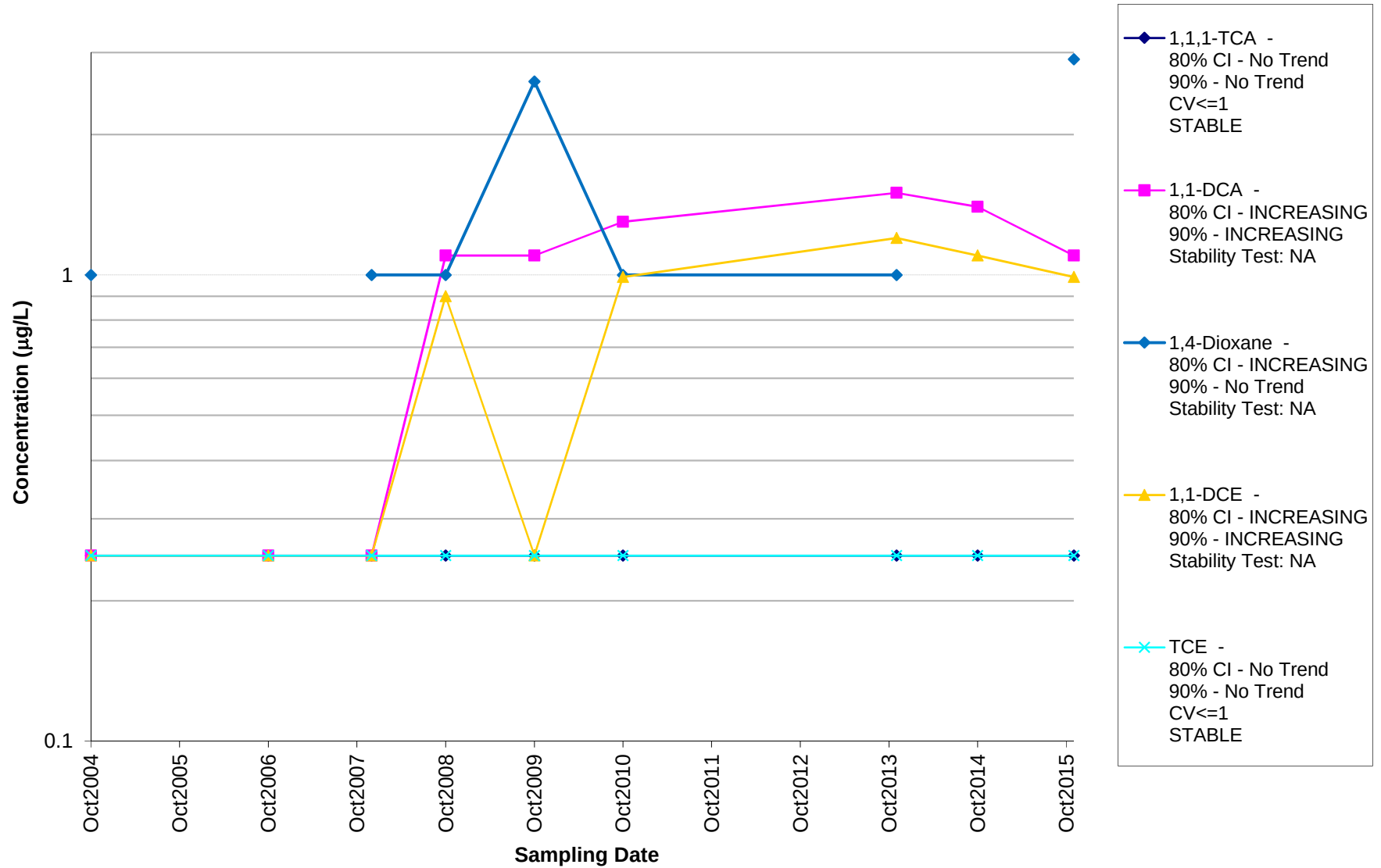
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	INCREASING	INCREASING	No Trend	INCREASING	N<4
Trend = 90% Confidence Level	No Trend	INCREASING	INCREASING	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	NA	NA	CV<=1 STABLE	NA	n<4 n<4

Data Entry By = KL	Date = 2/16/2016	Checked By = LEA

Mann-Kendall Test for MRMW-19-2



Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-19-3

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2004	0.25	0.25	0.25	0.25	1	
2	October-2006	0.25	0.25	0.25	0.25		
3	December-2007	0.25	0.25	0.25	0.25	1	
4	October-2008	0.25	0.91	0.57	0.25	1	
5	October-2009	0.25	0.91	0.25	0.25	2.1	
6	October-2010	0.25	1.2	0.93	0.25	1	
7	November-2013	0.25	1.4	1.1	0.25	1	
8	October-2014	0.25	1.5	1.1	0.25		
9	November-2015	0.25	0.25	0.25	0.25	1	
10							

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	0	19	15	0	0	0
	9	9	9	9	7	0
	0.25	0.77	0.55	0.25	1.16	#DIV/0!
	0.000	0.529	0.387	0.000	0.416	#DIV/0!
	0.000	0.688	0.704	0.000	0.359	#DIV/0!

