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EPA Superfund

Record of Decision Amendment:

MOHONK ROAD INDUSTRIAL PLANT EPA ID: NYD986950012 OU 01 HIGH FALLS, NY 09/29/2008

# RECORD OF DECISION AMENDMENT

# Mohonk Road Industrial Plant Superfund Site

Hamlet of High Falls, Towns of Marbletown and Rosendale Ulster County, New York

United States Environmental Protection Agency Region 2 New York, New York September 2008

## DECLARATION FOR THE RECORD OF DECISION AMENDMENT

# SITE NAME AND LOCATION

Mohonk Road Industrial Plant Site Superfund Identification Number: NYD986950012 Hamlet of High Falls, Towns of Marbletown and Rosendale, Ulster County, New York

## STATEMENT OF BASIS AND PURPOSE

This decision document presents the amended remedy for the Mohonk Road Industrial Plant (MRIP) Superfund Site, which was chosen in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended,42 U.S.C. §§ 9601-9675 and to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). This decision document explains the factual and legal basis for amending the remedy for the Site. The information supporting this remedial action decision is contained in the Administrative Record. The index for the Administrative Record is attached to this document (APPENDIX III).

The New York State Department of Environmental Conservation (NYSDEC) concurs with the amended remedy. A letter of concurrence from NYSDEC is attached to this document (APPENDIX IV).

## ASSESSMENT OF THE SITE

The response action selected in this Record of Decision Amendment (ROD Amendment) is necessary to protect the public health or welfare or the environment from actual or threatened releases of hazardous substances into the environment at or from the Site.

## DESCRIPTION OF THE SELECTED REMEDY

The amended remedial action described in this document addresses contaminated groundwater at the Mohonk Road Industrial Plant Site. The Site includes the Mohonk Road Industrial Plant property (MRIP Property) as well as those areas impacted by the groundwater plume emanating from the property. This remedial action amends the selected remedy presented in the March 31, 2000 Record of Decision (ROD) and undertaken by EPA to address Site groundwater. The primary change in the groundwater remedy is associated with replacing the active extraction and treatment of groundwater from within the far field plume with monitored natural attenuation.

# Amended Groundwater Remedy

The amended groundwater remedy includes:

o Monitored natural attenuation within 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. The near field plume refers to that portion of the groundwater plume with total volatile organic compound (VOC) concentrations greater than 1,000 parts per billion (ppb), while the far field plume has been updated to refer to the portion of the groundwater plume with total VOC concentrations from 5 ppb to 1,000 ppb.

- o Implementation of a groundwater monitoring program to evaluate groundwater conditions and the effectiveness of the components of the remedy.
- o 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.
- o Continued operation of the Site soil vapor extraction system and vapor mitigation system.

The ROD included an alternate water supply as part of the groundwater remedy, and also specified a source control action. Since the issuance of the ROD, the source control and alternate water supply actions have been implemented. This ROD Amendment focuses only on that portion of the selected remedy (dealing with groundwater) to which a fundamental change is warranted, and the rationale for such change.

# DECLARATION OF STATUTORY DETERMINATIONS

The modified remedy meets the requirements for remedial actions set forth in CERCLA §121. It is protective of human health and the environment, complies with Federal and State requirements that are legally applicable or relevant and appropriate to the remedial The selected remedy utilizes action, and is cost-effective. permanent solutions and alternative treatment technologies to the maximum extent practicable, and the groundwater remedy also satisfies the statutory preference for treatment as a principal element of the remedy (i.e., it reduces the toxicity, mobility, or volume of hazardous substances, pollutants, or contaminants as a principal element through treatment). Because this remedy will not result in hazardous substances, pollutants, or contaminants remaining on-site above levels that allow for unlimited use and unrestricted exposure, but will take more than five years to attain remedial action objectives and cleanup levels in the groundwater, a policy review will be conducted no less often than once every five years after completion of the construction of the remedial action components for the Site to ensure that the remedy is, or will be, protective of human health and the environment.

# DATA CERTIFICATION CHECKLIST

The Decision Summary for this ROD Amendment contains the remedy selection information noted below. More details may be found in the Administrative Record file established for the MRIP Site.

- o Chemicals of concern (COCs) and their respective concentrations
   (see Appendix II);
- o Baseline risk represented by the COCs (see page 11 herein; also see pages 18 through 24, and Tables 8 through 13 on pages 11-44 through 11-64 of the ROD);
- o Cleanup levels established for chemicals of concern and the basis for these levels (see Appendix II; also see pages 15, 23, 25 and 26 herein, and Table 14 on page 11-65 of the ROD);
- o How source materials constituting principal threats are addressed (see page 48 of the ROD);
- o Current and reasonably anticipated future land use assumptions and current and potential future beneficial uses of groundwater used in the baseline risk assessment and ROD (see page 10 herein; also see pages 17 and 18 of the ROD);
- o Potential land and groundwater use that will be available at the Site as a result of the selected remedy (see page 23 herein; also see pages 54 and 55 of the ROD);
- Estimated capital, annual operation and maintenance, and total present worth costs, discount rate, and the number of years over which the remedy cost estimates are projected (see Appendix II herein); and,
- o Key factor(s) that led to selecting the remedy (i.e., how the selected remedy provides the best balance of tradeoffs with respect to the balancing and modifying criteria, highlighting criteria key to the decision)(see pages 20-23 herein).

# AUTHORIZING SIGNATURE

George Pavlou, Acting Director Emergency & Remedial Response Division Date

# DECISION SUMMARY

Mohonk Road Industrial Plant Superfund Site

Hamlet of High Falls, Towns of Marbletown and Rosendale Ulster County, New York

United States Environmental Protection Agency Region 2 New York, New York September 2008

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#### SITE NAME, LOCATION AND DESCRIPTION

The Mohonk Road Industrial Plant (MRIP) Superfund Site (the Site) is located in the Hamlet of High Falls, Ulster County, New York, approximately seven miles northnorthwest of the Village of New Paltz and ten miles south- southwest of the City of Kingston. The Hamlet of High Falls is situated within two townships; the Towns of Marbletown and Rosendale (see Figure 1). The Site was added to the National Priorities List (NPL) on January 19, 1999; the Superfund identification number for the Site is NYD986950012. The New York State Department of Environmental Conservation (NYSDEC) served as the lead agency for the Remedial Investigation and Feasibility Study (RI/FS) which was initiated prior to the Site being placed on the NPL. The United States Environmental Protection Agency (EPA) assumed the role as lead agency with issuance of the Record of Decision (ROD) on March 31, 2000.

The Site includes a facility located at 186 Mohonk Road (the MRIP Property), and all surrounding properties that have been impacted by the contaminated groundwater plume. The MRIP Property originally consisted of approximately 14.5 acres of mostly undeveloped land with a 43,000 square foot building in its southern corner. As part of the water supply remedy, and consistent with the ROD, 6.9 acres of the northern property were conveyed by the Kithkin Corporation on August 19, 2005 to the High Falls Water District. This northern portion of the property is now the location of the High Falls Water District's drinking water treatment plant.

The Site-related groundwater plume extends approximately 4,000 feet downgradient from the MRIP Property, and had adversely impacted at least 75 residential and commercial water supply wells. Residents and businesses within the area are now obtaining their potable water from the High Falls Water District, a publiclyoperated water supply system. The "near field plume" as historically defined in the ROD refers to that portion of the groundwater plume with total volatile organic compound (VOC) concentrations greater than 1,000 parts per billion (ppb), while the "far field plume" refers to the component of the groundwater plume between 10 ppb and 1,000 ppb total VOCs. Figure 4 depicts the current extent of the plume boundary to the 5 ppb total VOC concentration. The entire near field plume is currently within the estimated capture zone of the existing groundwater extraction and treatment system.

The Site is located in an area of primarily residential development. Industrial activities took place on the MRIP Property from the early 1960's until approximately 1992. The MRIP Property is currently zoned for light industrial use, is currently used for non-industrial commercial purposes, and the most reasonably anticipated future use for the MRIP Property is commercial and light industrial use.

# SITE HISTORY AND ENFORCEMENT ACTIVITIES History

From the early 1960's to 1972, Varifab, Inc., a metal finisher, owned and occupied the Site and reportedly used solvents in the finishing and assembly of metal parts for card punch machines and computer frames. From 1972 to 1975, a wet spray painting company, R.C. Ballard Corp., operated at the Site. This type of painting operation would require large quantities of solvents in order to clean surfaces prior to painting. The Site was purchased in 1976 by Daniel Gelles; Daniel E. Gelles Associates, Inc. manufactured store display fixtures which may have involved the use of solvents. Wastes from these operations were typically discharged into a septic tank on the MRIP Property. Banco Popular de Puerto Rico foreclosed on the MRIP Property in 1992. A portion of the Site is currently owned by Kithkin Corp., which purchased the property at auction in 1993 and currently leases portions of the building to various commercial tenants. 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 levels of VOCs above federal and/or New York State (NYS) Maximum Contaminant Levels (MCLs) for drinking water. Subsequent sampling performed by UCHD identified 70 other homes or businesses downgradient of the Site with VOCs above the aforementioned standards for drinking water. NYSDEC began investigating the Site in 1994. As an interim action to address immediate health threats, NYSDEC installed point-of-entry treatment (POET) systems at homes or businesses whose potable water supply exceeded the NYS MCLs (5 ppb) for the individual VOCs. These systems included particulate filters, granular activated carbon (GAC) for VOC removal, and ultraviolet (UV) oxidation for disinfection. Monitoring of private wells on the perimeter of the plume was instituted to ensure that impacts to previously unaffected private wells downgradient of the Site would be addressed. As a result of the ongoing monitoring program, five additional homes and businesses were ultimately supplied with POET systems. In 1994, NYSDEC designated the Site as Class 2 on the NYS Registry of Inactive Hazardous Waste Sites, indicating that the Site posed a significant threat to public health and the environment.

In the fall of 1996, NYSDEC assessed subsurface conditions within five suspected disposal areas. Investigations included geophysical surveys, soil gas screening, soil borings, and monitoring well installation. Samples of surface soils, subsurface soils, groundwater, and soil vapor, and water and sludge samples from within an abandoned 1,000-gallon septic tank (referred to within the ROD as the "disposal tank") located north of the MRIP building, were collected. Two sources of VOC contamination were identified on the MRIP Property, including (1) subsurface soil beneath the gravel driveway at the western end of the MRIP building, and (2) the abandoned septic tank (see Figure 2). Additionally, VOC concentrations above MCLs were detected in groundwater.

In the fall of 1996, NYSDEC contracted Lawler, Matusky & Skelly Engineers LLP (LMS) to conduct an Immediate Investigation Work Assignment (IIWA). An additional IIWA was tasked to LMS by NYSDEC in the spring of 1997. Based on the results of the IIWA investigations, NYSDEC initiated an RI in 1997 to characterize the nature and extent of groundwater contamination. In 1997, after repeated, unsuccessful attempts to have a responsible party fund the Site investigation and cleanup, NYSDEC contracted LMS to conduct a RI/FS. As an interim action during the RI, the abandoned septic tank, its contents, and 25 tons of surrounding contaminated soil were excavated and removed from the Site.

The RI and FS Reports were issued by NYSDEC in September 1998 and March 1999, respectively. The RI results indicated that VOC contamination, including tetrachloroethylene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane (TCA), 1,1dichloroethene (DCE), 1,1-dichloroethane (DCA), ethylbenzene, and xylenes, existed in soils at the MRIP Property; the dissolved-phase groundwater VOC plume was found to extend approximately 4,000 feet north-northeast from the MRIP Property; and downgradient private water supplies, as well as groundwater in the aquifer beneath the MRIP Property, exhibited VOC concentrations above EPA Removal Action Levels, federal and NYS MCLs, and NYSDEC Class GA Drinking Water Standards.

Additionally, 1,4-dioxane, a stabilizer associated with TCA, was detected at the MRIP Property at concentrations above the 10 NYCRR Part 5 standard of 50 ppb 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 ppb. NYSDEC provided bottled water for two residences that exceeded the 50 ppb standard until the 1,4-dioxane concentrations fell below the 50 ppb standard.

On March 11, 1998, the EPA received a request from the NYSDEC to evaluate the Site for a removal action under CERCLA. EPA determined that a sufficient planning period existed before Site activities for the removal action had to be initiated, and accordingly, this response was conducted as a non-time critical removal action (NTCRA). The NTCRA 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 issued a Proposed Response Action document for this interim groundwater action on February 26, 1999. EPA authorized the system's construction with the finalization of the Action Memorandum for the NTCRA on June 4, 1999. As part of the NTCRA, throughout 1999, EPA conducted additional field work to characterize the Site. Additionally, while constructing a wastewater settling lagoon in December 1999 to support the groundwater treatment system, 532 tons of contaminated soil, paint waste and debris from an area identified as a Paint Waste Pit #1 (see Figure 2) were excavated and disposed of off-Site. Post-excavation samples met the soil cleanup levels for the Site established in the ROD. The groundwater extraction and treatment plant began operating 24 hours a day, seven days a week in May 2000. As of May 2008, over 52 million gallons of contaminated groundwater have been extracted and treated via this system.

NYSDEC released a feasibility study (FS) which evaluated cleanup alternatives for the entire Site in March 1999 and a proposed plan in November 1999. Public comments were accepted from November 15, 1999 through March 15, 2000. EPA assumed the role as lead agency with the issuance of the ROD in March 2000.

The major components of the selected remedy documented in the ROD are:

- o construction of a new public water treatment plant and distribution system to serve the impacted area in High Falls;
- o extraction of groundwater on and off the MRIP Property, with treatment via air stripping and GAC; and
- excavation of approximately 500 cubic yards (CY) of contaminated soils on the MRIP Property and disposal off-Site.

Additional removal and disposal of contaminated soils was performed based on data collected by NYSDEC during the RI and by EPA during the NTCRA, and as prescribed by the ROD. The four areas identified (see Figure 2) as areas potentially requiring remedial action were:

- Area of Concern (AOC) A, including Areas 1A, 1B and D2 as defined in the 2000 ROD: subsurface soils contaminated with PCE and benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds beneath the gravel parking area west of the commercial building and south of the near field groundwater treatment building.
- o AOC B: a one- to two-foot-thick paint waste and debris layer buried two to three feet below ground surface (bgs), south of Paint Waste Pit #1 and north of the commercial building.
- AOC C: Paint Waste and Debris Pit #2 located immediately east of Paint Waste Pit #1. AOC C includes the soil stockpiled in this area during the December 1999
   NTCRA excavation of Paint Waste Pit #1.
- o AOC D, including Area 2B as defined in the 2000 ROD: remaining overburden soils contaminated with TCA in the vicinity of the former septic tank.

EPA excavated contaminated soil from AOC A and contaminated soil, paint waste and debris from AOCs B and C totaling 2,036 tons and disposed of the material off-Site. Prior to backfilling with clean fill, analytical results for post-excavation soil samples indicated that no cleanup levels were exceeded in soils remaining within the excavations.

Results indicated that soils within AOC D and within two subareas in AOC A (Areas 1B and D2) did not require remediation since contaminants were not present above

cleanup levels. EPA further determined it would address levels of contaminants above the standards identified in the 2000 ROD in the shallow perched groundwater within AOC D as part of the groundwater remedy for the Site. Shallow groundwater contaminant concentrations within AOC D have been decreasing since the startup of the groundwater extraction and treatment system.

In February 2005, EPA initiated an investigation to determine if subsurface contamination originating from the MRIP Property may put nearby residents at risk due to vapor intrusion of VOCs into homes. Permanent sub-slab soil gas sampling ports were installed in 34 residential and 9 non-residential locations, with soil gas samples collected and analyzed for VOCs. The sampling determined that the concentrations of VOCs at all residential locations were below health-based screening levels. Therefore, no further evaluation and/or action was deemed necessary. However, samples obtained in the commercial building on the MRIP Property indicated the need to install a vapor mitigation system.

In November, 2005 a Remedial System Evaluation (RSE) was completed. Among its accepted recommendations for gaining Site closeout that were deemed critical to achievement of ROD goals in a reasonable timeframe, as well as for optimizing the near field groundwater extraction and treatment system was that additional characterization be performed and treatment or removal of residual source contaminants in the vadose zone soils be conducted. In a September, 2006 Action Memorandum, installation of a soil vapor extraction system and a mitigation system for the commercial building was authorized.

In early 2007, six new sub-slab ventilation systems were installed with extraction points in the subsurface layer underneath the building's concrete floor. These mitigation systems are currently operating as designed. EPA documentation pertaining to these installations is listed within the Administrative Record (Appendix III).

In addition, in May 2006, contaminants of concern (COCs) were found in soil gas immediately north of the commercial building on the MRIP Property. An 18-well soil vapor extraction (SVE) system was installed in 2007. The SVE system has been fully operational since February 2008.

The construction of the water treatment plant and water distribution system called for in the ROD began in the fall of 2005 and was completed in the fall of 2007. The water treatment plant and accompanying water tower occupy approximately seven acres of land in the northern section of the MRIP Property (see Figure 2). The system is connected to the pressurized Catskill Aqueduct, which is part of the New York City reservoir system. Stringent sampling and monitoring is conducted to verify that the treated water meets all federal and NYS drinking water standards. The New York State Department of Health (NYSDOH) certified the newly constructed High Falls Water Treatment Plant as operational on September 24, 2007. Connection of homes and businesses within the water district to the public water supply was completed in November 2007. The MRIP building was also connected to the public water supply. Concurrently, POET systems were removed, associated well lines were capped, and well pumps' piping and power were disconnected. An ordinance within the High Falls Water District prohibits residents from establishing or maintaining a source of drinking and domestic water separate from the public water supply, yet allows existing separate water sources to be used for purposes other than drinking and domestic use.

In 2006, an evaluation of the potential for use of monitored natural attenuation (MNA) for the far field plume, based on groundwater monitoring data collected on a semi-annual basis from 1999 through April 2006 was performed. In 2008, EPA conducted another MNA evaluation titled 2008 Final MNA Assessment. The reports

containing these evaluations conclude that MNA is a viable remedy for the far field plume. Monitoring data indicate groundwater contaminant concentration trends are either decreasing or stable (see Figures 3 and 4), and exhibit the presence of the full range of TCA breakdown products within the far field plume and/or wells bounding the far field plume.

Since approximately 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 near field groundwater treatment system.

#### Enforcement Activity

Potentially Responsible Parties (PRPs) are those who may be legally liable for contamination at a Site. This may include past or present owners and operators, waste generators, and haulers. The following PRPs have been identified with regard to the MRIP Site: Varifab, Inc., R. C. Ballard Corporation, Daniel E. Gelles Associates, Inc., Mr. Daniel E. Gelles, and Kithkin Corp. With the exception of Kithkin Corp., which is a current owner, all of the identified PRPs are former owners and/or operators of 186 Mohonk Rd., the source of the release of hazardous substances from the Site.

Certain of the PRPs declined the opportunity to perform the RI/FS at the Site when requested by NYSDEC. EPA issued Notice of Liability letters to Kithkin Corporation, Mr. Daniel E. Gelles and Daniel E. Gelles Associates, Inc. Each of the three PRPs was offered the opportunity to perform a NTCRA at the Site. As reported in the ROD, the PRPs declined to undertake the removal action.

Since the ROD was issued, EPA has determined that the Kithkin Corp. is not a PRP with respect to disposal which occurred prior to Kitkin Corp.'s acquisition of the MRIP Property. EPA has also determined that there are no viable PRPs with respect to the Site.

## HIGHLIGHTS OF COMMUNITY PARTICIPATION

NYSDEC prepared a Citizen Participation Plan for the Site, dated June 1997. The Citizen Participation Plan included a community profile and contact list, and has also been used by EPA for its community outreach efforts at the Site. Site reports have been made available for public review at information repositories at the EPA Docket Room in Region 2, New York, the Stone Ridge Library, Stone Ridge, New York, and the Rosendale Public Library, Rosendale, New York. Additional highlights regarding historic public involvement activities related to the Site are provided in the ROD.

A Post-Decision Proposed Plan was prepared by EPA and finalized on July 2, 2008. A notice of the Post-Decision Proposed Plan and public comment period was placed in the Blue Stone Press on July 4, 2008 consistent with the requirements of NCP  $\S300.430(f)(3)(1)(A)$ , and a fact sheet summarizing the Post-Decision Proposed Plan was mailed to all persons on the Site mailing list.

The Post-Decision Proposed Plan was made available for review at the aforementioned information repositories for the Site and within EPA's Region 2 Superfund website. The public comment period extended from July 7, 2008 to August 6, 2008. EPA hosted a public meeting on July 17, 2008 to discuss the Post-Decision Proposed Plan. At this meeting, representatives from EPA and NYSDEC answered questions about conditions at the Site and the remedial alternatives. EPA's responses to comments

received during the public meeting, along with responses to other written comments received during the public comment period, are included in the Responsiveness Summary (APPENDIX V).

#### SCOPE AND ROLE OF RESPONSE ACTION

Cleanup at the Site is currently being addressed as one operable unit (OU). This Record of Decision Amendment (ROD Amendment) describes the amended long-term remediation plan for Site groundwater (the groundwater response remedy), superseding the groundwater response remedy described within the ROD. The groundwater response remedy will address the near field and far field components of the VOC contaminant plume.

The remediation goal of the ROD 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 the contaminated groundwater from spreading and further impacting the aquifer, and eliminate the potential for human exposure to any contaminants in subsurface soils on the MRIP Property or the release of those contaminants into the groundwater.

Prior to the issuance of the ROD, several interim actions had occurred at the Site, including the installation of a groundwater extraction and treatment system to minimize the further migration in the bedrock aquifer of the most highly contaminated portion of the groundwater plume (conducted as a non-time critical removal action [NTCRA]). The groundwater response remedy described within the ROD also included a separate extraction and treatment system to address the portion of the plume which is downgradient from the source (the far field plume).

EPA has implemented the following elements of the ROD since its issuance:

- o 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;
- o removal and disposal of contaminated soils which are a source for groundwater contamination;
- o active remediation of contaminated groundwater by the continued operation of the groundwater extraction and treatment system to address the near field plume at the source;
- o long-term groundwater monitoring; and
- institutional controls preventing future use of the aquifer within the High Falls Water District (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

EPA has also performed extensive monitoring of the far field plume and conducted an investigation to evaluate potential vapor intrusion. 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 have significantly reduced the migration of contaminants from the Site. As presented in the Post-Decision Proposed Plan (included as an attachment to the Responsiveness Summary in Appendix V), EPA's evaluation of monitored natural attenuation (MNA) as a remedy for the far field plume as opposed to groundwater extraction and treatment (the remedy selected in the ROD for the far field plume) has resulted in the selection of MNA as a preferred alternative to groundwater extraction and treatment within the far field plume.

## SUMMARY OF SITE CHARACTERISTICS

Since the issuance of the ROD, sampling performed to support characterization, remediation, and monitoring activities and subsequent hydrogeologic evaluations

have provided data regarding contaminant distribution and subsurface conditions. Based upon the data collected to date, it is clear that groundwater at the Site continues to require remediation. The following sections summarize current Site conditions. For more detailed information regarding activities performed subsequent to the ROD and more complete examinations of analytical results, consult the documents listed within the Administrative Record in Appendix III.

Site characterization activities performed prior to the ROD are summarized in the Site History included herein. For detailed information regarding those activities and historic Site conditions, consult the ROD and the Administrative Record indexed therein. Documents listed in the Administrative Records are also available at the Site information repositories.

## Physical Site Conditions

The MRIP Property consists of approximately 7.6 acres of land and a 43,000 square foot building in the southern corner of the property (Figure 2). Two former production wells located within the building have been disconnected. The area south of the building consists of a large lawn and a gravel driveway. The gravel drive wraps around the sides of the building, providing access to loading docks along the western end of the building. The lawn and driveway slope gently down to a culvert that passes beneath Mohonk Road allowing surface runoff to drain from the property. The near field groundwater treatment system currently exists in a small area immediately west of the MRIP Property commercial building.

The Site is located in an area of chiefly residential development. The MRIP Property is bounded on the southeast by Mohonk Road and to the northeast, northwest, and southwest by residential properties on large wooded lots. The property to the south is currently used to store machinery and trucks utilized for paving operations.

Groundwater is no longer the primary source of drinking water within the area, since the establishment of the High Falls Water District (HFWD) and the construction of the associated public water supply system. The nearest residential drinking water wells are located outside of the HFWD.

The nearest permanent watercourses to the Site are the Rondout Creek (Class B waters; Waters Index #139-14, Part 855.4) and Coxing Kill creek (Class C[T] waters, Waters Index #139-14-9, Part 855.4). Rondout Creek is not stocked with trout near the Site by either NYSDEC or the Ulster County Federation of Sportsmen. Rondout Creek is popular with recreational anglers, who fish for warmwater species such as smallmouth bass.

The HFWD drinking water treatment plant currently occupies 6.9 acres of the northern portion of the property acquired from the Kithkin Corp. The system is connected to the pressurized Catskill Aqueduct, which passes approximately 700 feet to the south of the MRIP Property, is owned by the City of New York, and maintained by the New York City Department of Environmental Protection (NYCDEP). This aqueduct supplies water to the New York City Reservoir System from the Ashokan Reservoir via an underground tunnel. The tunnel, as it passes through the Rondout Valley area in High Falls, is 14.5 feet in diameter, is about 500 feet below grade and is lined with concrete. A siphon house for the aqueduct (the Rondout Dewatering Chamber) is located approximately 1,200 feet west of the MRIP Property.

#### Geology and Hydrogeology

Three distinct water bearing zones have been identified at the Site, including an overburden (till) flow zone, a bedrock interface flow zone (at the shallow soil/bedrock interface), and a bedrock flow zone (the bedrock aquifer). The till,

which dominates in the vicinity of the Site, is a highly compacted silt and finegrained sand matrix and does not transmit water readily.

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. Groundwater flow is primarily to the north-northeast with localized variations to the west and east towards Rondout Creek and Coxing Kill Creek. Downhole geophysical investigations identified water-producing fractures with thin beds of finer-grained material throughout the vertical extent of the bedrock aquifer at depths ranging from approximately 20 to 194 feet bgs.

Vertical flow gradients on the MRIP Property are clearly downward. However, artesian or upward groundwater flow has been reported in several residential wells and monitoring wells outside of the MRIP Property.

The MRIP Property is situated near a topographical high that serves as a recharge area for the bedrock aquifer. 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. In the vicinity of the near field groundwater extraction and treatment system, active pumping of groundwater from the bedrock is resulting in the capture of a significant portion of the groundwater contaminated with VOCs.

#### Summary of Groundwater Conditions

Site investigations have indicated that groundwater in the bedrock aquifer is contaminated with various VOCs, including TCA, TCE, DCE, and DCA, above Federal and NYS MCLs. A plume with a total VOC concentration of at least 5 ppb extends a distance of approximately 4000 feet from the MRIP Property and covers an area of roughly 170 acres. Since the discovery of the Site in 1994, residential wells beyond the perimeter of the plume have been monitored to verify that the water in these wells was suitable for domestic use.

From 1996 to 1998, NYSDEC installed 22 monitoring wells - including two in the overburden (MW-9 and -11), five in shallow soil/bedrock (MW-1 through -5), and thirteen in bedrock (MW-1B, -5B through -15B, and -11C), installed two bedrock extraction wells (MW-5R and -7R), and performed six rounds of groundwater sampling. 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. In November 1996, a groundwater sample from shallow soil/bedrock well MW-4 was found to contain 87,000 ppb of TCA, 10,000 ppb of DCE, 6,700 ppb DCA, and 3,300 ppb of TCE. Subsequent rounds of sampling confirmed levels of these VOCs above MCLs, and although levels decreased significantly after NYSDEC removed the tank in August 1997, the levels of VOCs remained elevated well above MCLs at the time of the ROD. Samples from the nearest downgradient bedrock monitoring well, MW-5B, also contained levels of TCA, DCA, DCE and TCE above MCLs, with the total VOC levels consistently greater than 1,000 ppb during the RI. At the time of the ROD, contaminant levels in MW-5B had not appreciably decreased.

As part of the NTCRA, EPA installed four additional bedrock wells on the MRIP Property (ERT-1 through ERT-4). Sampling results from these wells confirmed VOC concentrations were above MCLs on the MRIP Property, and ERT-4, the well closest to the location of the former septic tank, had the highest VOC total (an estimated total of 7,510 ppb TCA, DCA, DCE and TCE in October 1999).

Monitoring well data indicated that upon release into the overburden, contaminants migrated downward into the bedrock aquifer without significant lateral movement.

Monitoring wells located upgradient of the MRIP Property have not been found to contain TCA or other VOCs at concentrations above MCLs.

From 2004 through 2007, 1,4-dioxane was detected in well ERT-3 on the MRIP Property at concentrations ranging from 30 to 83 ppb. The highest concentration of 1,4dioxane detected in the far field monitoring wells has been 18 ppb at MW-17-1, with non-detect or near non-detect (2 ppb) concentrations in the far down-gradient wells. With the present far field concentrations below the 10 NYCRR Part 5 Unspecified Organic Compound standard of 50 ppb (the NYSDEC cleanup level) and the relatively low near field concentrations, it is likely that natural attenuation physical processes which were identified in the 2008 Final MNA evaluation will continue to reduce 1,4-dioxane concentrations in the far field to below the NYS cleanup level.

Prior to the completion of the public water system, groundwater level measurements had typically been recorded from 15 residential and Site-related monitoring wells every two weeks in order to evaluate regional drawdown due to the groundwater extraction system and to ensure continued water supply to nearby residential wells, avoiding drawing water levels below the intake of the well pumps. Historically, the hydraulic gradient has been impacted by the operation of the groundwater extraction and treatment system and slow groundwater recharge in the area. The completed public water system has resulted in the termination of use of private wells in the area of groundwater contamination as potable supplies. Monitoring of water levels continued after the residential wells were disconnected in November 2007; an updated groundwater contour map is provided as Figure 4. A new monitoring well fitted with multiple ports to enable groundwater sample collection from different bedrock zones has been recently installed approximately 2,000 feet eastnortheast of the MRIP Property to assist in evaluating conditions along the eastern edge of the plume.

Historically, the 25 monitoring wells associated with the Site have been sampled every six months in order to track the migration of the contaminant plume. Quarterly O&M reports for the near field system have included the results of all monitoring well and residential well sampling. Since the disconnection of the residential wells in November 2007, sampling and analyses were performed in December 2007 and April 2008; Table 1 provides the April 2008 analytical sample The extent and concentration levels of the bedrock groundwater results. contamination are depicted in Figure 4; Figure 5 presents total VOC concentration trends in several source (near field), mid-plume, and downgradient wells. The April 2008 VOC data indicate the limits of the plume are generally defined in all directions (Figure 4). Downgradient monitoring wells provide no suggestion of increasing trends in any of the contaminants. All wells in the far field plume with statistically significant trends show decreasing contaminant concentrations. The increased extraction rates of the near field treatment system and the additional source removal anticipated with the SVE system operation increase the likelihood that the plume margins will shrink in the future.

Groundwater quality monitoring of the Site has been an ongoing biannual effort at most of the 25 monitoring wells in the network since 1999. Sampling and analysis for MNA parameters began at most of the monitoring wells in April 2006 and has continued biannually. In order to obtain sufficient data to complete a full MNA evaluation of the current plume, the monitoring wells have been sampled on a quarterly basis since December 2007 for VOCs and 1,4-dioxane, along with standard field-monitored parameters. The most recent monitoring well sampling event was performed in April 2008; results are available in Table 1.

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The 2008 Final MNA Assessment verified that the Site chemical and geochemical data show definitive evidence for biological activity supporting reductive dechlorination of TCA and TCE, including:

- o Decreasing contaminant concentrations in the near field plume;
- o Stable and low or non-detectible contaminant concentrations in the far field
  plume;
- o The full range of TCA breakdown products have been detected in the far field plume and/or the wells bounding it;
- o Presence of reducing conditions bounding the plume in the far field plume; and
- o Presence of reducing conditions in localized areas in both the near- and far field plumes.

Sampling for VOCs and 1,4-dioxane along with standard field-monitored parameters is continuing quarterly. Water level data continues to be collected and carefully monitored to ensure that analytical samples and natural attenuation data are sufficient to confirm that the near field plume is under hydraulic control.

## Ecology and Cultural Resources

Four freshwater wetlands regulated by NYSDEC (under Article 24 of the NYS Environmental Conservation Law) are present within a 2-mile radius of the MRIP Property; however, none of the four are within 0.5 miles of the Site or are hydraulically connected to the Site. A Federally-regulated wetland is present along Mohonk Road, approximately 50 feet southwest of the MRIP Property. This wetland is designated as palustrine, scrub-shrub, broad-leafed deciduous, seasonally flooded/saturated on the U. S. Department of Interior Fish and Wildlife Service National Wetlands Inventory Map (Mohonk Lake quadrangle, draft). Other wetlands present in the area, associated with the flood plain of the Coxing Kill, are not associated with the proposed project area. Potential impacts and mitigation measures related to the construction of the near field system pipeline in this area were considered in the report entitled Ecological Evaluation of the Proposed Effluent Discharge Pipeline Routing from the Mohonk Road Industrial Plant Site, Interim Report 1, which is part of the Administrative Record.

A Step 1 Analysis of the Site conducted to identify wildlife resources concluded that no further study of fish and wildlife resources was necessary at that time. A description of the Step 1 Analysis is available in the RI (Chapter 8).

A Phase 1A Literature Review and Archeological Sensitivity Assessment conducted in March 1999 concluded that although numerous historic and prehistoric resources existed near the Site, it is likely that an archeological survey would not be necessary in the event that water lines are installed within three feet of existing pavement or in other areas previously disturbed.

A Phase IB Archeological Survey of the Water Treatment Plant location in November 2004 did not identify any archeological sites within the area of the proposed water treatment plant and associated assess road.

In September 2005, an archeological survey for service connections was conducted by EPA at 12 properties within the proposed Public Water Supply District. The survey concluded that due to the narrow width of the proposed trenches, it was likely that excavations would result in disturbance to relatively limited portions of the overall extent of sheet midden deposits that may be present, and that the installations of service connections in the front yards of residential and commercial properties are unlikely to adversely affect significant archeological deposits.

#### CURRENT AND POTENTIAL FUTURE LAND AND RESOURCE USERS

The MRIP Property is currently zoned for light industrial use. The Town of Marbletown maintains 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.

The Site is located in an area of chiefly residential development. The bedrock aquifer has been designated as Class GA groundwater by NYSDEC, which is defined as follows:

"The best use of Class GA waters is as a source of potable water supply. Class GA waters are fresh groundwaters found in the saturated zone of unconsolidated deposits and consolidated rock or bedrock."

Since the creation of the HFWD and the construction of the High Falls water treatment plant and distribution system, groundwater is no longer a source of potable water. Groundwater near the Site has been assumed to be used as a supply of potable water under future use scenarios developed for evaluation of potential risks.

## SUMMARY OF SITE RISKS

As part of the RI/FS, EPA conducted a baseline risk assessment to estimate the current and future effects of contaminants on human health and the environment. A baseline risk assessment is an analysis of the potential adverse human health and ecological effects of releases of hazardous substances from a Site in the absence of any actions or controls to mitigate such releases, under current and future land uses. The baseline risk assessment includes a human health risk assessment and an ecological risk assessment. It provides the basis for taking action and identifies the contaminants and exposure pathways that need to be addressed by the remedial action. A risk evaluation was performed in 2008 to evaluate future health risks associated with exposure to contamination at the Site based on current (2007) data that reflect changes in the Site condition based on components of the 2000 ROD that had been implemented. This section of the ROD summarizes the results of the risk evaluation for the Site.

## Human Health Risk Assessment

A four-step process is utilized for assessing Site-related human health risks for a reasonable maximum exposure scenario: Hazard Identification - uses the analytical data collected to identify the contaminants of potential concern at the Site for each medium, with consideration of a number of factors explained below; Exposure Assessment - estimates the magnitude of actual and/or potential human exposures, the frequency and duration of these exposures, and the pathways (e.g., ingesting contaminated well-water) by which humans are potentially exposed; Toxicity Assessment - determines the types of adverse health effects associated with chemical exposures, and the relationship between magnitude of exposure (dose) and severity of adverse effects (response); and Risk Characterization - summarizes and combines outputs of the exposure and toxicity assessments to provide a quantitative assessment of Site-related risks The risk characterization also identifies contamination with concentrations which exceed acceptable levels, defined by the National Contingency Plan (NCP) as an excess lifetime cancer risk greater than 1 x 10-6 - 1 x 10-4 or a Hazard Index greater than 1.0; contaminants at these concentrations are considered chemicals of concern (COCs) and are typically those that will require remediation at the Site. Also included in this section is a discussion of the uncertainties associated with these risks.

## Hazard Identification

In this step, the chemicals of potential concern (COPCs) in each medium were identified based on such factors as toxicity, frequency of occurrence, fate and

transport of the contaminants in the environment, concentrations, mobility, persistence, and bioaccumulation. Analytical information that was collected to determine the nature and extent of contamination revealed the presence of VOCs, including DCE, DCA, TCA, and TCE in the groundwater at concentrations of potential concern. Based on this information, the risk evaluation focused on groundwater contaminants which may pose significant risk to human health.

As stated above, an updated risk evaluation was performed for this ROD Amendment. The updated risk evaluation was documented in a memorandum dated May 13, 2008 and can be found in the Administrative Record file. Table 3 lists the contaminants of concern that were evaluated in the updated risk evaluation.

#### Exposure Assessment

Consistent with Superfund policy and guidance, the updated risk evaluation assumed no remediation or institutional controls to mitigate or remove hazardous substance releases. Cancer risks and noncancer hazard indices were calculated based on an estimate of the reasonable maximum exposure (RME) expected to occur under current and future conditions at the Site. The RME is defined as the highest exposure that is reasonably expected to occur at a Site.

Groundwater at the Site is designated by the State as a potable water supply. Exposure pathways assessed in the updated risk evaluation for the groundwater included ingestion of tap water by adult and child residents. A summary of the exposure pathways that were associated with groundwater exposure can be found in Table 4. Typically, exposures are evaluated using a statistical estimate of the exposure point concentration, which is usually an upper-bound estimate of the average concentration for each contaminant, but in some cases may be the maximum detected concentration. For the risk evaluation, only the well data from the 6 monitoring wells (MW-12B, MW-15B, MW-16, MW-17-1, MW-17-2, MW-17-3) located beyond the capture zone were used. Of the chemicals detected in these wells, DCE, DCA, TCA, and TCE were included in the risk evaluation; TCE was evaluated quantitatively, while the other three were assessed qualitatively. A summary of the exposure point concentration for TCE can be found in Table 3, while a comprehensive list of the concentrations for all COPCs can be found in the updated risk evaluation memorandum.

#### Toxicity Assessment

Under current EPA guidelines, the likelihood of carcinogenic risks and noncancer hazards due to exposure to Site chemicals are considered separately. Consistent with current EPA policy, it was assumed that the toxic effects of the Site-related chemicals would be additive. Thus, cancer and noncancer risks associated with exposures to individual COPCs were summed to indicate the potential risks and hazards associated with mixtures of potential carcinogens and noncarcinogens, respectively.

Toxicity data for the human health risk assessment were provided by the Integrated Risk Information System (IRIS) database, the Provisional Peer Reviewed Toxicity Database (PPRTV), or another source that is identified as an appropriate reference for toxicity values consistent with EPA's directive on toxicity values. This information is presented in Table 5 (cancer toxicity data summary). As no noncarcinogenic toxicity values are currently available from EPA recommended sources, the systemic health effects were not quantitatively assessed in the risk evaluation.

#### Risk Characterization

For carcinogens, risks are generally expressed as the incremental probability of an individual developing cancer over a lifetime as a result of exposure to a carcinogen, using the cancer slope factor (SF) for oral and dermal exposures and

the inhalation unit risk (IUR) for inhalation exposures. Excess lifetime cancer risk for oral and dermal exposures is calculated from the following equation, while the equation for inhalation exposures uses the IUR, rather than the SF:

 $Risk = LADD \times SF$ 

These risks are probabilities that are usually expressed in scientific notation (such as  $1 \ge 10-4$ ). An excess lifetime cancer risk of  $1 \ge 10-4$  indicates that one additional incidence of cancer may occur in a population of 10,000 people who are exposed under the conditions identified in the assessment. Again, as stated in the National Contingency Plan, the acceptable risk range for Site-related exposure is 10-6 to 10-4, with the goal of protection (point of departure) being  $1 \ge 10-6$ .

Results of the updated risk evaluation are presented in Table 6. The results indicate that residential exposure to the concentrations of TCE in the groundwater beyond the capture zone would be associated with an excess lifetime cancer risk of 3 x 10-5, which exceeds the point of departure of 1 x 10-6.