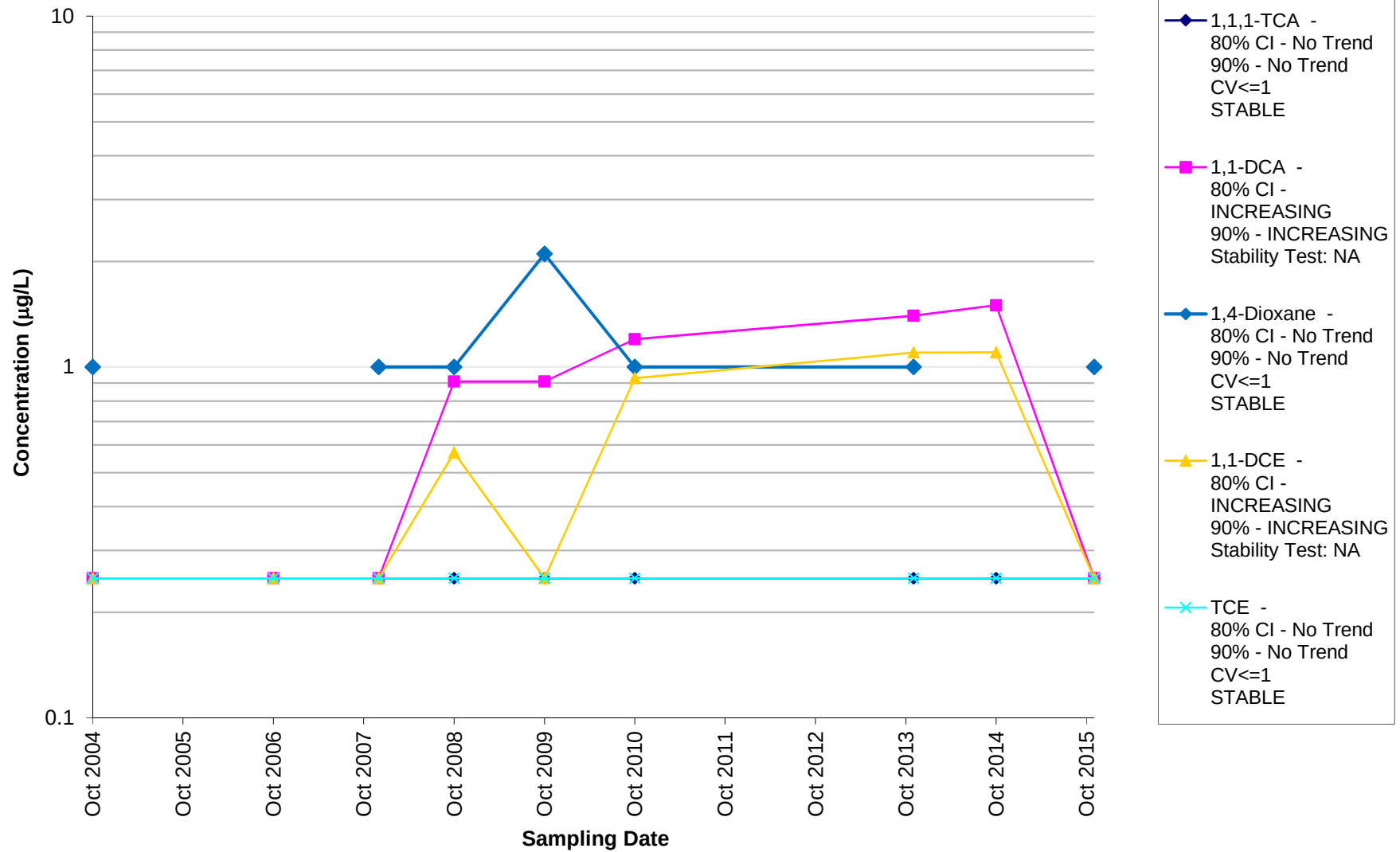
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	INCREASING	INCREASING	No Trend	No Trend	N<4
Trend = 90% Confidence Level	No Trend	INCREASING	INCREASING	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	NA	NA	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By = KL	Date = 2/16/2016	Checked By = LEA

Mann-Kendall Test for MRMW-19-3



Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-20-1

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2006	0.25	0.25	0.25	0.25		
2	December-2007	0.25	0.25	0.25	0.25	1	
3	October-2008	0.25	0.25	0.25	0.25	1	
4	October-2010	0.25	0.25	0.25	0.25	1	
5	November-2013	0.25	0.25	0.25	0.25	1	
6	October-2014	0.25	0.25	0.25	0.25		
7	November-2015	0.25	0.25	0.25	0.25	1	
8							
9							
10							

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	0	0	0	0	0	0
	7	7	7	7	5	0
	0.25	0.25	0.25	0.25	1.00	#DIV/0!
	0.000	0.000	0.000	0.000	0.000	#DIV/0!
	0.000	0.000	0.000	0.000	0.000	#DIV/0!

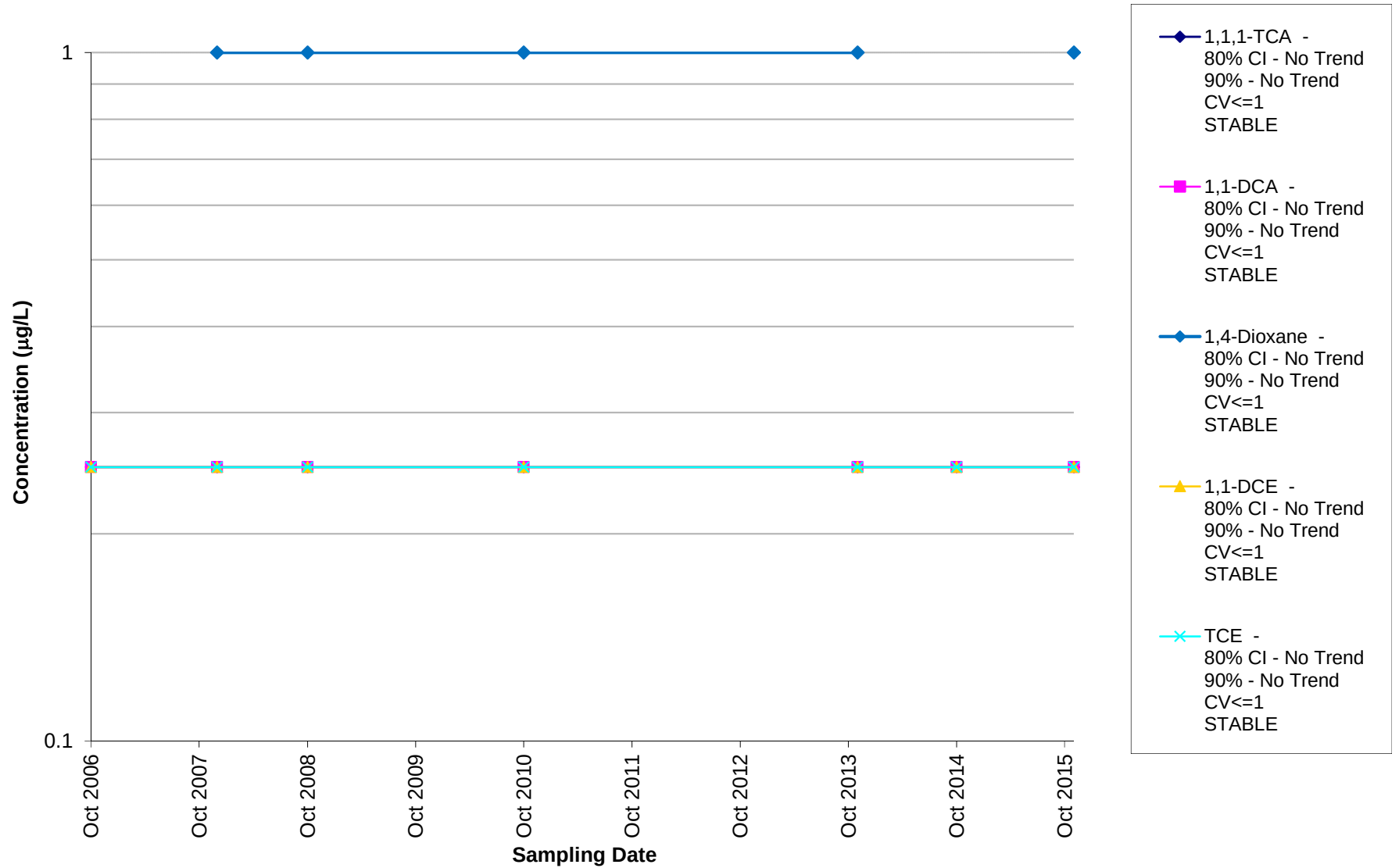
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	N<4
Trend = 90% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By = KL	Date = 2/16/2016	Checked By = LEA

Mann-Kendall Test for MRMW-20-1



Mann-Kendall Statistical Test

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Site Name = Mohonk Road	Site ID No. = 02LG	Well Number = MRMW-20-2

	Compound ->	1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2006	0.25	0.25	0.25	0.25		
2	December-2007	0.25	0.25	0.25	0.25	1	
3	October-2008	0.25	0.25	0.25	0.25	1	
4	October-2010	0.25	0.25	0.25	0.25	1	
5	November-2013	0.25	0.25	0.25	0.25	1	
6	October-2014	0.25	0.25	0.25	0.25		
7	November-2015	0.25	0.25	0.25	0.25	1	
8							
9							
10							

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	0	0	0	0	0	0
	7	7	7	7	5	0
	0.25	0.25	0.25	0.25	1.00	#DIV/0!
	0.000	0.000	0.000	0.000	0.000	#DIV/0!
	0.000	0.000	0.000	0.000	0.000	#DIV/0!

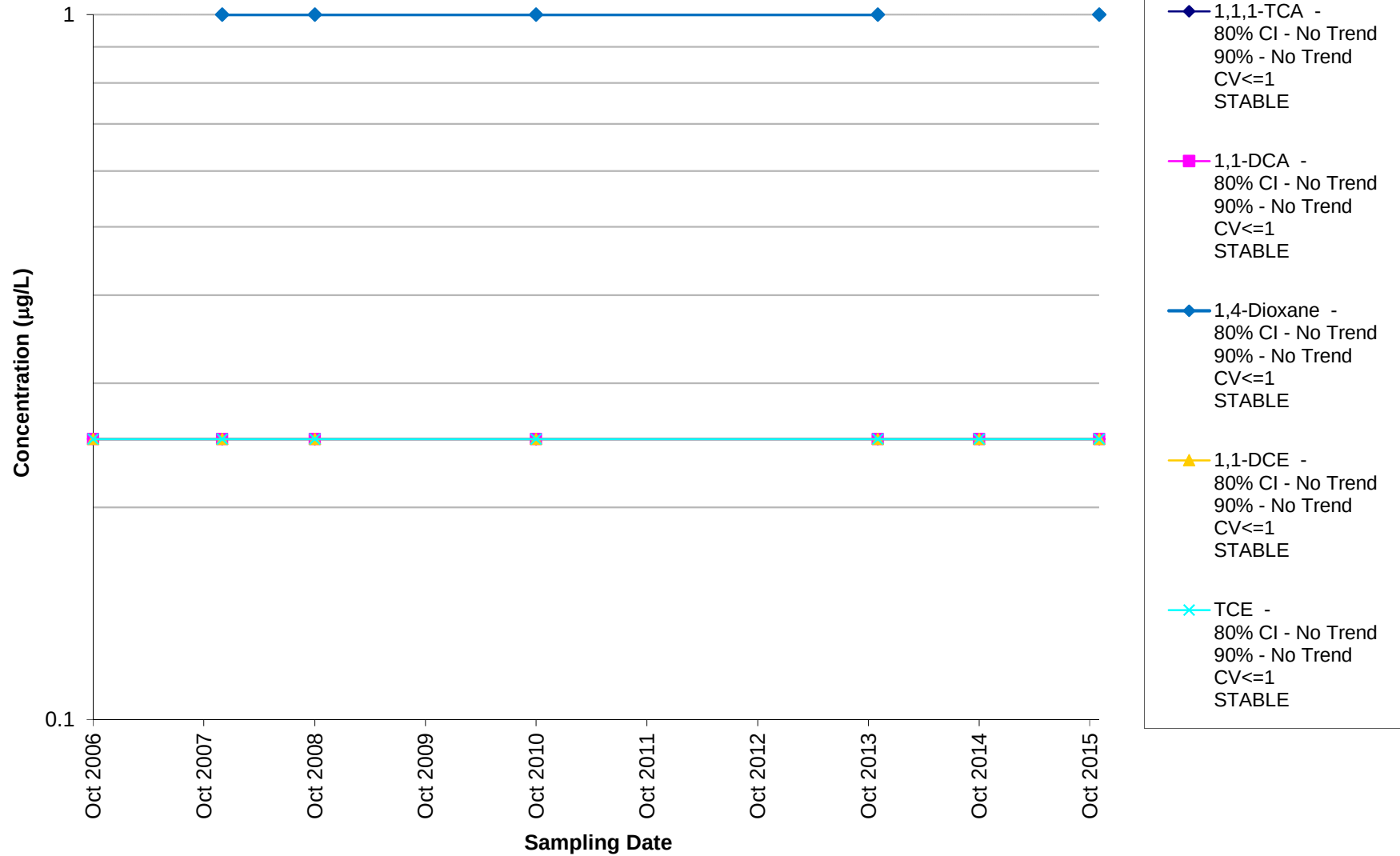
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend	N<4
Trend = 90% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	