A qualitative review of the concentrations of DCE, DCA, TCA, and TCE was also performed. Of the 24 results collected from the 6 monitoring wells from the December 2007 sampling event, 88% (21 of 24) were in excess of their respective state MCLs for drinking water.

In summary, DCE, DCA, TCA, and TCE in groundwater contribute to unacceptable risks to receptor populations that may use the contaminated groundwater and are present at concentrations that exceed the state MCL.

The response action selected in this ROD Amendment is necessary to protect the public health or welfare of the environment from actual or threatened releases of contaminants into the environment.

#### Uncertainties

The procedures and inputs used to assess risks in this evaluation, as in all such assessments, are subject to a wide variety of uncertainties. In general, the main sources of uncertainty include:

- environmental chemistry sampling and analysis
- environmental parameter measurement
- fate and transport modeling
- exposure parameter estimation
- toxicological data.

Uncertainty in environmental sampling arises in part from the potentially uneven distribution of chemicals in the media sampled. Consequently, there is significant uncertainty as to the actual levels present. Environmental chemistry-analysis error can stem from several sources including the errors inherent in the analytical methods and characteristics of the matrix being sampled.

Uncertainties in the exposure assessment are related to estimates of how often an individual would actually come in contact with the chemicals of concern, the period of time over which such exposure would occur, and in the models used to estimate the concentrations of the chemicals of concern at the point of exposure.

Uncertainties in toxicological data occur in extrapolating both from animals to humans and from high to low doses of exposure, as well as from the difficulties in assessing the toxicity of a mixture of chemicals. These uncertainties are addressed by making conservative assumptions concerning risk and exposure parameters throughout the assessment. As a result, the risk assessment provides upper-bound estimates of the risks to populations near the Site, and is highly unlikely to underestimate actual risks related to the Site.

## REMEDIAL ACTION OBJECTIVES

Remedial action objectives (RAOs) are specific goals established to protect human health and the environment. RAOs are based on available information and regulatory standards, such as applicable or relevant and appropriate requirements (ARARs), NYSDEC's soil cleanup objectives, Site-specific risk-based levels, and the reasonably anticipated future land use for the MRIP Property, <u>i.e</u>., commercial development.

The prior RAOs developed in the 2000 ROD and during the FS for soil and groundwater were designed, in part, to mitigate the health threats posed by ingestion and inhalation (through showering) of groundwater and contact with soils. The following RAOs were established in the 2000 ROD:

- o Eliminate inhalation and ingestion of, and dermal contact with, contaminated groundwater associated with the Site that does not meet State or Federal drinking water standards.
- o Restore the aquifer to its most beneficial use (i.e., as a source of potable water), and restore it as a natural resource.
- Prevent or minimize cross-media impacts from COCs in contaminated soil to the underlying groundwater, which will also eliminate potential future exposure to this soil. Site soil cleanup objectives for COCs would be based on NYSDEC's TAGM 4046 for groundwater protection.
- o Eliminate further off-MRIP Property contaminated groundwater migration.

Current Site conditions are reflective of the effectiveness of the removal and remedial actions taken to date. Based on these current site conditions, RAOs have been updated:

- o Restore the aquifer to its most beneficial use (i.e., as a source of potable water), and restore it as a natural resource.
- o Eliminate further off-MRIP Property contaminated groundwater migration.
- o Eliminate inhalation and ingestion of, and dermal contact with, contaminated groundwater associated with the Site that does not meet State or Federal drinking water standards.

Groundwater standards identified for the Site are based on NYSDEC Ambient Water Quality Standards and Guidance Values and Part 5 of NYS Sanitary Code, as well as the Federal Safe Drinking Water Act, 40 CFR Part 141-149, MCLs for drinking water. The contaminant-specific cleanup levels are presented in Table 1. The cleanup level for each of the Site's COCs is 5 ppb.

## DESCRIPTION OF GROUNDWATER RESPONSE ALTERNATIVES

The 1999 Proposed Plan and FS evaluated, in detail, the original remedial alternatives considered for the remedy selected in the 2000 ROD. The Post-Decision Proposed Plan highlighted the proposed changes to groundwater remedy, and summarizes the comparative evaluation of the original and proposed remedies. These alternatives are presented in detail below. The implementation time for each alternative reflects only the time required to construct or implement the remedy and not the time required to design the remedy, negotiate its performance by parties responsible for the contamination, if any, or procure contracts for design and construction. CERCLA requires that each selected Site remedy be protective of human health and the environment, be cost effective, comply with applicable or relevant and appropriate requirements (ARARs), and utilize permanent solutions and alternative treatment technologies and resource recovery alternatives to the maximum extent practicable. In addition, the statute includes a preference for the use of treatment as a principal element for the reduction of toxicity, mobility, or volume of the hazardous substances.

The alternatives for addressing groundwater contamination are provided below and are identified as GW-1, GW-2, and GW-3. Consistent with EPA guidance documents concerning ROD Amendments, the components of the original remedy proposed for amendment have been updated for cost and are compared to a new preferred alternative which was developed based upon existing Site circumstances. As noted above, EPA is currently operating a groundwater extraction and treatment system to control and reduce contamination within the near field plume. For all alternatives, the near field extraction and treatment system will continue to operate. Additionally, each alternative assumes that compliance with local regulations requiring property owners within the High Falls Water District to receive their domestic water supply from the High Falls Water Supply System will continue to be employed, preventing future use of the aquifer in the impacted or threatened area. The groundwater remedial alternatives are:

## Alternative GW-1 No Further Action

Present Worth:	\$ 4.7 million
Capital Cost:	\$0
Annual O&M (30 year O&M period):	\$ 375,360 near field system O&M
Time to Implement:	Not Applicable

EPA guidance addressing ROD amendments only requires that the original Selected Remedy (GW-2 below) and Proposed Remedy (GW-3 below) be described and compared in the ROD Amendment. This Alternative (GW-1) was included in the Proposed Plan, to provide the public with an understanding of the additional costs associated with the continued operation of the near-field plume treatment system; EPA wanted it to be clear that the continuation of this component of the remedy was not going to be subject to modification. It should be noted that if the continued operation of the near-field component of the Selected Remedy had been eliminated there would not be any future costs associated with remediating the groundwater and most importantly, the groundwater remedial action objectives would not be met

The Superfund program requires that the "No Further Action" alternative (GW-1) be considered as a baseline for comparison with the other alternatives. Under this alternative, EPA would take no further action within the far field plume to prevent migration of or exposure to groundwater contamination.

Alternative GW-1 includes active treatment of the near field plume, specifically, continued operation of the existing near field extraction and treatment system as a remedial action. The near field system includes extraction of contaminated groundwater from three recovery wells on the MRIP Property, treatment with an air stripper, carbon polishing, vapor phase carbon treatment of air releases, and discharge of the treated effluent to the Coxing Kill. Effluent criteria for discharge to the Coxing Kill, based on State regulatory standards under the State Pollutant Discharge Elimination System (SPDES) program, were provided by NYSDEC and documented in EPA's June 4, 1999 Action Memorandum for the NTCRA (Appendix E of the ROD). Target cleanup levels in the near field plume would be based on Federal and NYS MCLs.

The current groundwater monitoring program would be discontinued under this alternative. As a result, EPA would be unable to determine if contaminants were

migrating within groundwater or from groundwater to surface water or the extent to which natural attenuation was occurring. EPA would also be unable to assess source contaminant elimination beyond the evaluation of information inherent in operating the existing system.

The O&M cost for this alternative includes the continued O&M of the near field extraction and treatment system, including extraction of contaminated groundwater from recovery wells, treatment with an air stripper, carbon polishing of the effluent, vapor phase carbon treatment of air releases, and discharge of the treated effluent.

There are no capital costs for this alternative.

Because this alternative would result in contaminants remaining on-Site above levels that allow for unlimited use and unrestricted exposure, CERCLA requires that the Site be reviewed at least once every five years.

GW-2 Groundwater Extraction and	Treatment / Long-term Monitoring (LTM)
Present Worth:	\$ 18.4 million
Capital Cost:	\$ 5.44 million
Annual O&M (30 year O&M period):	\$ 375,360 near field system O&M
	\$ 375,360 far field system O&M
	\$ 241,088/yr LTM years 1-5
	\$ 222,240/yr LTM years 6-10
	\$ 164,096/yr LTM years 11-30
	\$ 400,000 SVE system years 1-3
Time to Implement:	12 months

Under Alternative GW-2, the far field component of the groundwater remedy established in the ROD would be implemented. Alternative GW-2 includes active remediation of contaminated groundwater by extraction and treatment Site-wide, <u>i.e.</u>, continued operation of the existing near field system described under Alternative GW-1 and the installation and operation of a separate extraction and treatment system off the MRIP Property (the far field system), in addition to longterm monitoring of groundwater, as a remedial action. Under this alternative, the operation of the existing and new groundwater extraction and treatment systems would control groundwater at the MRIP Property and remediate groundwater in the vicinity of the MRIP Property and within the far field plume. A long-term groundwater monitoring and data evaluation program would be conducted to monitor the groundwater contaminant concentrations and reduction of VOC concentrations over time, to evaluate the effectiveness of the groundwater extraction and treatment systems, and to confirm that the remedy remains protective. Target cleanup levels in the near- and far field plumes would be based on Federal and NYS MCLs.

The far field system's design would be similar to the near field (existing) extraction and treatment system, including extraction of contaminated groundwater from recovery wells, treatment with an air stripper, carbon polishing of the effluent, vapor phase carbon treatment of air releases, and discharge of the treated effluent. The extraction wells would be designed to collect contaminated groundwater, intercept the contaminant plume, and prevent any potential migration downgradient. The potential for depression of groundwater elevation in the aquifer and effects on existing private wells noted in the ROD would not be as great a concern because the alternative water supply remedy (public water supply via the Catskill Aqueduct) has been implemented. For the purposes of conceptually identifying the number of wells, extraction rates, and well locations, the same assumptions made in the ROD (based on groundwater modeling performed during the FS) are assumed, specifically three wells pumping at a rate of 40 gallons per minute (gpm) each. Optimal design parameters and a more refined estimate of the time required to remediate the aquifer would be developed during the remedial design phase.

For cost estimating purposes, it was assumed that treated groundwater for the new groundwater treatment plant would be discharged to the Rondout Creek via a gravity discharge line. Effluent criteria would be based on New York State Surface Water Standards. The treatment process may produce precipitate in the air stripper, which would be thickened and disposed of periodically following pre-disposal characterization.

Long-term monitoring (LTM) would include periodic recording of groundwater elevations, recording of water quality parameters, and collection and analysis of groundwater samples to provide an indication of the movement of the contaminants and daughter products or of the progress of remedial activities. Quarterly monitoring would include wells representative of background conditions, horizontal and vertical plume boundaries, and the center of the plume, and include sentinel wells along the established perimeter. The annual monitoring event would include additional wells in the monitoring well network to refine contaminant distribution within the plume and to confirm conditions beyond the plume boundary. Table 1 presents the monitoring wells expected to be initially included in the LTM well network. Target cleanup levels in the near- and far field plumes would be based on Federal and NYS MCLs.

During the implementation of the remedy, the appropriateness of the monitoring well network with respect to the plume would be evaluated as the plume is further refined. If monitoring data indicate increases ongoing in levels of parent contaminants indicative of other sources or the contaminant plume increases significantly in areal or vertical extent and/or volume from that predicted by modeling estimates, modifications could be made to the well network. Potential modifications to the network would include the abandonment and/or installation of monitoring wells as necessary to support the selected remedy. Under this alternative, additional monitoring wells would be installed as necessary to allow for comprehensive monitoring of the contamination.

Operation and maintenance (O&M) of the Site's soil vapor extraction system (SVE) would be continued as required. Monitoring of the SVE system would be performed to evaluate the effectiveness of the system. O&M of the system will continue until influent levels have become asymptotic over a 12-month period or; no measurable concentrations of Site contaminants are recoverable or; appropriate cleanup levels have been achieved. This evaluation would be conducted during the annual groundwater monitoring event, at a minimum. It is currently anticipated that the SVE system will be shutdown within the next 3 years. The sub-slab vapor mitigation system should remain in place and operational until it is no longer needed to address current or potential exposures related to soil vapor intrusion. This determination should be based on, but not limited to, whether the subsurface vapors are affecting indoor air quality at levels of concern when the active mitigation systems are turned off. This determination will be made upon an evaluation of appropriate monitoring results.

The O&M cost for this alternative includes the LTM program and operation of the two groundwater extraction and treatment systems as well as the O&M cost for the soil vapor extraction system (SVE) and the sub-slab vapor mitigation system. The treatment processes may produce precipitate, which would be thickened and disposed of off-Site periodically following pre-disposal characterization. For cost estimating purposes, it was assumed that the precipitate would be disposed of as non-hazardous waste at a local landfill. Calculating the expected durations of the groundwater alternatives has proven to be difficult at this Site due to the fractured bedrock hydrogeology. The groundwater modeling conducted in the 1999 NYSDEC Feasibility Study (FS) was performed to estimate cleanup timeframes for the groundwater treatment remedy for the entire Site-wide groundwater plume (with both the near field and the far field treatment systems operating simultaneously). The modeling effort resulted in an estimated cleanup timeframe of 27 to 87 years for the source area (near field) groundwater as well as for the lower concentration far field groundwater. The concentrations in the far field have decreased since the time of the modeling performed in 1999 due to: 1) effective source area groundwater remediation and containment with the current near field treatment system and 2) natural attenuation of contaminants in the far field groundwater. Thus, the cleanup timeframe estimates for a groundwater pump and treat system for the far field plume would be even less than the estimates in the FS since the concentrations are now lower and contaminated groundwater in the near field is no longer a source for the far field. For cost estimating and alternative comparison purposes, a 30-year operation duration was utilized.

This remedy would result in achievement of an unlimited use and unrestricted exposure scenario. Achievement of this result would require longer than five years. In accordance with CERCLA, a remedy review would be conducted at least once every five years until such time that the Site allows for unlimited use and unrestricted exposure.

#### Alternative GW-3 MNA/Long-Term Monitoring

Present Worth	\$ 8.28 million
Capital Cost	\$ 12,720
Annual O&M (30-year O&M period)	\$ 375,360 near field system
	\$ 241,088 LTM years 1-5
	\$ 222,240 LTM years 6-10
	\$ 164,096 LTM years 11-30
	\$ 400,000 SVE system years 1-3
Time to Implement:	0 months

Alternative GW-3 includes MNA and long-term monitoring of groundwater, in conjunction with the continued active treatment of the near field plume as described under GW-2, as a remedial action. Under this alternative, VOCs within the far field plume would be attenuated via naturally occurring processes within and along the perimeter of the far field plume. The continued operation of the existing groundwater extraction and treatment system would control and remediate groundwater in the vicinity of the MRIP Property. A long-term groundwater monitoring and data evaluation program would be implemented to monitor the groundwater contaminant concentrations and reduction of VOC concentrations over time and to confirm that the remedy remains protective. Target cleanup levels in the near and far field plumes would be based on Federal and NYS MCLs.

The 2008 Final MNA Assessment estimated that Site groundwater would achieve TCA remediation goals within the far field plume in approximately 44 years for Alternative GW-3. However, it should be noted that these projected time estimates should be considered rough estimates only. Monitoring data was evaluated in the 2008 Final MNA Assessment to produce an estimated aquifer restoration goal for each COC in the groundwater in the vicinity of each monitoring well (see Table 9). The restoration timeframes indicated that the cleanup levels for all of the COCs could be achieved at each of the monitoring wells in as few as 8 years or up to 56 years. In fact, some of these cleanup levels have already been achieved in several locations. The rate constants and the projected times derived from these values possess uncertainties. As noted above, there are also significant uncertainties in the modeling performed in the 1999 Feasibility Study that predicted it would take 27 to 87 years to achieve cleanup levels in the plume. As a result, the timeframes

for achieving the cleanup levels throughout the plume under either the MNA approach of alternative GW-3 or the active groundwater extraction and treatment approach of alternative GW-2 cannot be distinguished. Overall, EPA believes that alternative GW-3 will provide similar levels of long term effectiveness as alternative GW-2.

The viability of MNA as a remedy is supported by the following observations:

- o implementation of the alternate water supply remedy has eliminated inhalation, ingestion and dermal contact with contaminated groundwater associated with the Site that does not meet the State or Federal drinking water standards;
- o decreasing contaminant concentrations in the near field plume, with achievement of clean-up goals within a reasonable timeframe;
- o stable and low or non-detectible contaminant concentrations in the far field
  plume;
- o presence of the full range of TCA daughter products in the far field plume and/or the wells bounding the far field plume;
- o presence of reducing conditions bounding the far field plume;
- o migration of contamination beyond the HFWD to private wells to the northeast that are not connected to the public water supply is unlikely given the reducing conditions bounding the plume and the non-detect concentrations in wells closer to the plume edges; and
- significant enhancement of the present MNA processes is expected by the additional source area removal presently being implemented via the SVE system and the increase in extraction rates at the near field groundwater treatment system.

Long-term monitoring (LTM) would include periodic recording of groundwater elevations, recording of water quality parameters, and collection and analysis of groundwater samples to provide an indication of the movement of the contaminants and daughter products or of the progress of remedial activities. Quarterly monitoring would include wells representative of background conditions, horizontal and vertical plume boundaries, and the center of the plume, and include sentinel wells along the established perimeter. The annual monitoring event would include additional wells in the monitoring well network to refine contaminant distribution within the plume and to confirm conditions beyond the plume boundary. Table 1 presents the monitoring wells expected to be initially included in the LTM well network.

During the implementation of the remedy, the appropriateness of the monitoring well network with respect to the plume will continually be evaluated as the plume is further refined. If monitoring indicates increases in levels of COCs within the contaminant plume or significant increases in areal or vertical extent and/or volume from that predicted by modeling estimates, modifications could be made to the well network. Potential modifications to the network would include the abandonment and/or installation of monitoring wells as necessary to support the selected remedy. Under this alternative, additional monitoring wells would be installed as necessary to allow for comprehensive monitoring of the contamination.

Operation and maintenance (O&M) of the Site's soil vapor extraction system (SVE) would be continued as required. Monitoring of the SVE system would be performed to evaluate the effectiveness of the system. O&M of the system will continue until influent levels have become asymptotic over a 12-month period or; no measurable concentrations of Site contaminants are recoverable or; appropriate cleanup levels have been achieved. This evaluation would be conducted during the annual groundwater monitoring event, at a minimum. It is currently anticipated that the SVE system will be shutdown within the next 3 years. The sub-slab vapor mitigation system should remain in place and operational until it is no longer needed to address current or potential exposures related to soil vapor intrusion. This determination should be based on, but not limited to, whether the subsurface vapors are affecting indoor air quality at levels of concern when the active mitigation systems are turned off. This determination will be made upon an evaluation of appropriate monitoring results.

The O&M cost for this alternative includes the LTM program and operation of the near field groundwater extraction and treatment system as well as the O&M cost for the soil vapor extraction system (SVE) and the sub-slab vapor mitigation system. The treatment processes may produce waste sludge, which would be thickened and disposed of periodically following analyses to determine the appropriate disposal option; for cost estimating purposes, it was assumed that the sludge would be disposed of off-Site as non-hazardous waste at a local landfill.

This remedy would result in achievement of an unlimited use and unrestricted exposure scenario. Achievement of this result would require longer than five years. In accordance with CERCLA, a remedy review would be conducted at least every five years until such time that the Site allows for unlimited use and unrestricted exposure.

### EVALUATION OF ALTERNATIVES

During the detailed evaluation of remedial alternatives, each alternative is assessed against nine evaluation criteria. These nine criteria are as follows: overall protection of human health and the environment; compliance with applicable or relevant and appropriate requirements; long-term effectiveness and permanence; reduction of toxicity, mobility, and volume through treatment; short-term effectiveness; implementability; cost; and State and community acceptance. The evaluation criteria are described below.

- Overall protection of human health and the environment addresses whether or not a remedy provides adequate protection and describes how risks posed through each exposure pathway (based on a reasonable maximum exposure scenario) are eliminated, reduced, or controlled through treatment, engineering controls, or institutional controls.
- <u>Compliance with applicable or relevant and appropriate requirements (ARARs</u>) addresses whether or not a remedy would meet all of the applicable or relevant and appropriate requirements of other Federal and State environmental statutes and requirements, or provide grounds for invoking a waiver.
- o Long-term effectiveness and permanence refers to the ability of a remedy to maintain reliable protection of human health and the environment over time, once cleanup goals have been met. This criteria also addresses the magnitude and effectiveness of the measures that may be required to manage the risk posed by treatment residuals and/ or untreated wastes.
- o <u>Reduction of toxicity, mobility, or volume through treatment</u> is the anticipated performance of the treatment technologies, with respect to these parameters, a remedy may employ.
- o <u>Short-term effectiveness</u> addresses the period of time needed to achieve protection and any adverse impacts on human health and the environment that may be posed during the construction and implementation period until cleanup goals are achieved.
- o <u>Implementability</u> is the technical and administrative feasibility of a remedy, including the availability of materials and services needed to implement a particular option.
- o <u>Cost</u> includes estimated capital and operation and maintenance (O&M) costs, and net present worth costs.
- o <u>State acceptance</u> indicates whether the State concurs with, opposes, or has no comment on the preferred remedy.
- <u>Community acceptance</u> will be assessed in the ROD Amendment and refers to the public's general response to the alternatives described in the Post-Decision Proposed Plan.

## Comparative Analysis of Groundwater Response Alternatives

In this ROD Amendment, the analysis includes only groundwater response alternatives because the permanent remedies for the alternate water supply and Site soils have already been implemented.

## Overall Protection of Human Health and the Environment

GW-1 would not be protective because the present and future use scenarios which assume that the Site groundwater could be utilized as a potable water supply present unacceptable carcinogenic risks. The Site groundwater is not currently being used as a source of drinking water within the Water District, but is used currently and will be in the future beyond the Water District boundary. Alternatives GW-2 and GW-3 would be protective of human health and the environment, as contaminant migration beyond the boundaries of the Water District would be restricted by natural attenuation or active treatment. GW-1 would not be protective of human health and the environment and/or achieve ARARs, since in the absence of the long-term groundwater monitoring program it would be unknown if Site contaminants would naturally attenuate or impact downgradient areas. Alternative GW-1 will therefore be eliminated from further discussion within the Comparative Analysis of Alternatives.

## Compliance with ARARs

For groundwater COCs TCE, TCA, DCE, and DCA the NYS Class GA groundwater (groundwater whose best usage is a source of potable water) and NYS drinking water standard is 5 ppb; for 1,4-dioxane, the 10 NYCRR Part 5 standard for "unspecified organic contaminants" (which 1,4-dioxane is) is 50 ppb.

For GW-2 and GW-3, the ARARs set forth in the ROD would be achieved over time. Compliance with ARARs would be demonstrated through the long-term monitoring program.

Residual VOC concentrations in the treated discharge from the active groundwater response Alternatives GW-2 and GW-3 would be at or below Federal and State standards (Clean Water Act, 33 U.S.C. §§ 1251-1387, and NYS Surface Water Standards, 6 NYCRR Parts 700-705). The alternatives would also comply with the Resource Conservation and Recovery Act (RCRA) 42 U.S.C. §§ 6901-6992.

Air emissions for the treatment system identified in Alternatives GW-2 and GW-3 would comply with the Clean Air Act (CAA, 42 U.S.C. §§ 7401 et. seq.), 6 NYCRR Part 2129 (air emissions) and NYS Air Guide 1. The alternatives would also comply with the National Historic Preservation Act (NHPA), Executive Order 11988 - Flood Plain Management, Executive Order 11990 - Protection of Wetlands and 40 CFR 6 Appendix A (Policy on Implementing Executive Order 11990), EPA's 1985 Statement of Policy on Floodplains/Wetlands Assessments for CERCLA Actions, and New York State wetlands protection under 6 NYCRR Part 662.

## Long-Term Effectiveness and Permanence

The groundwater alternative GW-2, which includes the continued operation of the near field groundwater system and construction and operation of a new far field groundwater system would likely clean up the groundwater plume somewhat faster than the GW-3 alternative which includes MNA with continued operation of only the near field groundwater system. However, Alternative GW-3 is expected to provide the same level of long-term effectiveness and permanence as Alternative GW-2 because there is no anticipated need for the contaminated ground water within the remedial timeframe and there is no distinguishable difference in the restoration timeframes. The effectiveness of Alternatives GW-2 and GW-3 would be assessed through routine groundwater monitoring and five-year reviews. O&M of the near field extraction and treatment system under Alternative GW-2 would provide an additional means to monitor removal of contaminants.

## Reduction of Toxicity, Mobility, or Volume through Treatment

Alternative GW-3 includes active treatment in the near field plume only. As a result, GW-2 reduces the toxicity, mobility, and volume of contaminated groundwater through active treatment to a greater extent than GW-3. However, toxicity and volume are reduced in the far field plume under GW-3 by natural mechanisms.

## Short-Term Effectiveness

Alternative GW-3 presents virtually no short-term impacts to human health and the environment since no construction is involved. The construction activities required to implement Alternative GW-2 would potentially result in greater shortterm exposure to contaminants by workers who would come into contact with the treatment system; however, proper health and safety precautions would minimize this occurrence. Additional adverse impacts to the community would include disruption of traffic and excavation activities on public and private land. Potential impacts due to the construction activities include noise and fugitive dust emissions, however, these impacts would be minimized by employing appropriate construction techniques and practices. The technologies included under Alternative GW-2 and under Alternative GW-3 are proven and reliable.

## Implementability

Groundwater response Alternatives GW-2 and GW-3 are available and can be implemented. The NTCRA component of both alternatives would already be in place on the MRIP Property, and would continue operating with a part-time operator. Alternative GW-3 does not involve any significant construction and, consequently, is much easier to implement. In addition to the continued O&M of the operational system, Alternative GW-3 only requires a monitoring program utilizing monitoring wells. Alternative GW-2 would be much more complex since it would also involve construction and piping installation in the short-term. For Alternative GW-2, the technologies for the installation of the extraction wells and treatment facility off the MRIP Property are readily available, although they would take approximately twelve months to construct. Access to property for construction of the additional treatment plant, and installation of piping and wells would need to be obtained. Acquisition of easements for private and/or public property would be required. Public concerns regarding the placement of the facilities would also need to be addressed.

#### Cost

The capital costs, O&M costs, and present worth costs associated with each of the groundwater response alternatives are presented below. Present worth costs were calculated over a 30-year period using 7 percent as the discount rate.

Cost Comparison Table

	GW-2	GW-3			
Capital Cost	\$ 5,441,000	\$ 12,720			
Annual Costs					
Systems O&M					
near field system	\$ 375,360	\$ 375,360			
far field system	\$ 375,360	\$ 0			
SVE system years 1-3	\$ 400,000	\$ 400,000			
Long-term Monitoring					
years 0-5	\$ 241,088	\$ 241,088			
years 6-10	\$ 222,240	\$ 222,240			
years 11-30	\$ 164,096	\$ 164,096			
Present Worth Cost	\$ 18.4 million	\$ 8.28 million			

As indicated above, Alternative GW-2 is the most costly alternative. As presented above, the capital and present worth costs for Alternative GW-3 are much lower than

Alternative GW-2. The O&M of Alternative GW-2 is higher than Alternative GWS-3 due to the operation of the additional groundwater treatment system.

#### State Acceptance

NYSDEC concurs with the selected remedy. A letter of concurrence is attached (APPENDIX IV).

## Community Acceptance

Community acceptance of the amended remedy for groundwater was assessed during the public comment period. While several residents expressed a preference for Alternative GW-2, EPA believes that the community generally supports the proposed remedy. Specific responses to public comments on the Post-Decision Proposed Plan are addressed in the Responsiveness Summary (APPENDIX V).

## PRINCIPAL THREAT WASTES

Principal threat wastes are those source materials considered to be highly toxic or highly mobile that generally cannot be reliably contained, or would present a significant risk to human health or the environment should exposure occur. Contaminated groundwater generally is not considered to be source material; accordingly, there are no source materials defined as principal threat wastes at the Site.

## SELECTED REMEDY

Based upon an evaluation of the various alternatives and consideration of community acceptance, EPA and NYSDEC have selected groundwater Alternative GW-3: MNA/Long-term Monitoring as the selected groundwater remedy for the MRIP Superfund Site.

#### Summary of the Rationale for the Selected Remedy

EPA believes that the preferred alternative will be protective of human health and the environment, will comply with ARARs, and will be cost-effective. Alternative GW-3 provides the best balance of trade-offs among alternatives with respect to the evaluating criteria.

The ultimate objective for the groundwater portion of this remedial action is to restore contaminated groundwater within the underlying aquifers to its beneficial uses. This aquifer could be used as a future source of drinking water, but is not being used currently for this purpose within the HFWD. Based on information obtained during the RI and subsequent remedial and investigative activities and a careful analysis of all remedial alternatives, EPA and NYSDEC believe that the Selected Remedy will achieve this objective in a reasonable time frame. Since several lines of evidence (described under Alternative GW-3 herein and in detail within the 2008 Final MNA Assessment) indicate that monitored natural attenuation would be successful in attaining remediation objectives for Site groundwater, EPA and the State have determined that contingency measures are not needed as part of the remedy selected in this ROD.

## Description of Selected Remedy

The elements of the amended groundwater response Alternative GW-3: MNA/Long-term Monitoring, include continued operation of the near field groundwater extraction wells and treatment system on the MRIP Property (installed under EPA's NTCRA to address the most contaminated portion of the groundwater plume), monitored natural attenuation within the far field plume, long-term monitoring of groundwater, and institutional controls. Figure 2 shows the location of the existing near field treatment system, and Figure 4 shows the locations of the wells currently estimated to be included in the monitoring well network. Cleanup levels for each groundwater chemical of concern (COC) are specified in Table 1. The cleanup level for each of the Site COCs is 5 ppb. The near field system includes extraction of contaminated groundwater from three recovery wells on the MRIP Property, treatment with an air stripper, and carbon polishing of the effluent, vapor phase carbon treatment of air releases, and discharge of the treated effluent to the Coxing Kill.

A long-term groundwater monitoring program will be implemented that will assess the effectiveness of groundwater extraction and treatment on the contaminant levels in the aquifer over time.

o Actual performance of the natural attenuation remedy within the far field plume will be carefully monitored in accordance with the LTM plan to be developed. If monitoring data indicate that contaminant levels do not continue to decline as estimated in the modeling predictions, EPA and NYSDEC will reevaluate the groundwater remedy decision.

Institutional controls are being relied upon to prevent the future use of the aquifer within the HFWD until the cleanup levels specified in Table 1 have been attained. These institutional controls consist of existing 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. These institutional controls would no longer be necessary following the restoration of groundwater to beneficial use.

Operation and maintenance (O&M) of the Site's soil vapor extraction system (SVE) would be continued as required. Monitoring of the SVE system would be performed to evaluate the effectiveness of the system. O&M of the system will continue until influent levels have become asymptotic over a 12-month period or; no measurable concentrations of Site contaminants are recoverable or; appropriate cleanup levels have been achieved. This evaluation would be conducted during the annual groundwater monitoring event, at a minimum. Tt. is currently anticipated that the SVE system will be shutdown within the next 3 years. The sub-slab vapor mitigation system should remain in place and operational until it is no longer needed to address current or potential exposures related to soil vapor intrusion. This determination should be based on, but not limited to, whether the subsurface vapors are affecting indoor air quality at levels of concern when the active mitigation systems are turned off. This determination will be made upon an evaluation of appropriate monitoring results.

#### Summary of Estimated Remedy Costs

The estimated present worth cost to implement the groundwater remedy (GW-3) is \$8.28 million (Table 7). The cost to implement the remedy, considered to include only the development of approved sampling and health and safety plans, is estimated to be \$12,720. The estimated average annual cost for the MNA portion of this groundwater remedy (including near field system O&M at \$375,600/year and long-termmonitoring averaging \$186,644/year) for 30 years is \$562,004. The estimated annual cost for the continued operation of the SVE system is \$400,000.

The information in this cost estimate summary is based on the best available information regarding the anticipated scope of the selected remedy. These are order-of-magnitude engineering cost estimates that are expected to be within +50 to -30 percent of the actual cost of the project. Changes in the cost elements may occur as a result of new information and data. Major changes may be documented in the form of a memorandum in the Administrative Record file, an Explanation of Significant Difference (ESD), or a further ROD amendment.

## Expected Outcomes of Selected Remedy

Based on historic groundwater data, the modeling performed by NYSDEC in the FS, and subsequent evaluations including the 2008 Final MNA Assessment, it is estimated that implementation of groundwater response Alternative GW-3 will achieve Site cleanup objectives for groundwater in several decades through operation of a groundwater extraction and treatment system for the near field portion of the plume and implementation of MNA program for the far field portion of the plume. By achieving cleanup levels, the groundwater will be available for its best use (as a source of potable water supply).

The cleanup levels for Site COCs, summarized in Table 1 herein (also shown in TABLE 14 of the 2000 ROD), are based on ARARs (i.e., EPA and NYS groundwater and drinking water standards). The cleanup level for each of 1,1-DCE, 1,1-DCA, 1,1,1-TCA, and TCE is 5 ppb, while the cleanup level for 1,4-dioxane is 50 ppb. The near field system component is already operational; the amended remedy requires only limited project plans to be considered operational.

## STATUTORY DETERMINATIONS

Under its legal authorities, EPA's primary responsibility at Superfund Sites is to undertake remedial actions that are protective of human health and the environment. In addition, Section 121 of CERCLA establishes several other statutory requirements and preferences. These specify that when complete the selected remedial action for this Site must comply with applicable, or relevant and appropriate environmental standards established under Federal and State environmental laws unless a waiver from such standards is justified. The selected remedy also must be cost-effective and utilize permanent solutions and alternative treatment technologies or resourcerecovery technologies to the maximum extent practicable. Finally, the statute includes a preference for remedies that employ treatment that permanently and significantly reduce the volume, toxicity, or mobility of hazardous substances, as available. The following sections discuss how the selected remedy meets these statutory requirements. EPA and NYSDEC believe that the selected remedy will be protective of human health and the environment, comply with ARARs, be costeffective, and utilize permanent solutions to the maximum extent practicable, as discussed below.

# Protection of Human Health and the Environment

The selected remedy is protective of human health and the environment. Alternative GW-3 will minimize the migration of the groundwater plume and achieve cleanup levels for the best available use of the aquifer as a potable water supply. The long-term monitoring of the groundwater will provide a means by which the attenuation of contamination within the far field plume can be confirmed. Implementation of the selected remedy will not pose unacceptable short-term risks, and no adverse cross-media impacts are expected.

#### Compliance with ARARs

The NCP (§ 300.430(f)(5)(ii)(B) and (C)) requires that the selected remedy attain Federal and State ARARs. The remedy will comply with the following action-, chemical-and location-specific ARARs identified for the Site which will be demonstrated through monitoring, as appropriate.

Action-Specific ARARs:

- o 40 CFR Part 61 National Emissions Standards for Hazardous Air Pollutants
- o 42 U.S.C. §§ 7401-7601, Clean Air Act
- o 42 U.S.C. Section 6901-6992, 40 CFR Parts 260-268 RCRA Standards for Handling, Transportation and Disposal of Hazardous Waste, including Land Disposal Restrictions
- o CERCLA off-Site policy (NCP §300.440)
- o 6 NYCRR Part 200.6 Ambient Air Quality Standards

o 6 NYCRR Parts 370-376 - New York State Standards for Handling, Transportation and Disposal of Hazardous Waste

DOT transportation regulations

- Small System Compliance Technology List for the Surface Water Treatment Rule (EPA 815-R-97-002)
- o Small System Compliance Technology List for the Surface Water Treatment Rule and Total Coliform Rule (EPA 815-R-98-001)
- Small System Compliance Technology List for the Non-Microbial Contaminants Regulated Before 1996 (EPA 815-R-98-0021, and Variance Technology Findings for Contaminants Regulated Before 1996 (EPA 815-R-98-003)

#### Chemical-Specific ARARs:

- o 40 CFR Part 141 Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs)
- o 42 U.S.C. §§ 300f-300j-26, Safe Drinking Water Act
- o 6 NYCRR Parts 700-705, NYS Surface Water Standards
- o 6 NYCRR Part 703, Groundwater Standards for Class GA groundwater
- o 33 U.S.C. §§ 1251-1387, Clean Water Act
- o 10 NYCRR Part 5 New York State Sanitary Code for Drinking Water

Location-Specific ARARs:

- o 40 CFR 6 Appendix A (Policy on Implementing Executive Order 11990)
- o 6 NYCRR Part 662, New York State wetland protection provisions

To-Be-Considered

- o Executive Order 11990 Protection of Wetlands
- EPA 1985 Statement of Policy on Floodplains/ Wetlands Assessments for CERCLA Actions
- o National Historic Preservation Act (NHPA), 16 U.S.C. 470-1 470a-2
- o Executive Order 11988 Flood Plain Management
- o Air Guide I NYSDEC Control of Toxic Ambient Air Contaminants
- o Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites (EPA 540-F-99-009, April 1999)

#### Cost-Effectiveness

A cost-effective remedy is one whose costs are proportional to its overall effectiveness (NCP §§ 300.430(f)(1)(i)(B)). Overall effectiveness is based on the evaluations of: long-term effectiveness and permanence; reduction in toxicity, mobility, and volume through treatment; and short-term effectiveness. Based on the comparison of overall effectiveness to cost, the selected remedy meets the statutory requirement that Superfund remedies be cost-effective (NCP §§ 300.430(f)(1)(ii)(D)). Each of the alternatives has undergone a detailed cost analysis. In that analysis, capital costs and O&M costs have been estimated and used to develop present-worth costs. In the present-worth cost analysis, annual costs were calculated for 30 years (estimated life of an alternative) using a seven percent discount rate (consistent with the Proposed Plan). For a detailed breakdown of costs associated with the selected remedy, please see Table 8.

# Utilization of Permanent Solutions and Alternative Treatment Technologies to the Maximum Extent Practicable

EPA has determined that the selected remedy represents the maximum extent to which permanent solutions and treatment technologies can be utilized. The selected remedy utilizes permanent solutions to address the groundwater contamination problem at the Site. The selected remedy represents the most appropriate solution at the Site because it provides the best balance of trade-offs among the alternatives with respect to the evaluation criteria.

## Preference for Treatment as a Principal Element

The statutory preference for remedies that employ treatment as a principal element is satisfied through the use of treatment measures to reduce the volume and mobility of contaminated groundwater in the aquifer.

#### Five-Year Review Requirements

Because this remedy will not result in hazardous substances, pollutants, or contaminants remaining on-Site above levels that allow for unlimited use and unrestricted exposure, but will take more than five years to attain remedial action objectives and cleanup levels in the groundwater, a policy review may be conducted no less often than each five years after completion of the construction of the remedial action components for the Site to ensure that the remedy is, or will be, protective of human health and the environment.