Mann-Kendall Test for MRMW-20-2



Mann-Kendall Statistical Test

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-20-3

	Compound ->	1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2006	0.25	0.25	0.25	0.25		
2	December-2007	0.25	0.25	0.25	0.25	1	
3	October-2008	0.25	0.25	0.25	0.25	1	
4	October-2010	0.25	0.25	0.25	0.25	1	
5	November-2013	0.25	0.25	0.25	0.25	1	
6	October-2014	0.25	0.25	0.25	0.25		
7	November-2015	0.25	0.25	0.25	0.25	1	
8							
9							
10							

Mann Kendall Statistic (S) =	0	0	0	0	0	0
Number of Rounds (n) =	7	7	7	7	5	0
Average =	0.25	0.25	0.25	0.25	1.00	#DIV/0!
Standard Deviation =	0.000	0.000	0.000	0.000	0.000	#DIV/0!
Coefficient of Variation(CV)=	0.000	0.000	0.000	0.000	0.000	#DIV/0!

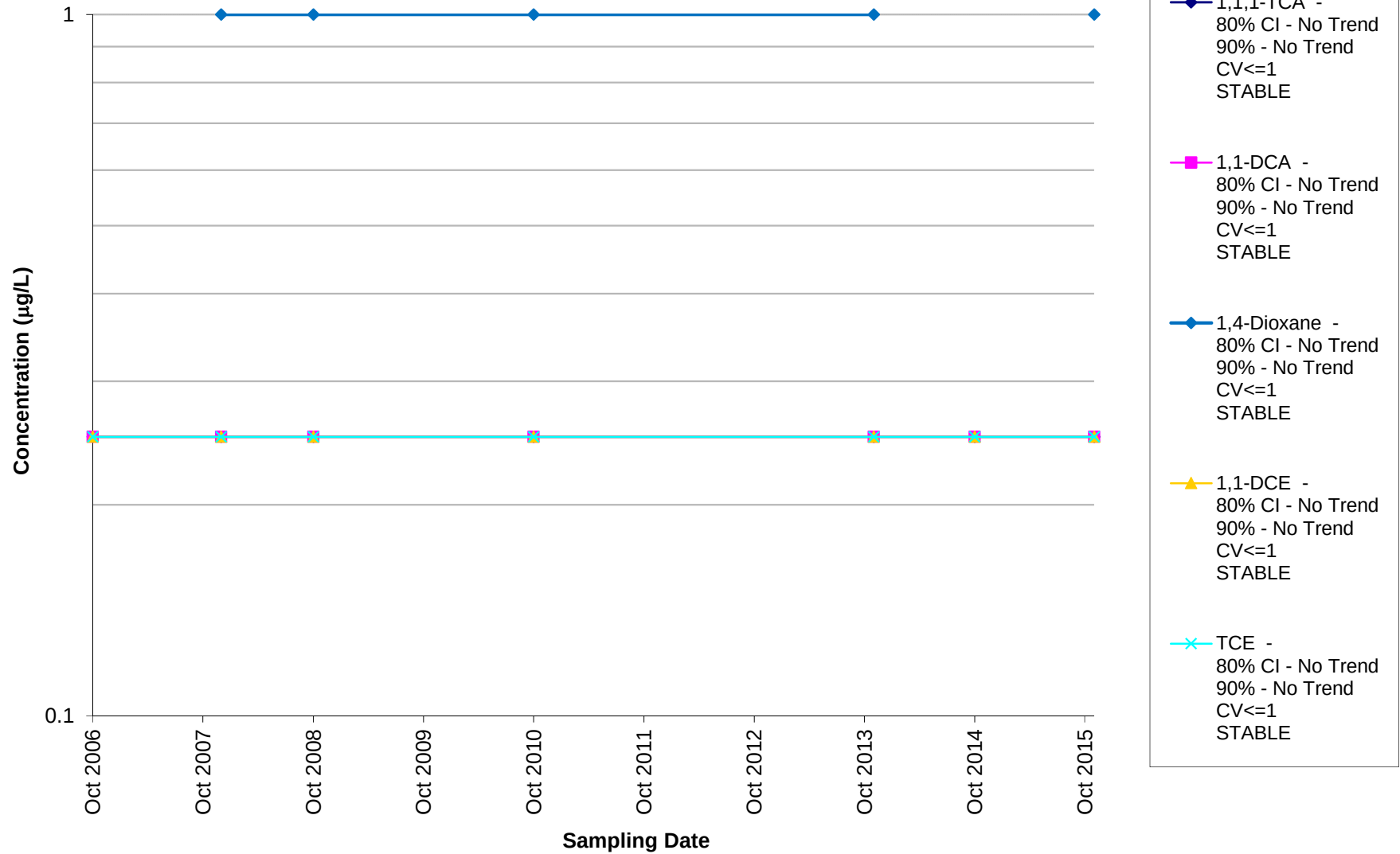
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	N<4
Trend = 90% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-20-3