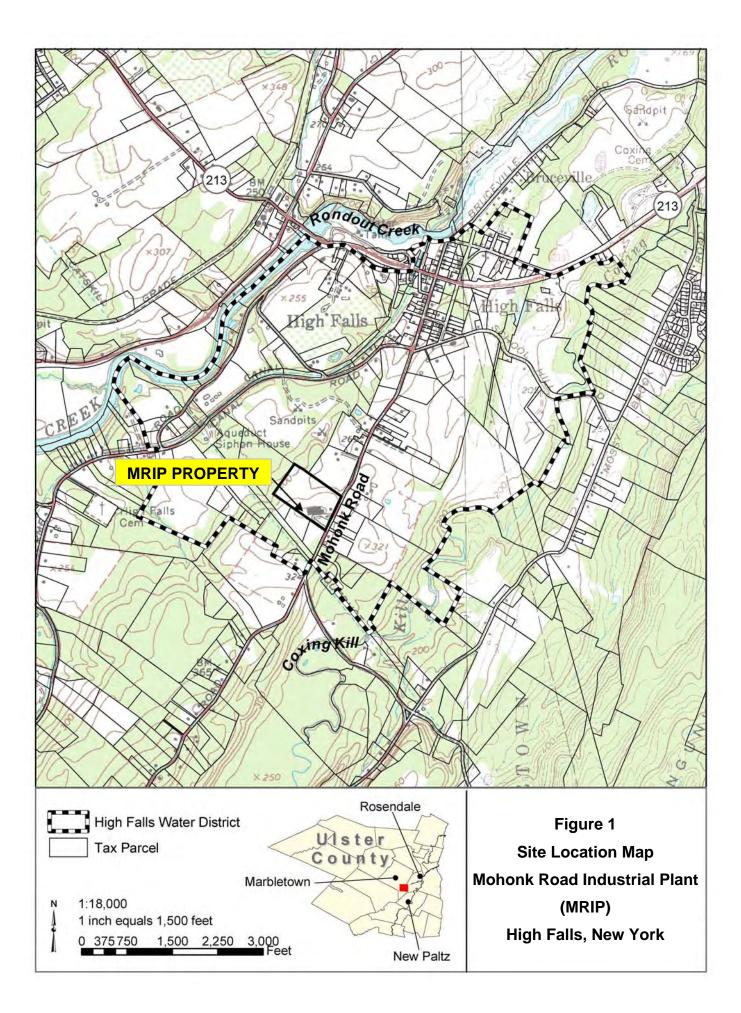
# DOCUMENTATION OF SIGNIFICANT CHANGES

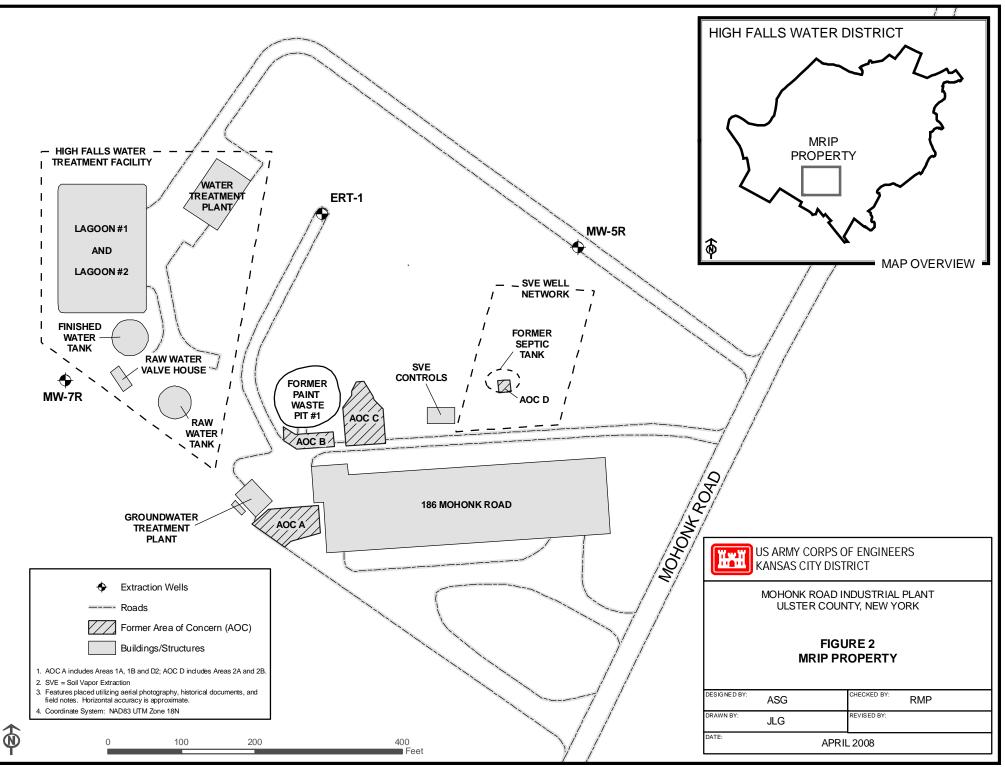
There were no significant changes from the preferred remedy presented in the Post-Decision Proposed Plan.

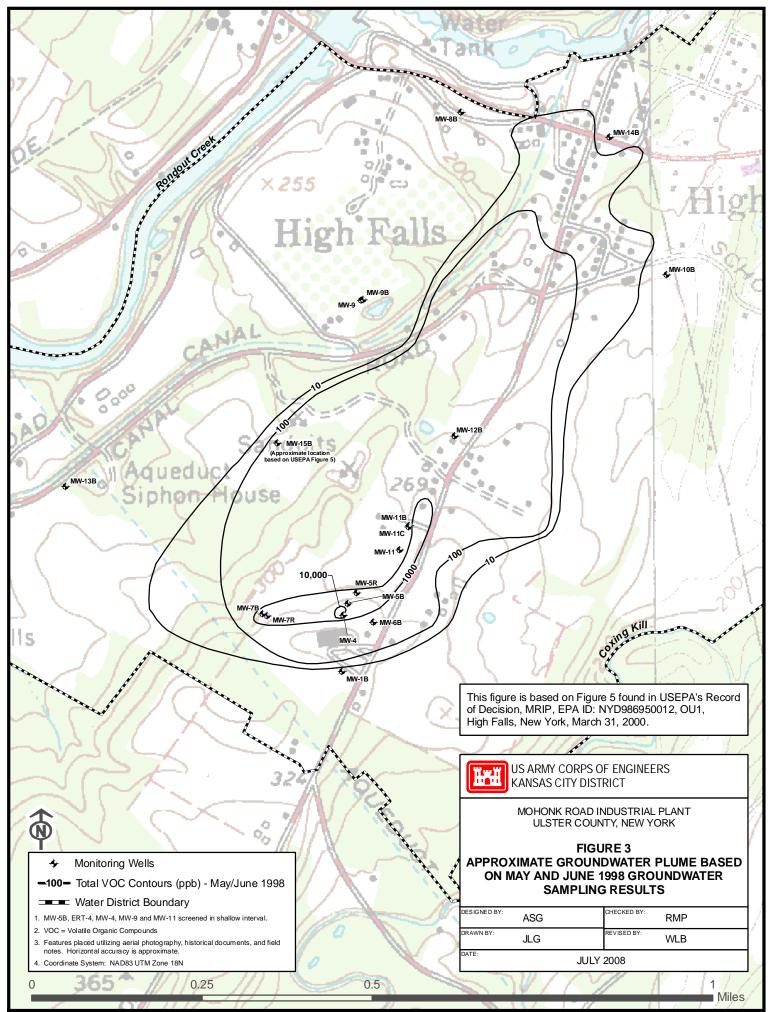
# APPENDIX I.

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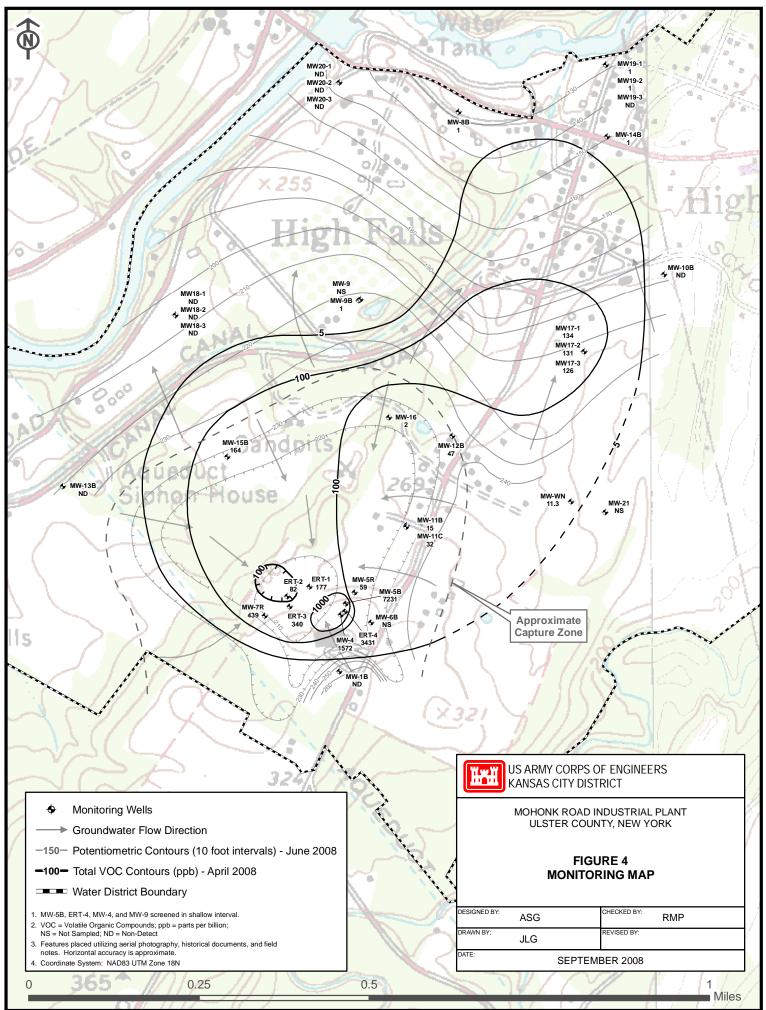
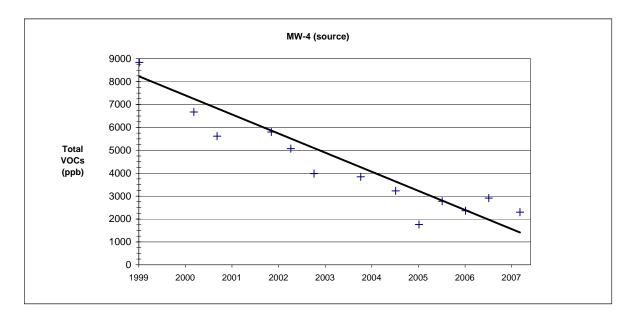
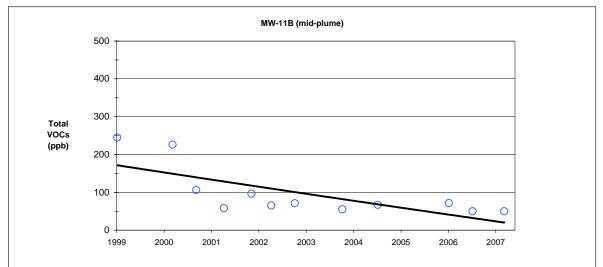
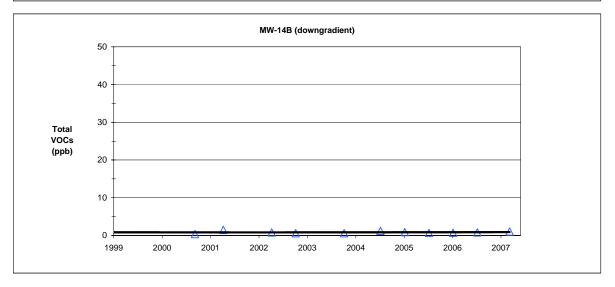


Figure 5 Total VOC Concentration Trends Mohonk Road Industrial Plant Site







#### APPENDIX II.

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#### Table 1 Proposed Long-term Monitoring Well Network **Mohonk Road Industrial Plant High Falls, New York**

Monitoring		Analyti	cal Results for	COCs <sup>1</sup>		Projected	term Monitorir	Long
Well	1,1-DCE	1,1-DCA	1,1,1-TCA	TCE	1,4-Dioxane		Frequency <sup>2</sup>	-9
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	yrs	yrs	yrs
MCLs	5	5	5	5	50	0 - 5	6 - 10	11 - 30
Perimeter Well								
MW-8B	0.26J	0.29J	0.5U	0.5U	3.6	Qtr	NS	NS
MW-9	NS	NS	NS	NS	NS	C <sup>4</sup>	C <sup>4</sup>	C <sup>4</sup>
MW-9B	0.5U	0.22J	0.42J	0.5U	2	Qtr	Qtr	Ann
MW-10B	0.5U	0.5U	0.5U	0.5U	2U	Qtr	Qtr	Ann
MW-13B <sup>3</sup>	0.5U	0.5U	0.5U	0.5U	2U	Qtr	Ann	Ann
MW-14B	0.24J	0.74	0.5U	0.5U	1.6J	Qtr	Qtr	Ann
MW-18-1	0.5U	0.38J	0.5U	0.5U	0.73J	Qtr	Qtr	Ann
MW-18-2	0.5U	0.5U	0.5U	0.5U	0.98J	Qtr	Qtr	Ann
MW-18-3	0.5U	0.35J	0.5U	0.5U	0.66J	Qtr	Qtr	Ann
MW-19-1	0.5U	0.5J	0.5UJ	0.5U	1.9J	Ann	Ann	Ann
MW-19-2	0.5U	0.57	0.5UJ	0.5U	1.5J	Ann	Ann	Ann
MW-19-3	0.5U	0.41J	0.5UJ	0.5U	1.6J	Ann	Ann	Ann
MW-20-1	0.5U	0.5U	0.5U	0.5U	2U	Ann	NS	NS
MW-20-2	0.5U	0.5U	0.5U	0.5U	2U	Ann	NS	NS
MW-20-3	0.5U	0.5U	0.5U	0.5U	2U	A	NS	NS
MW-21-1 <sup>6</sup>	NS	NS	NS	NS	NS	Qtr	Qtr	Ann
MW-21-2 <sup>6</sup>	NS	NS	NS	NS	NS	Qtr	Qtr	Ann
MW-21-3 <sup>6</sup>	NS	NS	NS	NS	NS	Qtr	Qtr	Ann
MW-21-4 <sup>6</sup>	NS	NS	NS	NS	NS	Qtr	Qtr	Ann
MW-21-5 <sup>6</sup>	NS	NS	NS	NS	NS	Qtr	Qtr	Ann
MW-21-6 <sup>6</sup>	NS	NS	NS	NS	NS	Qtr	Qtr	Ann
Plume Wells				-				
ERT-2	14J	4.2	60	3.3	2U	Ann	Ann	Ann
ERT-3	37	13	250	40	31	Ann	Ann	Ann
MW-11	NS	NS	NS	NS	NS	C <sup>4</sup>	C <sup>4</sup>	C <sup>4</sup>
MW-11B	11J	5.3	13	2.4	5.3	Qtr	Ann	Ann
MW-11C	4.4	1.3	6	1.1	1.9J	Qtr	Ann	Ann
MW-12B	15J	8.8	18	5.2	9.8	Qtr	Qtr	Qtr
MW-15B	35	17	110	2.2	8.2	Qtr	Qtr	Qtr
MW-16	0.54	0.5U	1.1	0.5U	2U	Qtr	Qtr	Qtr
MW-17-1	38	14	74	7.5	11	Qtr	Qtr	Qtr
MW-17-2	36J	16	73	5.5	14	Qtr	Qtr	Qtr
MW-17-3	36J	18J	71	0.6	13	Qtr	Qtr	Qtr
MW-6B	NS	NS	NS	NS	NS	Qtr	Qtr	Qtr
MW-7B	NS	NS	NS	NS	NS	C <sub>6</sub>	C <sub>6</sub>	C <sub>6</sub>
Former Septic	Tank Area We	ells						
ERT-4	250	85J	3000	96J	9.3	Qtr	Qtr	Qtr
MW-4	110	32J	770	660	9.6	Ann	Ann	Ann
MW-5B	770	21J	6300	140J	14	Ann	Ann	Ann
Extraction Wel								
ERT-1	37J	10	120	10	7.8	Qtr	Qtr	Qtr
MW-5R	14J	3.4	36	6	14	Qtr	Qtr	Qtr
MW-7R	82	25	330	1.5	3.7	Qtr	Qtr	Qtr
Background W								
MW-1B	0.5U	0.5U	0.5U	0.5U	2U	Qtr	Qtr	Qtr

Notes:

1. Environmental samples collected April 2008.

2. 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.

3. Artesian well.

4. Sampling not currently projected at this existing network well.

5. MW-1, -2, -3, -5, and -6, formerly part of the historic monitoring network, have since been replaced, removed, abandoned, or destroyed.

6. MW-21 will be first sampled in October 2008.

Abbreviations:

1,1-DCA 1,1-dichloroethane

1,1-DCE 1,1-dichloroethene 1,1,1-TCA 1,1,1-trichloroethane

- Ann annually (1 time/year)
- C contingent sampling only
- COCs Contaminants of Concern
- ft amsl feet above mean sea level
- J estimated value
- MCL Maximum Contaminant Levels
- NA not available
- NR not recorded
- NS not sampled
- Qtr quarterly (4 times/year)
- Semi semi-annually (2 times/year)
- TCE trichloroethene
- U not detected above the reported value
- µg/L micrograms per liter
- yrs years

						1,4-	
Monitoring Well ID	Sample Date	1,1-DCE	1,1-DCA	1,1,1-TCA	TCE	Dioxane	
		1011	1011	1011	4044		
MRMW-1B	October 1999	10U	10U	10U	10U	NA	
	December 2000	<3U	<3U	<3U	<3U	NA	
	June 2001	<0.1U	<0.1U	<0.1U	<0.1U	NA	
	January 2002	<0.4U	<0.4U	<0.3U	<0.3U	NA	
	August 2002	<1.0J	<1.0J	<1.0J	<1.0J	NA	
	January 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA	
	July 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA	
	July 2004	0.5U	0.5U	0.5U	0.5U	1.3J	
	April 2005	0.5U	0.5U	0.5U	0.5U	2U	
	October 2005	0.5U 0.5U	0.5U	0.5U	0.5U	2U	
	April 2006		0.5U	0.5U	0.5U	2R	
	October 2006	0.5U	0.5U	0.5U	0.5U	2U	
	April 2007	0.5U	0.5U	0.5U	0.5U	NA	
	December 2007	0.5U	0.5U	0.5U	0.5U	2U	
MRMW-4	October 1999	380J	62	6800J	1600	NA	
	December 2000	500	75J	4500	1600	NA	
	June 2001	516	49.5	3580	1470	NA	
	January 2002	891	64	6160	2490	NA	
	August 2002	650	49	3300	1800	NA	
	January 2003	428	32	2960	1650	NA	
	July 2003	306	34	2220	1420	NA	
	July 2004	310	33J	2200	1300	9.6	
	April 2005	290	41	1600	1300	13	
	October 2005	100	39J	820	800	16J	
	April 2006	240	31J	1500J	1000J	5.9	
	October 2006	120	43	1100	1100	4	
	April 2007	210	34	1700	970	NA	
	December 2007	160	47J	1100	990	3.3	
MRMW-5B	October 1999	250	50	2900	130	NA	
	December 2000	280	43	2100	120	NA	
	June 2001	327	47.0	2370	91.0	NA	
	January 2002	1360	92.0	10,100	436.0	NA	
	January 2003	445	19	3030	171	NA	
	July 2003	171	27	1460	62	NA	
	July 2004	NS	NS	NS	NS	NS	
	April 2005	440	35	3000	270	15	
	October 2005	97	41J	1100	96	27	
	April 2006	280	28J	2500	230J	12J	
	October 2006	110	8.7	880	87	3.1	
	April 2007	420	27	2600	120	NA	
	December 2007	560	15	4600	380	4	
MRMW-5R	October 1999*	28	7J	290J	16	NA	
	December 1999	270	22	1500	62	NA	
	December 2000	120	23	400	34	NA	
	June 2001	75.0	17.4	466	24.5	NA	
	January 2002	339.0	67	1570	67	NA	
	August 2002	110	22	440	27	NA	
	January 2003	84	19	374	22	NA	
	July 2003	30	5	116	8	NA	
	July 2004	61	19	290	10	NA	
	March 2005	67	14	280	20	7.1	
	October 2006	61	15	230	9.2	5	
	April 2007	47	33	130	7	NA	
	December 2007	36	55	350	2.1	2.1U	

						1,4-	
Monitoring Well ID	Sample Date	1 1-DCE	1 1-DCA	1,1,1-TCA	тсе	Dioxane	
Monitoring Weir ID	Sumple Date	1,1-DCL	1,1-DC/1	1,1,1-10/1	ICL	Dioxune	
MRMW-6B	October 1999	7J	2J	58	10U	NA	
	December 2000	3	<3U	28	<3U	NA	
	June 2001	5.7	0.5	30.4	0.2J	NA	
	January 2002	13	1	78	0.7J	NA	
	August 2002	5.6	0.50J	27	<1J	NA	
	January 2003	2	0.4J	14	<0.3U	NA	
	July 2003	2	<0.3U	13	<0.3U	NA	
	July 2004	3.7	0.42J	18	0.5U	1.6J	
	April 2005	1.7	0.59	9.2	0.5U	2.3	
	April 2006	2.6	0.5U	14	0.5U	20U	
	October 2006	1.5	0.28J	11	0.5U	20R	
	April 2007	3.8	0.5U	17	0.5U	NA	
	December 2007	1.5	0.33J	11	0.5U	2.1U	
MRMW-7R	October 1999*	35	23	470	4J	NA	
	December 1999	71	27J	1000	8.9	NA	
	December 2000	44	27	320	<3U	NA	
	June 2001	39.8	23.2	381	3.8	NA	
	January 2002	34	39	550	4	NA	
	August 2002	56	60	480	5.0J	NA	
	January 2003	23/24	15/15	242/244	3/3	NA	
	July 2003	43	24	365	4	NA	
	July 2004	25	21	220	3.1	NA	
	March 2005	43	22	270	5.6	8	
	November 2005	20	16	170	3.5J	11	
	May 2006	24	23	200	4.8	NA	
	October 2006	33	46	250	1.6	3.9	
	April 2007	43	53	250	1.9	NA	
	December 2007	37	52	350	2	2	
MRMW-8B	October 1999	10U	10U	10U	10U	NA	
	December 2000	<3U	<3U	<3U	<3U	NA	
	June 2001	<0.1U	<0.1U	<0.1U	<0.1U	NA	
	January 2002	<0.4U	<0.4U	<0.3U	<0.3U	NA	
	January 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA	
	July 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA	
	July 2004	0.5U	0.5U	0.5U	0.5U	0.89J	
	April 2005	0.11J	0.24J	0.5U	0.5U	1.6J	
	October 2005	0.5U	0.5U	0.5U	0.5U	0.99J	
	April 2006	0.5U	0.5U	0.5U	0.5U	20R/2R	
	October 2006	0.5U	0.22J	0.5U	0.5U	2U	
	April 2007	0.5U	0.5U	0.5U	0.5U	NA	
	December 2007	0.22J	0.37J	0.5U	0.5U	2U	
MRMW-9	October 1999	10U	10U	10U	10U	NA	
	December 2000	<3U	<3U	<3U	<3U	NA	
	June 2001	<0.1U	<0.1U	<0.1U	<0.1U	NA	
	January 2002	<0.4U	<0.4U	0.7J	<0.3U	NA	
	August 2002	< 0.5	0.27 J	0.73	< 0.5	NA	
	January 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA	
	July 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA	
	July 2004	0.5U	0.5U	0.5U	0.5U	2U	
	October 2006	0.5U	0.5U	0.5U	0.5U	20R	
	April 2007	0.5U	0.5U	0.5U	0.5U	NA	

						1,4-
Monitoring Well ID	Sample Date	1.1-DCE	1.1-DCA	1,1,1-TCA	TCE	Dioxane
	Sumple Dute		1,1 2011	1,1,1 1 0.11	TOL	DioAune
MRMW-9B	October 1999	10U	10U	10U	10U	NA
	December 2000	<3U	<3U	<3U	<3U	NA
	June 2001	0.2J	<0.1U	0.6	<0.1U	NA
	January 2002	<0.4U	<0.4U	0.9J	<0.3U	NA
	August 2002	< 0.5	< 0.5	< 0.5	< 0.5	NA
	January 2003	<0.4U	0.3J	0.7J	<0.3U	NA
	July 2003	<0.4U	<0.4U	0.3J	<0.3U	NA
	July 2004	0.5U	0.26J	0.57	0.5U	2.5
	April 2005	0.13J	0.28J	0.69	0.5U	2.6
	October 2005	0.5U	0.26J	0.72	0.5U	3.4
	April 2006	0.5U	0.25J	0.46J	0.5U	1J
	October 2006	0.5U	0.25J	0.47J	0.5U	20R
	April 2007	0.5U	0.5U	0.7J	0.5U	NA
	December 2007	0.5U	0.5U	0.48J	0.5U	2.1U
MRMW-10B	October 1999	10U	10U	10U	10U	NA
	December 2000	<3U	<3U	<3U	<3U	NA
	June 2001	<0.1U	<0.1U	<0.1U	<0.1U	NA
	January 2002	<0.4U	<0.4U	<0.3U	<0.3U	NA
	August 2002	< 0.5	< 0.5	< 0.5	< 0.5	NA
	January 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA
	July 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA
	July 2004	0.5U	0.5U	0.5U	0.5U	0.86J
	April 2005	0.5U	0.5U	0.5U	0.5U	2U
	October 2005	0.5U	0.5U	0.1J	0.5U	2U
	April 2006	0.5U	0.5U	0.5U	0.5U	20UJ
	October 2006	0.5U	0.5U	0.5U	0.5U	2U
	April 2007	0.5U	0.5U	0.5U	0.5U	NA
	December 2007	0.5U	0.5U	0.5U	0.5U	2.1U
MRMW-11B	October 1999	29	15	190	11	NA
	December 2000	<3U	36	180	10	NA
	June 2001	24.4	12.3	64.6	4.8	NA
	January 2002	17	6	32	3	NA
	August 2002	28	8.5	56	3.8	NA
	January 2003	17	8	37	3	NA
	July 2003	14J	9J	44J	4J	NA
	July 2004	18	9.3	25	2.9	7
	April 2005	23	10	30	3.8	7.2
	October 2006	18	7.1	40	6.4	20R
	April 2007	17	5.4	24	3.5	NA
	December 2007	19J	8.3	19	3.5	2U
MRMW-11C	October 1999	4 J	6 J	120	6 J	NA
	December 2000	40	11	130	7	NA
	June 2001	35.2	7.3	86.0	5.3	NA
	January 2002	28	8	86.0	6	NA
	August 2002	37	9.6	69.0	4.7	NA
	January 2003	35	9	73.0	5	NA
	July 2003	22	4	45	3	NA
	July 2004	14	4.5	28	2.8	5.7
	April 2005	22	5	32	3.6	5.9
	October 2006	11	3	16	2.4	20R
	April 2007	18	5	19	3.3	NA
	December 2007	8.2	2	12	1.7	2.1U

						1,4-	
Monitoring Well ID	Sample Date	1.1-DCE	1.1-DCA	1,1,1-TCA	тсе	Dioxane	
	Sumple Dute	1,1 2 02	1,1 2 011	-,-, 0	102	Diomano	
MRMW-12B	October 1999	72	37	380	23 J	NA	
	December 2000	43	18	220	15	NA	
	June 2001	67.2	26.8	256	19.6	NA	
	January 2002	77	32	276	22	NA	
	August 2002	65	36	240	23	NA	
	January 2003	72	30	219	18	NA	
	July 2003	52	25	174	16	NA	
	July 2004	39	24	96	12	11	
	April 2005	87	54	150	22	25	
	October 2006	47	31	76	14	31J	
	April 2007	56	29	72	13	NA	
	December 2007	15	6.2	26	4.3	2.1U	
MRMW-13B	October 1999	10U	10U	10U	10U	NA	
	December 2000	<3U	<3U	<3U	<3U	NA	
	June 2001	<0.1U	<0.1U	<0.1U	<0.1U	NA	
	January 2002	<0.4U	<0.4U	<0.3U	<0.3U	NA	
	August 2002	< 0.5	< 0.5	< 0.5	< 0.5	NA	
	January 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA	
	July 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA	
	July 2004	0.5U	0.5U	0.5U	0.5U	2U	
	April 2005	0.5U	0.5U	0.5U	0.5U	2U	
	October 2005	0.5U	0.5U	0.5U	0.5U	2U	
	April 2006	0.5R	0.5R	0.5R	0.5R	2R	
	October 2006	0.5U	0.5U	0.5U	0.5U	2U	
	April 2007	0.5U	0.5U	0.5U	1.1	NA	
	December 2007	0.5U	0.5U	0.5U	0.5U	2.1U	
MRMW-14B	October 1999	10U	10U	10U	10U	NA	
	December 2000	<3U	<3U	<3U	<3U	NA	
	June 2001	<0.1U	0.4J	<0.1U	<0.1U	NA	
	January 2002	0.5J	1	<0.3U	<0.3U	NA	
	August 2002	NS	NS	NS	NS	NA	
	January 2003	<0.4U	0.8J	<0.3U	<0.3U	NA	
	July 2003	<0.4U	0.6J	<0.3U	<0.3U	NA	
	July 2004	0.5U	0.58	0.5U	0.5U	1.6J	
	April 2005	0.3J	0.8	0.5U	0.15J	1.9J	
	October 2005	0.25J	0.62	0.5U	0.5U	2	
	April 2006	0.5U	0.67	0.5U	0.5U	2R	
	October 2006	0.5U	0.72	0.5U	0.5U	2U	
	April 2007	0.5U	0.82	0.5U	0.5U	NA	
	December 2007	0.3J	0.76	0.5U	0.5U	2.1U	
MRMW-15B	October 1999	39	30	380	4 J	NA	
	December 2000	63	37	250	<3U	NA	
	June 2001	63.6	35.4	377	3.8	NA	
	January 2002	73	40	482	4	NA	
	August 2002	54	31	330	5	NA	
	January 2003	68	36	380	3	NA	
	July 2003	38	30	327	3	NA	
	July 2004	56	37	310	3	9.9	
	April 2005	48	36	320	3.6	9.3	
	October 2006	38	25	180	3.1	40R	
	April 2007	60	30	200	3.9	NA	
	December 2007	43	25	170	3.5	4	

						1,4-
Monitoring Well ID	Sample Date	1,1-DCE	1,1-DCA	1,1,1-TCA	TCE	Dioxane
MRMW-16	July 2003	51	12	168	4	NA
	July 2004	60	10	160	8.8	8.9
	October 2006	60	25	140	12	40R
	April 2007	1.7	0.5U	2.9	0.5U	NA
	December 2007	53	11	140	8.8	5.1L
MRMW-17-1	July 2003	63	21	175	11	NA
	July 2004	51	16	150	8.7	18
	April 2005	49	10	110	7.8	14
	April 2006	30	16	70J	7.6	8.4
	October 2006	38	16	79	7.9	20R
	April 2007	58	16	80 77	8.4	NA 4.3
	December 2007	37	12		6.4	
MRMW-17-2	July 2003	60	22	160	10	NA
	July 2004	49	18	130	10	15
	April 2005	53	13	130	6.8	15
	April 2006	50	15	100	4.5J	11 20D
	October 2006 April 2007	37 50	18 16	73 79	5.8	20R
	December 2007	26	15	49	5.4 5.3	NA 4.8
MRMW-17-3	-		-	-		
	July 2003	38 41	24 21	96 120	5	NA 14
	July 2004 April 2005	41 46	13	120	1.6 1.4	14
	April 2005	36	15	63	0.6	10
	October 2006	35	10	65	0.0	20R
	April 2007	49	17	73	0.74	NA
	December 2007	30	16	56	0.55	4.7
MRMW-18-1	July 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA
	July 2003	0.5U	0.34J	0.5U	0.5U	1.7J
	October 2004	0.23J	0.34J	0.5U	0.5U	2U
	April 2005	0.23J	0.433	0.5U	0.5U	0.78J
	October 2005	0.17J	0.49J	0.5U	0.5U	1J
	April 2006	0.5U	0.32J	0.5U	0.5U	2R
	October 2006	0.5U	0.3J	0.5U	0.5U	2U
	April 2007	0.5U	0.5U	0.5U	0.5U	NA
	December 2007	0.5U	0.32J	0.5U	0.5U	2.1U
MRMW-18-2	July 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA
	July 2004	0.5U	0.17J	0.5U	0.5U	1.7J
	October 2004	0.5U	0.23J	0.5U	0.5U	2U
	April 2005	0.5U	0.22J	0.5J	0.5J	0.77J
	October 2005	0.5U	0.26J	0.5U	0.5U	0.52J
	April 2006	0.5U	0.19J	0.5U	0.5U	2R
	October 2006	0.5U	0.19J	0.5U	0.5U	2U
	April 2007	0.5U	0.5U	0.5U	0.5U	NA
	December 2007	0.5U	0.5U	0.5U	0.5U	2U
MRMW-18-3	July 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA
	July 2004	0.5U	0.24J	0.5U	0.5U	2U
	October 2004	0.17J	0.4J	0.5U	0.5U	2U
	April 2005	0.19J	0.55	0.5U	0.5U	0.73J
	October 2005	0.15J	0.49J	0.5U	0.5U	0.57J
	April 2006	0.5U	0.27J	0.5U	0.5U	2R
	October 2006	0.5U	0.39J	0.5U	0.5U	2U
	April 2007	0.5U	0.5U	0.5U	0.5U	NA
	December 2007	0.5U	0.3J	0.5U	0.5U	2.1U

						1,4-
Monitoring Well ID	Sample Date	1,1-DCE	1,1-DCA	1,1,1-TCA	TCE	Dioxane
MRMW-19-1	July 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA
	July 2004	0.5U	0.5U	0.5U	0.5U	1.4J
	October 2004	0.5U	0.5U	0.5U	0.5U	2U
	April 2005	0.5U	0.5U	0.5U	0.5U	0.87J
	October 2006	0.5U	0.5U	0.5U	0.5U	20R
	April 2007	0.5U	0.5U	0.5U	0.5U	NA
	December 2007	0.5U	0.5U	0.5U	0.5U	2U
MRMW-19-2	July 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA
	July 2004	0.5U	0.5U	0.5U	0.5U	2U
	October 2004	0.5U	0.5U	0.5U	0.5U	2U
	April 2005	0.5U	0.5U	0.5U	0.5U	2U
	October 2006	0.5U	0.5U	0.5U	0.5U	20R
	April 2007	0.5U	0.5U	0.5U	0.5U	NA
	December 2007	0.5U	0.5U	0.5U	0.5U	2.1U
MRMW-19-3	July 2003	<0.4U	<0.4U	<0.3U	<0.3U	NA
	July 2004	0.5U	0.5U	0.5U	0.5U	2U
	October 2004	0.5U	0.5U	0.5U	0.5U	2U
	April 2005	0.5U	0.5U	0.5U	0.5U	2U
	October 2006	0.5U	0.5U	0.5U	0.5U	20R
	April 2007	0.5U	0.5U	0.5U	0.5U	NA
	December 2007	0.5U	0.5U	0.5U	0.5U	2.1U
MRMW-20-1	July 2003	<0.4U	<0.4U	0.3J	<0.3U	NA
	July 2004	0.5U	0.5U	0.5U	0.5U	2U
	April 2005	0.5U	0.5U	0.5U	0.5U	2U
	October 2006	0.5U	0.5U	0.5U	0.5U	20R
	April 2007	0.5U	0.5U	0.5U	0.5U	NA
	December 2007	0.5U	0.5U	0.5U	0.5U	2U
MRMW-20-2	July 2003	<0.4U	<0.4U	0.3J	<0.3U	NA
	July 2004	0.5U 0.5U	0.5U 0.5U	0.5U	0.5U	2U 2U
	April 2005 October 2006	0.5U	0.5U	0.5U	0.5U	20 20R
	April 2007	0.5U	0.5U	0.5U 0.5U	0.5U	20R NA
	December 2007	0.5U	0.5U	0.5U	0.5U 0.5U	2.1U
MRMW-20-3	July 2003	<0.4U	<0.3U	<0.3U	<0.3U	NA
IVIRIVI VV - 20-3	July 2003	<0.40 0.5U	<0.40 0.5U	<0.3U 0.5U	<0.5U	2U
	April 2005	0.5U	0.5U	0.5U	0.5U 0.5U	20 2U
	October 2006	0.5U	0.5U	0.5U	0.5U	20 20R
	April 2007	0.5U	0.5U	0.5U	0.5U	NA
	December 2007	0.5U	0.5U	0.5U	0.5U	2U
ERT-1	October 1999*	170	94	1400	100	NA
ERI-I	December 1999	130	36J	1200	53	NA
	December 2000	87J	29J	390	34J	NA
	June 2001	75.0	18.8	416	24.0	NA
	January 2002	69.0	25	488	24.0	NA
	August 2002	140.0	65	940	33.0	NA
	January 2003	78	22	506	24	NA
	July 2003	72	18	322	21	NA
	July 2004	59	17	240	17	NA
	March 2005	90	27	410	27	20
	November 2005	60	15	300	16	18
	May 2006	73	17	360	18	NA
	October 2006	36	17	170	13	8.6
	April 2007	44	53	240	2	NA
	December 2007	32	49	330	2.1	2.1U

						1,4-
Monitoring Well ID	Sample Date	1,1-DCE	1,1-DCA	1,1,1-TCA	TCE	Dioxane
ERT-2	October 1999	5 J	15	420	12	NA
	December 2000	21	12	220	7	NA
	June 2001	20.3	5.5	142	8.0	NA
	January 2002	38	20	358	16.0	NA
	August 2002	36	16	290	14.0	NA
	January 2003	34	10	202	13	NA
	July 2003	28	8	112	9	NA
	July 2004	14	6.2	41	4.7	4.1
	April 2005	25	21	180	2.8	4.8
	October 2005	12	12	150	8.4	21
	April 2006	8	2.3	28	2.5	2R
	October 2006	1.7	0.48J	7.5	1.4	2.1
	April 2007	14	3.2	62	3	NA
	December 2007	5	2.4	25	1.9	2.2U
ERT-3	October 1999	11	2J	130	52	NA
	December 2000	99J	20	600	85	NA
	June 2001	47.6	9.0	328	70.4	NA
	January 2002	40	8.0	279	75	NA
	August 2002	42	9.4	250	73	NA
	January 2003	44	8	320	86	NA
	July 2003	60	11	389	79	NA
	July 2004	23	9.9	200	56	83
	April 2005	34	16	250	75	66
	April 2006	23	9.7	170	35	30
	October 2006	18	9.5	110	30	65J
	April 2007	24	10	140	28	NA
	December 2007	32	18	210	39	7.6
ERT-4	October 1999	490J	160	6400J	460J	NA
	December 2000	220	190J	3600	390J	NA
	June 2001	920	196	13,800	800	NA
	January 2002	1090	134	16,900	908	NA
	August 2002	1200	190	16,000	640	NA
	January 2003	539	107	7080	369	NA
	July 2003	402	68	5080	248	NA
	July 2004	600	130	9000	440	6.8
	April 2005	510	150	6500	320	24
	April 2006	350	160J	4700	170	12
	October 2006	270	120	3500	210	1000R
	April 2007	3.7	1.6	28	9.2	NA
	December 2007	850	110J	8400	300	4.7

Notes:

 Other various VOCs were detected during the sampling rounds at varying locations and concentrations. Complete analytical results for prior sampling events have been included in previous reports.

- 2. All data expressed in concentrations of micrograms per liter (ug/L) or parts per billion (ppb)
- 3. August 2002 samples collected by USEPA and analyzed at two laboratories.

Abbreviations:

- U = Non-detect compound
- J = Estimated value
- NS = Not Sampled

\* Analytical results from this sample (October 1999) are considered questionable due to soil and sediment loading in the well.

# TABLE 3Summary of Chemicals of Concern andMedium-Specific Exposure Point Concentrations

Scenario Timeframe:Current/FutureMedium:GroundwaterExposure Medium:Groundwater

Exposure Point	Chemical of Concern	nical of Concern Concentration Detected		ConcentrationFrequency ofUnitsDetection		Exposure Point Concentration	EPC Units	Statistical Measure
		Min	Max			(EPC)		
Tap Water	1,1-Dichlrorethene	15	53	μg/l	6-6	46.78	μg/l	99% Cheb
	1,1-Dichloroethane	6.2	25	μg/l	6/6	19.84	μg/l	99% Cheb
	1,1,1-Trichloroethane	26	170	μg/l	6-6	130.9	μg/l	99% Cheb
	Trichloroethene	0.55	8.8	μg/l	6-6	7.1	μg/l	95% t-UCL

99% Cheb – 99% Chebyshev (mean, Sd) Upper-confidence limit

#### Summary of Chemicals of Concern and Medium-Specific Exposure Point Concentrations

This table presents the chemicals of concern (COCs) and exposure point concentrations (EPCs) for each of the COCs detected in groundwater (i.e., the concentration that will be used to estimate the exposure and risk from each COC). The table includes the range of concentrations detected for each COC, as well as the frequency of detection (i.e., the number of times the chemical was detected in the samples collected at the site), the EPC and how it was derived.

	TABLE 4       Selection of Exposure Pathways									
Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	On-Site/ Off-Site	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway	
Current/ Future	Groundwater	Groundwater	Tap Water	Residents	Adult	Ingestion	Off-Site (Far Field Plume)	Quant	Current and future residents may use groundwater as a potable supply of water.	
					Child	Ingestion	Off-Site (Far Field Plume)	Quant	Current and future residents may use groundwater as a potable supply of water.	

Quant = Quantitative risk analysis performed.

#### **Summary of Selection of Exposure Pathways**

The table describes the exposure pathways associated with the groundwater that were evaluated for the risk assessment, and the rationale for the inclusion of each pathway. Exposure media, exposure points, and characteristics of receptor populations are included.