Mann-Kendall Statistical Test

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MW-21-1

	Compound ->	1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2008	9.3	0.9	5.4	2.4	1	
2	October-2009	7.4	4.3	9.2	2.8	1	
3	October-2010	10	1.5	7.5	3.5	1	
4	November-2013	7.2	0.69	4.3	2.1	1	
5	October-2014	7.3	0.98	4.7	2.2		
6	November-2015	8.2	1	6.4	3	1	
7							
8							
9							
10							

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-3	-1	-3	1	0	0
	6	6	6	6	5	0
	8.23	1.56	6.25	2.67	1.00	#DIV/0!
	1.174	1.368	1.856	0.535	0.000	#DIV/0!
	0.143	0.876	0.297	0.201	0.000	#DIV/0!

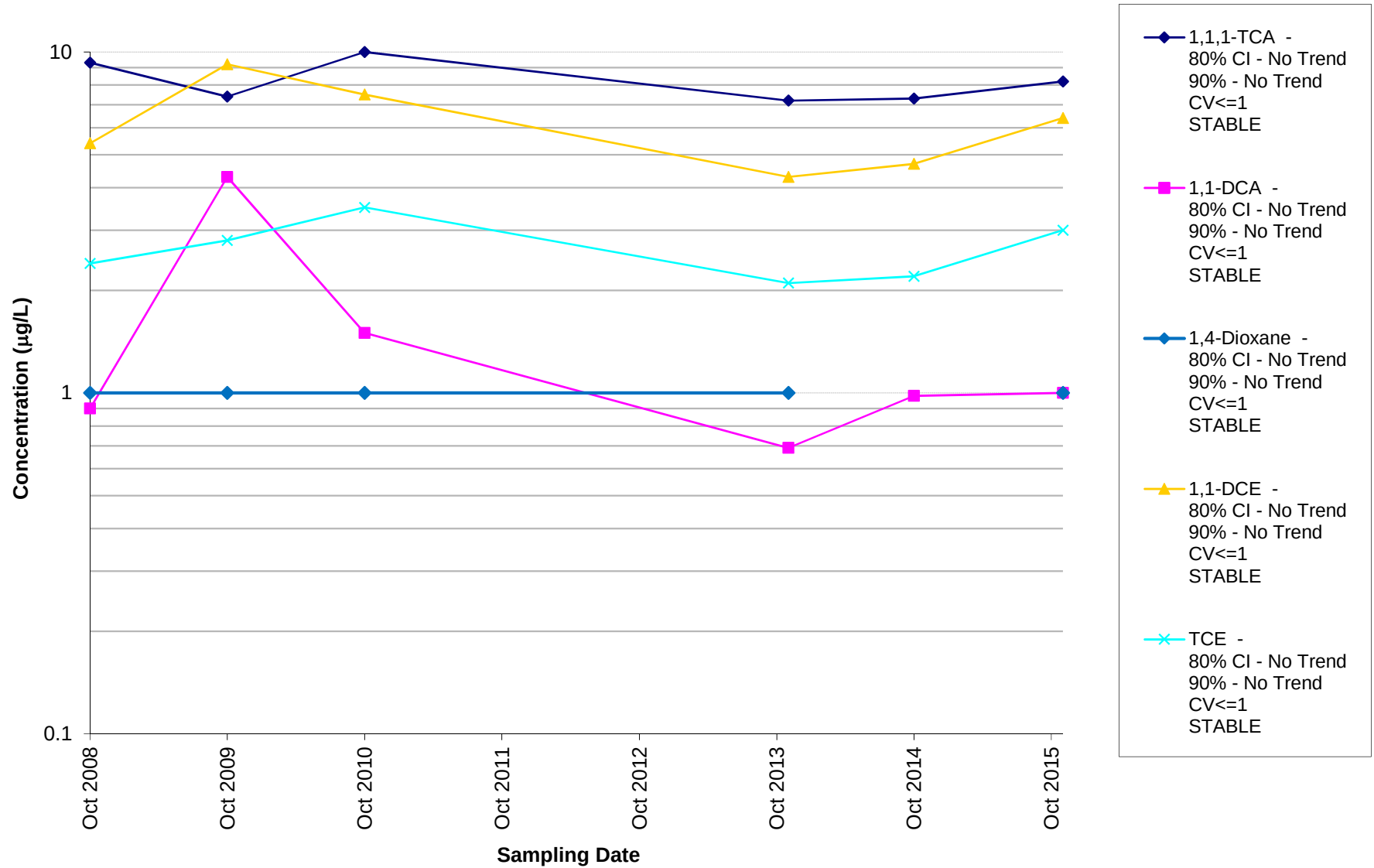
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	N<4
Trend = 90% Confidence Level	No Trend	No Trend	No Trend	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-21-1



Mann-Kendall Statistical Test

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MRMW-21-2

	Compound ->	1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2008	8.6	1.1	5.6	2.2	1	
2	October-2009	7.8	4.8	9.7	2.8	1	
3	October-2010	10	2.5	8.8	3.7	1	
4	November-2013	3.6	0.5	2.5	1.3	1	
5	October-2014	4.2	1	3	1.5		
6	November-2015	3.5	1.1	4.3	1.5	1	
7							
8							
9							
10							

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-9	-4	-5	-4	0	0
	6	6	6	6	5	0
	6.28	1.83	5.65	2.17	1.00	#DIV/0!
	2.855	1.600	3.003	0.937	0.000	#DIV/0!
	0.454	0.872	0.532	0.433	0.000	#DIV/0!