TABLE 5 Cancer Toxicity Data Summary												
Pathway: Oral/Dermal												
Chemical of Concern	Oral Cancer Slope FactorUnitsAdjusted 											
Trichloroethene	4.1-01	(mg/kg/day)-1	4.1E-01	(mg/kg/day) <sup>-1</sup>	NA	NCEA	05/08					
Key:			EP	A Weight of Evi	idence:							
CalEPA – California Environ EPA – U.S. Environmental P IRIS: Integrated Risk Inform na: No information available	rotection Age	ncy	B1 B2 - C - D -	Human carcinoger - Probable Human data are available Probable Human C animals associated evidence in huma Possible human ca Not classifiable as Evidence of noncar	Carcinogen-Indicat Carcinogen-Indicat d with the site and uns urcinogen a human carcinog	es sufficient evi inadequate or n	dence in					
This table provides carcinoge		nation which is rel	ary of Toxicity A		in groundwater. T	oxicity data are	provided					
for both the oral and inhalatic					in groundwater. I	Unitry trata are	provided					

TABLE 6 Risk Characterization Summary - Carcinogens							
Scenario Timeframe:Current/FutureReceptor Population:ResidentReceptor Age:Adult							
Medium	Exposure	Exposure Point	Chemical of		Carcin	ogenic Risk	
	Medium		Concern	Ingestion	Dermal	Inhalation	Exposure Routes Total
Groundwater	Groundwater	Tap Water	Trichloroethene	3E-05			3E-05
						Total Risk =	3E-05
na – not applicable Inhalation – Inhalation at showerhead Summary of Risk Characterization - Carcinogens							
The table presents ca risk range for site-re			r the ingestion pathway.	As stated in the	National Co	ntingency Plan,	the acceptable

# Table 7GW-3 Cost ProjectionMohonk Road Industrial PlantHigh Falls, New York

Item	Description	Quantity	Unit Cost	Unit	Extension
C A D					
	TAL COSTS		<b>(</b> 10.700	TO	ф 10 <b>5</b> 00
1.	Work Plans/HASP	1	\$ 12,720	LS	\$ 12,720
ANN	UAL LONG TERM MONITORING COSTS (YEARS 1 TO 5)				
2.	Project Planning and Organizing	1	\$ 9,600	LS	\$ 9,600
3.	Field Sampling Labor	1	\$ 79,200	LS	\$ 79,200
4.	Sampling Equipment, Shipping, Consumable Supplies	1	\$ 40,128	LS	\$ 40,128
5.	Sample Analysis and Data Validation	1	\$ 75,200	EA	\$ 75,200
6.	Data Evaluation and Reporting	1	\$ 36,960	LS	\$ 36,960
	Total Annual Long Term Monitoring Costs				\$ 241,088
ANN	UAL LONG TERM MONITORING COSTS (YEARS 6 TO 10)				
7.	Project Planning and Organizing	1	\$ 9,600	LS	\$ 9,600
8.	Field Sampling Labor	1	\$ 72,000	LS	\$ 72,000
9.	Sampling Equipment, Shipping, Consumable Supplies	1	\$ 36,480	LS	\$ 36,480
10.	Sample Analysis and Data Validation	1	\$ 67,200	EA	\$ 67,200
11.	Data Evaluation and Reporting	1	\$ 36,960	LS	\$ 36,960
	Total Annual Long Term Monitoring Costs				\$ 222,240
ANN	UAL LONG TERM MONITORING COSTS (YEARS 11 TO 30)				
12.	Project Planning and Organizing	1	\$ 9,600	LS	\$ 9,600
13.	Field Sampling Labor	1	\$ 50,400	LS	\$ 50,400
14.	Sampling Equipment, Shipping, Consumable Supplies	1	\$ 25,536	LS	\$ 25,536
15.	Sample Analysis and Data Validation	1	\$ 41,600	EA	\$ 41,600
16.	Data Evaluation and Reporting	1	\$ 36,960	LS	\$ 36,960
	Total Annual Long Term Monitoring Costs				\$ 164,096
ANN	UAL OPERATIONS AND MAINTENANCE COSTS				
17.	Annual O&M Costs at Existing Treatment System (Near-Field Plume)	1	\$ 375,360	LS	\$ 375,360
18.	Annual O&M Costs for the Soil Vapor Extraction System	1	\$ 400,000	LS	\$ 400,000
FIVF	-YEAR REVIEW				
19.	Five-Year Review/Reporting	1	\$ 15,600	LS	\$ 15,600
PRES	SENT WORTH OF COSTS				
20.	Total Capital Costs				\$ 12,720
20.	Annual O&M Costs of Treatment System (30 year duration)				\$ 4,657,842
22.	Annual O&M Costs of Soil Vapor Extraction System (3 year duration)	1			\$ 1,049,720
23.	Long-term Monitoring Cost (30 year duration)				\$ 2,521,934
24.	Five-Year Review Costs (30 year duration)				\$ 33,662
	TOTAL PRESENT WORTH				¢ 0 77/ 000
	IUIAL FRESENI WUKIH				\$ 8,276,000

No.	1	Work Plans/HASP				
		Project Manager	Hourly wage \$ 120	Hours 16	\$	Subtotals 1,920
			<u>\$ 120</u> \$ 90	10		
		Engineer No. 1 Total:	\$ 90	120	۰ \$	10,800
NINI	TIAT		TED MONITODI		φ	12,720
		LONG-TERM GROUNDWA rough 5	IER MONITORI	ING (INO. 2-0)		
l <b>o.</b>	2	Management & Mobilizatio	n of Sampling Eve			
		Events per year:	<b>XX</b> 1	4		0.11
		Project Manager	Hourly wage \$ 120	Hours 4	\$	Subtotals 480
		Engineer	\$ 90	16	\$	1,440
		Purchasing Specialist	\$ 60	8	\$	480
		cost per event	<u></u>	-	\$	2,400
		No. 2 Annual Total:			\$	9,600
0.	3	Sampling Labor	Walls/day	Number of Wells	Subt	otal Dava
		Monitoring Wells Standard Wells	Wells/day	18	Subi	otal Days 6
		FLUTe Wells	1	3		3
		Days Mob/Demob	-	-		2
		Total Days				11
		-	Hourly wage	Hours/Day		Subtotals
		Sampler 1	\$ 90	10	\$	9,900
		Sampler 2	\$ 90	10	\$	9,900
		cost per event No. 3 Annual Total:			\$ \$	19,800 79,200
0.	4	Sampling Equipment			φ	79,200
				Subtotals		
		Shipping	\$ 150	\$ 1,65		
		Sampling Equipment	\$ 150	\$ 1,65		
		Monitoring Equipment	<u>\$ 100</u>	\$ 1,10		
		PPE (2-person team)	<u>\$ 40</u>	\$ 44		
		Vehicle Rental Per Diem	\$ <u>90</u> \$ 282	\$ 99		
		Misc	\$ 282 \$ 100	\$ 3,10 \$ 1,10		
		cost per event	\$ 100	\$ 10,03		
		No. 4 Annual Total:		¢ 10,05.	\$	40,128
ю.	5	Sample Analysis and Valida			-	
		Monitoring Wells Standard Wells	Samples/Well	Enivronmental Sample 18	s Fi	eld Duplicates 1
		FLUTe Wells	3	9		1
		Field Blanks		9		
		Trip Blanks		9		
		Total Samples VOC Analysis	\$ 160	4'	/ \$	7,520
		VOC Analysis				7,520
		1.4 dioxana Analysis	S 150			
		1,4-dioxane Analysis analytical costs per event	\$ 150		\$ \$	14.570
		1,4-dioxane Analysis analytical costs per event annual analytical costs	\$ 150			
		analytical costs per event annual analytical costs	Hourly wage	Hours/Sample	\$ \$	58,280 Subtotal
		analytical costs per event annual analytical costs Data Validator	,	Hours/Sample	\$ \$ \$	4,230
		analytical costs per event annual analytical costs Data Validator validation cost per event	Hourly wage		\$ \$ \$	58,280 Subtotal 4,230 4,230
		analytical costs per event annual analytical costs Data Validator	Hourly wage \$ 90		\$ \$ \$	58,280 Subtotal 4,230 4,230 16,920.00
		analytical costs per event annual analytical costs Data Validator validation cost per event annual vaildation costs Analysis and Validation cost No. 5 Annual Total:	Hourly wage <u>\$ 90</u> per event	1	\$ \$ \$ \$	58,280 Subtotal 4,230 4,230 16,920.00 18,800
10.	6	analytical costs per event annual analytical costs Data Validator validation cost per event annual validation costs Analysis and Validation cost	Hourly wage <u>\$90</u> per event Annual Monitorin	<u>1</u> g)	\$ \$ \$ \$ \$	58,280 Subtotal 4,230 16,920.00 18,800 <b>75,200</b>
lo.	6	analytical costs per event annual analytical costs Data Validator validation cost per event annual vaildation costs Analysis and Validation cost No. 5 Annual Total: Data Review & Reporting (a	Hourly wage <u>\$90</u> per event Annual Monitorin Hourly wage	1 g) Hours	\$ \$ \$ \$ <b>\$</b>	58,28( Subtotal 4,23( 4,23( 16,920.0( 18,80() <b>75,20(</b> Subtotals
lo.	6	analytical costs per event annual analytical costs Data Validator validation cost per event annual vaildation costs Analysis and Validation cost No. 5 Annual Total:	Hourly wage <u>\$90</u> per event Annual Monitorin	<u>1</u> g)	\$ \$ \$ \$ \$	58,280 Subtotal 4,230 4,230 16,920.00 18,800 <b>75,200</b> Subtotals 960
0.	6	analytical costs per event annual analytical costs Data Validator validation cost per event annual validation costs Analysis and Validation cost No. 5 Annual Total: Data Review & Reporting (A Senior Engineer	Hourly wage <u>\$</u> 90 per event Hourly wage <u>\$</u> 120	<u>1</u> g) Hours <u>8</u>	\$ \$ \$ \$ <b>\$</b>	58,280 Subtotal 4,230 16,920.00 18,800 <b>75,200</b> Subtotals 960 8,280
		analytical costs per event annual analytical costs Data Validator validation cost per event annual validation costs Analysis and Validation cost No. 5 Annual Total: Data Review & Reporting (a Senior Engineer Engineer cost per event No. 6 Annual Total:	Hourly wage \$90 ber event Annual Monitorin, Hourly wage \$120 \$90	<u>1</u> g) Hours <u>8</u>	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	58,280 Subtotal 4,230 16,920,00 18,800 75,200 Subtotals 960 8,280 9,240 <b>36,960,00</b>
otal	Ann	analytical costs per event annual analytical costs Data Validator validation cost per event annual vaildation costs Analysis and Validation cost J No. 5 Annual Total: Data Review & Reporting (a Senior Engineer Engineer cost per event No. 6 Annual Total: ual Long Term Monitoring Co	Hourly wage \$90 ber event Annual Monitorin, Hourly wage \$120 \$90	<u>1</u> g) Hours <u>8</u>	\$ \$ \$ \$ \$ \$ \$ \$ \$	58,280 Subtotal 4,230 4,230 16,920.00 18,800 <b>75,200</b> Subtotals 966 8,280 9,240
otal	Ann	analytical costs per event annual analytical costs Data Validator validation cost per event annual validation costs Analysis and Validation cost No. 5 Annual Total: Data Review & Reporting (a Senior Engineer Engineer cost per event No. 6 Annual Total:	Hourly wage \$90 ber event Annual Monitorin, Hourly wage \$120 \$90	<u>1</u> g) Hours <u>8</u>	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	58,280 Subtotal 4,230 16,920,00 18,800 75,200 Subtotals 960 8,280 9,240 <b>36,960,00</b>
otal RES	Ann SENT	analytical costs per event annual analytical costs Data Validator validation cost per event annual vaildation costs Analysis and Validation costs <b>No. 5 Annual Total:</b> <b>Data Review &amp; Reporting (</b> <i>A</i> Senior Engineer Engineer cost per event <b>No. 6 Annual Total:</b> <b>ual Long Term Monitoring Co</b> <b>WORTH OF COSTS</b>	Hourly wage <u>\$</u> 90 per event Annual Monitoring Hourly wage <u>\$</u> 120 <u>\$</u> 90 sts (no. 1 to 6)	<u>1</u> g) Hours <u>8</u>	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	58,280 Subtotal 4,230 16,920,00 18,800 75,200 Subtotals 960 8,280 9,240 <b>36,960,00</b>
otal RES	Ann SENT	analytical costs per event annual analytical costs Data Validator validation cost per event annual validation costs Analysis and Validation costs <b>No. 5 Annual Total:</b> <b>Data Review &amp; Reporting (</b> <i>A</i> Senior Engineer Engineer cost per event <b>No. 6 Annual Total:</b> ual Long Term Monitoring Co WORTH OF COSTS secount rate is 7%:	Hourly wage <u>\$</u> 90 per event Annual Monitoring Hourly wage <u>\$120</u> <u>\$90</u> sts (no. 1 to 6) ration)	<u>1</u> g) Hours <u>8</u>	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	58,280 Subtotal 4,230 (16,920,00 (18,800 75,200 Subtotals 960 8,280 9,240 <b>36,960,00</b>
otal RES	Ann SENT	analytical costs per event annual analytical costs Data Validator validation cost per event annual validation costs Analysis and Validation costs <b>No. 5 Annual Total:</b> <b>Data Review &amp; Reporting (</b> <i>A</i> Senior Engineer Engineer cost per event <b>No. 6 Annual Total:</b> <b>ual Long Term Monitoring Cot</b> <b>WORTH OF COSTS</b> scount rate is 7%: <b>Monitoring Cost (30 year due</b> This cost occurs event	Hourly wage <u>\$ 90</u> per event Annual Monitorin Hourly wage <u>\$ 120</u> <u>\$ 90</u> sts (no. 1 to 6) ration) rry <u>1</u>	$\frac{1}{92}$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	58,280 Subtotal 4,230 (16,920,00 (18,800 75,200 Subtotals 960 8,280 9,240 <b>36,960,00</b>
otal RES	Ann SENT me dis -term	analytical costs per event annual analytical costs Data Validator validation cost per event annual validation costs Analysis and Validation costs <b>No. 5 Annual Total:</b> <b>Data Review &amp; Reporting (</b> <i>A</i> Senior Engineer Engineer cost per event <b>No. 6 Annual Total:</b> <b>ual Long Term Monitoring Cot</b> <b>WORTH OF COSTS</b> scount rate is 7%: <b>Monitoring Cost (30 year due</b> This cost occurs event	Hourly wage <u>\$ 90</u> per event Annual Monitorin, Hourly wage <u>\$ 120</u> <u>\$ 90</u> sts (no. 1 to 6) ration) rry <u>1</u> for <u>5</u>	$\frac{1}{92}$ Hours $\frac{8}{92}$ years	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	58,280 Subtotal 4,230 16,920,00 18,800 75,200 Subtotals 960 8,280 9,240 <b>36,960,00</b>
otal RES	Anno SENT me dis term	analytical costs per event annual analytical costs Data Validator validation cost per event annual validation costs Analysis and Validation costs <b>No. 5 Annual Total:</b> <b>Data Review &amp; Reporting (</b> <i>A</i> Senior Engineer Engineer cost per event <b>No. 6 Annual Total:</b> <b>No. 6 Annual Total:</b> <b>No Total:</b> <b>No Total:</b> <b>No Total:</b> <b>No Total:</b> <b>Nontrong Cost (30 year due</b> This cost occurs event	Hourly wage <u>\$ 90</u> per event Annual Monitorin, Hourly wage <u>\$ 120</u> <u>\$ 90</u> sts (no. 1 to 6) ration) rry <u>1</u> for <u>5</u>	$\frac{1}{92}$ Hours $\frac{8}{92}$ years	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	58,280 Subtotal 4,230 16,920,00 18,800 75,200 Subtotals 960 8,280 9,240 <b>36,960,00</b>
otal RES	Anno SENT me dis term Obje	analytical costs per event annual analytical costs Data Validator validation cost per event annual validation costs Analysis and Validation costs <b>No. 5 Annual Total:</b> <b>Data Review &amp; Reporting (</b> <i>A</i> Senior Engineer Engineer cost per event <b>No. 6 Annual Total:</b> <b>ual Long Term Monitoring Cot</b> <b>WORTH OF COSTS</b> secount rate is 7%: <b>Monitoring Cost (30 year due</b> This cost occurs event and the period of the period of the period of the period sective: Find P Given A, i, n, or Costs	Hourly wage <u>\$ 90</u> ber event Annual Monitoring Hourly wage <u>\$ 120</u> <u>\$ 90</u> ests (no. 1 to 6) ration) rry <u>1</u> for <u>5</u> Biven P/A, i, n	$\frac{1}{g}$ Hours $\frac{8}{92}$ years years.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	58,28( Subtotal 4,23( 4,23( 16,920,00 18,80( 75,200 Subtotals 96( 8,28( 9,24( 36,960,00 241,088,00
otal RES	Anno SENT me dis term Obje	analytical costs per event annual analytical costs Data Validator validation cost per event annual vaildation costs Analysis and Validation costs <b>No. 5 Annual Total:</b> <b>Data Review &amp; Reporting</b> ( <i>a</i> Senior Engineer Engineer cost per event <b>No. 6 Annual Total:</b> ual Long Term Monitoring Co WORTH OF COSTS scount rate is 7%: Monitoring Cost (30 year due This cost occurs event sective: Find P Given A, i, n, or O Present Worth	Hourly wage <u>\$ 90</u> per event Annual Monitorin, Hourly wage <u>\$ 120</u> <u>\$ 90</u> sts (no. 1 to 6) ration) rry <u>1</u> for <u>5</u> Given P/A, i, n i, th	$\frac{1}{9}$ Hours $\frac{8}{92}$ years years years. n, the number of years, he nominal discount rate,	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	58,28( Subtotal 4,23( 4,23( 16,920,00 18,80( 75,200 Subtotals 96( 8,28( 9,24( 36,960,00 241,088,00

No.	7	Management & Mobilizatio	on of Sampling Eve	nt		
		Events per year:			4	
			Hourly wage	Hours		Subtotals
		Project Manager	\$ 120	4	\$	48
		Engineer	\$ 90	16	\$	1,44
		Purchasing Specialist	\$ 60	8	\$	480
		cost per event		-	\$	2,400
		No. 7 Annual Total:			\$	,
No.	8	Sampling Labor				
		Monitoring Wells	Wells/day	Number of Wells		Subtotal Days
		Standard Wells	3	15		5
		FLUTe Wells	<u>1</u>	3		3
		Days Mob/Demob				2
		Total Days				10
			Hourly wage	Hours/Day		Subtotals
		Sampler 1	\$ 90	10	\$	9,000
		Sampler 2	\$ 90	10	\$	9,000
		cost per event			\$	,
		No. 8 Annual Total:			\$	72,000
No.	9	Sampling Equipment				
		Chinaina	Rate/day		¢	Subtota
		Shipping	<u>\$ 150</u>		\$	1,500
		Sampling Equipment	<u>\$ 150</u>		\$	1,500
		Monitoring Equipment	<u>\$ 100</u>		\$	1,000
		PPE (2-person team)	\$ 40		\$	400
		Vehicle Rental	\$ 90		\$	900
		Per Diem	\$ 282		\$	2,820
		Misc	\$ 100		\$	1,000
		cost per event			\$	9,120
		No. 9 Annual Total:			\$	36,480
No.	10	Sample Analysis and Valida				
		Monitoring Wells	-	Enivronmental Samp	ples 1	Field Duplicates
		Standard Wells	1	15		1
		FLUTe Wells	<u>3</u>	9	8	1
		Field Blanks Trip Blanks			8	
		Total Samples			42	
		VOC Analysis	\$ 160		\$	6,720
		1,4-dioxane Analysis	\$ 150		\$	
		analytical costs per event			\$	
		annual analytical costs			\$	52,080.00
			Hourly wage	Hours/Sample		Subtotal
		Data Validator	\$ 90	<u>1</u>	\$	3,780
		validation cost per event			\$	3,780
		annual vaildation costs			\$	15,120.00
		Analysis and Validation cost	per event		\$	,
		No. 10 Annual Total:			\$	67,200
No.	11	Data Review & Reporting (				California 1
		0 Senior Engineer	Hourly wage \$ 120	Hours	8 \$	Subtotals
		Engineer	\$ 120 \$ 90		8 \$ 92 \$	960 8,280
		cost per event	φ 90		92 \$ \$	9,240
		No. 11 Annual Total:			\$	36,96
[otal	Annu	al Long Term Monitoring C	osts (no. 7 to 11)		\$	222,24
		WORTH OF COSTS				
		Assume discount rate is 7%:				
		Long-term Monitoring Cos				
		This cost occurs ev	· - ·	years		
			for <u>5</u>	years.		
	Obje	ective: Find P Given A, i, n, or	Given P/A, i, n			
	$\mathbf{P} = \mathbf{I}$	Present Worth		n, the number of yea	rs. = 5	
		Annual amount	i. th	e nominal discount ra		00%
					,	
		Looking up the interest rate t				
		The mu	ltiplier for $(P/A) =$	4.1	1002	
		Value at year beginning year	-		\$	911,22

# ANNUAL LONG-TERM GROUNDWATER MONITORING (No. 7-10)

No.	12	hrough 30 Management & Mobilizatio	on of Sampling Even	t		
		Events per year:			1	
			Hourly wage	Hours	S	ubtotals
		Project Manager	\$ 120	4	\$	48
		Engineer	\$ 90	16	\$	1,44
		Purchasing Specialist	\$ 60	8	\$	48
		cost per event	<u> </u>	-	\$	2,40
		No. 12 Annual Total:			\$	9,60
lo.	13	Sampling Labor				
		Monitoring Wells	Wells/day	Number of Wells	Subtota	l Days
		Standard Wells	3	<u>11</u>		4
		FLUTe Wells	1	<u>1</u>		1
		Days Mob/Demob				2
		Total Days				7
			Hourly wage	Hours/Day	S	ubtotals
		Sampler 1	\$ 90	10	\$	6,30
		Sampler 2	\$ 90	10	\$	6,30
		cost per event			\$	12,60
		No. 13 Annual Total:			\$	50,40
ю.	14	Sampling Equipment				
		Chinning	Rate/day		¢	Subtot
		Shipping	<u>\$ 150</u>		\$	1,05
		Sampling Equipment	<u>\$ 150</u>		\$	1,05
		Monitoring Equipment	<u>\$ 100</u>		\$	70
		PPE (2-person team)	\$ 40		\$	28
		Vehicle Rental	<u>\$ 90</u>		\$	63
		Per Diem	\$ 282		\$	1,97
		Misc	\$ 100		\$	70
		cost per event			\$	6,38
		No. 14 Annual Total:			\$	25,53
No.	15	Sample Analysis and Valida				
		Monitoring Wells	-	Enivronmental Sample	s Field	Duplicate
		Standard Wells FLUTe Wells	1	11 3		1
		Field Blanks	<u>3</u>	5		1
		Trip Blanks		5		
		Total Samples		2		
		VOC Analysis	\$ 160		\$	4,16
		1,4-dioxane Analysis	\$ 150		\$	3,90
		analytical costs per event			\$	8,06
		annual analytical costs			\$	32,240.0
			Hourly wage	Hours/Sample		ubtotal
		Data Validator	\$ 90	<u>1</u>	\$	2,34
		validation cost per event			\$	2,34
		annual vaildation costs			\$	9,360.0
		Analysis and Validation cost	per event		\$	10,40
lo.	16	No. 15 Annual Total: Data Review & Reporting (	Annual Monitoring	)	\$	41,60
0.	10	Data Review & Reporting (	Hourly wage	Hours	Subtota	ls
		Senior Engineer	\$ 120	8	\$ \$	us 96
		Engineer	\$ 90	92	\$	8,28
		cost per event			\$	9,24
		No. 16 Annual Costs:			\$	36,96
		ual Long Term Monitoring C	osts (12 to 16)		\$	164,09
RE	SENT	WORTH OF COSTS				
		Assume discount rate is 7%:	(20			
		Long-term Monitoring Cos	,	0.087		
		This cost occurs ev		ears		
				ears.		
	Obje	ective: Find P Given A, i, n, or	Given P/A, i, n			
	$\mathbf{P} = \mathbf{I}$	Present Worth	1	n, the number of years,	= 20	
	A =	Annual amount		nominal discount rate,		
		Tables and the second				
		Looking up the interest rate t	ables for $i = 7\%$ and ltiplier for (P/A) =		04	
		r ne mu	(10) $(P/A) =$	10.5	74	
		Value at year beginning year	-		\$	1,738,43

### ANNUAL LONG-TERM GROUNDWATER MONITORING (No. 12-15)

No.	17 Existing Groundwater Treatm	ont Plant Ann	nol O&M Cost (Noon Field	Dumo	
INO.	Labor Cost:	ent Plant Ann	lial Owivi Cost (Near-Fleid	1 Plume)	
		Hourly wage	Hours/week		
	Technician	\$ 75	24	\$	1,800
	PM/Supervision @ 20%	ф , с	2.	\$	360
	Office support @ 20 %			\$	360
	onnee support e 20 %		Weekly subtotal:		2,520
			Months of Operation:	Ψ	12
			Total Labor Costs:	\$	131,040
			Total Eabor Costs.	Ψ	101,040
	Process Monitoring Cost:				
	Sample analysis/shipping cost		/shipment		
	Frequency of sampling	1	/month		
	Number of samples per unit	10	/month		
	Number of QA/QC samples per unit		/month	-	
	Total samples	15	/month	¢	1 500
			Monthly subtotal:	\$	4,500
			Months of Operation:		12
		Total 1	Process Monitoring Costs:	\$	54,000
	Power Cost:				
	Unit cost of Power per KWh	\$ 0.11			
	Total power consumption		KWh/yr		
	Total power consumption	200,000	Total Power Costs:	¢	28 600
			Total Power Costs:	Þ	28,600
	Maintenance Cost:				
	Estimated Maintenance Cost (5%	6 of building ar	d Treatment system costs)	\$	94,160
	-Includes costs for oxidizing agents	0	, , , , , , , , , , , , , , , , , , , ,		. ,
	Miscellaneous expenses			\$	5,000
	Total Maintenance Costs:	-		\$	99,160
	Total Maintenance Costs.			φ	<i>J</i> <b>,100</b>
	Subtotal:			\$	312,800
	Contingency Costs (20%):			\$ \$	312,800 62,560
	Contingency Costs (20%):	ONS OF O&M	COSTS	\$	62,560
	Contingency Costs (20%): No. 17 Annual Total:	ONS OF O&M	COSTS	\$	62,560
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIO			\$	62,560
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%:	0 year duratio		\$	62,560
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every	0 year duratio <u>1</u>	n) years	\$	62,560
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for	0 year duratio <u>1</u> <u>30</u>	n)	\$	62,560
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every	0 year duratio <u>1</u> <u>30</u>	n) years	\$	62,560
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for	0 year duratio <u>1</u> <u>30</u>	n) years	\$	62,560
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv	0 year duratio $\frac{1}{30}$ en P/A, i, n	n) years years. n, the number of years, =	\$ \$ 30	62,560
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount	0 year duratio <u>1</u> <u>30</u> en P/A, i, n i, t	n) years years. n, the number of years, = he nominal discount rate, =	\$ \$ 30	62,560
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t es for $i = 7\%$ au	<ul> <li>n) years years.</li> <li>n, the number of years, = he nominal discount rate, = nd n = 30 years:</li> </ul>	\$ \$ 30	62,560
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip	0 year duratio <u>1</u> <u>30</u> en P/A, i, n i, t	<ul> <li>n) years years.</li> <li>n, the number of years, = he nominal discount rate, = nd n = 30 years:</li> </ul>	\$ \$ 30 <u>7.00</u> %	62,560 375,360
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip ent Value of Annual O&M Cost:	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t <i>is for i = 7% au</i> lier for (P/A) =	n) years years. n, the number of years, = he nominal discount rate, = ad n = 30 years: 12.409	\$ \$ 30	62,560
Prese No.	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t <i>is for i = 7% au</i> lier for (P/A) =	n) years years. n, the number of years, = he nominal discount rate, = ad n = 30 years: 12.409	\$ \$ 30 <u>7.00</u> %	62,560 375,360
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip ent Value of Annual O&M Cost:	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t <i>is for i = 7% au</i> lier for (P/A) =	n) years years. n, the number of years, = he nominal discount rate, = ad n = 30 years: 12.409	\$ \$ 30 <u>7.00</u> %	62,560 375,360
	Contingency Costs (20%):         No. 17 Annual Total:         PRESENT WORTH CALCULATION         Assume discount rate is 7%:       Long-term Monitoring Cost (3)         Construction of the colspan="2">Cost of the colspan="2"         Cost of the colspan="2">Cost of the colspan="2"         Cost of the colspan="2">Cost of the colspan="2"         Cost of the colspan="2"       Cost of the colspan="2"         Cost of the colspan="2"       Cost of the colspan="2"         Cost of the colspan="2"       Cost of the colspan="2"         Cost of the colspan="2">Cost of the colspan="2"         Cost of the colspan="2"       Cost of the colspan="2"         Cost of the colspan="2" <td< td=""><td>0 year duratio <math>\frac{1}{30}</math> en P/A, i, n i, t <i>is for i = 7% au</i> lier for (P/A) =</td><td>n) years years. n, the number of years, = he nominal discount rate, = ad n = 30 years: 12.409</td><td>\$ \$ 30 7.00% \$</td><td>62,560 375,360 4,657,842</td></td<>	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t <i>is for i = 7% au</i> lier for (P/A) =	n) years years. n, the number of years, = he nominal discount rate, = ad n = 30 years: 12.409	\$ \$ 30 7.00% \$	62,560 375,360 4,657,842
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip int Value of Annual O&M Cost: 18 Soil Vapor Extraction System Lump Sum Annual Cost	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t is for $i = 7\%$ au lier for (P/A) = Annual O&M	n) years years. n, the number of years, = he nominal discount rate, = nd n = 30 years: 12.409 Cost	\$ \$ 30 7.00% \$ \$	62,560 375,360 4,657,842 400,000
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip ent Value of Annual O&M Cost: 18 Soil Vapor Extraction System Lump Sum Annual Cost No. 18 Annual Total:	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t is for $i = 7\%$ au lier for (P/A) = Annual O&M	n) years years. n, the number of years, = he nominal discount rate, = nd n = 30 years: 12.409 Cost	\$ \$ 30 7.00% \$ \$	62,560 375,360 4,657,842 400,000
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip int Value of Annual O&M Cost: 18 Soil Vapor Extraction System Lump Sum Annual Cost No. 18 Annual Total: PRESENT WORTH CALCULATIC	0 year duratio <u>1</u> <u>30</u> en P/A, i, n i, t <i>is for i = 7% au</i> lier for (P/A) = Annual O&M ONS OF O&M	n) years years. n, the number of years, = he nominal discount rate, = nd n = 30 years: 12.409 Cost	\$ \$ 30 7.00% \$ \$	62,560 375,360 4,657,842 400,000
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate tabl. The multip mt Value of Annual O&M Cost: 18 Soil Vapor Extraction System Lump Sum Annual Cost No. 18 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%:	0 year duratio <u>1</u> <u>30</u> en P/A, i, n i, t <i>i, t</i> <i>i, t</i>	n) years years. n, the number of years, = he nominal discount rate, = nd n = 30 years: 12.409 Cost	\$ \$ 30 7.00% \$ \$	62,560 375,360 4,657,842 400,000
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip ent Value of Annual O&M Cost: 18 Soil Vapor Extraction System Lump Sum Annual Cost No. 18 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Annual O&M Cost (3 year dun This cost occurs every	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t <i>is for i = 7% au</i> lier for (P/A) = Annual O&M ONS OF O&M ration) $\frac{1}{2}$	n) years years. n, the number of years, = he nominal discount rate, = <i>id n = 30 years:</i> 12.409 Cost COSTS years	\$ \$ 30 7.00% \$ \$	62,560 375,360 4,657,842 400,000
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip mt Value of Annual O&M Cost: 18 Soil Vapor Extraction System Lump Sum Annual Cost No. 18 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%: Annual O&M Cost (3 year dun This cost occurs every for	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t es for $i = 7\%$ au lier for (P/A) = Annual O&M ONS OF O&M ration) $\frac{1}{3}$	n) years years. n, the number of years, = he nominal discount rate, = nd n = 30 years: 12.409 Cost COSTS	\$ \$ 30 7.00% \$ \$	62,560 375,360 4,657,842 400,000
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip ent Value of Annual O&M Cost: 18 Soil Vapor Extraction System Lump Sum Annual Cost No. 18 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Annual O&M Cost (3 year dun This cost occurs every	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t es for $i = 7\%$ au lier for (P/A) = Annual O&M ONS OF O&M ration) $\frac{1}{3}$	n) years years. n, the number of years, = he nominal discount rate, = <i>id n = 30 years:</i> 12.409 Cost COSTS years	\$ \$ 30 7.00% \$ \$	62,560 375,360 4,657,842 400,000
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip mt Value of Annual O&M Cost: 18 Soil Vapor Extraction System Lump Sum Annual Cost No. 18 Annual Total: PRESENT WORTH CALCULATIO Assume discount rate is 7%: Annual O&M Cost (3 year dun This cost occurs every for	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t es for $i = 7\%$ au lier for (P/A) = Annual O&M ONS OF O&M ration) $\frac{1}{3}$	n) years years. n, the number of years, = he nominal discount rate, = ud n = 30 years: 12.409 Cost COSTS years years.	\$ \$ 30 7.00% \$ \$ \$	62,560 375,360 4,657,842 400,000
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip nt Value of Annual O&M Cost: 18 Soil Vapor Extraction System Lump Sum Annual Cost No. 18 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Annual O&M Cost (3 year dun This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t es for $i = 7\%$ au lier for (P/A) = Annual O&M DNS OF O&M ration) $\frac{1}{3}$ en P/A, i, n	n) years years. n, the number of years, = he nominal discount rate, = ad n = 30 years: 12.409 Cost COSTS years years. n, the number of years, =	\$ \$ 30 7.00% \$ \$ \$ 3	62,560 375,360 4,657,842 400,000
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip mt Value of Annual O&M Cost: 18 Soil Vapor Extraction System Lump Sum Annual Cost No. 18 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Annual O&M Cost (3 year dur This cost occurs every for Objective: Find P Given A, i, n, or Giv	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t es for $i = 7\%$ au lier for (P/A) = Annual O&M DNS OF O&M ration) $\frac{1}{3}$ en P/A, i, n	n) years years. n, the number of years, = he nominal discount rate, = ud n = 30 years: 12.409 Cost COSTS years years.	\$ 30 7.00% \$ \$ \$ 3	62,560 375,360 4,657,842 400,000
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip nt Value of Annual O&M Cost: 18 Soil Vapor Extraction System Lump Sum Annual Cost No. 18 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Annual O&M Cost (3 year dun This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t <i>is for i = 7% au</i> lier for (P/A) = <b>Annual O&amp;M</b> <b>ONS OF O&amp;M</b> ration) $\frac{1}{3}$ en P/A, i, n i, t	n) years years. n, the number of years, = he nominal discount rate, = <i>nd n = 30 years</i> : 12.409 Cost Cost Cost years years years. n, the number of years, = he nominal discount rate, =	\$ 30 7.00% \$ \$ \$ 3	62,560 375,360 4,657,842 400,000
	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip nt Value of Annual O&M Cost: 18 Soil Vapor Extraction System Lump Sum Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Annual O&M Cost (3 year dun This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t <i>is for i = 7% au</i> lier for (P/A) = <b>Annual O&amp;M</b> <b>ONS OF O&amp;M</b> ration) $\frac{1}{3}$ en P/A, i, n i, t	n) years years. n, the number of years, = he nominal discount rate, = <i>nd n = 30 years</i> : 12.409 Cost Cost Cost years years years. n, the number of years, = he nominal discount rate, =	\$ 30 7.00% \$ \$ \$ 3	62,560 375,360 4,657,842 400,000
No.	Contingency Costs (20%): No. 17 Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Long-term Monitoring Cost (3 This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table The multip nt Value of Annual O&M Cost: 18 Soil Vapor Extraction System Lump Sum Annual Total: PRESENT WORTH CALCULATIC Assume discount rate is 7%: Annual O&M Cost (3 year dun This cost occurs every for Objective: Find P Given A, i, n, or Giv P = Present Worth A = Annual amount Looking up the interest rate table	0 year duratio $\frac{1}{30}$ en P/A, i, n i, t es for $i = 7\%$ au lier for (P/A) = Annual O&M ONS OF O&M ration) $\frac{1}{3}$ en P/A, i, n i, t es for $i = 7\%$ au	n) years years. n, the number of years, = he nominal discount rate, = <i>ul n = 30 years:</i> 12.409 Cost Cost Cost years years years. n, the number of years, = he nominal discount rate, = <i>ul n = 3 years:</i>	\$ 30 7.00% \$ \$ \$ 3	62,560 375,360 4,657,842 400,000

No.	19	Five-Year Review							
		Groundwater monitoring data rev	ion.						
		This cost occurs every	4	5	years				
		for	3	0	years.				
			Hourly	wage		Hours		Su	btotals
		Senior Engineer	\$	120		40		\$	4,800
		Engineer	\$	90		120		\$	10,800
		No. 19 Total:			\$				15,600
PRE	SENT	WORTH CALCULATIONS OF	REVI	EW CO	OSTS				
	Five	-Year Review Costs (30 year dura	ation)						
		This cost occurs every	4		years				
		for	3	0	years.				
	Objective: to calculate the effective interest rate i.								
	Give			~	7.00%				
		n, the num							
		m, # of compour	nding pe	riods =	5				
		$i_e = (1+i)^m - 1 =$	0.4	03		~		40%	
		$\mathbf{P} = \mathbf{A}^*$	(1+i) <sup>n</sup> -	1					
		i(1+i) <sup>n</sup>				_			
		In this case, there are	6					-year per	10ds.
		When		n =			6 0.403		
		and P, the multiplier =		i =			0.403 <b>2.158</b>		
		lue of Five Year Reviews:					4.1.30		

## Table 9

# Estimated Timeframes for Achievement of Aquifer Restoration Goals by COCs via MNA under Alternative GW-3

COCs	Near-field Locations <sup>1</sup> Time Range (yrs)	Far-field Locations <sup>2</sup> Time Range (yrs)
TCE	2 to 56	0 to 16
TCA	6 to 25	4 to 44
1,1-DCE	0 to 28	8 to 24
1,1-DCA	0 to 22	0 to 1

Notes:

- 1. Range represents monitoring well locations MW-4, MW-5B, MW-5R, MW-6B, MW-7R, ERT-1, ERT-2, ERT-3, and ERT-4.
- 2. Range represents monitoring well locations MW-11B, MW-11C, MW-12B, MW-15B, MW-17-1, MW-17-2, and MW17-3.
- 3. Zeros indicated at the low end of some of the above time ranges indicate that ARAR goals at some of the monitoring well locations have already been achieved.
- 4. All data are derived from Tables 1 to 4 of the 2008 MNAA Report.

Abbreviations:

1,1-DCE	1,1-dichloroethene
1,1-DCA	1,1-dichloroethane
COCs	Contaminants of Concern
MNA	Monitored Natural Attenuation
TCE	trichloroethene
TCA	1,1,1-trichloroethane
yrs	years

#### APPENDIX III.

ADMINISTRATIVE RECORD INDEX

#### MOHONK ROAD INDUSTRIAL PLANT SITE ADMINISTRATIVE RECORD UPDATE #5 INDEX OF DOCUMENTS

#### 5.0 RECORD OF DECISION

#### 5.2 Amendment to the Record of Decision

- P. 500306 Report: Final Monitored Natural Attenuation Assessment, Mohonk Road 500306 Industrial Plant Superfund Site, prepared by U.S. Army Corps of Engineers, prepared for U.S. EPA, Region 2, April 11, 2008.
- P. 500307 Superfund Post-Decision Proposed Plan, Mohonk Road Industrial Plant 500307 Superfund Site, Ulster County, New York, prepared by U.S. EPA, Region 2, July 2008.
- P. 500308 Mohonk Road Industrial Plant Superfund Site, 500308 EPA ID: 500308 NYD986950012, Project Documentation, prepared by CDM, prepared for U.S. EPA, Region 2, July 2008.
- P. 500309 Memorandum to Mr. Sal Badalamenti, Remedial Project Manager, 500310 ERRD/NYRB/Eastern New York Section, U.S. Environmental Protection Agency, Region 2, from Mr. Michael Sivak, Risk Assessor, ERRD/PSB/Technical Support Team, U.S. Environmental Protection Agency, Region 2, re: Risk Evaluation for Groundwater at Mohonk Road Industrial Park, May 13, 2008.
- P. 500311 Memorandum to Mr. Jeff Catanzarita, U.S. EPA/ERT Work Assignment 500311 Manager, from Mr. Michael Hoppe, REAC Task Leader, Lockheed Martin Technology Services, re: Mohonk Road Industrial Plant Superfund Site, High Falls, NY, WA #0-122 - Amended Trip Report, August 19, 2005.
- P. 500312 Report: Remediation System Evaluation, Mohonk Road Industrial Plant 500312 Superfund Site, High Falls, New York, November 29, 2005.
- P. 500313 Memorandum to Mr. Jeff Catanzarita, U.S. EPA/ERT Work Assignment 500313 Manager, from Mr. Michael Hoppe, REAC Task Leader, Lockheed Martin Technology Services, re: Mohonk Road Industrial Plant Superfund Site, High Falls, NY, WA #0-122 - Trip Report, May 9, 2006.
- P. 500314 Memorandum to Mr. Jeff Catanzarita, U.S. EPA/ ERT Work Assignment 500314 Manager, from Mr. Michael Hoppe, REAC Task Leader, Lockheed Martin Technology Services, re: Mohonk Road Industrial Plant Superfund Site, High Falls, NY, WA #0-122 - Trip Report - Commercial Facility Sampling, June 27, 2006.
- P. 300315 300317 Memorandum to Mr. George Pavlou, Director, Emergency and Remedial Response Division, U.S. Environmental Protection Agency, Region 2, from Mr. John E. LaPadula, P.E., Branch Chief, New York Remediation Branch, U.S. Environmental Protection Agency, Region 2, re: Action Memorandum: Authorization to continue Long Term Remedial Action Activities at the Mohonk Road Industrial Plant Superfund Site, Ulster County, New York, September 18, 2006.