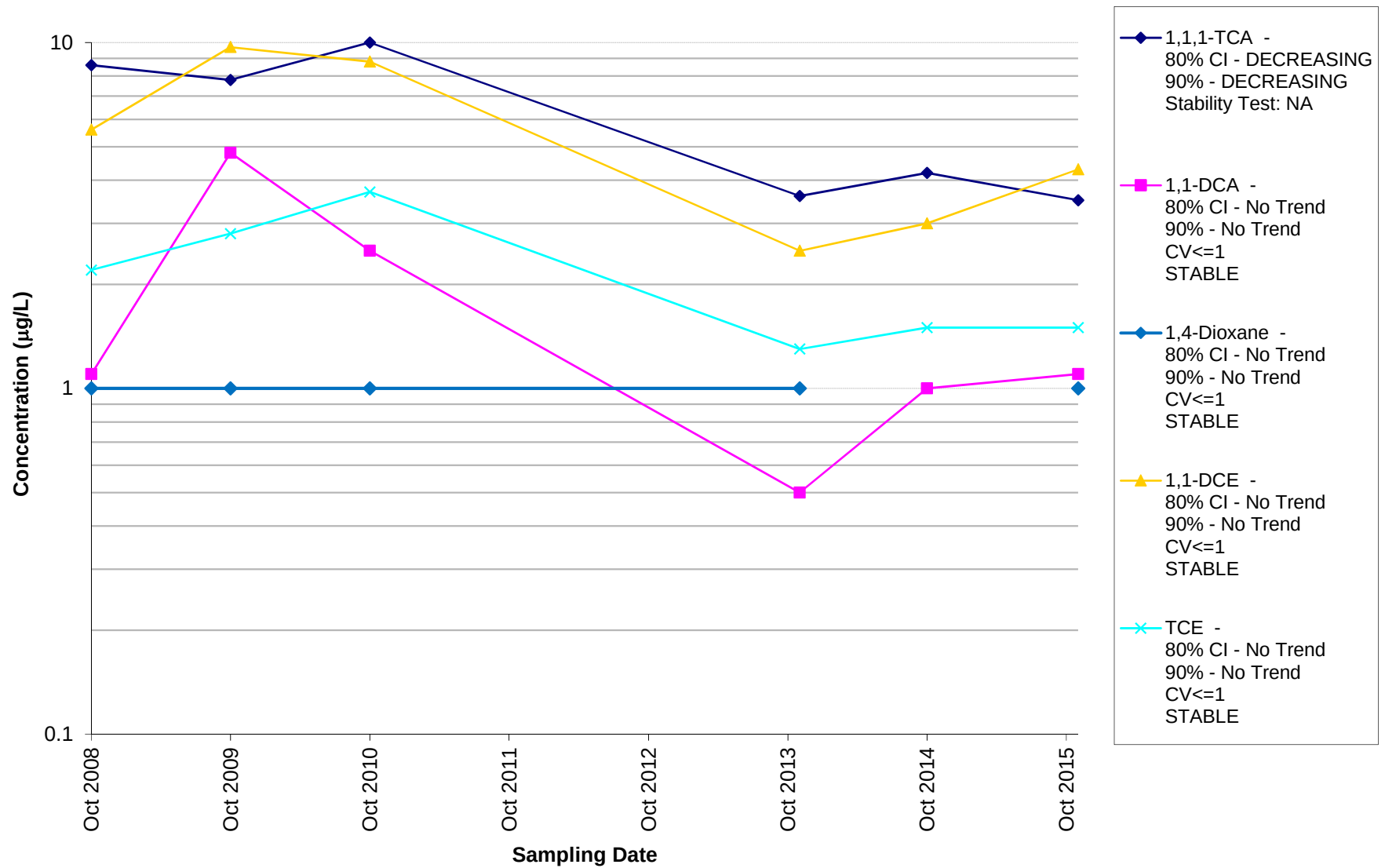
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	No Trend	No Trend	No Trend	No Trend	No Trend	N<4
Trend = 90% Confidence Level	DECREASING	No Trend	No Trend	No Trend	No Trend	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	NA	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	CV<=1 STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-21-2



Mann-Kendall Statistical Test

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Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MW-21-4

	Compound ->	1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2008	11	1.3	6.2	2.5	1	
2	October-2009	9.1	11	16	5.6	1	
3	October-2010	5.3	1	4.3	1.9	1	
4	November-2013	4.7	0.58	3	1.2	1	
5	October-2014	3.5	0.63	2.5	1		
6	November-2015	2.8	0.97	3.7	1.1	1	
7							
8							
9							
10							

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-15	-7	-9	-11	0	0
	6	6	6	6	5	0
	6.07	2.58	5.95	2.22	1.00	#DIV/0!
	3.264	4.133	5.088	1.754	0.000	#DIV/0!
	0.538	1.602	0.855	0.791	0.000	#DIV/0!

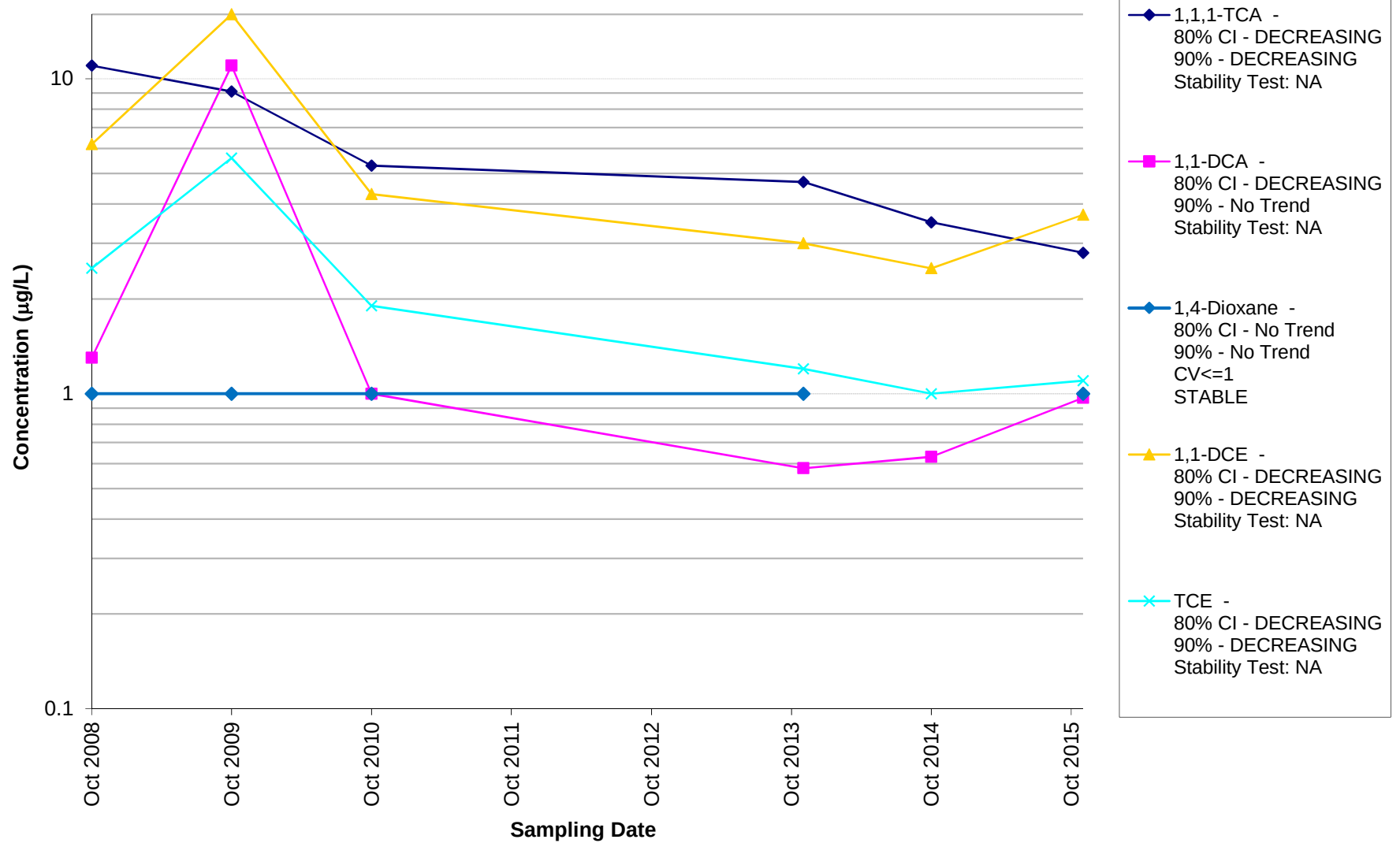
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4
Trend = 90% Confidence Level	DECREASING	No Trend	DECREASING	DECREASING	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	NA	NA	CV<=1 STABLE	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-21-4



Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, **provide at least four rounds** and **not more than ten rounds of data** that is **not seasonally affected**. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "**DATA ERR**" or "**DATE ERR**" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation from the governing regulatory agencies for the site and applicable guidance for recommendations on data entry for non-detect values (**See protocol at bottom of worksheet**).

Error Messages: There is a section below the data entry screen that describes data entry errors in more detail and which cell has that error. Thus a user can determine what and where their error is very quickly. Note that a space is seen as text in Excel formulae.

Data Entry and Error Messages: When there are less than four rounds of data entered, instead of getting an "**ERROR**" message, only "**n<4**" is displayed. But, if **text**, a **zero** or a **negative number** is inadvertently entered, the "**ERROR**" message is displayed. Thus, during data entry, an "ERROR" message is only displayed when there actually is an error. Note that the **date must be entered before sample results collected on that date are entered** to avoid an error message.

To avoid biasing the Mann-Kendall test, **the same value for all ND results must be entered** in the spreadsheet for a given compound. This is to make sure that any identified trends are data trends and not trends of laboratory detection limits. **SEE PROTOCOL AT BOTTOM OF WORKSHEET !**

Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MW-21-5

Compound ->		1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2008	12	2.8	9.4	4.3	1	
2	October-2009	8.5	10	17	5	1	
3	October-2010	6.2	2.1	6.4	2.9	1	
4	November-2013	4.6	0.55	2.9	1.2	1	
5	October-2014	3.4	0.59	2.4	1.1		
6	November-2015	2.9	1.1	3.8	1.1	1	
7							
8							
9							
10							

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-15	-7	-9	-12	0	0
	6	6	6	6	5	0
	6.27	2.86	6.98	2.60	1.00	#DIV/0!
	3.470	3.610	5.556	1.744	0.000	#DIV/0!
	0.554	1.264	0.796	0.671	0.000	#DIV/0!