#### APPENDIX IV.

STATE LETTER OF CONCURRENCE

# New York State Department of Environmental Conservation

Division of Environmental Remediation, 12<sup>th</sup> Floor 625 Broadway, Albany, New York 12233-7011 Phone: (518) 402-9706 • FAX: (518) 402-9020 Website: www.dec.ny.gov



SEP 3 0 2008

Mr. George Pavlou Acting Director Emergency and Remedial Response Division USEPA Region II 290 Broadway New York, NY 10007-1866

> Re: Record of Decision Amendment (September 2008) Mohonk Road Industrial Plant, Site # 3-56-023, Marbletown (T), Ulster County

Dear Mr. Pavlou,

The New York State Department of Environmental Conservation (Department) in consultation with the New York State Department of Health (NYSDOH) have reviewed the September 2008 Record of Decision (ROD) Amendment to the March 2000 ROD for the Mohonk Road Industrial Plant Site in the Town of Marbletown, Ulster County. Based on the review, I understand that the components of the remedy already implemented include removal and disposal of contaminated soils which were a source to groundwater contamination; 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 an institutional control preventing future use of the aquifer within the High Falls Water District (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. Further, I understand ongoing components of the remedy include the active remediation of contaminated groundwater by the continued operation of a groundwater extraction and treatment system to address the near-field plume at the source.

I understand that the Amendment to the March 2000 ROD will change the remedy for the far-field plume from the construction and operation of a groundwater extraction and treatment system, to monitored natural attenuation in conjunction with the long-term groundwater monitoring. I understand the remedy also includes continued operation and maintenance of Soil Vapor Extraction (SVE) systems in the on-site building and former source area.

Based on this information, I concur with the remedy and believe it is protective of human health and the environment. If you have any questions, please contact Mr. David Crosby at (518) 402-9662.

Sincerely,

Dale A. Desnoyers, Director

Division of Environmental Remediation

#### APPENDIX V.

RESPONSIVENESS SUMMARY

#### RESPONSIVENESS SUMMARY Record of Decision Amendment Mohonk Road Industrial Plant Superfund Site

#### INTRODUCTION

A responsiveness summary is required by the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) §300.430(f)(3)(i)(A), promulgated under the Superfund statute, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) U.S.C. 42 Chapter 103. It provides a summary of citizens' comments and concerns received during the public comment period, as well as the response of the United States Environmental Protection Agency (EPA) to those comments and concerns. All comments summarized in this document have been considered by EPA in making its decision as embodied in the Record of Decision Amendment for the Mohonk Road Industrial Plant (MRIP) Superfund Site.

#### SUMMARY OF COMMUNITY RELATIONS ACTIVITIES

The original lead agency for the Site, the New York State Department of Environmental Conservation (NYSDEC), prepared a Citizen Participation Plan for the Site, dated June 1997. The Citizen Participation Plan included a community profile and contact list, and has also been used by EPA for its community outreach efforts at the Site. The complete Administrative Record including Site reports has been made available for public review at information repositories at the EPA Docket Room in Region 2, New York and the Stone Ridge Library, Stone Ridge, New York. Site reports have also been made available at the Rosendale Public Library.

The Post-Decision Proposed Remedial Action Plan (or Post-Decision Proposed Plan) was prepared by EPA, with consultation by NYSDEC, and finalized in July 2008. A notice of the Post-Decision Proposed Plan and public comment period was placed in the Blue Stone Press on July 4, 2008 consistent with the requirements of the NCP, and a summary of the Post-Decision Proposed Plan was mailed to all persons on the Site mailing list. The Post-Decision Proposed Plan was made available for review at the information repositories for the Site and at the EPA website (www.epa.gov/region02/superfund/npl/mohonkroad/). The public comment period was scheduled from July 7, 2008 to August 6, 2008. EPA hosted a public meeting on July 17, 2008 to discuss the Post-Decision Proposed Plan. At this meeting, representatives from EPA, NYSDEC, and the New York State Department of Health (NYSDOH) answered questions about the contamination at the Site and the remedial alternatives.

#### OVERVIEW

Groundwater Alternative GW-3, continued operation of the existing groundwater extraction and treatment system within the near field plume including extraction of contaminated groundwater from three recovery wells on the MRIP Property, treatment with an air stripper, and carbon polishing, with vapor-phase carbon treatment of air releases; monitored natural attenuation(MNA) within the far field plume; long-term monitoring of groundwater; and institutional controls was proposed to restore the aquifer to its most beneficial use. Concerns were expressed by the public regarding potential operational impacts of the High Falls Water District (HFWD) drinking water facility as well as the proposed amended remedy. The key concerns involved flooding within the HFWD, the estimation of the durations of the alternatives evaluated and the effectiveness of the monitored natural attenuation component of the remedy.

Attached to this Responsiveness Summary are the following Appendices:

Attachment A - Post-Decision Proposed Plan Attachment B - Public Notice, Proposed Plan summary Attachment C - Letters Submitted During the Public Comment Period Attachment D - Transcript of the July 17, 2008 Public Meeting

#### SUMMARY OF COMMENTS AND EPA'S RESPONSES

The specific comments have been summarized and categorized as follows: o Remedial Activities Performed to Date

- o MRIP Property Soils
- o Existing Groundwater Extraction and Treatment System
- o High Falls Water District
- o Site Characterization
  - o Aquifer Characteristics
- o Evaluation of Remedial Alternatives
  - o Short-term Effectiveness
  - o Long-term Effectiveness and Permanence
  - o Cost
- o Implementation of the Amended Groundwater Remedy
  - o Plume Dynamics
    - o Monitored Natural Attenuation
- o Miscellaneous

A summary of the comments and concerns and EPA responses thereto are provided below:

#### Remedial Activities Performed to Date

#### MRIP Property Soils

**Comment #1:** Why has vapor extraction not been implemented within Areas of Concern (AOCs) A, B, and C?

**Response #1:** Following the removal of contaminated soil and waste debris from AOCs A, B and C, analytical results for post-excavation soil samples indicated that the action levels called for in the Record of Decision (ROD) were met in soils remaining within the excavations. Therefore, there was no need to extract and treat soil gas from AOCs A, B, and C.

**Comment #2:** Are there impacts due to the discharge of treated vapor from the Soil Vapor Extraction (SVE) system and/or Vapor Mitigation Systems?

**Response #2:** Operation of the SVE system extracts vapors from the contaminated subsurface just north of the commercial building at the 186 Mohonk Road property. Volatile organic contaminants (VOCs) including Site contaminants of concern (COCs) within the vapors are removed via contact with activated carbon, prior to release of the treated air to the atmosphere. The vapor entering the system and the air released from the system are monitored routinely, such that the system's carbon is replaced with clean carbon before the existing carbon is no longer able to remove contaminants from the extracted vapors. The contaminated carbon is later cleaned for reuse off-Site, with the contaminants ultimately destroyed.

The vapor mitigation systems within the commercial building operate at low air flow rates and depressurize the area below the building slab. The quality and quantity of this extracted gas is such that it does not require treatment prior to release and subsequent natural dilution and destruction within the atmosphere.

Additionally, during EPA's vapor intrusion investigation within the community, analyses of ambient air (air surrounding the homes) showed no impacts due to the Site COCs.

#### Existing Groundwater Extraction and Treatment System

**Comment #3:** Where is the water discharged following treatment?

**Response #3:** Groundwater extracted via the near field system is, following treatment, discharged into the Coxing Kill Creek.

**Comment #4:** How is the waste removed from the groundwater ultimately handled?

**Response #4:** During the period when extracted groundwater is in contact with the activated carbon, contaminants move from the groundwater to the carbon matrix. Most often the carbon is "regenerated" or cleaned off-Site for reuse, through a heat process which removes and destroys the contaminants.

#### High Falls Water District (HFWD)

**Comment #5:** Did the design of the High Falls Water District Water Supply System consider potential population and demand changes?

**Response #5:** The design of the HFWD water supply system took into account the 2000 Census population report as well as the reasonable expected population growth within the HFWD boundaries which were based on areas already impacted as well as threatened areas. There is excess capacity at this point in the drinking water plant. Any future decisions for the expansion of the HFWD service area would be made by the HFWD. EPA will not have any role in any such future decisions. **Comment #6:** Should disconnected private wells be allowed to be used as non-potable water supplies?

**Response #6:** EPA advocated for the wells to be sealed permanently (never to be used), however, the Towns chose not to restrict a person's right to this property use. The resultant compromise is that the public must tie into the newly created High Falls Water District's public water system for their potable water supply source with all private wells categorized (and labeled) as nonpotable.

Town ordinances do not restrict replumbing of the private wells, yet they clearly note that the water supplied by these wells is not suitable for use beyond nonpotable (e.g., car washing, lawn watering) use. The Towns, the High Falls Water District, and EPA do not recommend use of the private wells as a water source of any type. For more information regarding such practices, contact your county health department.

**Comment #7:** Is the discharge to the canal associated with the flooding concerns on several private properties along Berme Road?

**Response #7:** At this time, EPA does not believe that the excess water conditions in several backyards along Berme Road are caused by the discharge of backwash water from the HFWD facilities into the canal. However, EPA will further evaluate the situation to identify the cause and address the problem if determined to be attributable to the remedial action.

**Comment #8:** Why don't the installed fire hydrants drain automatically?

**Response #8:** The fire hydrants' barrel drain holes are intentionally plugged by design in order to prevent potential backflow of potentially contaminated groundwater into the hydrants. This measure helps preserve the integrity of the drinking water in the water supply lines. This type of fire hydrant was a requirement of and approved by NYSDOH.

**Comment #9:** What can the public do if property restoration related to waterline installation is considered inadequate?

**Response #9:** Almost all property restoration concerns to date have been addressed and resolved. Any remaining concerns regarding property restoration associated with connections to the High Falls Water District should be directed to the EPA Remedial Project Manager.

#### Site Characterization

#### Aquifer Characteristics

Comment #10: How are the limits of the contaminant plume defined?

**Response #10:** The limits of the contaminant plume are defined using the criteria first established in the 2000 ROD as well as information

gathered as part of the 2008 ROD Amendment. The near field plume was defined as having total VOCs greater than 1,000 parts per billion (ppb). The far field plume was defined as having total VOCs between 5 ppb and 1,000 ppb. Groundwater samples are collected on a regular basis and tested by a laboratory for the complete list of VOCs. These results are then plotted on a map to see if the extent, size, or shape of the contaminant plume has changed.

**Comment #11:** How confident is EPA that the monitoring wells have defined these boundaries?

**Response #11:** The contaminant plume boundaries have been well defined over the past eight years of sampling the monitoring wells in the area. Additional monitoring wells have been added over the years where improved definition of the plume was required. There are now more than 25 monitoring wells being sampled to define the plume. The 2008 Final MNA Assessment evaluated monitoring data that indicate groundwater contaminant concentration trends are either decreasing or stable (see Figures 3 and 4), and exhibit the presence of the full range of 1,1,1trichloroethane (TCA) breakdown products within the far field plume and/or wells bounding the far field plume. As part of the Monitored Natural Attenuation (MNA) remedy for the far field plume, the boundary will be frequently evaluated to see if any changes are evident. While EPA is confident in its definition of the plume boundary, should the plume boundaries change, EPA can re-evaluate the remedy.

#### Evaluation of Remedial Alternatives

#### Short-term Effectiveness

**Comment #12:** Wouldn't constructing a second extraction plant and increasing groundwater extraction be considered more effective in the short term?

**Response #12:** The short-term effectiveness criterion examines the effectiveness of alternatives in protecting human health (the community and workers) and the environment during the construction and implementation of a remedy until response objectives have been met. In the case of GW-3 there is no construction, and implementation would include only tasks associated with groundwater monitoring. With GW-2, implementation would be more difficult as there are additional impacts related to the construction and operation of the treatment plant. These impacts would include traffic disruptions and noise, increased energy consumption and waste generation, potential fugitive dust of opening roads and excavations to install additional piping for the far field system on public and private land, and disruptions from transporting construction materials through town.

#### Long-term Effectiveness and Permanence

**Comment #13:** What are the expected durations of the alternatives evaluated?

**Response #13:** Calculating the expected durations of the groundwater alternatives has proven to be difficult at this Site due to the fractured bedrock hydrogeologic conditions. The inherent complexity of the modeling required several assumptions and has led to simplifications in evaluating the remediation timeframe of the alternatives. The groundwater alternative GW-2, which includes continued operation of the near field groundwater extraction and treatment system and construction and operation of a new far field groundwater extraction and treatment system would likely clean up the groundwater plume somewhat faster (in approximately 30 years) than the GW-3 alternative which includes MNA with continued operation of only the near field groundwater extraction and treatment system.

The groundwater modeling conducted in the 1999 NYSDEC Feasibility Study (FS) was performed to estimate cleanup timeframes for a groundwater pump and treat remedy for Sitewide groundwater (both the near field and the far field plumes). That modeling effort resulted in an estimated cleanup timeframe of 27 to 87 years for the source area (near field) groundwater as well as the lower concentration far field plume. The concentrations in the far field plume have decreased since the 1999 modeling was performed due to 1) effective source area groundwater remediation and containment with the current groundwater extraction and treatment system in the near field, and 2) natural attenuation of contaminants in the far field plume. Thus, the estimates for a groundwater pump and treat system for the far field plume would be even less than the estimates in the FS since the concentrations are now lower and contaminated groundwater in the near field plume is no longer a source for the far field plume.

The 2008 Final MNA Assessment estimated that Site groundwater would achieve TCA remediation goals within the far field plume in approximately 44 years for Alternative GW-3. However, it should be noted that these projected time estimates should be considered rough estimates only. Monitoring data was evaluated in the 2008 Final MNA Assessment to produce an estimated aquifer restoration goal for each COC in the groundwater in the vicinity of each monitoring well (see Table 9). The restoration timeframes indicated that the cleanup levels for all of the COCs could be achieved at each of the monitoring wells in as few as 8 years or up to 56 years. In fact, some of these cleanup levels have already been achieved in several locations. The rate constants and the projected times derived from these values possess uncertainties. As noted above, there are also significant uncertainties in the modeling performed in the 1999 Feasibility Study that predicted it would take 27 to 87 years to achieve cleanup levels in the plume. As a result, the timeframes for achieving the cleanup levels throughout the plume under either the MNA approach of alternative GW-3 or the active groundwater extraction and treatment approach of alternative GW-2 cannot be distinguished. Overall EPA believes that alternative GW-3 will provide similar levels of long term effectiveness as alternative GW-2.

#### Cost

#### Comment #14: To what extent does cost affect remedy selection?

**Response #14:** CERCLA requires the analysis of all nine criteria in selection of a remedy for a Site. At this Site, the CERCLA process was followed and is documented in the Post-Decision Proposed Plan and the ROD Amendment. There are two threshold criteria: overall protection of human health and the environment and compliance with applicable or relevant and appropriate requirements. The alternatives were first evaluated based on the threshold criteria prior to the comparative analysis. Then the alternatives which passed the threshold criteria were evaluated using all seven of the other criteria, including cost. In this instance, the additional cost was weighed as a balancing factor with the relative similarity in long term effectiveness of alternatives GW-2 and GW-3.

#### Implementation of Amended Groundwater Remedy

#### Plume Dynamics

**Comment #15:** During groundwater extraction and/or MNA, is the plume reduced, are contaminant concentrations reduced, or both?

**Response #15:** Whether a groundwater extraction system or MNA was the remedy for the far field plume, the plume size would be reduced and the individual contaminant concentrations would also decrease. A groundwater extraction system could capture an area of the aquifer to reduce the plume size and it could reduce concentrations by extracting contaminants from the groundwater. MNA will decrease the concentrations through natural processes which will also reduce the size of the contaminant plume. Of particular importance is the fact that the plume has been stable. It has not been growing. The active remedial action at the near field groundwater extraction system and MNA are also causing the concentrations at the source and in the far field plume to decrease.

#### MNA

**Comment #16:** For how long will the long-term monitoring be performed?

**Response #16:** Long-term monitoring will be performed until the remedial goals for the Site – achievement of drinking water standards (or Maximum Contaminant Levels (MCLs)) and restoration of the aquifer to its best use (as a source of potable groundwater) – are reached. During the implementation of the remedy, the appropriateness of the monitoring well network with respect to the plume would be evaluated as the plume is further refined, and modifications including the abandonment and/or installation of additional monitoring wells could be made to the well network as necessary to support comprehensive monitoring of the selected remedy.

Comment #17: How is the occurrence of MNA established?

**Response #17:** The 2008 Final MNA Assessment verified that the Site chemical and geochemical data show definitive evidence for MNA at the Site. The data indicate biological activity supporting reductive dechlorination of TCA and TCE, including:

- o Decreasing contaminant concentrations in the near field plume;
- Stable and low or non-detectible contaminant concentrations in the far field plume;
- o The full range of TCA breakdown products have been detected in the far field plume and/or the wells bounding it;
- o Presence of reducing conditions bounding the plume in the far field plume; and
- o Presence of reducing conditions in localized areas in both the near and far field plumes.

A Long-term Monitoring (LTM) Plan will be prepared that includes specific monitoring requirements for MNA parameters and subsequent evaluations with respect to MNA. The LTM Plan will include the requirements for the periodic operations, maintenance, and monitoring reports. LTM will also include periodic recording of groundwater elevations, recording of water quality parameters, and collection and analysis of groundwater samples to provide the lines of evidence of degradation of the contaminants and breakdown products and of the progress of remedial activities.

Comment #18: Will long-term monitoring target MNA breakdown products?

**Response #18:** Although evaluations frequently focus on the Site related COCs, laboratory analyses currently performed and proposed report a list of over 60 volatile organic compounds, including the breakdown products indicative of natural attenuation processes. The evaluation of all compounds potentially associated with the Site (i.e., COCs and breakdown products) and their exposure potential will continue throughout the course of remedy implementation.

**Comment #19:** Will there be a different remedy available if the measurement criteria are not met?

**Response #19:** The proposed alternative includes a long-term monitoring component which allows for the ongoing evaluation of Site conditions over the course of remedy implementation. In the event that monitoring data indicates that the remedy is not protective of human health and the environment, options for improving the remedy would be evaluated based on the then-current conditions. This will occur on a formal, comprehensive basis with EPA's 5-Year review process.

#### Miscellaneous

**Comment #20:** Are bacterial contaminants in groundwater a concern within the Site area?

**Response #20:** Fecal coliform was targeted in addition to Site COCs when NYSDEC and EPA analyzed private well water in order to support the design and maintenance of the point-of-entry treatment (POET)

systems installed in 1994 as part of early actions at the Site. Where some bacterial contamination was detected, ultra-violet (UV) disinfection systems were installed as part of the POET systems. Septic systems are contributing to deterioration of water quality of the aquifer; however, these types of contaminants are not Site-related COCs. As a result, they are not targeted during sampling currently performed and proposed in association with the Mohonk Road Industrial Plant Superfund Site. For more information regarding water quality analyses, contact the Ulster County Health Department.

**Comment #21:** Where can NYSDEC and NYSDOH concurrence with the remedy be accessed?

**Response #21:** The State letter of concurrence is provided within Appendix IV of the ROD Amendment. NYSDOH concurrence is not required under the NCP, but NYSDOH's concurrence is also contained in the State's letter.

**Comment #22:** Will eventual transfer of the Site to NY State affect remedy implementation?

**Response #22:** EPA will operate the near field extraction and treatment system for ten years from the date of startup (until September 28, 2011). The near field extraction and treatment system will be turned over to the State on or before that date. The proposed remedy of MNA/Long-term Monitoring would be performed and funded by EPA for ten years from the date of the ROD Amendment. Also, even when the operation and maintenance of the remedy has been turned over to the State, the Site is still a federal Superfund Site. The Site would not be deleted from the National Priorities List (NPL) until groundwater standards are met. There is a formal process for deleting a Site from the NPL which includes public comment. At that time, EPA would again come to the community to explain that the aquifer had been restored and there was no residual contamination remaining on Site prior to Site deletion.

**Comment #23:** Where can the Site documents be accessed?

**Response #23:** Project documents are available at EPA Region 2's offices in New York, as well as at the project repository located at the Stone Ridge library. Most project documents are also available at the Rosendale Public Library. Street addresses for these repositories are provided within the Proposed Plan which is Attachment A of this document.

RESPONSIVENESS SUMMARY Attachment A - Post-Decision Proposed Plan

#### Superfund Post-Decision Proposed Plan

# Mohonk Road Industrial Plant Superfund Site



#### Purpose of Proposed Plan

This Post-Decision Proposed Plan describes the proposed fundamental changes to the March 2000 Record of Decision (ROD) issued by the United States Environmental Protection Agency (EPA) with concurrence by the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) for the Mohonk Road Industrial Plant (MRIP) Site (the Site) located in the towns of Marbletown and Rosendale, Ulster County, New York.

The remedy specified in the ROD required construction and operation of a new public water supply system to supply water to those with impacted or threatened private supply wells, active remediation of contaminated groundwater by extraction and treatment - including continued operation of the groundwater extraction and treatment system installed to address the area around the source (the near-field plume) and installation of a separate extraction and treatment system to address the portion of the groundwater plume downgradient from the source (the far-field plume), additional removal and disposal of contaminated soil, and long-term monitoring of groundwater conditions. EPA has implemented all components of the remedial action specified in the ROD except installation of the far-field plume extraction and treatment system, because EPA no longer believes such an installation is necessary. In this Post-Decision Proposed Plan, EPA is proposing a monitored natural attenuation (MNA) remedy because it will be equally protective of human health and the environment and cost effective.

This Post-Decision Proposed Plan was developed by EPA in consultation with NYSDEC. EPA is issuing this Post-Decision Proposed Plan as part of its public participation responsibilities under Section 117(a) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended (commonly known as the federal "Superfund" law), and Section 300.430(f)(2) of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). EPA encourages the public to review these documents to gain a more comprehensive understanding of the Superfund process.

This Post-Decision Proposed Plan is being provided to inform the public of EPA's preferred remedy and to solicit public comments pertaining to all the remedial alternatives evaluated. The proposed alternative described in this Post-Decision Proposed Plan is the *preferred* alternative for the Site. Changes to the preferred alternative or a change from the preferred alternative to another remedy may be made if public comments or additional data indicate that such a change will result in a more appropriate remedial action. The final decision regarding the selected remedy will be made after EPA has taken into consideration all public comments. EPA is soliciting public comment on all of the alternatives considered because EPA may select a remedy other than the preferred remedy.

July 2008



### Mark Your Calendar

July 7, 2008 – August 6, 2008: Public comment period on the Proposed Plan.

*July 17, 2008 at 7:00 P.M.*: Public meeting at the Fire House, 1 Fire House Road, High Falls, New York.

# COMMUNITY ROLE IN SELECTION PROCESS

EPA relies on public input to ensure that the concerns of the community are considered in selecting an effective remedy for each Superfund site. Similarly, EPA also relies on public input when proposing fundamental changes to a remedy previously selected. To this end, this Post-Decision Proposed Plan and all reports referenced herein have been made available to the public for a public comment period which begins on July 7, 2008 and concludes on August 6, 2008.

Comments received at the public meeting, as well as written comments received during the public comment period, will be documented in the Responsiveness Summary section of the ROD Amendment, the document which formalizes the selection of the remedy.

Written comments on this Proposed Plan should be addressed to:

#### Sal Badalamenti

Remedial Project Manager Eastern New York Remediation Section U.S. Environmental Protection Agency 290 Broadway, 20th Floor New York, New York 10007-1866

Telefax: (212) 637-3966 Internet: badalamenti.salvatore@epa.gov.

SITE REPOSITORIES
Copies of the Proposed Plan and supporting documentation are available at the following information repositories and website:
Stone Ridge Library 3700 Main Street, P.O. Box 188 Stone Ridge, NY 12484-0188 (914) 687-7023
Hours: Monday and Wednesday, 1:30 A.M 8:00 P.M. Tuesday, Thursday, and Saturday 10:00 AM - 5:30 PM Friday 1:30 PM - 5:30 PM
and
Rosendale Library 264 Main Street, P.O. Box 482 Rosendale NY 12472
This information repository contains many of the Site documents, but not the entire Administrative Record (which is available at the Stone Ridge Library).
and
USEPA Region 2
Superfund Record Center 290 Broadway, 18th Floor
New York, NY 10007-1866
Telephone: (212) 637-3000
www.epa.gov/region2/superfund/npl/mohonkroad
Hours: Monday - Friday, 9:00 A.M 5:00 P.M.

# SCOPE AND ROLE OF ACTION

The primary objective of this Proposed Plan is to present an Amendment to the ROD for the Mohonk Road Industrial Plant (MRIP) Superfund Site (Site). The remediation goal of the ROD is to eliminate human exposure to groundwater contaminated by the MRIP Site that does not meet state or federal drinking water standards, restore the groundwater contaminated at the Site to drinking water standards, and prevent the contaminated groundwater from spreading and further impacting the aquifer, and eliminate the potential for human exposure to any contaminants in subsurface soils on the MRIP Property or the release of those contaminants into the groundwater.

Prior to the issuance of the ROD, several interim actions had occurred at the Site, including the installation of a groundwater extraction and treatment system to minimize the further migration in the bedrock aquifer of the most highly contaminated portion of the groundwater plume (conducted as a non-time critical removal action [NTCRA]) closest to the MRIP Property.

EPA has implemented the following elements of the ROD:

 construction and operation of a new public water supply system, providing an alternate water supply to those with impacted or threatened private supply wells;

- removal and disposal of contaminated soils which are a source for groundwater contamination;
- active remediation of contaminated groundwater by the continued operation of the groundwater extraction and treatment system to address the near-field plume at the source, and long-term groundwater monitoring; and
- institutional controls preventing future use of the aquifer within the High Falls water District (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.

The ROD also included a separate groundwater extraction and treatment system to address the portion of the plume which is downgradient from the source (the far-field plume). EPA and NYSDEC now believe that this second extraction and treatment system is no longer necessary. With the construction of the public water supply system, human health risks are controlled. 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 have significantly reduced the migration of contaminants from the Site. Over the last several years, EPA has performed extensive monitoring of the far-field plume and conducted an investigation to evaluate potential vapor intrusion. Evaluations of monitored natural attenuation (MNA) as a remedy for the far-field plume suggest that MNA is a viable alternative to groundwater extraction and treatment within the far-field plume.

EPA has developed this proposed plan to evaluate the following three alternatives for the far-field groundwater remedy for this Site: (1) No Further Action, (2) Groundwater Extraction and Treatment (the remedy selected in the ROD for the far-field plume), and (3) MNA/Long-term Monitoring.

# SITE BACKGROUND

# Site Description

The MRIP Site is located in the Hamlet of High Falls, Ulster County, New York, approximately seven miles north-northwest of the Village of New Paltz and ten miles south-southwest of the City of Kingston. High Falls is situated within two townships; the Towns of Marbletown and Rosendale (see Figure 1). The Site includes a facility located at 186 Mohonk Road (the MRIP Property), and all surrounding properties that have been impacted by the contaminated groundwater plume. Residents and businesses within the area are now obtaining their potable water from the High Falls Water District, a publicly-operated water supply system.

Mohonk Road Industrial Plant Superfund Site

The MRIP Property originally consisted of approximately 14.5 acres of mostly undeveloped land, with a 43,000-square-foot building in its southern corner. As part of the water supply remedy, consistent with the ROD, 6.9 acres of the northern property were conveyed by the Kithkin Corporation on August 19, 2005 to the High Falls Water District. This northern portion of the property is now the location of the High Falls Water District's drinking water treatment plant.

The Site-related groundwater plume extends approximately 4,000 feet downgradient from the MRIP Property, and had adversely impacted at least 75 residential and commercial water supply wells. The "near-field plume" as historically defined in the ROD refers to that portion of the groundwater plume with total volatile organic compound (VOC) concentrations greater than 1,000 parts per billion (ppb), while the "farfield plume" refers to the component of the groundwater plume between 10 ppb and 1,000 ppb total VOCs. Figure 3 depicts the current extent of the plume boundary to the 5 ppb total VOC concentration. The entire near-field plume is currently within the estimated capture zone of the existing groundwater pumping and treatment system.

#### **CONTAMINANTS of CONCERN (COCs)**

As a result of the historic use of solvents and other chemicals at the MRIP Property, Site groundwater contains contaminants known as volatile organic compounds (VOCs). The contaminants of concern (COCs) specifically identified as a result of investigations at this site include the following:

- o trichloroethene (TCE) an industrial solvent
- 1,1,1-trichloroethane (TCA) an industrial solvent, the contaminant typically found in highest concentrations at the site
- 1,1-dichloroethane (DCA) a breakdown product of TCA
- **1,1-dichloroethene (DCE)** a breakdown product of TCA
- o 1,4-dioxane a stabilizer associated with TCA

The NYS Maximum Contaminant Level (MCL) for TCE, TCA, DCA, and DCE is 5 ppb, while the MCL for 1,4-dioxane is 50 ppb.

## Site Geology/Hydrogeology

Three distinct water bearing zones have been identified at the Site, including an overburden (till) flow zone, a bedrock interface flow zone (at the shallow soil/bedrock interface), and 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.

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. Groundwater flow is primarily to the north-northeast with localized variations to the west and east towards Rondout Creek and Coxing Kill Creek. Downhole geophysical investigations identified water-producing fractures with thin beds of finer-grained material throughout the vertical extent of the bedrock aquifer at depths ranging from approximately 20 to 194 feet below the ground surface (bgs).

Vertical flow gradients on the MRIP Property are clearly downward. However, artesian or upward groundwater flow has been reported in several residential wells and multi-level monitoring wells outside of the MRIP Property.

The MRIP Property is situated near a topographical high that serves as a recharge area for the bedrock aquifer. The remedial investigation (RI) concluded that contamination entered the bedrock groundwater near the former septic tank and spread northward from the MRIP Property in the bedrock aquifer. In the vicinity of the near-field groundwater extraction and treatment system, active pumping of groundwater from the bedrock is resulting in the capture of a significant portion of the groundwater contaminated with VOCs.

## Site History

The MRIP Property had been used for industrial purposes since the early 1960s. These activities included metal finishing, wet spray painting, and manufacturing of store display fixtures, card punch machines, and computer frames. Wastes from these operations were typically discharged into a septic tank on the property.

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 levels of VOCs above federal and/or NYS MCLs for drinking water. Subsequent sampling performed by UCHD identified 70 other homes or businesses downgradient of the Site with VOCs above the aforementioned standards for drinking water. As an interim action to address immediate health threats. NYSDEC installed point-of-entry treatment (POET) systems at homes or businesses whose potable water supply exceeded the NYS MCLs (5 ppb) for the individual VOCs. These systems included particulate filters, granular activated carbon (GAC) for VOC removal, and ultraviolet (UV) oxidation for disinfection. Monitoring of private wells on the perimeter of the plume was instituted to ensure that impacts to previously unaffected private wells downgradient of the Site would be addressed. As a result of the ongoing monitoring program, five additional homes and businesses were ultimately supplied with POET systems. In 1994, NYSDEC placed the Site on the NYS Registry of Inactive Hazardous Waste Sites, indicating

In the fall of 1996, NYSDEC assessed subsurface conditions within five suspected disposal areas. Investigations included geophysical surveys, soil gas screening, soil borings, and monitoring well installation. Samples of surface soils, subsurface soils, groundwater, soil vapor, and water and sludge samples from within an abandoned 1,000-gallon septic tank located north of the MRIP building, were collected. Two sources of VOC contamination were identified on the MRIP Property, including (1) subsurface soil beneath the gravel driveway at the western end of the MRIP building, and (2) the abandoned septic tank (see Figure 2). Additionally, VOC concentrations above MCLs were detected in groundwater.

Based on this investigation, NYSDEC initiated an RI in 1997 to characterize the nature and extent of groundwater contamination. The RI results indicated that VOC contamination, including PCE, TCE, TCA, DCE, DCA, ethylbenzene, and xylenes, existed in soils at the MRIP Property; the dissolved-phase groundwater VOC plume was found to extend approximately 4000 feet north-northeast from the MRIP Property; and downgradient private water supplies, as well as groundwater in the bedrock aguifer beneath the MRIP Property, exhibited VOC concentrations above EPA Removal Action Levels, federal and NYS MCLs, and NYSDEC Class GA Drinking Water Standards. During the RI, the abandoned septic tank, its contents, and 25 tons of surrounding contaminated soil were excavated and removed from the Site.

Additionally, 1,4-dioxane, a stabilizer associated with TCA, was detected at the MRIP Property at concentrations above the 10 NYCRR Part 5 standard of 50 ppb 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 ppb. NYSDEC provided bottled water for two residences which exceeded only this standard until the 1,4-dioxane levels fell below the 50 ppb level.

The Site was added to the National Priorities List (NPL) on January 19, 1999. NYSDEC released a feasibility study (FS) which evaluated cleanup alternatives for the entire Site in March 1999, and a proposed plan in November 1999. Public comments were accepted from November 15, 1999 through March 15, 2000. EPA assumed the role as lead agency with the issuance of the ROD in March 2000.

The major components of the selected remedy documented in the ROD are:

 construction of a new public water treatment plant and distribution system to serve the proposed water service area in High Falls; extraction of groundwater on and off the MRIP Property, with treatment via air stripping and GAC; and

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 excavation of approximately 500 cubic yards (CY) of contaminated soils on the MRIP Property and disposal off-Site.

On June 4, 1999, EPA authorized a NTCRA consisting of the construction of the near-field groundwater extraction and treatment system designed to minimize the further migration of the most highly contaminated portion of the groundwater plume within the bedrock aquifer. The groundwater extraction and treatment plant began operating 24 hours a day, seven days a week in May 2000. As of December 2007, over 46.6 million gallons of contaminated groundwater have been extracted and treated via this system.

Additional removal and disposal of contaminated soils was performed based on data collected by NYSDEC during the RI and by EPA during the NTCRA, and as prescribed by the ROD. The four areas shown in Figure 2 were identified as requiring soil cleanup. EPA excavated and disposed of a total of 2,036 tons of contaminated soil, paint waste and debris from these areas.

In addition, COCs were found in soil gas immediately north of the commercial building on the MRIP Property. An 18-well soil vapor extraction (SVE) system was installed in 2007. The SVE system has been fully operational since February 2008.

In February 2005, EPA initiated an investigation to determine if subsurface contamination originating from the MRIP Property may put nearby residents at risk due to vapor intrusion of VOCs into homes. Permanent sub-slab soil gas sampling ports were installed in 34 residential and 9 non-residential locations, with soil gas samples collected and analyzed for VOCs. The sampling determined that the concentrations of VOCs at all residential locations were below the health-based screening levels. Therefore, no further evaluation and/or action were deemed necessary. However, samples obtained in the commercial building on the MRIP Property indicated the need to install a vapor mitigation system. In early 2007, six new sub-slab ventilation systems were installed, with extraction points in the subsurface layer underneath the building's concrete floor. These mitigation systems are currently operating as designed.

The construction of the water treatment plant and water distribution system called for in the ROD began in the fall of 2005 and was completed in the fall of 2007. The water treatment plant and accompanying water tower occupy approximately seven acres of land in the northern section of the MRIP Property (see Figure 2). The system is connected to the pressurized Catskill Aqueduct, which is part of the New York City

reservoir system. Stringent sampling and monitoring is conducted to verify that the treated water meets all federal and NYS drinking water standards. NYSDOH certified the newly constructed High Falls Water Treatment Plant as operational on September 24, 2007. Connection of homes and businesses within the water district to the public water supply was completed in November 2007. The MRIP building at 186 Mohonk Road was also connected to public water supply. Concurrently, POET systems were removed, associated well lines were capped, and well pumps' piping and power were disconnected. An ordinance within the High Falls Water District prohibits residents from establishing or maintaining a source of drinking and domestic water separate from the public water supply, yet allows existing separate water sources to be used for purposes other than drinking and domestic use.

In 2006, an evaluation of the potential for MNA for the far-field plume, based on groundwater monitoring data collected on a semi-annual basis from 1999 through April 2006 was performed. In April 2008, EPA obtained an update to the 2006 MNA assessment. These reports conclude that MNA is a viable remedy for the far-field plume. Monitoring data indicate groundwater contaminant concentration trends are either decreasing or stable (see Figure 4), and exhibit the presence of the full range of TCA breakdown products within the far-field plume and/or wells bounding the far-field plume.

#### SUMMARY OF GROUNDWATER CONDITIONS

Site investigations have indicated that groundwater in the bedrock aquifer is contaminated with various VOCs, including TCA, TCE, DCE, and DCA, above Federal and NYS MCLs. A plume with a total VOC concentration of at least 5 ppb extends a distance of approximately 4000 feet from the MRIP Property and covers an area of roughly 170 acres. Since the discovery of the Site in 1994, residential wells beyond the perimeter of the plume have been monitored to verify that the water in these wells was suitable for domestic use.

From 1996 to 1998, NYSDEC installed 22 monitoring wells - including two in the overburden (MW-9 and -11), five in shallow soil/bedrock (MW-1 through -5), and thirteen in bedrock (MW-1B, -5B through -15B, and -11C), installed two bedrock extraction wells (MW-5R and -7R), and performed six rounds of groundwater sampling. 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. In November 1996, a groundwater sample from shallow soil/bedrock well MW-4 was found to contain 87,000 ppb of TCA, 10,000 ppb of DCE, 6,700 ppb DCA, and 3,300 ppb of EPA Region 2 – July 2, 2008

TCE. Subsequent rounds of sampling confirmed levels of these VOCs above MCLs, and although levels decreased significantly after NYSDEC removed the tank in August 1997, the levels of VOCs remained elevated well above MCLs at the time of the ROD. Samples from the nearest downgradient bedrock monitoring well, MW-5B, also contained levels of TCA, DCA, DCE and TCE above MCLs, with the total VOC levels consistently greater than 1,000 ppb during the RI. At the time of the ROD, contaminant levels in MW-5B had not appreciably decreased.

As part of the NTCRA, EPA installed four additional bedrock wells on the MRIP Property (ERT-1 through ERT-4). Sampling results from these wells confirmed VOC concentrations were above MCLs on the MRIP Property, and ERT-4, the well closest to the location of the former septic tank, had the highest VOC total (an estimated total of 7,510 ppb TCA, DCA, DCE and TCE in October 1999).

Monitoring well data indicated that upon release into the overburden, contaminants migrated downward into the bedrock aquifer without significant lateral movement. Monitoring wells located upgradient of the MRIP Property have not been found to contain TCA or other VOCs at concentrations above MCLs.

From 2004 through 2007, 1,4-dioxane has been detected in well ERT-3 on the MRIP Property at concentrations ranging from 30 to 83 ppb. The highest concentration of 1,4-dioxane detected in the far-field monitoring wells has been 18 ppb at MW-17-1, with levels at non-detect or near non-detect (2 ppb) in the far down-gradient wells (Sevenson 2008). Concentrations in residential wells are presently below the 10 NYCRR Part 5 Unspecified Organic Compound standard of 50 ppb. With the present far-field concentrations below the NYSDEC cleanup level and the relatively low near-field concentrations, it is likely that natural attenuation physical processes which were identified in the 2008 MNA evaluation will continue to reduce 1.4-dioxane concentrations in the far-field to below the NYSDEC cleanup level.

Groundwater elevation level measurements have typically been recorded from 15 residential and Siterelated monitoring wells every two weeks for the last eight years in order to evaluate regional drawdown due to the groundwater extraction system and to ensure continued water supply to nearby residential wells, avoiding drawing water levels below the intake of the well pumps. Historically, the hydraulic gradient has been impacted by the operation of the near-field groundwater recharge in the area. The completed public water system has resulted in the termination in pumping of private wells in the area of groundwater contamination. Monitoring of water levels continued after the residential wells were disconnected in

November 2007; an updated groundwater contour map is provided as Figure 3. A new monitoring well fitted with several ports to enable groundwater sample collection from different bedrock zones will soon be installed approximately 2000 feet east-northeast of the MRIP Property to assist in evaluating conditions along the eastern edge of the plume.

Historically, the 25 monitoring wells associated with the Site have been sampled every six months in order to track the migration of the contaminant plume. Quarterly O&M reports for the near-field system have included the results of all monitoring well and residential well sampling. Since the disconnection of the residential wells in November 2007, sampling and analyses were performed in December 2007 and April 2008; Table 1 provides the December 2007 analytical results. The extent and concentration levels of the bedrock groundwater contamination are depicted in Figure 3; Figure 4 presents total VOC concentration trends in several source (near-field), mid-plume, and far-field wells. The December 2007 VOC data indicate the limits of the plume are generally defined in all directions (Figure 3). Downgradient residential wells provide no suggestion of increasing trends in any of the contaminants. All wells in the far-field plume with statistically significant trends show decreasing contaminant concentrations. The increased extraction rates of the near-field treatment system and the additional source removal anticipated with the SVE system operation increase the likelihood that the plume margins will shrink in the future.

Groundwater quality monitoring of the Site has been an ongoing biannual effort at most of the 25 monitoring wells in the network since 1999. Sampling and analysis for MNA parameters began at most of the monitoring wells in April 2006 and has continued biannually. In order to obtain sufficient data to complete a full MNA evaluation of the current plume, the monitoring wells have been sampled on a quarterly basis since December 2007 for VOCs and 1,4dioxane, along with standard field monitored parameters. The most recent monitoring well sampling event was performed in April 2008.

The 2008 MNA evaluation verified that the Site chemical and geochemical data show definitive evidence for biological activity supporting reductive dechlorination of TCA and TCE, including:

- Decreasing contaminant concentrations in the near-field plume;
- Stable and low or non-detectible contaminant concentrations in the far-field plume;
- The full range of TCA breakdown products have been detected in the far-field plume and/or the wells bounding it;
- Presence of reducing conditions bounding the plume in the far-field plume; and

 Presence of reducing conditions in localized areas in both the near- and far-field plumes.

Sampling for VOCs and 1,4-dioxane along with standard field monitored parameters will be continued quarterly. Water level data will continue to be collected and carefully monitored to ensure that analytical samples and natural attenuation data are sufficient to confirm that the near-field plume is under hydraulic control.

# SUMMARY OF SITE RISKS

The purpose of the following summary of the risk assessment is to identify potential cancer risks and non-cancer health hazards at the Site assuming that no further remedial action is taken. A risk evaluation was performed to evaluate future health risks associated with exposure to contamination at the Site based on current (2007) Site data.

# Human Health Risk Assessment

As part of the 1999 RI/FS, a baseline human health risk assessment (BHHRA) was conducted to estimate the risks associated with the current and future effects of contaminants on human health and the environment. A baseline human health risk assessment is an analysis of the potential adverse human health effects caused by hazardous-substance exposure in the absence of any actions to control or mitigate these under current and future land uses. A four-step human health risk assessment process was used for assessing Site-related cancer risks and noncancer health hazards. The process includes: Hazard Identification of Chemicals of Potential Concern (COPCs), Exposure Assessment, Toxicity Assessment, and Risk Characterization (see following box "What is Risk and How is it Calculated").

In the BHHRA conducted as part of the RI, unacceptable cancer risks and non-cancer hazards were identified based on soil contact and potential future use of groundwater as a potable drinking water supply.

EPA recently sampled monitoring wells that are outside of the capture zone of the current groundwater remedy. These wells are in place to monitor levels of contamination that are not being addressed by the current pump-and-treat system and will continue to migrate. These wells have been sampled and the results indicate that Site-related contaminants are in the groundwater above MCLs. In 2008, a new risk evaluation was performed on these contaminants, with a focus on TCE. EPA's statistical evaluation of the TCE in groundwater, if used as a potable drinking water source for residents in the future, would result in an excess lifetime cancer risk of 3 X 10<sup>-5</sup> (3 in one hundred thousand). All non-cancer health hazard estimates are within the acceptable limits. In addition, concentrations of 1,1-DCE, 1,1-DCA, 1,1,1-TCA, and

#### WHAT IS RISK AND HOW IS IT CALCULATED?

#### Human Health Risk Assessment

A Superfund baseline human health risk assessment is an analysis of the potential adverse health effects caused by hazardous substance releases from a site in the absence of any actions to control or mitigate these under current- and future-land uses. A four-step process is utilized for assessing site-related human health risks for reasonable maximum exposure scenarios.

Hazard Identification: In this step, the chemicals of potential concern (COPCs) at the site in various media (i.e., soil, groundwater, surface water, and air) are identified based on such factors as toxicity, frequency of occurrence, and fate and transport of the contaminants in the environment, concentrations of the contaminants in specific media, mobility, persistence, and bioaccumulation.

*Exposure Assessment:* In this step, the different exposure pathways through which people might be exposed to the contaminants in air, water, soil, etc. identified in the previous step are evaluated. Examples of exposure pathways include incidental ingestion of and dermal contact with contaminated soil and ingestion of and dermal contact with contaminated groundwater. Factors relating to the exposure assessment include, but are not limited to, the concentrations in specific media that people might be exposed to and the frequency and duration of that exposure. Using these factors, a "reasonable maximum exposure" scenario, which portrays the highest level of human exposure that could reasonably be expected to occur, is calculated.

*Toxicity Assessment:* In this step, the types of adverse health effects associated with chemical exposures, and the relationship between magnitude of exposure and severity of adverse effects are determined. Potential health effects are chemical-specific and may include the risk of developing cancer over a lifetime or other non-cancer health hazards, such as changes in the normal functions of organs within the body (e.g., changes in the effectiveness of the immune system). Some chemicals are capable of causing both cancer and non-cancer health hazards.

Risk Characterization: This step summarizes and combines outputs of the exposure and toxicity assessments to provide a quantitative assessment of site risks for all COPCs. Exposures are evaluated based on the potential risk of developing cancer and the potential for non-cancer health hazards. The likelihood of an individual developing cancer is expressed as a probability. For example, a  $10^{-4}$  cancer risk means a "one in ten thousand excess cancer risk"; or one additional cancer may be seen in a population of 10,000 people as a result of exposure to site contaminants under the conditions identified in the Exposure Assessment. Current Superfund regulations for exposures identify the range for determining whether remedial action is necessary as an individual excess lifetime cancer risk of  $10^{-4}$  to  $10^{-6}$ , corresponding to a one in ten thousand to a one in a million excess cancer risk. For non-cancer health effects, a "hazard index" (HI) is calculated. The key concept for a noncancer HI is that a "threshold" (measured as an HI of less than or equal to 1) exists below which non-cancer health hazards are not expected to occur. The goal of protection is 10<sup>-6</sup> for cancer risk and an HI of 1 for a non-cancer health hazard. Chemicals that exceed a  $10^{-4}$  cancer risk or an HI of 1 are typically those that will require remedial action at the site and are referred to as Chemicals of Concern or COCs in the final remedial decision or Record of Decision.

TCE exceeded their respective MCLs in 88% of the samples (21 of 24).

These calculated risks to human health require EPA to evaluate remedial measures to reduce the potential for exposure and risks associated with the observed contamination and restore the groundwater to beneficial use.

In February 2005, EPA initiated an investigation to determine if subsurface contamination originating from the MRIP Property may put residents at risk via vapor intrusion. Permanent sub-slab soil gas sampling ports were installed in 34 residential and 9 non-residential locations, with soil gas samples collected and analyzed for VOCs. The sampling determined that the concentrations of VOCs at all residential locations were below the health-based screening levels. Therefore, no further evaluation and/or action were deemed necessary.

However, samples obtained in the commercial building on the MRIP Property indicated the need to install a vapor mitigation system. In early 2007, six new sub-slab ventilation systems were installed in the subsurface underneath the building's concrete floor. These mitigation systems are currently operating as designed.

#### Ecological Risk Assessment

The purpose of an ecological risk assessment (ERA) is to provide a baseline evaluation of the nature and geographical extent of possible ecological risks based on current environmental conditions. During the RI, a Fish and Wildlife Impact Assessment performed during the RI identified no threatened or endangered birds, mammals, reptiles, amphibians, fish, or invertebrates within the Site area and no currently existing pathways for significant exposures to fish or wildlife to Site-related contaminants. The study concluded that no further study of fish and wildlife resources was necessary at that time.

## **REMEDIAL ACTION OBJECTIVES**

Remedial action objectives (RAOs) are specific goals established to protect human health and the environment. RAOs are based on available information and regulatory standards, such as applicable or relevant and appropriate requirements (ARARs), NYSDEC's soil cleanup objectives, Site-specific risk-based levels, and the reasonably anticipated future land use for the MRIP Property, i.e., commercial development.

The RAOs developed during the FS for soil and groundwater were designed, in part, to mitigate the health threats posed by ingestion and inhalation (through showering) of groundwater and contact with soils. The following RAOs were established in the ROD:

- Eliminate inhalation and ingestion of, and dermal contact with, contaminated groundwater associated with the Site that does not meet State or Federal drinking water standards.
- Restore the bedrock aquifer to its most beneficial use (i.e., as a source of potable water), and restore it as a natural resource.
- Prevent or minimize cross-media impacts from COCs in contaminated soil to the underlying groundwater, which will also eliminate potential future exposure to this soil. Site soil cleanup objectives for COCs would be based on NYSDEC's TAGM 4046 for groundwater protection.
- Eliminate further off-MRIP Property contaminated bedrock groundwater migration.

The selected remedy included:

- Continued O&M of POET systems at homes and businesses adversely impacted by the VOC plume until the construction and operation of a new public water supply system provides an alternate water supply;
- Active remediation of contaminated groundwater by the continued operation of the existing extraction and treatment system to address the near-field plume at the source;
- Removal and disposal of additional contaminated soils which were a source for groundwater contamination;
- Installation of a separate extraction and treatment system to address the portion of the far-field plume, and long-term groundwater monitoring; and
- Institutional controls to prevent future use of the bedrock aquifer within the impacted or threatened area (i.e., within the HFWD)

Since the development of the RAOs, approximately 2,567 tons of contaminated soil has been removed from source areas at the MRIP Property; the septic tank, believed to be the primary source of Site contamination, was excavated along with approximately 25 cubic yards (CY) of associated soil in September 1997. These remedial activities meet the intent of the soil RAO described above.

Homes and businesses with impacted water supplies were provided with POET systems until their connection to the newly constructed High Falls Water District public water supply system; local regulations currently mandate connections to this system within the Water District. Additionally, sub-slab vapor mitigation systems have been installed to address vapor intrusion at the MRIP commercial building at the Site. These remedial activities have eliminated the groundwater exposure pathway, and their continuance meets the intent of the associated RAO. A groundwater extraction and treatment system was installed within the near-field plume, and has been operating 24 hours a day since May 2000. Groundwater monitoring in the vicinity of the former septic tank has shown reductions of total VOC concentrations, and Site-wide groundwater monitoring has shown groundwater quality has improved over the last several years. The continued control and remediation of groundwater via the operation of the groundwater extraction and treatment system at the MRIP Property is reducing off-MRIP Property migration within the near-field plume.

Current contaminant trends and water quality parameters indicate that MNA, in conjunction with the currently active remedies, are expected to be adequate in remediating the far-field plume without a far-field pump and treat system. In addition, recent increases in the extraction rates for the near-field groundwater extraction and treatment system also provides support for MNA as an effective remedial approach for the far-field plume. As a result, EPA has decided to reevaluate the active groundwater extraction and treatment remedy for the far-field plume specified in the ROD, leading to this Post-Decision Proposed Plan.

Since it remains a part of the overall remedy for groundwater, the continued operation of the existing groundwater treatment system will be included under each of the remedial alternatives evaluated herein. Accordingly, the RAOs established for this evaluation are the following:

- Restore the bedrock aquifer to its most beneficial use (i.e., as a source of potable water), and restore it as a natural resource.
- Eliminate further off-MRIP Property contaminated bedrock groundwater migration.

# SUMMARY OF REMEDIAL ALTERNATIVES FOR FAR-FIELD GROUNDWATER

CERCLA requires that each selected site remedy be protective of human health and the environment, be cost effective, comply with ARARs, and utilize permanent solutions and alternative treatment technologies and resource recovery alternatives to the maximum extent practicable. In addition, the statute includes a preference for the use of treatment as a principal element for the reduction of toxicity, mobility, or volume of the hazardous substances.

The alternatives for addressing groundwater contamination are provided below and are identified as GW-1, GW-2, and GW-3. Consistent with EPA guidance documents concerning ROD Amendments, the components of the original remedy proposed for amendment have been updated for cost and are compared to a new preferred alternative which was developed based upon existing Site circumstances. For all alternatives, the near-field pumping and

treatment system will continue to operate. Additionally, each alternative assumes that compliance with local regulations requiring property owners within the High Falls Water District to receive their domestic water supply from the High Falls Water Supply System will continue to be employed, preventing future use of the bedrock aquifer in the impacted or threatened area. The groundwater remedial alternatives are:

# Alternative GW-1: No Further Action

The Superfund program requires that the "No Further Action" alternative be considered as a baseline for comparison with the other alternatives.

Under this alternative, EPA would take no further action within the far-field plume to prevent migration of or exposure to groundwater contamination. While the operation of the current near-field groundwater extraction and treatment system would be continued, the groundwater monitoring program would be discontinued. As a result, EPA would be unable to determine if contaminants were migrating within groundwater or from groundwater to surface water or the extent to which natural attenuation was occurring. EPA would also be unable to assess source contaminant elimination beyond the evaluation of information inherent in operating the existing system.

Capital Cost	\$0
O & M Cost	\$375,360 near-field system O&M
Present Worth Cost	\$4.7 million
Construction Time	Not Applicable
Duration	Not Applicable

Because this alternative would result in contaminants remaining on-Site above levels that allow for unlimited use and unrestricted exposure, CERCLA requires that the Site be reviewed at least once every five years.

# Alternative GW-2: Groundwater Extraction and Treatment / Long Term Monitoring

Under this alternative, the far-field component of the groundwater remedy established in the ROD would be implemented, specifically the installation of a second groundwater extraction and treatment system off the MRIP Property. The system's design would be similar to the existing groundwater extraction and treatment system, and would include a long-term monitoring component. The continued operation of the existing groundwater extraction and treatment system would control and remediate groundwater in the vicinity of the MRIP Property. This remedy would result in achievement of an unlimited use and unrestricted exposure scenario. Achievement of this result would require longer than five years. In accordance with CERCLA, a remedy review would be conducted at least every five years until such time that the Site allows for unlimited use and unrestricted exposure.

Cleanup levels would be based on Federal and NYS MCLs. The extraction wells would be designed to operate at an optimal rate to collect contaminated groundwater, intercept the contaminant plume, and prevent any potential migration downgradient. For the purposes of conceptually identifying the number of wells, pumping rates, and well locations, the same assumptions made in the ROD (based on groundwater modeling performed during the FS) were assumed, specifically three wells pumping at a rate of 40 gallons per minute (gpm) each for approximately 30 years, to effectively capture the contaminants in the interior of the plume. Optimal design parameters and a more refined estimate of the time required to remediate the aguifer would be developed during the remedial design phase.

Contaminated groundwater would be pumped from the extraction wells to an air stripper for VOC removal. Pretreatment of the groundwater would be necessary to remove conventional contaminants such as iron and manganese (which may foul treatment plant equipment) and in order to meet surface water discharge limits. For cost estimating purposes, it was assumed that treated groundwater for the new groundwater treatment plant would be discharged to the Rondout Creek via a gravity discharge line. Effluent criteria would be based on State regulatory standards under the State Pollutant Discharge Elimination System (SPDES) program and obtained from NYSDEC. The treatment process would produce precipitate, which would be thickened and disposed of off-Site periodically following pre-disposal characterization; for cost estimating purposes, it was assumed that this precipitate would be disposed of as non-hazardous waste at a local landfill.

Capital Cost	\$5.44 million
O & M Cost (annual)	\$375,360 near-field system O&M \$375,360 far-field system O&M \$241,088/yr LTM years 1-5 \$222,240/yr LTM years 6-10 \$164,096/yr LTM years 11-30
Present Worth Cost	\$17.4 million
Construction Time	12 months
Duration	30 years

Long-term groundwater monitoring (as described for GW-3) would be conducted during the active remediation phase to assess the effectiveness of the groundwater extraction and treatment system. Periodic evaluations of the groundwater monitoring data would be used to evaluate the continued operation of the groundwater extraction and treatment systems. During the implementation of the remedy, the appropriateness of the monitoring well network with respect to the plume would be assessed as the plume is further refined. Potential modifications to the network would include the abandonment and/or installation of

monitoring wells as necessary to support the selected remedy. In addition, periodic monitoring of the subslab ventilation system within the MRIP building would be performed to evaluate the effectiveness of the system. This evaluation would be conducted during the annual groundwater monitoring event, at a minimum.

# Alternative GW-3: MNA/Long-Term Monitoring

Under this alternative, VOCs within the far-field plume would be allowed to attenuate via naturally occurring processes within and along the perimeter of the farfield plume. The continued operation of the existing groundwater extraction and treatment system would control and remediate aroundwater in the vicinity of the MRIP Property. A long-term groundwater monitoring and data evaluation program would be implemented to monitor the groundwater contaminant concentrations and reduction of VOC concentrations over time and to confirm that the remedy remains protective. Cleanup levels would be based on Federal and NYS MCLs; these levels are estimated to be achieved in approximately 30 years. In addition, periodic monitoring of the sub-slab ventilation system within the MRIP building would be performed to evaluate the effectiveness of the system. This evaluation would be conducted during the annual groundwater monitoring event, at a minimum.

Capital Cost	\$12,720
O & M Cost (annual)	\$375,360 near-field system O&M \$241,088/yr LTM years 1-5 \$222,240/yr LTM years 6-10 \$164,096/yr LTM years 11-30
Present Worth Cost	\$7.23 million
Construction Time	Not Applicable
Duration	30 years

Long-term monitoring would include periodic recording of groundwater elevations, recording of water quality parameters, and collection and analysis of groundwater samples to provide an indication of the movement of the contaminants or of the progress of remedial activities. Quarterly monitoring would include wells representative of background conditions, horizontal and vertical plume boundaries, and the center of the plume, and include sentinel wells along the established perimeter. The annual monitoring event would include additional wells in the monitoring well network to refine contaminant distribution within the plume and to confirm conditions beyond the plume boundary.

Table 1 presents the monitoring wells expected to be initially included in the long-term monitoring well network. During the implementation of the remedy, the appropriateness of the monitoring well network with respect to the plume will continually be evaluated as the plume is further refined. Potential modifications to the network would include the abandonment and/or installation of monitoring wells as necessary to support the selected remedy. Under this alternative, additional monitoring wells would be installed, as necessary, to allow for comprehensive monitoring of the contamination.

This remedy would result in achievement of an unlimited use and unrestricted exposure scenario. Achievement of this result would require longer than five years. In accordance with CERCLA, a remedy review would be conducted at least every five years until such time that the Site allows for unlimited use and unrestricted exposure.

#### WHAT IS MONITORED NATURAL ATTENUATION?

Natural attenuation relies on natural processes to clean up or *attenuate* pollution in soil and groundwater. Natural attenuation occurs at most polluted sites. However, the right conditions must exist underground to clean sites properly. If not, cleanup will not be quick enough or complete enough. Scientists *monitor* or test these conditions to make sure natural attenuation is working. This is called *monitored natural attenuation* or MNA.

#### HOW DOES IT WORK?

When the environment is polluted with chemicals, nature can work in four ways to clean it up:

- Tiny bugs or microbes that live in soil and groundwater use some chemicals for food. When they completely digest the chemicals, they can change them into water and harmless gases. (A *Citizen's Guide to Bioremediation* [EPA 542-F-01-001] describes how microbes work.)
- 2. Chemicals can stick or *sorb* to soil, which holds them in place. This does not clean up the chemicals, but it can keep them from polluting groundwater and leaving the site.
- 3. As pollution moves through soil and groundwater, it can mix with clean water. This reduces or *dilutes* the pollution.
- 4. Some chemicals, like oil and solvents, can *evaporate*, which means they change from liquids to gases within the soil. If these gases escape to the air at the ground surface, sunlight may destroy them.

#### IS IT SAFE?

MNA can be a safe process if used properly. No one has to dig up the pollution, and nothing has to be added to the land or water to clean it up. But MNA is not a "do nothing" way to clean up sites. Regular monitoring is needed to make sure pollution doesn't leave the site. This ensures that people and the environment are protected during cleanup.

# **EVALUATION OF ALTERNATIVES**

In selecting a remedy for a site, EPA considers the factors set forth in CERCLA §121, 42 U.S.C. §9621, by conducting a detailed analysis of the viable remedial alternatives pursuant to the NCP, 40 CFR

§300.430(e)(9) and OSWER Directive 9355.3-01. The detailed analysis consists of an assessment of the individual alternatives against each of nine evaluation criteria and a comparative analysis focusing upon the relative performance of each alternative against those criteria.

- <u>Overall protection of human health and the</u> <u>environment</u> addresses whether or not a remedy provides adequate protection and describes how risks posed through each exposure pathway (based on a reasonable maximum exposure scenario) are eliminated, reduced, or controlled through treatment, engineering controls, or institutional controls.
- <u>Compliance with applicable or relevant and</u> <u>appropriate requirements</u> addresses whether or not a remedy would meet all of the applicable or relevant and appropriate requirements of other federal and state environmental statutes and regulations or provide grounds for invoking a waiver.
- Long-term effectiveness and permanence refer to the ability of a remedy to maintain reliable protection of human health and the environment over time, once cleanup goals have been met. It also addresses the magnitude and effectiveness of the measures that may be required to manage the risk posed by treatment residuals and/or untreated wastes.
- <u>Reduction of toxicity, mobility, or volume through</u> <u>treatment</u> is the anticipated performance of the treatment technologies, with respect to these parameters, a remedy may employ.
- <u>Short-Term effectiveness</u> addresses the period of time needed to achieve protection and any adverse impacts on human health and the environment that may be posed during the construction and implementation period until cleanup goals are achieved.
- <u>Implementability</u> is the technical and administrative feasibility of a remedy, including the availability of materials and services needed to implement a particular option.
- <u>Cost</u> includes estimated capital and O&M costs, and net present-worth costs.
- <u>State acceptance</u> indicates whether, based on its review of the Proposed Plan, the State concurs with, opposes, or has no comment on the preferred remedy at the present time.
- <u>Community acceptance</u> will be assessed in the ROD Amendment, and refers to the public's general response to the alternatives described in the Proposed Plan.

## **Comparative Analysis of Alternatives**

Overall Protection of Human Health and the Environment

GW-1 would not be protective because the future and present use scenarios which assume that the Site

groundwater is utilized as a potable water supply present unacceptable carcinogenic risks. The Site groundwater is not currently being used as a source of drinking water within the water district, but is used currently and will be in the future beyond the Water District. Alternatives GW-2 and GW-3 would be protective of human health and the environment, as contaminant migration beyond the boundaries of the Water District would be restricted by natural attenuation or active treatment. GW-1 would not be protective of human health and the environment and/or achieve ARARs, since it would be unknown if Site contaminants would naturally attenuate or impact downgradient areas in the absence of the long-term groundwater monitoring program. Alternative GW-1 will therefore be eliminated from further discussion within the Comparative Analysis of Alternatives.

#### Compliance with ARARs

For GW-2 and GW-3, ARARs set forth in the ROD would be achieved over time. Compliance with ARARs would be demonstrated through the long-term monitoring program.

Long-Term Effectiveness and Permanence Alternative GW-3 is expected, over the same time period, to provide the same level of long-term effectiveness and permanence as Alternative GW-2. Groundwater modeling conducted during the 1999 FS predicted a groundwater restoration timeframe of approximately 30 years for Alternative GW-2. For Alternative GW-3, monitoring data was evaluated in the MNA Report to produce an estimated aguifer restoration goal for each COC in the groundwater in the vicinity of each monitoring well. The restoration timeframe at each of the monitoring wells ranged from a low of 0.5 years to a high of 56 years, with the average of all COCs at all near-field and far-field locations at less than 30 years. Overall, given the similar average estimated restoration timeframes for both alternatives, EPA believes that Alternative GW-3 would provide similar levels of long-term effectiveness and permanence as Alternative GW-2. The effectiveness of Alternatives GW-2 and GW-3 would be assessed through routine groundwater monitoring and five-year reviews. O&M of the near-field pumpand-treat system under Alternative GW-2 would provide an additional means to monitor removal of contaminants.

## Reduction in Toxicity, Mobility or Volume

Alternative GW-3 would reduce the toxicity, mobility and volume of contaminated groundwater through treatment, with additional reduction of toxicity and volume within the far-field plume due to natural mechanisms. Alternative GW-2 would reduce the toxicity, mobility, and volume of contaminated groundwater through treatment to a greater extent than GW-3.

# Short-Term Effectiveness

Alternative GW-3 presents virtually no short-term impacts to human health and the environment since no construction is involved. The construction activities required to implement Alternative GW-2 would potentially result in greater short-term exposure to contaminants by workers who would come into contact with the treatment system; however, proper health and safety precautions would minimize this occurrence. While efforts would be made to minimize the impacts, some disturbances would result from disruption of traffic, excavation activities on public and private land, noise, and fugitive dust emissions. The technologies included under Alternative GW-2 and under Alternative GW-3 are proven and reliable.

#### **Implementability**

Alternatives GW-2 and GW-3 are available and can be implemented. Alternative GW-3 does not involve any significant construction and, consequently, is much easier to implement. Alternative GW-3 only requires a monitoring program utilizing monitoring wells and the continued O&M of the operational system. Alternative GW-2 would be much more complex since it would also involve construction and piping installation in the short-term and long-term O&M of an additional treatment system.

## <u>Cost</u>

Estimated capital, annual O&M (including monitoring), and present-worth costs for each of the alternatives are presented in the Cost Comparison Table.

Cost Comparison Tab	le	
Alternative	GW-2	GW-3
Capital Cost	\$5.44 million	\$12,720
Annual Costs		
Systems O&M		
near-field system	\$375,360	\$375,360
far-field system	\$375,360	\$0
Long-term Monitoring		
years 0-5	\$241,088	\$241,088
years 6-10	\$222,240	\$222,240
years 11-25	\$164,096	\$164,096
Present Worth Cost	\$17.4 million	\$7.23 million

According to the capital cost, O&M cost and present worth cost estimates, GW-3 has the lowest cost.

## State Acceptance

NYSDEC and NYSDOH concur with the preferred remedy.

## Community Acceptance

Community acceptance of the preferred remedy will be assessed in the ROD Amendment following review of the public comments received on this Post-Decision Proposed Plan.

## PREFERRED ALTERNATIVE

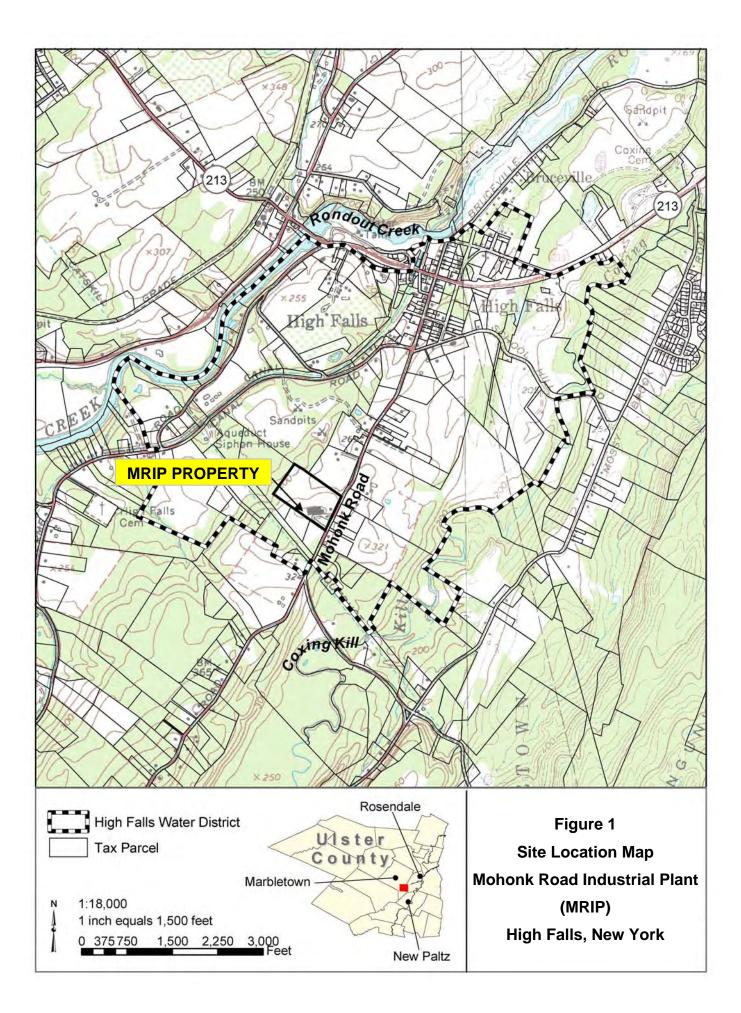
Based upon an evaluation of the various alternatives, EPA recommends Alternative GW-3, MNA/Long-Term Monitoring, as the preferred alternative. Alternative GW-3 provides the best balance of trade-offs among the three alternatives with respect to the evaluation criteria. EPA believes that the preferred alternative will be protective of human health and the environment, will comply with ARARs, and will be cost-effective.

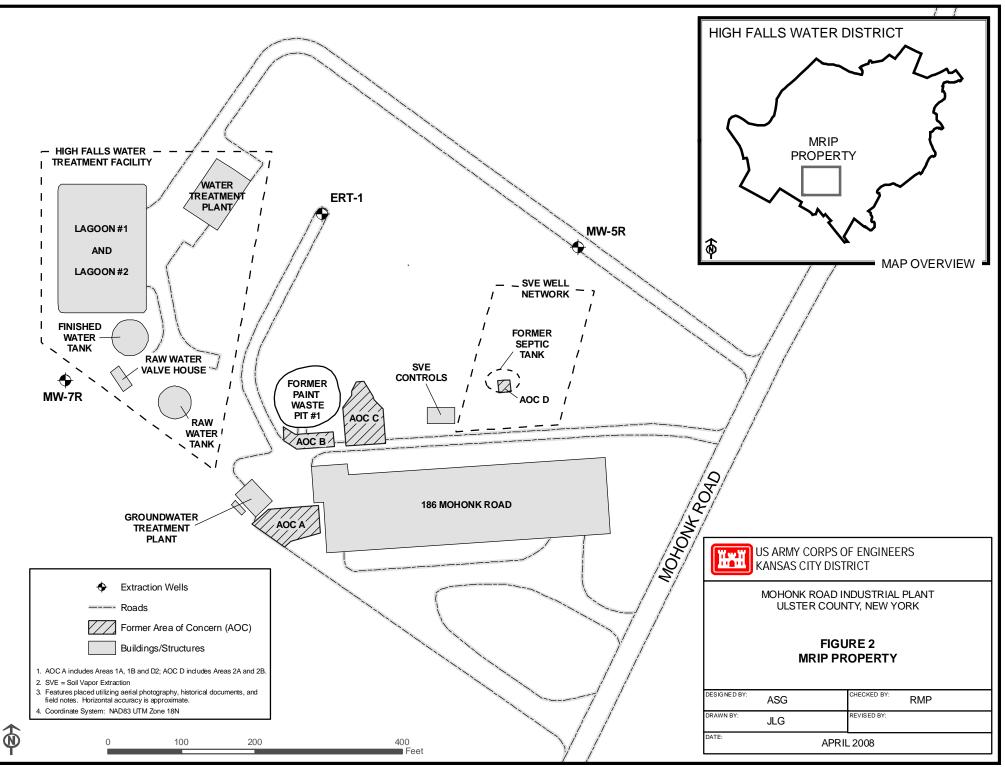
## REFERENCES

EPA. 2000. Record of Decision, MRIP, EPA ID: NYD986950012, OU1, High Falls, New York. March 31.

Sevenson Environmental Services, Inc. 2008. Quarterly O&M Report, July to September 2007, MRIP Superfund Site. January 15.

USACE. 2008. Final MNA Assessment, MRIP Superfund Site. April 11.





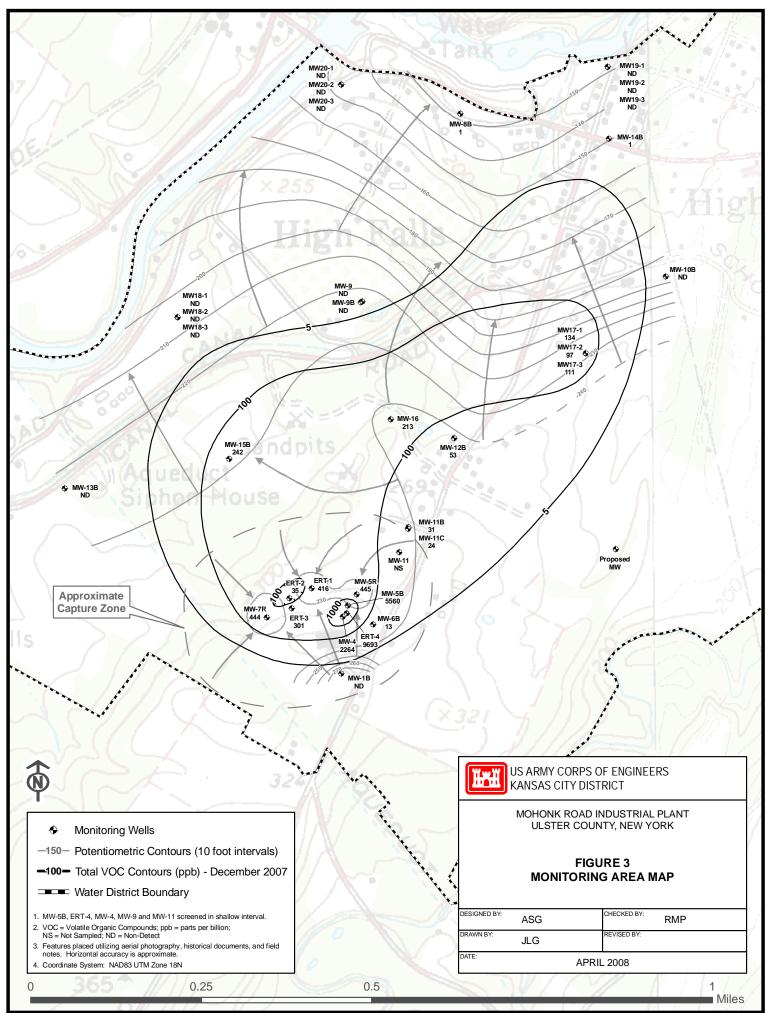
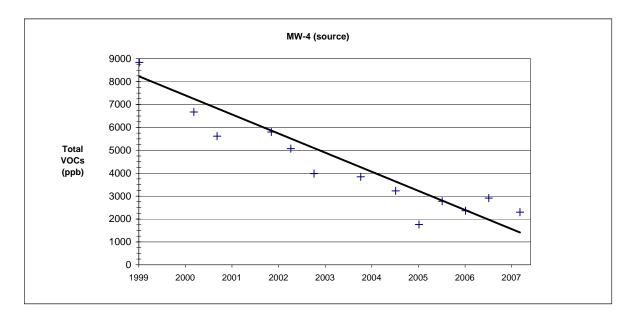
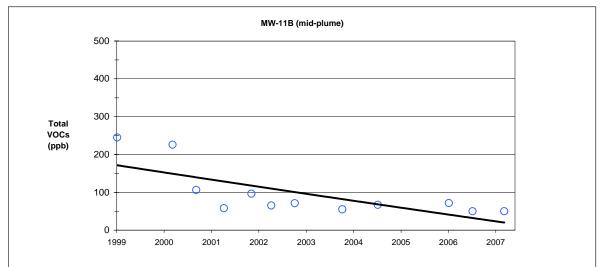
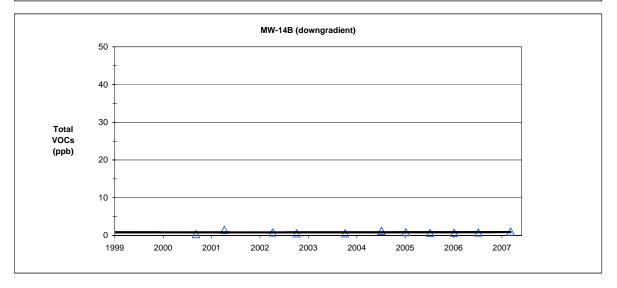


Figure 4 Total VOC Concentration Trends Mohonk Road Industrial Plant Site







#### Table 1 Proposed Long-term Monitoring Well Network **Mohonk Road Industrial Plant High Falls, New York**

Monitoring		Analyti	cal Results for	COCs <sup>1</sup>	-	Lor	Projected	oring
Well	1,1-DCE	1,1-DCA	1,1,1-TCA	TCE	1,4-Dioxane		Frequency <sup>2</sup>	-
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	yrs	yrs 6 - 10	yrs
MCLs	5	5	5	5	50	0 - 5	6 - 10	11 - 30
Perimeter Well								
MW-8B	0.22J	0.37J	0.5U	0.5U	2U	Qtr	NS	NS
MW-9	0.5U	0.5U	0.5U	0.5U	NA	C <sup>4</sup>	C <sup>4</sup>	C <sup>4</sup>
MW-9B	0.5U	0.5U	0.48J	0.5U	2.1U	Qtr	Qtr	Ann
MW-10B	0.5U	0.5U	0.5U	0.5U	2.1U	Qtr	Qtr	Ann
MW-13B <sup>3</sup>	0.5U	0.5U	0.5U	0.5U	2.1U	Qtr	Ann	Ann
MW-14B	0.3J	0.76	0.5U	0.5U	2.1U	Qtr	Qtr	Ann
MW-18-1	0.5U	0.32J	0.5U	0.5U	2.1U	Qtr	Qtr	Ann
MW-18-2	0.5U	0.5U	0.5U	0.5U	2U	Qtr	Qtr	Ann
MW-18-3	0.5U	0.3J	0.5U	0.5U	2.1U	Qtr	Qtr	Ann
MW-19-1	0.5U	0.5U	0.5U	0.5U	2U	Ann	Ann	Ann
MW-19-2 MW-19-3	0.5U 0.5U	0.5U 0.5U	0.5U 0.5U	0.5U 0.5U	2.1U 2.1U	Ann Ann	Ann Ann	Ann Ann
MW-20-1	0.5U 0.5U	0.50	0.5U	0.5U 0.5U	2.10 2U	Ann	NS	NS
MW-20-2	0.50	0.50	0.5U	0.50			NS	NS
MW-20-2	0.5U 0.5U	0.50	0.5U	0.50	2.1U 2U	Ann A	NS	NS
New Well (to-b		0.50	0.50	0.50	20	A	113	113
interval-1	NS	NS	NS	NS	NS	Qtr	Qtr	Ann
interval-2	NS	NS	NS	NS	NS	Qtr	Qtr	Ann
interval-3	NS	NS	NS	NS	NS	Qtr	Qtr	Ann
Plume Wells	110	NO	145	110	NO	QII	Qti	700
ERT-2	5	2.4	25	1.9	2.2U	Ann	Ann	Ann
ERT-3	32	18	210	39	7.6	Ann	Ann	Ann
MW-11	NS	NS	NS	NS	NS	C <sup>4</sup>	C <sup>4</sup>	C <sup>4</sup>
MW-11B	19J	8.3	19	3.5	20	Qtr	Ann	Ann
MW-11C	8.2	2	19	1.7	2.1U	Qtr	Ann	Ann
MW-12B	15	6.2	26	4.3	2.10	Qtr	Qtr	Qtr
MW-12B MW-15B	43	25	170	3.5	4	Qtr	Qtr	Qtr
MW-16D MW-16	53	11	140	8.8	5.1J	Qtr	Qtr	Qtr
MW-17-1	37	12	77	6.4	4.3	Qtr	Qtr	Qtr
MW-17-2	26	15	49	5.3	4.8	Qtr	Qtr	Qtr
MW-17-3	30	16	56	0.55	4.7	Qtr	Qtr	Qtr
MW-6B	1.5	0.33J	11	0.5U	2.1U	Qtr	Qtr	Qtr
MW-7B	NS	NS	NS	NS	NS	Ce	C <sub>6</sub>	C <sub>6</sub>
Former Septic	Tank Area W	ells			-1		1	
ERT-4	850	110J	8400	300	4.7	Qtr	Qtr	Qtr
MW-4	160	47J	1100	990	3.3	Ann	Ann	Ann
MW-5B	560	15	4600	380	4	Ann	Ann	Ann
Extraction We								
ERT-1	32	49	330	2.1	2.1U	Qtr	Qtr	Qtr
MW-5R	36	55	350	2.1	2.1U	Qtr	Qtr	Qtr
MW-7R	37	52	350	2	2	Qtr	Qtr	Qtr
Background W								-
MW-1B	0.5U	0.5U	0.5U	0.5U	2U	Qtr	Qtr	Qtr

Notes:

1. Environmental samples collected December 14, 2007.

2. 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.