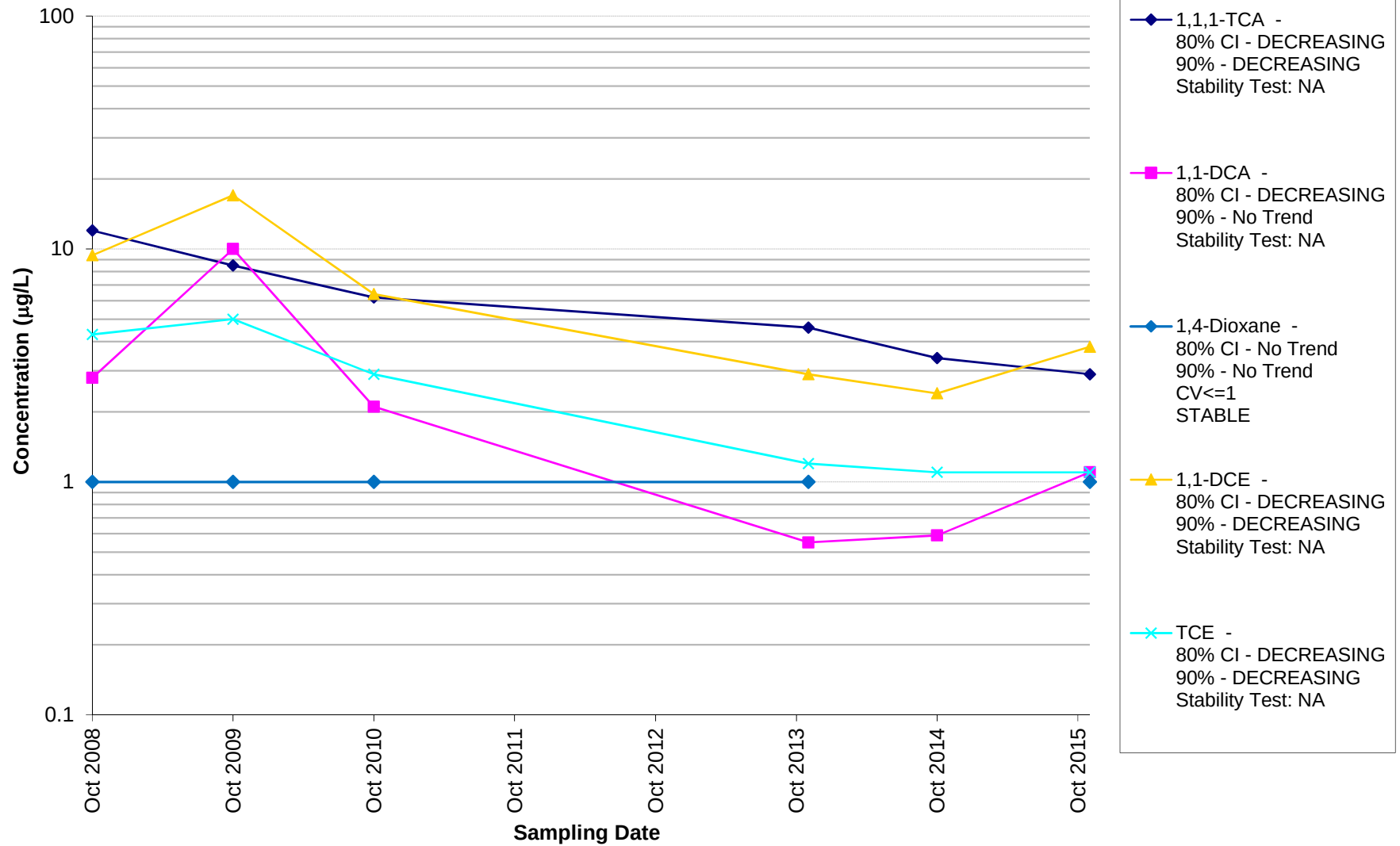
Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	DECREASING	DECREASING	DECREASING	DECREASING	No Trend	N<4
Trend = 90% Confidence Level	DECREASING	No Trend	DECREASING	DECREASING	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	NA	NA	CV<=1 STABLE	n<4 n<4

Data Entry By = KL	Date = 2/16/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-21-5



Mann-Kendall Statistical Test

(For Groundwater Sampling Trend Analysis)

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Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, **provide at least four rounds** and **not more than ten rounds of data** that is **not seasonally affected**. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "**DATA ERR**" or "**DATE ERR**" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation from the governing regulatory agencies for the site and applicable guidance for recommendations on data entry for non-detect values (**See protocol at bottom of worksheet**).

Error Messages: There is a section below the data entry screen that describes data entry errors in more detail and which cell has that error. Thus a user can determine what and where their error is very quickly. Note that a space is seen as text in Excel formulae.

Data Entry and Error Messages: When there are less than four rounds of data entered, instead of getting an "**ERROR**" message, only "**n<4**" is displayed. But, if **text**, a **zero** or a **negative number** is inadvertently entered, the "**ERROR**" message is displayed. Thus, during data entry, an "ERROR" message is only displayed when there actually is an error. Note that the **date must be entered before sample results collected on that date are entered** to avoid an error message.

To avoid biasing the Mann-Kendall test, **the same value for all ND results must be entered** in the spreadsheet for a given compound. This is to make sure that any identified trends are data trends and not trends of laboratory detection limits. **SEE PROTOCOL AT BOTTOM OF WORKSHEET !**

Site Name = Mohonk Road Industrial Park Superfund Site	Site ID No. = 02LG	Well Number = MW-21-6

	Compound ->	1,1,1-TCA	1,1-DCA	1,1-DCE	TCE	1,4-Dioxane	
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	October-2008	2.5	23	24	3.3	9.1	
2	October-2009	5.4	13	16	3.8	1	
3	October-2010	3.1	11	15	2.6	2.7	
4	November-2013	4.3	0.62	2.9	1.2	1	
5	October-2014	2.7	1.1	2.5	0.97		
6	November-2015	0.25	0.25	0.25	0.25	1	
7							
8							
9							
10							

Mann Kendall Statistic (S) = Number of Rounds (n) = Average = Standard Deviation = Coefficient of Variation(CV)=	-5	-13	-15	-13	-5	0
	6	6	6	6	5	0
	3.04	8.16	10.11	2.02	2.96	#DIV/0!
	1.752	9.176	9.578	1.418	3.510	#DIV/0!
	0.576	1.124	0.947	0.702	1.186	#DIV/0!

Error Check, Blank if No Errors Detected	N<4

Trend = 80% Confidence Level	No Trend	DECREASING	DECREASING	DECREASING	DECREASING	N<4
Trend = 90% Confidence Level	No Trend	DECREASING	DECREASING	DECREASING	No Trend	N<4

Stability Test, If No Trend Exists at 80% Confidence Level	CV<=1 STABLE	NA	NA	NA	NA	n<4 n<4

Data Entry By =	KL	Date =	2/16/2016	Checked By =	LEA

Mann-Kendall Test for MRMW-21-6