3. Artesian well.

4. Sampling not currently projected at this existing network well.

5. MW-1, -2, -3, -5, and -6, formerly part of the historic monitoring network, have since been replaced, removed, abandoned, or destroyed.

6. This well will be installed in the near future and is not considered a component of the alternatives evaluated in this Post-Decision Proposed Plan.

Abbreviations:

1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
1,1,1-TCA	1,1,1-trichloroethane
Ann	annually (1 time/year)
С	contingent sampling only
COCs	Contaminants of Concern
ft amsl	feet above mean sea level

- J estimated value
- MCL Maximum Contaminant Levels
- NA not available
- NR not recorded
- NS not sampled
- Qtr quarterly (4 times/year)
- Semi semi-annually (2 times/year)
- TCE trichloroethene
  - U not detected above
  - the reported value
- µg/L micrograms per liter

- yrs years

RESPONSIVENESS SUMMARY Attachment B - Public Notice, Proposed Plan Summary



# EPA Proposes Changes to Cleanup Plan for the Mohonk Road Industrial Plant Site

In 2000, the U.S. Environmental Protection Agency (EPA) selected a cleanup plan for the Mohonk Road Industrial Plant site in Ulster County, NY. EPA has completed all components of the 2000 cleanup plan, including construction of a new public water supply system and removal of contaminated soils, with the exception of installation of a groundwater extraction and treatment system to address the portion of the groundwater plume beyond the Site Property ("far-field"). EPA installed a groundwater extraction and cleanup system to address the contaminant plume at the Site Property but no longer believes that installation of the "farfield plume" extraction and treatment system is necessary to protect human health and the environment. Through a Post-Decision Proposed Plan, EPA is proposing the monitored natural attenuation remedy. EPA invites you to attend a public meeting to discuss the proposed change to the cleanup plan that was selected in 2000, as well as the other alternatives considered. The public meeting will be held on:

> Thursday, July 17, 2008 at 7:00 P.M in the High Falls Fire House on Fire House Road Town of Marbletown, New York

**EPA** is taking written comments on the Mohonk Road Industrial Plant Site from July 7, 2008 through August 6, 2008. The Post-Decision Proposed Plan and other site documents are available at the Stone Ridge or Rosendale Public Libraries. The Proposed Plan is also available for review on-line at www.epa.gov/region2/superfund/npl/mohonkroad.

If you have any questions, please contact David Kluesner, EPA's community involvement coordinator, at 212-637-3653 or tollfree at 800-346-5009.

RESPONSIVENESS SUMMARY Attachment C - Letters Submitted During the Public Comment Period From: gamoone@aol.com
Sent: 07/16/2008 11:46 AM
To: Dave Kluesner/R2/USEPA/US@EPA
Subject: Mohonk Road Concerns

I received the notice regarding the meeting for the Mohonk Road Superfund Site Cleanup. I will be unable to attend the meeting due to a teaching assignment out of the area.

However, I would appreciate if you would address an ongoing concern of the residents of the Berme Road section of the new water district. Our yards and basements continue to be flooded since the operation of the water district. We have attempted to work with Terry and Sal to address these matters, with only limited success.

Currently the water district is flushing water on a daily basis into the canal. This in turn is flooding our yards, creating stagnant pools of water which are rapidly becoming mosquito breeding grounds, as well as preventing maintenance of the land. Additionally trees which flourished in theses yards are showing signs of stress, and begining to die off.

Your attention to this matter and the ongoing concern of the citizens of the Water District would be greatly appreciated. You may contact me at this e-mail address. I am in regular contact with the adjoining neighbors, and will be glad to share your responses with them.

Thank you, Grace Moone Homeowner High Falls Water District From: "Michael Stiller" michael@michaelstiller.com
Sent: 07/22/2008 08:53 AM
To: Salvatore Badalamenti/R2/USEPA/US@EPA
Subject: High Falls Water

Hello Sal,

Thanks again for your time and all the information you brought to the recent meeting at the High Falls firehouse.

I just wanted to follow up with you and reiterate that Jennifer and I would be very interested in learning more about how the EPA came to the conclusion that erecting a second pump and treat plant would have no effect on the speed of the VOC abatement in the High Falls ground water.

We're also curious to know which factors have changed since the first ROD was published to make the EPA want to omit this element of the original plan. As I mentioned in the meeting, we'd also like to know if the two models you described were mutually exclusive as to their components or if the model that included the second treatment plant, showing no increased benefit over the process of MNA, was created with consideration for this natural process which would occur in any case.

Thanks for your attention to these concerns.

Best Regards, Michael Stiller Principal Designer Michael Stiller Design 116 School Hill Road High Falls, NY 12440 voice: 212-473-2629 fax: 215-935-1897 www.michaelstiller.com RESPONSIVENESS SUMMARY Attachment D - Transcript of the July 17, 2008 Public Meeting

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1		
2		
3	MOHONK ROAD INDUSTRIAL PLANT	
4	SUPERFUND SITE	
5	PROPOSED CHANGE TO CLEANUP PLAN	
6	High Falls, Ulster County, New York	
7	Public Meeting	
8		
9		
10	7:00 p.m. July 17, 2008	
11	1 Firehouse Rd	
12	High Falls, New York	
13	PRESENT:	
14	DAVID KLUESNER, EPA Community Involvement Coordinator	
15	SAL BADALAMENTI, EPA	
16	Project Manager	
17	ANGELA CARPENTER, EPA	
18	MICHAEL SIVAK, EPA	
19	AMY DARPINIAN, USACE Project Chemist	
20		
21	DREW SMITH, USACE misidentification; the correct affiliation FAX S NAVPATTI	
22	FAY S. NAVRATIL Ulster County Department of Health	<u> </u>
23	Reported by: KAREN SCHMIEDER, CSR, RDR	

1MOHONK ROAD SUPERFUND SITE1MOHONK ROAD SUPERFUND SITE2MR. KLUESNER: We are going2questions and want further3to get started. It's a little after3clarification on what we are proposing47:00.4to do or any other types of questions5Welcome. My name is David5about the various work that you've6Kluesner; I'm with EPA, our Public6probably seen going on in this7Affairs Office out of Manhattan.7community over the past year and a8I want to thank you all for8lot has been done with the High Falls9coming out tonight. We have about 209Water District and the whole10or so minutes of presentation tonight,10construction project. So I think we11and then we'll turn it over to11are really quite far down the road in12questions and answers. Really, that's12terms of the overall cleanup of this13why we are here.13site. But we want to come back and14We are proposing a change in14periodically come back and hear your162000. We've been here a number of16answer those questions.17times since, prior to the cleanup plan17So first I want to introduce18being selected and then afterwards.18Karen Schmieder. She's a19And it really is a joy to come here19stenographer, and she's recording the20each and every time to have these <th>ge 4</th>	ge 4
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23 great community to work with. 23 proposed change in the cleanup plan	
Page 3	
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1 MOHONK ROAD SUPERFUND SITE 1 MOHONK ROAD SUPERFUND SITE	
2 We are proposing a change in 2 that we transcribe the results of the	
3 the plan, and we have a lot of folks 3 meeting. And also this helps us	
4 here that can help answer the 4 capture the questions and comments	
5 questions and explain what we are 5 that you have so that we can prepare	
6 proposing. 6 an adequate Responsiveness Summary to	
7 We are also in the middle of 7 those before we actually select a	
8 a public comment period that runs 8 cleanup plan. So after the	
9 through August 6th. And then EPA will 9 presentation, if you have questions	
10 evaluate those comments, prepare what 10 and comments, I'll just ask that you	
11 we call a Responsiveness Summary and 11 state your name, and I might ask for	
12 include that in our final cleanup plan 12 you to speak a little bit louder, so	
13 decision as a result of your input 13 Karen can accurately capture your	
14 that you provide us tonight and as a 14 questions and comments.	
15 result of any written comments that we 15 I will turned it over to Sal	
16 receive during the comment period. 16 Badalamenti who will introduce the	
5 1	
17 So we are here tonight to 17 rest of the folks here from the Corps	
18 share with you, sort of elaborate on 18 tonight.	
19 what we provided in the fact sheet. 19 Thank you, Sal.	
20 There was a proposed plan that's 20 MR. BADALAMENTI: All	
21 available on the Internet, and we also 21 right. I am Sal Badalamenti, the	
22 have hard copies in the back of the 22 Project Manager on the project. I've	
23room. To the extent you have23been here many years, and I'm familiar	

2 (Pages 2 to 5)

1			Page 8
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	with many of you. We also have Angela	2	been completed. Everybody has been
3	Carpenter; she's the Chief of the	3	hooked up.
4	southern New York section. Drew Smith	4	In addition, we excavated
5	with the Corps of Engineers, he	5	contaminated soils around the site.
6	oversaw the construction of the	6	That was early on in 2000, which were
7	drinking water plant and oversaw the	7	the original source of the problem,
8	activities of the contractor on a	8	around a septic tank where materials
9	day-to-day basis. He was essentially	9	were dumped. The septic tank leaked.
10	our eyes and ears.	10	The septic tank was removed, and
11	Bill Bennett from New York	11	surrounding soils were also excavated
12	State DEC. He's the New York State	12	and hauled off-site.
13	project manager. Fay Navratil, she's	13	We have constructed a
14	with the New York State Department of	14	groundwater treatment system, and that
15	Health.	15	has been operating since 2000, 24
16	We have Michael Sivak, who	16	hours a day. We had been operating
17	is the Risk Assessor on this project.	17	that at a lesser rate than we were
18	He carefully assessed the risks and	18	wishing to, because whenever we
19	looked at the chemical data.	19	started increasing the pumping rates,
20	And we have Amy Darpinian	20	we started affecting residential
20	here with the Corps of Engineers, and	20	wells. So once all the residential
22	1 8	22	wells were disconnected in last
22	she's been on the project longer than I have. And she's familiar with all	22	
23	Thave. And she's faithing with an	23	November, we have now increased the
	Page	7	Page 9
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	the chemical data and has helped	2	pumping rates on it and are removing a
3	manage our database of all the testing	3	lot more chemicals from the ground
4	that's gone on over the years. When	4	since that time.
5	somebody would give me a call, I lost	5	We have been conducting a
6	my results, Sal, I know you tested my	6	long-term monitoring program where we
7	well three times, do you have the	7	have been testing wells, testing how
8	results. Well, I went to Amy, and Amy	8	far the plume has gotten, the plume of
9	got us those results.	9	contamination, and what's been
10	Who am I missing? Anybody	10	changing along with that. And there
10	else? Terry Johnson, with the High	10	were institutional controls
12	Falls Water District. We have worked	12	
			implemented which require everybody
13	together a long time. And he's the	13	within the water district to obtain
14	superintendent of the facility.	14	their potable drinking water from the
15	So with that, we are here	15	water district. So that was as a
16	tonight because in 2000 we had a	16	result of some ordinances passed by
17	Record of Decision, and we selected a	17	both the towns of Rosendale and
18	remedy for the site. We have done a	18	Marbletown.
19	lot since the year 2000. It goes	19	The last thing that was
20	beyond the drinking water plant. The	20	required was a separate groundwater
21	2000 law required construction and	21	pumping and treatment system that
	operation of a new public water supply	22	would address portions of the plume
22	operation of a new public water suppry	22	
22 23	system, which as of November '07 has	23	that were further away from the source

3 (Pages 6 to 9)

1	Page 10 MOHONK ROAD SUPERFUND SITE	1	Page 12 MOHONK ROAD SUPERFUND SITE
2	of the problem. Tonight's discussion	1 2	plant which is extracting groundwater
3	is primarily focused on that and why	3	from three extraction wells.
4	it has not been built and why we no	4	
	longer believe it needs to be built.	5	[Pointing] one here, one here and that one. These areas here, areas of
5	In addition to that work		
6 7		6 7	concern A, B, C and D, are where we excavated soils and removed almost
	that was required by the Record of		
8 9	Decision, we did conduct a vapor	8 9	2,000 cubic yards of soil and
	intrusion investigation to many homes	9 10	displaced them and relocated them off-site.
10	in the area. I think we tested		
11	approximately 38 homes, as well as	11	In this area here, this is
12	nine commercial and other building	12	where the original septic tank causing
13	establishments to see if any vapors	13	the problem originated. We have now
14	were evaporating from the ground and	14	installed in this area a vapor
15	coming into people's homes. And I am	15	extraction system to also help extract
16	glad to say that for all 38 homes that	16	vapors in the ground, above the
17	were tested, there was not any vapors	17	groundwater. Hopefully that will also
18	below the homes, and as a result of	18	accelerate the source removal and make
19	that we felt that there was no need to	19	the groundwater problem go away
20	look further, because we were not	20	sooner.
21	going to find a problem.	21	This is some of the
22	We theorized that the reason	22	excavation of soils. This was some of
23	why that was occurring is that there	23	the paint sludges that we found way
	Page 11		Page 13
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	is a purged water layer of clean water	2	back in 2000. This is the groundwater
3	above the contamination zone, and that	3	pump and treat building. This is the
4	is blocking vapors from coming up into	4	interior of that building. These are
5	the homes.	5	air strippers. We have a vapor phased
6	We did find a problem up at	6	carbon system to absorb anything
7	the commercial building where the	7	that's extracted from the water there.
8	problem had originated from, and as a	8	And then we have another polishing
9	result of that we did install a vapor	9	system with activated carbon for the
10	mitigation system in the commercial	10	aqueous phase, which is not depicted
11	building. We have six systems, and	11	here.
12	that has corrected the problem up	12	This is the soil vapor
13	there for the most part.	13	extraction system. This is a vacuum
14	As I mentioned earlier, we	14	system here. These are carbon units.
15	have increased the pumping rate at the	15	And these are the extraction wells
16	groundwater pumping treatment plant,	16	that we have installed. There are 18
17	which is accelerating the cleanup.	17	wells up there that are doing a good
18	I have some photographs of	18	job extracting additional vapors.
19	some of this. This is a layout of the	19	MR. PAT MC DONOUGH: Hey,
20	entire area. This is the commercial	20	Sal, can I ask a question? I'm Pat
21	building. This is the new drinking	21	McDonough, Supervisor in the Town of
			<b>o</b>
22	water plant that's been constructed		Rosendale.
22 23	water plant that's been constructed. This is our groundwater pump and treat	22 23	Rosendale. I am just curious about the

1			
1.	Page 14		Page 16
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	vapor extraction. You did a fairly	2	whether or not monitored natural
3	large area where the original septic	3	attenuation might be an appropriate
4	tank was and doing work there. Was it	4	remedy as opposed to building a second
5	not necessary to do those A, B and C	5	groundwater treatment system. And
6	areas that you identified?	6	that evaluation was completed, and I'm
7	MR. BADALAMENTI:	7	going to let Amy discuss that
8	Specifically right on those areas?	8	evaluation.
9	MR. MC DONOUGH: Or around	9	MS. DARPINIAN: Since
10	them like you did around D.	10	monitored natural attenuation isn't a
11	MR. BADALAMENTI: Well, we	11	term that you hear all the time, I'm
12	did encompass the area where the	12	first going to give kind of a general
13	original septic tank was, and we	13	description of what it is and how we
14	think, based upon the groundwater	14	identify it; the factors that we look
15	monitoring, some of the source still	15	for to see if it is even occurring at
16	remains. The other areas further	16	a site. And then I'll apply it
17	away	17	directly to the Mohonk site so you can
18	MR. MC DONOUGH: It wasn't	18	hopefully see some of the evidence and
19	necessary, there was no vapor?	19	concur with our agreement.
20	MR. BADALAMENTI: Correct.	20	The phrase monitored natural
21	MR. MC DONOUGH: Okay.	21	attenuation, MNA, refers to natural
22	MR. BADALAMENTI: These are	22	processes that clean up and attenuate
23	the vapor extraction systems we put on	23	the pollution found in soil and
1	Page 15		Page 17
1	Page 15 MOHONK ROAD SUPERFUND SITE	1	Page 17 MOHONK ROAD SUPERFUND SITE
1 2		1 2	
	MOHONK ROAD SUPERFUND SITE		MOHONK ROAD SUPERFUND SITE
2	MOHONK ROAD SUPERFUND SITE the commercial building. It's pipe that goes under the slab, sucks vapors out. And this is the fan, exhausts	2 3 4	MOHONK ROAD SUPERFUND SITE groundwater. The right conditions
2 3	MOHONK ROAD SUPERFUND SITE the commercial building. It's pipe that goes under the slab, sucks vapors	2 3	MOHONK ROAD SUPERFUND SITE groundwater. The right conditions need to exist underground to clean a
2 3 4	MOHONK ROAD SUPERFUND SITE the commercial building. It's pipe that goes under the slab, sucks vapors out. And this is the fan, exhausts	2 3 4	MOHONK ROAD SUPERFUND SITE groundwater. The right conditions need to exist underground to clean a site up properly. When we say
2 3 4 5	MOHONK ROAD SUPERFUND SITE the commercial building. It's pipe that goes under the slab, sucks vapors out. And this is the fan, exhausts them outside the building.	2 3 4 5	MOHONK ROAD SUPERFUND SITE groundwater. The right conditions need to exist underground to clean a site up properly. When we say properly, it has to be fast enough. I
2 3 4 5 6 7 8	MOHONK ROAD SUPERFUND SITE the commercial building. It's pipe that goes under the slab, sucks vapors out. And this is the fan, exhausts them outside the building. Of course, some of you have taken a tour of this. This is the drinking water plant that was	2 3 4 5 6	MOHONK ROAD SUPERFUND SITE groundwater. The right conditions need to exist underground to clean a site up properly. When we say properly, it has to be fast enough. I don't think anyone here wants the site to be dirty forever, so it needs to be fast enough, and it needs to be
2 3 4 5 6 7	MOHONK ROAD SUPERFUND SITE the commercial building. It's pipe that goes under the slab, sucks vapors out. And this is the fan, exhausts them outside the building. Of course, some of you have taken a tour of this. This is the	2 3 4 5 6 7	MOHONK ROAD SUPERFUND SITE groundwater. The right conditions need to exist underground to clean a site up properly. When we say properly, it has to be fast enough. I don't think anyone here wants the site to be dirty forever, so it needs to be fast enough, and it needs to be complete enough. We need to have the
2 3 4 5 6 7 8	MOHONK ROAD SUPERFUND SITE the commercial building. It's pipe that goes under the slab, sucks vapors out. And this is the fan, exhausts them outside the building. Of course, some of you have taken a tour of this. This is the drinking water plant that was	2 3 4 5 6 7 8	MOHONK ROAD SUPERFUND SITE groundwater. The right conditions need to exist underground to clean a site up properly. When we say properly, it has to be fast enough. I don't think anyone here wants the site to be dirty forever, so it needs to be fast enough, and it needs to be
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1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	having any other questions about how	2	groundwater. You heard Sal discuss
3	we evaluate monitored natural	3	about the fact that we did a lot of
4	attenuation, it is called the Citizens	4	soil excavation. We have been pumping
5	Guide, and it is an EPA document. I	5	the groundwater for eight years now.
6	would invite you to pick one up, if	6	We have installed a soil vapor
7	you haven't yet. Pick one up on your	7	extraction system. We have a vapor
8	way out.	8	mitigation system installed at the
9	What that document discusses	9	Mohonk Arts Building. Those are all
10	is the various ways that nature can	10	ways that address the main source of
11	work to help clean up the environment.	11	the contamination.
12	The first is that natural bacteria are	12	The other part of MNA is the
13	always present in the soil and	13	soil and groundwater, In this case the
14	groundwater, and some of them are	14	groundwater site, have to be sampled
15	capable of actually using chemical	15	regularly to make sure they are being
16	pollution as their source of food.	16	cleaned up.
17	, And when they eat the chemical	17	So on my last general slide,
18	contaminants, they are able to digest	18	MNA is a safe process if you monitor
19	the chemicals and change them into	19	it properly. It is not a "do nothing"
20	water and harmless gases. Another	20	way to clean up sites. I know this
21	form or way that natural processes	21	for a fact, because my sampling crew
22	occur is that chemicals can stick or	22	started work on Monday, and they are
23	sorb to soil which holds them in	23	working the next two weeks collecting
			5 5
	Page	9	Page 21
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
1 2	MOHONK ROAD SUPERFUND SITE place. Now, this won't clean up the		-
		1	MOHONK ROAD SUPERFUND SITE
2	place. Now, this won't clean up the	1 2	MOHONK ROAD SUPERFUND SITE samples from the monitoring wells we
2 3	place. Now, this won't clean up the chemicals, but it will keep them from	1 2 3	MOHONK ROAD SUPERFUND SITE samples from the monitoring wells we have throughout your town. They are
2 3 4	place. Now, this won't clean up the chemicals, but it will keep them from moving off the site. As pollution,	1 2 3 4	MOHONK ROAD SUPERFUND SITE samples from the monitoring wells we have throughout your town. They are taking those samples to ensure that we
2 3 4 5	place. Now, this won't clean up the chemicals, but it will keep them from moving off the site. As pollution, low levels of pollution can move with	1 2 3 4 5	MOHONK ROAD SUPERFUND SITE samples from the monitoring wells we have throughout your town. They are taking those samples to ensure that we know where the groundwater
2 3 4 5 6	place. Now, this won't clean up the chemicals, but it will keep them from moving off the site. As pollution, low levels of pollution can move with the groundwater, it will mix up with	1 2 3 4 5 6	MOHONK ROAD SUPERFUND SITE samples from the monitoring wells we have throughout your town. They are taking those samples to ensure that we know where the groundwater contamination is, and that it is not
2 3 4 5 6 7	place. Now, this won't clean up the chemicals, but it will keep them from moving off the site. As pollution, low levels of pollution can move with the groundwater, it will mix up with clean water, and that's called	1 2 3 4 5 6 7	MOHONK ROAD SUPERFUND SITE samples from the monitoring wells we have throughout your town. They are taking those samples to ensure that we know where the groundwater contamination is, and that it is not going to spread out of the High Falls
2 3 4 5 6 7 8	place. Now, this won't clean up the chemicals, but it will keep them from moving off the site. As pollution, low levels of pollution can move with the groundwater, it will mix up with clean water, and that's called dilution. So that will reduce the	1 2 3 4 5 6 7 8	MOHONK ROAD SUPERFUND SITE samples from the monitoring wells we have throughout your town. They are taking those samples to ensure that we know where the groundwater contamination is, and that it is not going to spread out of the High Falls Water District. It is actually very
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1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	the repository or any time someone	2	from. But we are able to detect the
3	calls and asks for it.	3	daughter products from these original
4	Sal mentioned we did a	4	compounds. The 1,1-DCA, chloroethane,
5	groundwater evaluation of the site	5	going all the way to the gas ethane.
6	data that we had for the last eight	6	And dichloroethene degrades to vinyl
7	years. That report was called the	7	chloride, which degrades to ethene,
8	Final Monitored Natural Attenuation	8	another gas. Those gases that are
9	Assessment. It is about 200 pages	9	formed, even will break down farther.
10	long with a lot of graphs in it. It	10	We just don't analyze for them. They
11	is a highly technical document that	11	degrade down to carbon dioxide, so we
12	identified trends and looked at	12	don't see those compounds present.
13	different areas of evidence for	13	We have been able to
14	whether monitored natural attenuation	14	identify of the four processes, this
15	was occurring; were there any natural	15	one is definitely happening at your
16	processes helping to keep the	16	site to break down the compounds that
17	contamination low. It also looked to	17	are in the groundwater.
18	say, if we implemented MNA, would it	18	This is a really busy map,
19	be protective of the folks that live	19	so bear with me as I talk through it.
20	in this community and your	20	And I have a lot of notes I want to
21	environment. That report is available	21	talk about. I know you can't read it.
22	in the repository. If you are	22	This map is in the MNA assessment
23	interested, that's where you would	23	report in full color.
	Dage 22		Dogo 25
1	Page 23	1	Page 25
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MOHONK ROAD SUPERFUND SITE find it.	2	MOHONK ROAD SUPERFUND SITE This line down here goes
2 3	MOHONK ROAD SUPERFUND SITE find it. We mentioned there are four	2 3	MOHONK ROAD SUPERFUND SITE This line down here goes around the site, is the High Falls
2 3 4	MOHONK ROAD SUPERFUND SITE find it. We mentioned there are four different natural processes that we	2 3 4	MOHONK ROAD SUPERFUND SITE This line down here goes around the site, is the High Falls Water District. I kind of zoomed in
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	Page 26		Page 28
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	just we looked at all of the	2	WOMAN IN AUDIENCE: Can I
3	available site contaminants and their	3	position myself on the map? I see
4	breakdown products that have cleanup	4	213, over on the right.
5	levels, added up all those numbers and	5	MS. DARPINIAN: This is
6	we posted out where are the highest	6	Mohonk Road and there is 213. We are
7	concentrations found. And this little	7	at the firehouse, which I think is
8	circle there that's right next to the	8	probably right about there. This is
9	Mohonk Arts Building is our area with	9	Berm Road. Let's see.
10	the highest contamination. It is over	10	MAN IN AUDIENCE: School
11	a 1,000 parts per billion, and it has	11	Hill Road.
12	been since I started this project.	12	MS. DARPINIAN: Thank you.
13	Although I'll show you an interesting	13	The residents I'm sure know it better
14	slide in just a little bit. That area	14	than I do.
15	has never gone outside. It is not	15	WOMAN IN AUDIENCE: So
16	ever been any bigger than that. We do	16	that's the limitation of the
17	expect it to continue getting smaller.	17	contamination on the right-hand side?
18	There's also a 100 part per billion	18	MS. DARPINIAN: On this side
19	line, which is a much larger area.	19	over here.
20	And finally the 5 part per billion	20	WOMAN IN AUDIENCE: Yes,
21	line. The 5 part per billion line is	21	what's the street name? How far does
22	the cleanup levels for all of our	22	it go?
23	compounds at the site is 5 parts per	23	MS. DARPINIAN: Oh, I'm not
	Page 27		Page 29
1	Page 27 MOHONK ROAD SUPERFUND SITE	1	Page 29 MOHONK ROAD SUPERFUND SITE
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
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2	MOHONK ROAD SUPERFUND SITE	2	MOHONK ROAD SUPERFUND SITE
2 3	MOHONK ROAD SUPERFUND SITE billion. That 5 part per billion line has never gone past Route 213. So we	2 3	MOHONK ROAD SUPERFUND SITE in the right area yet. WOMAN IN AUDIENCE: I'm just
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8 (Pages 26 to 29)

1				Page 32
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE	
2	it means in terms of the village. If	2	proposed well, and that well	
3	there are no roads, then I guess	3	installation is going to start next	
4	how about on the left? Are there any	4	week. Then we'll be able to feel a	
5	roads that we could identify on the	5	little bit more confident as we move	
6	left?	6	forward with the monitored natural	
7	MS. DARPINIAN: This is	7	attenuation at the site. It's a busy	
8	Canal Road.	8	map.	
9	WOMAN IN AUDIENCE: Okay.	9	Yes.	
10	MAN IN AUDIENCE: It looks	10	MR. MC DONOUGH: Can I ask	
11	like it is as far as the rescue squad	11	another question?	
12	on the east side, maybe a little	12	MS. DARPINIAN: Go ahead.	
13	farther. Is that right?	13	MR. MC DONOUGH: As you're	
14	MR. BADALAMENTI: That's an	14	doing the remediation or as the water	
15	approximate location.	15	is cleaning itself and you're	
16	MR. MC DONOUGH: Yeah,	16	monitoring it, does the plume get	
17	that's about right. You can see the	17	smaller, or does the concentration of	
18	triangle.	18	the solvents in the water get less, or	
19	MS. DARPINIAN: This	19	both?	
20	triangle.	20	MS. DARPINIAN: We	
21	MR. BADALAMENTI: I think	21	completely expect it to be both. The	
22	that's Fourth Street.	22	reason the plume would get smaller is	
23	MR. MC DONOUGH: Yeah, yeah,	23	because we are actively pumping the	
	Dogo 21			Page 33
1	Page 31 MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE	Page 55
2				
~		2	aroundwater But the concentrations	
3	that's where the rescue squad is, right by there	2	groundwater. But the concentrations	
3 4	right by there.	3	that you know, this is our capture	
4	right by there. MS. DARPINIAN: Now, as a	3 4	that you know, this is our capture zone, so if it's farther away than	
4 5	right by there. MS. DARPINIAN: Now, as a reminder, everyone in the water	3 4 5	that you know, this is our capture zone, so if it's farther away than that if there is groundwater	
4 5 6	right by there. MS. DARPINIAN: Now, as a reminder, everyone in the water district has been connected to the	3 4 5 6	that you know, this is our capture zone, so if it's farther away than that if there is groundwater contamination down here, we are not	
4 5	right by there. MS. DARPINIAN: Now, as a reminder, everyone in the water district has been connected to the drinking water plant as of last	3 4 5	that you know, this is our capture zone, so if it's farther away than that if there is groundwater contamination down here, we are not going to pull it back to that	
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1	Page 3 MOHONK ROAD SUPERFUND SITE		Page 36 MOHONK ROAD SUPERFUND SITE
1 2	concerned that there is a little gap	1	that soil vapor extraction system at
3	on the eastern edge, and that's why we	3	the arts building. It is by far one
	are installing that additional	4	of our hottest wells and always had
4 5	monitoring well there.	4 5	5
	MR. MC DONOUGH: Not that	6	the highest concentration. This graph shows when it was
6 7	you think the plume has expanded	7	started being sampled back in 1999,
8	there. Just that you don't know	8	
9	because you don't have a well there, a	8 9	during remedial investigation. And it had concentrations exceeding 8,000
10	test well there, right?	10	parts per billion. While you can't
10	MS. DARPINIAN: Right.	10	draw I drew a straight line, but I
12	MR. BADALAMENTI: Right.	12	shouldn't draw a straight line for
12	MS. DARPINIAN: And that's	13	5
13		13	data that is wiggling. The most
	actually a requirement of monitored natural attenuation. You have to be		recent data there is clearly below
15 16		15 16	3,000. So even in our source area, we
	able to define where is the plume.		are having an impact. And again, we
17	And we can't just draw that line up	17	fully expect because now we can pump
18	this year and never go back again and	18	the groundwater even harder and we
19	assume it is still going to be okay	19	have installed the soil vapor
20	and be safe.	20	extraction system, the source left in
21	Did you have a question?	21	the groundwater will continue to
22	MAN IN AUDIENCE: To follow	22	degrade because we are actively
23	up. So the line on the right, the	23	treating it.
	Page 3	5	Page 37
1	Page 3 MOHONK ROAD SUPERFUND SITE		Page 37 MOHONK ROAD SUPERFUND SITE
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MOHONK ROAD SUPERFUND SITE eastern line is a little bit of	1 2	MOHONK ROAD SUPERFUND SITE Some ongoing actions that
2 3	MOHONK ROAD SUPERFUND SITE eastern line is a little bit of extrapolation because you don't have a	1 2 3	MOHONK ROAD SUPERFUND SITE Some ongoing actions that MNA will require is continue to
2 3 4	MOHONK ROAD SUPERFUND SITE eastern line is a little bit of extrapolation because you don't have a well there?	1 2 3 4	MOHONK ROAD SUPERFUND SITE Some ongoing actions that MNA will require is continue to monitor and analyze the data carefully
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MOHONK ROAD SUPERFUND SITE eastern line is a little bit of extrapolation because you don't have a well there? MS. DARPINIAN: It is extrapolated from the homeowner wells we used to sample there. Wanda Nicholson and a couple of other homes that had units previously. So we actually do feel pretty confident. Because every time we plot this map it looks just the same. MR. KLUESNER: Just as a reminder, if you have a question or comment, please identify yourself for our stenographer. MS. DARPINIAN: We were going to hold questions until the end. This is just one graph that's out of that monitored natural	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MOHONK ROAD SUPERFUND SITE Some ongoing actions that MNA will require is continue to monitor and analyze the data carefully to ensure that we have a good understanding of where the plume is. We'll need to prepare a long-term monitoring plan. Right now the plan that we were using for the last eight years and it's not a monitored natural attenuation plan. So we will need to write a new plan about how often we will sample the wells and what we'll analyze them for and how we'll report them. Then lastly, a requirement of any remedy that leaves contamination I'm not sure I'm going to get all the words right, Sal. If a remedy leaves contamination in

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1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MR. BADALAMENTI: So with	2	human health and the environment, that
3	that, we came up with three	3	includes construction and
4	alternatives. One is required to be	4	implementation in a period until
5	evaluated under Superfund, and that's	5	cleanup goals are achieved, we feel
6	no further action. GW-2 would be the	6	groundwater option 3 is the better
7	groundwater extraction and treatment	7	alternative.
8	and long-term monitoring which was	8	With regard to
9	proposed in the original Record of	9	implementability, which discussions
10	Decision in 2000. And the third	10	the difficulty of implementing the
11	alternative is MNA with long-term	11	remedy, since GW-2 would require
12	monitoring. Evolved organics within	12	construction of a treatment plant and
13	the far-field plume would naturally	13	discharge lines as to where that has
14	attenuate via naturally occurring	14	to be discharged to, again GW-3 is the
15	processes.	15	more easily implementable project
16	There are nine criteria that	16	alternative, because it only requires
17	we are required to evaluate each of	17	monitoring to occur.
18	these alternatives. First is overall	18	With regard to cost, GW-3 is
19	protection of human health and the	19	a lot less money than GW-2.
20	environment. That addresses whether	20	With regard to state
21	or not the remedy will provide	21	acceptance, one of the last criteria,
22	adequate protection. And compliance	22	the state, DEC and DOH concur with EPA
23	with applicable or relevant and	23	that MNA is a viable alternative for
20		20	
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1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	appropriate requirements, addresses	2	this site.
3	whether the remedy would address and	3	And the last one, community
4	meet all regulations, appropriate	4	acceptance, we will assess, based upon
5	requirements and regulations, federal	5	your concerns tonight and what's
6	and state environmental statutes. And	6	raised tonight, and we'll respond to
7	the third one is long-term	7	that in the Responsiveness Summary.
8	effectiveness and permanence, and that	8	So with that, EPA is
9	refers to the ability to maintain	9	recommending GW-3, which is the
10	reliable protection of human health in	10	monitored natural attenuation with
11	the environment all the time.	11	long-term monitoring. And if there
12	For those three criteria, we	12	are any questions or comments, we'd
13	believe that groundwater GW-2 and GW-3	13	certainly like to hear them.
14	are very equivalent. For reduction of	14	MS. JENNIFER STILLER: I'm
15	toxicity, mobility or volume through	15	Jennifer Stiller. I don't understand
16	treatment, we judge that GW-2 is a	15	why you would have assessed the
17	little better than GW-3, because that	10	short-term effectiveness would be
18	involves two treatment systems as well	18	higher under G-3? I would think that
19	as the MNA that would occur.	19	constructing a second extraction plant
20	With regard to short-term	20	and extracting more of the groundwater
21	effectiveness, which addresses the	21	and treating more of the groundwater
22	period of time needed to achieve	22	would be more effective in the short
23	protection and any adverse impacts on	23	term, and that the MNA in fact would
23	h	-	

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1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	be a method that would take longer to	2	MR. BADALAMENTI: It does,
3	remove the pollutants.	3	the aquifer does go beyond the water
4	MR. BADALAMENTI: Short-term	4	district.
5	effectiveness also addresses the	5	MR. CARLIN: So couldn't the
6	impacts, the short-term impacts during	6	contaminants while you're attenuating
7	construction. And since a treatment	7	them or spreading them or diluting
8	plant would have to be constructed	8	them go west as well as east and north
9	with GW-2, that is less those	9	I guess?
10	impacts are higher than GW-2, which	10	MR. BADALAMENTI: Well,
11	would not require those impacts.	11	based upon eight years of monitoring,
12	MS. STILLER: Okay, but	12	we feel pretty confident that that is
13	those impacts are not going to	13	the extent of the plume as depicted on
14	negatively affect the pollutants.	14	that map.
15	That's the impact of having to	15	MR. CARLIN: But if you're
16	construct the second	16	diluting it, you're spreading it.
17	MR. BADALAMENTI: Yes,	17	MR. BADALAMENTI: Well,
18	that's correct.	18	yeah, but that's from the source down
19	MS. DARPINIAN: Which	19	to the furthest extent of the plume
20	includes when we do construction it	20	that we have depicted.
21	includes the extra energy to build and	21	MR. CARLIN: All right, what
22	run the plant and the cost of	22	about vapor; now vapor doesn't only go
23	transporting things here through your	23	downhill. It goes all over the place.
	Page 4	3	Page 45
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	town, ripping up town roads to lay	2	MR. BADALAMENTI: Yes.
3	additional pipes. So that's all a	3	MR. CARLIN: So I suppose
4	part of that construction and	4	when you're de-vaporizing or
5	effectiveness.	5	vaporizing it now and I'm not being
6	MR. BADALAMENTI: Yes, sir.	6	critical of this; I'm very positive in
7	MR. ROY CARLIN: Roy Carlin.	7	what you've done. But the vapor is
8	I'm not within the district. I guess	8	going all around the community to the
9	I'm about a mile out from it.	9	rest of us who are outside of the
10	The word attenuation to	10	district, do we need to test and what
11	me and I'm not trained in this	11	kind of tests should we do? I'm not
12	area the word attenuation really	12	asking you to pay for it either. I'm
13	means dilute or spread. And I	13	just trying to figure out how to
14	understand how you're taking	14	protect the rest of us.
15	contaminants out of the earth, and I	15	MS. CARPENTER: Do you want
16	understand how water goes down hill.	16	me to answer that?
17	Does that mean that it is only going	17	MR. BADALAMENTI: Sure.
18		10	MS CADDENITED: I'm Angola
	towards the Rondout now with respect	18	MS. CARPENTER: I'm Angela
19	towards the Rondout now with respect to the water in the aquifer? Doesn't	18 19	Carpenter.
19 20	•		-
19 20 21	to the water in the aquifer? Doesn't	19	Carpenter. The soil vapor extraction unit that is operating up at Mohonk
19 20	to the water in the aquifer? Doesn't the aquifer spread beyond this	19 20	Carpenter. The soil vapor extraction
19 20 21	to the water in the aquifer? Doesn't the aquifer spread beyond this particular area?	19 20 21	Carpenter. The soil vapor extraction unit that is operating up at Mohonk

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1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	to a certain extent.	2	through activated carbon, which is
3	We also during the vapor	3	absorbing anything being pulled out of
4	intrusion investigation that we did in	4	the ground, it is not being discharged
5	the community, to see if the	5	into the air.
6	groundwater was having an impact on	6	MS. CARPENTER: Well, it is
7	people's homes, part of that is	7	not being discharged into the air.
8	actually what's called ambient air	8	MR. CARLIN: Some of it is.
9	monitoring, where we tested not only	9	I presume it is only X percent of
10	inside the homes but the air in the	10	that.
11	area surrounding those homes. And we	10	MS. CARPENTER: 99.99.
12	tested that down to some extremely low	12	MR. BADALAMENTI: 99.99
13	levels; the same levels that we would	12	
13	look for inside a dwelling. And we	13	plus.
14	0	14	MR. CARLIN: Like ivory.
	did not see impacts in the ambient air		MS. NAVRATIL: Fay Navratil,
16	with these conditions existing.	16	State Health Department. And then
17	So it's a fair question.	17	that carbon will be monitored and make
18	But we did actually do some testing in	18	sure there is no breakthrough. So it
19	that vapor.	19	will collect. It is like a carbon
20	MR. CARLIN: But we get	20	filter on your water system. It will
21	visits from Pittsburgh, the steel	21	collect the contaminants. And then
22	mills are out there, I think some of	22	once it is loaded up, they will
23	the contaminants come over here and	23	replace the carbon with new carbon.
	Page 47		Page 49
1	Page 47 MOHONK ROAD SUPERFUND SITE	1	Page 49 MOHONK ROAD SUPERFUND SITE
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MOHONK ROAD SUPERFUND SITE they have affected the Adirondacks and	2	MOHONK ROAD SUPERFUND SITE And then they will dispose of it at an
2 3	MOHONK ROAD SUPERFUND SITE they have affected the Adirondacks and things like that.	2 3	MOHONK ROAD SUPERFUND SITE And then they will dispose of it at an appropriate receiving facility.
2 3 4	MOHONK ROAD SUPERFUND SITE they have affected the Adirondacks and things like that. MS. CARPENTER: Right, but	2 3 4	MOHONK ROAD SUPERFUND SITE And then they will dispose of it at an appropriate receiving facility. Anything that goes into the
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3       any sub-side system, similar to a       3       That's the original goal of the Record         4       radon system that some of you folks       4       of Decision and that remains the goal.         5       might have in your buildings, where it       5       And that will depend upon the ARARS,         6       is just released to the atmosphere and       6       the appropriate and applicable         7       at that quantity is diluted virtually       7       regulations. So the aquifer will need         8       immediately and with the sunlight       8       to be cleaned up to those         9       breaking things down, a natural       9       requirements. That's when we will be         10       process that occurs. And these are       10       done: When it's restored.         11       released at a level that it is higher       11       So we are going to be here a         12       that point.       14       doing make things foat we are       doing make things of aster than we         13       wouldn't be exposed to anything at       13       source removal things that we are         14       that point.       14       doing make things of aster than we         17       the air all around us.       16       MR. CARLIN: What goes up       MR. BADALAMENTI: Based upon <t< td=""><td></td><td></td><td></td><td></td></t<>				
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8       immediately and with the sunlight breaking things down, a natural       8       to be cleaned up to those requirements. That's when we will be done: When it's restored.         9       released at a level that it is higher       11       So we are going to be here a source removal things that we are doing make things go faster than we anticipated.         12       that point.       12       while. Unless some of these enhanced         13       wouldn't be exposed to anything at that point.       13       source removal things that we are anticipated.         16       account, you know we have things in the air all around us.       16       MR. STILLER: Is there any the air all around us.         17       the air all around us.       17       kind of timeline that is expected?         18       MR. CARLIN: What goes up       18       MR. BADALAMENTI: Based upon the modeling we have done, it might take as long as 30 years. There are asome. This monitored natural attenuation study tried to look at pumping your gas, they have controls       23         21       MOHONK ROAD SUPERFUND SITE 2       2       MOHONK ROAD SUPERFUND SITE 2       1         2       higher level.       3       in half a year we expect them to drop 4       you're breathing in minmal 5       1         3       you're breathing in minmal 6       6       So we will try to see whether those 5       1         9       MR. BADALAMENTI: Sir. 9	7	at that quantity is diluted virtually	7	regulations. So the aquifer will need
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15       I mean you got to take into       15       anticipated.         16       account, you know we have things in       16       MR. STILLER: Is there any         17       the air all around us.       17       kind of timeline that is expected?         18       MR. CARLIN: What goes up       18       MR. BADALAMENTI: Based upon         19       comes down.       19       the modeling we have done, it might         20       MS. NAVRATIL: Well, yeah.       20       take as long as 30 years. There are         21       But it moves and it dilutes. But same       21       some. This monitored natural         22       thing, like they put, when you're       22       attenuation study tried to look at         23       pumping your gas, they have controls       23       particular chemicals at particular         2       so you're not breathing in fumes at       2       locations. At some of the locations         3       your breathing level. So they take       3       in half a year we expect them to drop         4       precautions so that you aren't       4       to zero. In some it is going to take         5       you're breathing in minimal       5       so we will try to see whether those         6       contaminants or they are released at a       6       So we will try to				
16       account, you know we have things in       16       MR. STILLER: Is there any         17       the air all around us.       17       kind of timeline that is expected?         18       MR. CARLIN: What goes up       18       MR. BADALAMENTI: Based upon         20       MS. NAVRATIL: Well, yeah.       20       take as long as 30 years. There are         21       But it moves and it dilutes. But same       21       some. This monitored natural         22       thing, like they put, when you're       22       attenuation study tried to look at         23       pumping your gas, they have controls       23       particular chemicals at particular         Page 51         1       MOHONK ROAD SUPERFUND SITE       2         2       so you're not breathing in fumes at       3       in half a year we expect them to drop         4       precautions so that you aren't       4       to zero. In some it is going to take         5       you're breathing in mimal       6       So we will try to see whether those         6       contaminants or they are released at a       6       So we will try to see whether those         7       MR. BADALAMENTI: Sir.       8       MR. STILLER: So is the hope         9       MR. MICHAEL STILLER: Hi,       9       that wi		•		
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21criteria has not been met?21MR. BADALAMENTI: Based upon				
22 MR BADALAMENTL: Well yes 22 the modeling conducted when the		criteria has not been met?		•
	22	MR. BADALAMENTI: Well, yes.	22	the modeling conducted, when the
23 Certainly the criteria is going to be 23 original second treatment system was				

	Page 54		Page 56
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	evaluated, that was also a 30-year	2	contributing to deterioration of the
3	time period. So they are both pretty	3	aquifer, yes.
4	close to the same amount of time.	4	MR. CARLIN: So if you're
5	MR. VINNIE GIBBS: Vinnie	5	obviously within the site, you're
6	Gibbs, Berm Road.	6	testing it. If we are beyond the
7	Sal, have you calculated	7	site, I'm going to use the word
8	population increase and	8	unprotected, and we should be
9	diversification? Because the figures	9	exercising some precautions or testing
10	that you're coming up with now, in	10	to assure that our own wells aren't
11	another five to ten years will totally	11	being contaminated.
12	change.	12	MR. BADALAMENTI: If you
13	MR. BADALAMENTI: We at one	13	have a septic system on your property
14	point looked at the census numbers for	14	and you have a drinking well on your
15	the population within the water	15	property, I would certainly recommend
16	district and projected a population of	16	testing your drinking water well
17	approximately 500 people within the	17	routinely.
18	water district.	18	MR. CARLIN: How often.
19	MR. GIBBS: And that's	19	MS. NAVRATIL: Well, I'm not
20	currently.	20	in the water supply system. You
21	MR. BADALAMENTI: That was	21	certainly can contact your county.
22	the projected population. At what	22	There are regulations on how close
23	year, I can't recall right now.	23	your septic system can be to your
	Page 55		Page 57
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MR. CARLIN: Roy Carlin.	2	water supply. And I'm assuming that
3	I'm not trying to be unfair	3	that's going to apply for a number of
4	with respect to this, but obviously	4	years. But contacting your county
5	what you're working out is the problem	5	Health Department, they will be able
6	that was created by the site. And I	6	to provide you with that information.
7	would presume that the community is	7	And just from experience,
8	making I'll put it new	8	when you buy a home, there's
9	contributions to the problem. We	9	requirements on having it tested,
10	don't have a sewage system here, so	10	particularly for bacteria. And in
11	things are I suppose dumping into the	11	some counties, they are looking at
12	aquifer. And I'm wondering whether	12	initiating sampling for volatile
13	your testing, periodic testing would	13	compounds such as what we have here,
14	pick up problems that we might have by	14	because this is closer to the city,
15	our own contributions of bad stuff to	15	this is Westchester County they are
16	the aquifer?	16	seeing these things. These are now
17	MR. BADALAMENTI: Well, when	17	prevalent in the groundwater supply.
18	we were testing the private wells we	18	So they are possibly going to I
19	did test for fecal, and we did find	19	can't remember what stage they are at,
20	some bacterial contamination in many	20	but may be requiring that testing to
21	of the wells. That's why you had	21	be done when you buy a home. Or drill
22	disinfection systems on some of the	22	a well. So the county would be your
	5		5
23	systems. So yes, septic systems are	23	best communication with providing you

	Page 5		Page 60
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	with information regarding the	2	necessarily. They determine the site
3	frequency of testing.	3	contaminants and then that's what they
4	But if you have a competent	4	are looking for. They are not going
5	septic system if you have concerns	5	out and sampling for everything under
6	about your septic system leaking,	6	the sun, like PCBs or heavy metals.
7	certainly contact your county, they	7	I'm not sure, Amy could tell you what
8	can give you some direction. With a	8	the contaminants well, we know what
9	competent system and your well an	9	the contaminants of concern are. But
10	appropriate distance away from the	10	once they have identified the
11	septic system, you really shouldn't	11	contaminants of concern at the site,
12	have any problems. But if you have	12	that's what they are looking for.
13	concerns, certainly	13	Where if we don't have PCBs at the
14	MR. CARLIN: What about	14	site, we are not going to test it
15	heavy metals and other bad stuff	15	farther out from the site, off-site
16	that's in the water, is there some	16	for PCBs.
17	guidance that the health committee,	17	So your best bet is to
18	whatever it is, health resources would	18	contact the county health department
19	give as to what you should test? I'm	19	for more information.
20		20	MR. BADALAMENTI: Ma'am.
	not concerned about people, you test		
21	for that. But there are other things	21	Identify yourself please.
22	that I'm reading about.	22	MS. KATE REESE HURD: My
23	MS. NAVRATIL: You can take	23	name is Kate Reese Hurd. I live on
	Dago F	n .	Page 61
1	Page 5		Page 61
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MOHONK ROAD SUPERFUND SITE your water sample to a laboratory and	1 2	MOHONK ROAD SUPERFUND SITE Mohonk Road, near 213.
2 3	MOHONK ROAD SUPERFUND SITE your water sample to a laboratory and have it analyzed. But the costs	1 2 3	MOHONK ROAD SUPERFUND SITE Mohonk Road, near 213. When the water is pumped up
2 3 4	MOHONK ROAD SUPERFUND SITE your water sample to a laboratory and have it analyzed. But the costs amount up.	1 2 3 4	MOHONK ROAD SUPERFUND SITE Mohonk Road, near 213. When the water is pumped up to treat, to be treated, where does
2 3 4 5	MOHONK ROAD SUPERFUND SITE your water sample to a laboratory and have it analyzed. But the costs amount up. MR. CARLIN: But I don't	1 2 3 4 5	MOHONK ROAD SUPERFUND SITE Mohonk Road, near 213. When the water is pumped up to treat, to be treated, where does that where is that water discharged
2 3 4 5 6	MOHONK ROAD SUPERFUND SITE your water sample to a laboratory and have it analyzed. But the costs amount up. MR. CARLIN: But I don't know what to ask.	1 2 3 4 5 6	MOHONK ROAD SUPERFUND SITE Mohonk Road, near 213. When the water is pumped up to treat, to be treated, where does that where is that water discharged after it goes through the treatment
2 3 4 5 6 7	MOHONK ROAD SUPERFUND SITE your water sample to a laboratory and have it analyzed. But the costs amount up. MR. CARLIN: But I don't know what to ask. MS. NAVRATIL: The county	1 2 3 4 5 6 7	MOHONK ROAD SUPERFUND SITE Mohonk Road, near 213. When the water is pumped up to treat, to be treated, where does that where is that water discharged after it goes through the treatment process?
2 3 4 5 6 7 8	MOHONK ROAD SUPERFUND SITE your water sample to a laboratory and have it analyzed. But the costs amount up. MR. CARLIN: But I don't know what to ask. MS. NAVRATIL: The county and your water supplier. You must	1 2 3 4 5 6 7 8	MOHONK ROAD SUPERFUND SITE Mohonk Road, near 213. When the water is pumped up to treat, to be treated, where does that where is that water discharged after it goes through the treatment process? MR. BADALAMENTI: From the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MOHONK ROAD SUPERFUND SITE your water sample to a laboratory and have it analyzed. But the costs amount up. MR. CARLIN: But I don't know what to ask. MS. NAVRATIL: The county and your water supplier. You must have a private well. But unfortunately, I would contact your county on that, and unfortunately, that's not part of this site, so we don't want to get sidetracked. But you would want to contact your county. MR. CARLIN: It would be part of the site, because the same thing going on outside of the site is going on inside. So if we are contributing things from our septic systems or recycling or whatever, whatever, whatever, that should be	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\end{array} $	MOHONK ROAD SUPERFUND SITE Mohonk Road, near 213. When the water is pumped up to treat, to be treated, where does that where is that water discharged after it goes through the treatment process? MR. BADALAMENTI: From the groundwater treatment system it is going into the Coxingkill Creek. MS. HURD: So it is not being pumped back into the aquifer at that point? MR. BADALAMENTI: It is not. MS. HURD: And where do the activated carbon filters go when you change them? MR. BADALAMENTI: The spent carbon? MS. HURD: Yes, that have

16 (Pages 58 to 61)

1		-	
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	registered, licensed to accept this	2	Library, thank you.
3	material and safely handle it.	3	MR. BADALAMENTI: And if
4	MS. HURD: So what do they	4	you'd like, I can send it to you
5	do with them then to prevent these	5	e-mail as well.
6	compounds from getting into the	6	MS. HURD: Oh, thank you.
7	environment at that end of things?	7	Oh, I just wanted to mention
8	MR. BADALAMENTI: Well,	8	that in the natural the monitored
9	carbon often is regenerated and reused	9	natural attenuation one of the things
10	again, and that's through a heat	10	that I've learned about contaminants
11	process where it is heated and the	11	in the environment is that when they
12	fumes are burned off.	12	degrade, that doesn't necessarily mean
13	MS. HURD: So these	13	that things are better. That some of
14	chemicals, if they are burnt like	14	the daughter compounds can actually be
15	that, then go through some kind of a	15	more pernicious.
16	process where they become innocuous?	16	MR. BADALAMENTI: Yes.
17	MR. BADALAMENTI: And	17	MS. HURD: And a compound
18	destroyed. Destroyed through heat,	18	that's been tested at certain parts
19	yes.	19	per billion that's quite a significant
20	MS. HURD: Okay. Because	20	amount and the effects are known, what
21	that's one of my other questions. Amy	21	seems to be have been overlooked,
22	showed us a chart of degradation	22	at least in the past, is that when
23	pathways for these two, first of these	23	it's at a much more minute level it
	Page 63		Page 65
1			
	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2		1 2	MOHONK ROAD SUPERFUND SITE has different effects, like hormone
	MOHONK ROAD SUPERFUND SITE things. Where can we get a copy of that?	-	has different effects, like hormone
2	things. Where can we get a copy of	2	
2 3	things. Where can we get a copy of that?	2 3	has different effects, like hormone disruption and all of that. So that's
2 3 4 5	things. Where can we get a copy of that? MS. DARPINIAN: That is in the Monitored Natural Attenuation	2 3 4 5	has different effects, like hormone disruption and all of that. So that's a consideration that I have about this natural attenuation. And
2 3 4	things. Where can we get a copy of that? MS. DARPINIAN: That is in the Monitored Natural Attenuation Assessment Report.	2 3 4	has different effects, like hormone disruption and all of that. So that's a consideration that I have about this natural attenuation. And MR. BADALAMENTI: That's why
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	Page 66		Page 68
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MS. HURD: That's what it	2	And then the third pathway
3	is. And hopefully that the amount of	3	would be in inhalation of vapors, and
4	those compounds are not something that	4	they evaluated that. EPA went out and
5	would affect human health. I mean	5	collected the sub-slab soil vapor
6	you've tested ambient air and so on,	6	samples.
7	but in the future, who knows, if	7	MS. HURD: Yeah, that's the
8	this as the degrading goes on, if	8	present. I'm talking about as we go
9	that would become more of a problem.	9	on. Sal answered that. As long as
10	MR. BADALAMENTI: Well,	10	this is, that the daughter
11	that's why we need to be here to	11	components I mean you are testing
12	continue monitoring and making sure	12	for the mother and father, you know,
13	that	13	and we are talking about the
14	MS. HURD: But those are	14	grandchildren of these compounds. So
15	questions	15	just that that's really on your plan.
16	MS. NAVRATIL: I just want	16	MS. DARPINIAN: I will say,
17	to address some of your concerns.	17	although we focus on our contaminants
18	Because part of my involvement with	18	of interest at the site, because they
19	these type of sites is to evaluate	19	tell us the most information, when we
20	exposures to contaminants at the site.	20	submit our sample to the laboratory,
21	And what we have done and what Sal has	20	we don't only ask for those four
22		22	compounds. We ask for volatile
22	noted is that there is various ways	22	
23	that you can be exposed to	23	organic compounds, and that's a very
	Page 67		Page 69
1	Page 67 MOHONK ROAD SUPERFUND SITE	1	Page 69 MOHONK ROAD SUPERFLIND SITE
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MOHONK ROAD SUPERFUND SITE contaminants. You're either going to	2	MOHONK ROAD SUPERFUND SITE long list.
2 3	MOHONK ROAD SUPERFUND SITE contaminants. You're either going to inhale them. You're going to ingest	2 3	MOHONK ROAD SUPERFUND SITE long list. MR. BADALAMENTI: That
2 3 4	MOHONK ROAD SUPERFUND SITE contaminants. You're either going to inhale them. You're going to ingest them, via like drinking water, or you	2 3 4	MOHONK ROAD SUPERFUND SITE long list. MR. BADALAMENTI: That includes the daughters.
2 3 4 5	MOHONK ROAD SUPERFUND SITE contaminants. You're either going to inhale them. You're going to ingest them, via like drinking water, or you will come in direct contact with them.	2 3 4 5	MOHONK ROAD SUPERFUND SITE long list. MR. BADALAMENTI: That includes the daughters. MS. DARPINIAN: That
2 3 4 5 6	MOHONK ROAD SUPERFUND SITE contaminants. You're either going to inhale them. You're going to ingest them, via like drinking water, or you will come in direct contact with them. These are three ways you can be	2 3 4 5 6	MOHONK ROAD SUPERFUND SITE long list. MR. BADALAMENTI: That includes the daughters. MS. DARPINIAN: That includes the daughters and the
2 3 4 5 6 7	MOHONK ROAD SUPERFUND SITE contaminants. You're either going to inhale them. You're going to ingest them, via like drinking water, or you will come in direct contact with them. These are three ways you can be exposed to contaminants.	2 3 4 5 6 7	MOHONK ROAD SUPERFUND SITE long list. MR. BADALAMENTI: That includes the daughters. MS. DARPINIAN: That includes the daughters and the granddaughters.
2 3 4 5 6 7 8	MOHONK ROAD SUPERFUND SITE contaminants. You're either going to inhale them. You're going to ingest them, via like drinking water, or you will come in direct contact with them. These are three ways you can be exposed to contaminants. So what we look at these	2 3 4 5 6 7 8	MOHONK ROAD SUPERFUND SITE long list. MR. BADALAMENTI: That includes the daughters. MS. DARPINIAN: That includes the daughters and the granddaughters. MS. NAVRATIL: It is about
2 3 4 5 6 7 8 9	MOHONK ROAD SUPERFUND SITE contaminants. You're either going to inhale them. You're going to ingest them, via like drinking water, or you will come in direct contact with them. These are three ways you can be exposed to contaminants. So what we look at these sites in the remediation is to	2 3 4 5 6 7 8 9	MOHONK ROAD SUPERFUND SITE long list. MR. BADALAMENTI: That includes the daughters. MS. DARPINIAN: That includes the daughters and the granddaughters. MS. NAVRATIL: It is about 60 some odd compounds. And they have
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			5	70
1	Page 70 MOHONK ROAD SUPERFUND SITE	1	Page MOHONK ROAD SUPERFUND SITE	72
1 2	well. And looking toward the future	2	this problem with the well. That it	
3	to take to step up to the plate	3	would be tied off not tied off, I'm	
	that we are not doing it just for	4		
4	0,		sorry, opened in order to use for	
5	ourselves, but we need to practice	5	garden. Well, it has not come to	
6	beginning now water conservation.	6 7	pass. My well particularly is closed	
7	Using water wisely. Because we may be		off. And then in order to open it up	
8	called upon to share that water, and	8 9	again, we have to pay someone, a	
9	we need to have super fluidity to		plumber to come in and to open that	
10	share.	10	up. And I don't think that's right.	
11	In my household, for years	11	Especially since it was promised that	
12	now we have been collecting the warmup	12	the well would not be closed off,	
13	water for showers. And it's	13	number one, and it would be available.	_
14	foreseeable to collect the wastewater	14	And in conclusion, I just wanted to	_
15	from washing dishes so as to use that	15	make the point that this is what's	_
16	for other purposes where it doesn't	16	going on, and it should be addressed.	
17	matter how clean it actually is, and	17	I'm not alone in this.	
18	these low-flush toilets and so on. I	18	There are several of us along Berm	
19	just want to mention that to help	19	Road for example, of which, Sal, you	
20	start us thinking about really in the	20	are aware of, who have the same	_
21	interest of each other.	21	complaint. And we'd like to know how	_
22	MR. BADALAMENTI: Thank you.	22	we go about this without having to	_
23	MR. GIBBS: Vinnie Gibbs	23	bring in a plumber to undo what you	_
	Page 71		Page	73
1	Page 71 MOHONK ROAD SUPERFLIND SITE		Page MOHONK ROAD SUPERFUND SITE	73
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE	73
2	MOHONK ROAD SUPERFUND SITE again.	1 2	MOHONK ROAD SUPERFUND SITE guys put together.	73
2 3	MOHONK ROAD SUPERFUND SITE again. In deference to what was	1 2 3	MOHONK ROAD SUPERFUND SITE guys put together. MR. BADALAMENTI: Let me	73
2 3 4	MOHONK ROAD SUPERFUND SITE again. In deference to what was said about the backwash of the water,	1 2 3 4	MOHONK ROAD SUPERFUND SITE guys put together. MR. BADALAMENTI: Let me just address that. I think you're	73
2 3 4 5	MOHONK ROAD SUPERFUND SITE again. In deference to what was said about the backwash of the water, it's actually being well, some of	1 2 3 4 5	MOHONK ROAD SUPERFUND SITE guys put together. MR. BADALAMENTI: Let me just address that. I think you're referring about the discharge.	73
2 3 4 5 6	MOHONK ROAD SUPERFUND SITE again. In deference to what was said about the backwash of the water, it's actually being well, some of it I can't testify to all of it	1 2 3 4 5 6	MOHONK ROAD SUPERFUND SITE guys put together. MR. BADALAMENTI: Let me just address that. I think you're referring about the discharge. Earlier I was speaking about the	73
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1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	all artesian wells, where the water is	2	by the private wells.
3	coming up from your own private well.	3	There are some areas that
4	It is making the ground in the area	4	have historically been artesian in
5	soggy. I don't think the discharge	5	nature, and many of the private wells
6	into the canal is contributing to	6	in the area have drainage systems
7	that.	7	because the wells would overflow their
8	MR. GIBBS: I'm sorry. I	8	casings.
9	totally disagree with that. I totally	9	Ma'am.
10	disagree with that.	10	MS. EATON: I'm Sharen Eaton
11	MR. BADALAMENTI: I	11	from old Route 213. My question is in
12	understand that.	12	regard to the wells that have been
13	MR. GIBBS: It is a fact.	13	sealed. We were told that we could
14	I've been there thirty years and never	14	have a plumber come out and adapt the
15	had the problem before, okay. So	15	wells so that we could use it to
16	please don't say that you don't think	16	water. But my question is, if a well
17	that. It's not true. It's just not	17	is contaminated, and we are now on a
18	true. That is your backwash coming	18	drinking water system to avoid using
19	into the canal and then leaching down	19	that water, why would we how can we
20	through us, okay.	20	use that water to water a garden,
21	MR. BADALAMENTI: Well,	21	which may consists of vegetables or
22	there's always been water in the	22	flowers; in any case you're exposing
23	canal.	23	that contaminated water to the air
1		1	
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MR. GIBBS: I've been here	2	with vapors and whatever else is
3	30 years. We never had a problem	3	there. Is that something that should
4	until now. So we would like that	4 F	be allowed, to open that well?
5	addressed.	5	MR. BADALAMENTI: Well, we
6	MR. BADALAMENTI: A lot of	6	would have advocated for the wells to
7	people are no longer pumping water	7	have been sealed permanently and never
8	from their wells, so groundwater is	8	to have been used. However, the towns
9	rising as well. So there are many	9	chose not to restrict a person's right
10	factors that are at play.	10	to property. And the compromise was
11	MR. GIBBS: But we have an	11	that for public health reasons you
12	increase in the population also. So	12	must tie into the public water system.
13	that's not really a viable fact.	13	Those wells were labeled for
14	MRS. STILLER: Aren't the	14	nonpotable use. I don't think we ever
15	levels in the well be getting lower	15	made a commitment that we would
16	because the pumps are being treated?	16	provide you with an outdoor spigot so
17	MR. BADALAMENTI: Close to	17	that you can continue your use. That
17 18	MR. BADALAMENTI: Close to the site where we are doing the	18	was allowed by law under the town
17 18 19	MR. BADALAMENTI: Close to the site where we are doing the pumping, the groundwater levels are	18 19	was allowed by law under the town ordinances. If you wished to do that,
17 18 19 20	MR. BADALAMENTI: Close to the site where we are doing the pumping, the groundwater levels are dropping, because we are pumping at a	18 19 20	was allowed by law under the town ordinances. If you wished to do that, you could.
17 18 19 20 21	MR. BADALAMENTI: Close to the site where we are doing the pumping, the groundwater levels are dropping, because we are pumping at a higher rate. But we are also seeing a	18 19 20 21	was allowed by law under the town ordinances. If you wished to do that, you could. Is it a wise thing to do?
17 18 19 20	MR. BADALAMENTI: Close to the site where we are doing the pumping, the groundwater levels are dropping, because we are pumping at a	18 19 20	was allowed by law under the town ordinances. If you wished to do that, you could.

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1	Page 7		Page 80
	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MR. GIBBS: The amount of	2	twofold. One, it is going to
3	contamination, is so minuscule I'm	3	volatilize as you're spraying out.
4	sorry to disagree with you, young	4	And number two, these types of
5	lady. It is so minuscule it is not	5	chemicals are not the types of
6	going to affect your vegetables,	6	chemicals that partition into
7	etcetera.	7	vegetables. They don't like to be
8	MR. BADALAMENTI: Well, let	8	there. So I wouldn't worry about it.
9	me say, there are some wells that were	9	MS. NAVRATIL: I would just
10	contaminated and some were not.	10	like to add one more thing. The wells
11	MR. SIVAK: Michael Sivak.	11	are marked nonpotable, and we would
12	We understand your question. And a	12	not suggest filling up a kiddy pool
13	lot of people have asked that same	13	with it, so that kids are splashing
14	question at a number of sites we	14	around in it. We really recommend
15	worked at. We looked at the levels of	15	that you hook up well, you have
16	contaminants and the types of	16	hooked up to the public water, and use
17	contaminants here. When you think	17	that as a source.
18	like sort of what Faye was talking	18	If your well originally was
19	about earlier, which is how you might	19	contaminated you know, I can't tell
20	be exposed to these chemicals, using	20	you, I don't know, if it wasn't
21	the water as an irrigation source to	21	contaminated and you want to switch it
22	water a garden or your lawn or wash	22	over for irrigation, you know, that
23	your car, something like that, some	23	shouldn't be an issue. But I don't
	Jou: ou:, comouning mic that, como		
	Page	'9	Page 81
1	MOHONK ROAD SUPERFUND SITE	1	
			MOHONK ROAD SUPERFUND SITE
2		-	
	nonpotable source, you're eliminating	2	know what your particular situation
3	nonpotable source, you're eliminating the kind of exposure you might have to	2 3	know what your particular situation is. But we still recommend that you
3 4	nonpotable source, you're eliminating the kind of exposure you might have to it. You're not drinking it. You	2 3 4	know what your particular situation is. But we still recommend that you maintain the public drinking water and
3 4 5	nonpotable source, you're eliminating the kind of exposure you might have to it. You're not drinking it. You might get incidental splashing or wipe	2 3 4 5	know what your particular situation is. But we still recommend that you maintain the public drinking water and use that.
3 4 5 6	nonpotable source, you're eliminating the kind of exposure you might have to it. You're not drinking it. You might get incidental splashing or wipe your hands. Those types of exposures	2 3 4	know what your particular situation is. But we still recommend that you maintain the public drinking water and use that. MR. BADALAMENTI: Yes, sir.
3 4 5 6 7 8	nonpotable source, you're eliminating the kind of exposure you might have to it. You're not drinking it. You might get incidental splashing or wipe your hands. Those types of exposures are so minor and incidental you	2 3 4 5 6 7 8	know what your particular situation is. But we still recommend that you maintain the public drinking water and use that. MR. BADALAMENTI: Yes, sir. MR. MC DONOUGH: My name is
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1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	municipalities can't be responsible	2	protection of human health and the
3	for any ill effects or health	3	environment. Because what happens
4	concerns, or the EPA who created the	4	with construction, according to this,
5	district, or the High Falls Water	5	is that some of the volatile chemicals
6	District. Just so that it was very	6	could be released during that
7	clear that it is contaminated water,	7	construction process. Because it
8	and it should not be used for any	8	seems like the effectiveness for
9	other purposes. We made sure that was	9	either 2 or 3 is about the same from
10	pretty clear.	10	some of the discussions that have been
11	I actually had a couple of	11	had here, already that the
12	things. Are the documents from the	12	effectiveness is about the same. But
13	DEC and the New York State Department	13	those things are actually impacts that
14	of Health, are they available in the	14	perhaps should be under human health.
15	documentation with the rest of the	15	Just a comment to consider.
16	is that the things that are in the	16	MS. CARPENTER: In general,
17	library?	17	under the Superfund Contingency Plan,
18	MR. BADALAMENTI: Do you	18	all the implementing regulations for
19	mean the original DEC studies?	19	Superfund, overall protection of human
20	MR. MC DONOUGH: No, the	20	health and the environment is the
21	state acceptance of the plan, of the	21	criteria by which we look at the end
22	remediation plan.	22	point of the remedy. Will the remedy
23	MR. BADALAMENTI: We have a	23	itself protect the people and the
	Dade 83		Dage 85
1	Page 83	1	Page 85
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MOHONK ROAD SUPERFUND SITE concurrence letter from New York	2	MOHONK ROAD SUPERFUND SITE environment. The short term
2 3	MOHONK ROAD SUPERFUND SITE concurrence letter from New York State, which will be become part of	2 3	MOHONK ROAD SUPERFUND SITE environment. The short term MR. MC DONOUGH: So not the
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1		-	Page 88
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	what we call threshold criteria, we	2	we think the average time frame for
3	have kind of an established language	3	the MNA is also 30 years.
4	that goes with each.	4	MRS. STILLER: Why would you
5	So you're right in that we	5	think that would be
6	talk about human health impacts in two	6	MR. STILLER: Did you do a
7	different areas, and it can be a	7	model with both together or just it
8	little confusing. But one is global	8	just one and the water treatment model
9	remedial end point versus if we are	9	did not take into account the MNA?
10	going to emit dust because we are	10	You know, if two remedies taken at the
11	digging holes or spray water, it is	11	same time, you'd think there would be
12	that kind of a health impact.	12	a cumulative effect, even if it wasn't
13	MR. MC DONOUGH: Good. I	13	twice.
14	see the way you differentiate it.	14	MR. BADALAMENTI: Yeah, I'll
15	MS. CARPENTER: We don't	15	I need to take a closer look at that.
16	like to make it too easy.	16	MRS. STILLER: Well, it
17	MR. BADALAMENTI: Miss	17	starts to make it seem like really
18	Skiller.	18	this decision is based on cost. And
19	MS. SKILLER: I'm confused	19	of course, as a community we have been
20	about the answer that you gave before	20	told this is what the remedy is going
21	that G-2 and G-3 would cause the	21	to be, and now we are being told,
22	long-term cleanup to take the same	22	well, the second plant is not going to
23	amount of time. I was under the	23	be constructed. It is hard for me as
20	amount of time. I was under the	23	
	Page 87		Page 89
1	Page 87 MOHONK ROAD SUPERFUND SITE	1	Page 89 MOHONK ROAD SUPERFUND SITE
	MOHONK ROAD SUPERFUND SITE	-	MOHONK ROAD SUPERFUND SITE
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2	of, well, this money is no longer	2	backyard.
3	available.	3	MS. DARPINIAN: We have
4	MR. MC DONOUGH: And also it	4	increased the pumping at the
5	was the EPA's obligation to invest \$50	5	groundwater treatment plant much
6	million in this site. After investing	6	higher than we used to be able to.
7	\$50 million, you would think \$5	7	Because we used to drop people's
8	million would be pretty much a drop in	8	private wells down. Now they are
9	the bucket. So I think it is a fair	9	disconnected, we can pump much higher.
10	question to ask: Is one really that	10	But the zone of influence we were
11	much more effective than the other,	11	talking about before, that capture
12	and is one going to get the job done	12	zone, if you're pretty close down here
13	more quickly than the other. And if	13	to 213, that capture zone is not
14	it is going to get it done more	14	extending all the way down here.
15	quickly, it should be a cost and	15	And I didn't know we had
16	benefit analysis, not just a cost	16	artesian well conditions down here.
17	analysis.	17	MR. HAMM: We never used to.
18	I was trying not to be	18	MS. DARPINIAN: It is
19	contrary before, but one of the	19	probably indicative of the water
20	comments I was going to make,	20	table.
21	personally I don't think cost should	21	MR. HAMM: If I didn't open
22	be one of the criteria, but.	22	the one pump in the basement and let
23	MS. CARPENTER: It is by	23	it run out the floor drain, it would
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1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	law.	2	be running out in the neighbor's lawn.
3	MR. MC DONOUGH: No, I	3	MR. BADALAMENTI: There has
4	understand that. I have to deal with	4	been a lot of rain this year. We have
5	the law too, so I understand.	5	increased the pumping. We used to
6	MR. BADALAMENTI: Sir.	6	pump 30 gallons a minute; we are now
7	MR. BOB HAMM: Bob Hamm,	7	close to 50 gallons a minute.
8	Mohonk Road.	8	MRS. STILLER: Would having
9	Are you pumping at any rate	9	a second pump that's another
10	now: Because we have two wells that	10	consideration, people are having their
11	seem to be flooding over, and they	11	lawns routinely flooded.
12	never used to be an artesian well.	12	MS. DARPINIAN: We can't
13	And we were told the reason we had to	13	remediate for something that's not an
14	put the water system in is because	14	environmentally caused problem.
15	when you start the remediation, you're	15	MR. HAMM: There's a slew of
16	going to be pumping all the water out	16	water now running down the road.
17	of the water table. Now the water	17	MS. HURD: It is caused by
18	table is rising, so why didn't we just	18	the whole situation.
19	stay with the filters? We wouldn't be	19	MR. GIBBS: If they would
20	flooding our lawns.	20	just, instead of pumping it into the
21	MR. BADALAMENTI: What area	21	canal, pump it into the creek that
21 22		21 22	canal, pump it into the creek that runs down into the Rondout, it would
	MR. BADALAMENTI: What area		

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2	sounds, that would solve the problem.	2	and the efficacy of one versus the
3	MR. BADALAMENTI: Well, it	3	other or versus both.
4	is going from the canal into the	4	I do appreciate that the EPA
5	Rondout Creek. You're saying it is	4 5	has spent a lot of money, and we have
6	not making it?	6	a great water system, and that's all
7	MR. GIBBS: It sits in the	7	great, and it really is appreciated.
	canal, and then it leaches down into	8	I do also think, in coming to this
8 9	our well, pushing the water up. It's	9	meeting, I feel a little bit that data
10	never happened before. 30 years.	10	hasn't really been given to us. I
11		10	
12	I don't know how long you've	12	wouldn't say it's been given to us in
12	been here, young fella.	12	a non-straight manner or being dishonest, but I feel we are not
14	MR. HAMM: A few years more than that, like 58.	13	
	MR. GIBBS: You see what I'm		getting the whole story. I feel that
15 16		15	way, because maybe I'm wrong because I'm not a scientist and I
	saying. He has more experience than I	16	
17	have.	17	don't know anything. But if someone
18	MR. BADALAMENTI: We are	18	tells me we have two methods of
19	aware there were some artesian areas,	19	dealing with the problem, if we do two
20	like up near Berm Road that has been	20	of them at the same time two people
21	artesian all along. This area might	21	cleaning the floor isn't going to
22	be new to us. Why it's occurring, I'm	22	clean it any quicker than one. I
23	not a hydrologist. I don't know.	23	think I guess there could be
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1	Page 9 MOHONK ROAD SUPERFUND SITE	5 1	Page 97 MOHONK ROAD SUPERFUND SITE
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25 (Pages 94 to 97)

Page 70         Page 70           1         MOHONK ROAD SUPERFUND SITE         MOHONK ROAD SUPERFUND SITE           2         spend a million dollars to get a         2           3         hundred million worth of benefit. 1'm         3           4         not that person. But it is good if we         4           4         not that person. But it is good if we         4           5         all get to hear it and make that         5           6         Judgment. So I just wanted to say         6           7         that.         7         20 years in the future, the population           8         M.R. BADALMENTI: Thank you.         8         has exploded in the area to a great           9         MR. STILLER: I want to ask         9         degree, ten fold. And all of a sudden           10         a question a little off topic, about         10         we are in -1 realized it is a done           11         the census and 500 residents. I'm not         1         all adved to use the water in the ground           12         surg if you were saying, making a         12         support anymore, but we are not           15         the impression that the system was         15         Kind of scenario that I fear.           16         max gended to support. I was under <t< th=""><th></th><th></th><th></th><th></th></t<>				
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1	Page 102 MOHONK ROAD SUPERFUND SITE	1	Page 104 MOHONK ROAD SUPERFUND SITE
2		2	
3	water system from this system all the way to the Ulster County Community	3	residents. The college is calling for 25,000 gallons a day. If and when
		4	<b>.</b>
4 5	College. Now, number one, is this	4 5	that did go into effect, it would take
			a public hearing and authorization of two town boards to do that.
6 7	system designed to facilitate enough	6	MR. ANDERSON: I understand
	water supply to feed that? And can		
8 9	they legally do that? Because this	8 9	from our local legislators that, from
	system was not put in to feed them	10	two of the local legislators that the
10 11	water.		town boards and the Ulster County
	I realize it is probably not	11	Legislature has absolutely nothing to
12	in your expertise. But for volume of	12	say about whether they put dormitories
13	water, I mean that's your expertise.	13	in the college or not.
14	MR. BADALAMENTI: Well, we	14	MR. JOHNSON: The town
15	know what the capacity of the system	15	boards have nothing to say about it,
16	is, and that's black and white.	16	but if they want to supply water to
17	Whether or not the water district	17	it, that's what's going to apply.
18	chooses to expand its service area,	18	With no town board approval, no water.
19	that is not a function of EPA.	19	So it is a ladder, and it is not
20	MR. ANDERSON: Is this	20	something that happens overnight. And
21	system able to supply water to another	21	the plant could supply that.
22	thousand people or 500 people in	22	MR. KLUESNER: If I could
23	dormitories? And of course, if that	23	have one at a time. We can't record
	Page 103	3	Page 105
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	line is put up, we know that there's	2	multiple conversations.
3	going to be additional houses	3	MR. ANDERSON: Basically, it
4	attached. I mean we know basically,	4	is a political matter that the
5	because we know basically, I mean the	5	taxpayers have no voice over. Because
6	locals that are here can see the	6	the Ulster County whatever they
7	handwriting on the wall where this is	7	call the board that runs the college
8	going to go. There's an awful lot of	8	is an entity upon itself. It creates
9	places in Stoneridge that don't have	9	whatever it needs, and it doesn't
10	water right now. Wait a minute, now	10	care.
11	we got a water line coming through	11	I mean this is the voice of
12	here, now we are going to attach onto	12	our two legislators in the area. One
13	this.	13	from the town of Marbletown and one
14	MR. BADALAMENTI: Again, EPA	14	from the town of Rosendale, say the
15	has no authority as to what the water	15	Ulster County Legislature has nothing
16	district chooses to do.	16	to say about whether they put dorms in
17	MR. ANDERSON: That wasn't	17	Stoneridge or not.
18	my question to you. My question is:	18	MR. JOHNSON: Again, if they
19	Is this system designed to hold	19	don't have the water supply, their
20	another thousand residents?	20	wells will not supply that. That's
20		-	
		21	why it never moved any further than it
20 21 22	MR. JOHNSON: My name is	21 22	why it never moved any further than it did. Again, it would still take two
21			why it never moved any further than it did. Again, it would still take two town boards, public hearings,

1			
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	authorization, that the Health	2	going to be an easy thing for them to
3	Department would regulate that. If	3	do, if at all.
4	they don't think the plant could	4	MR. ANDERSON: According to
5	supply it, it is in the going to	5	the last notices they put into the
6	happen. It is not something we can	6	Bluestone Press, etcetera, the college
7	take it to the wire and say we think	7	is actively looking at putting in the
8	we can do it, it is not going to	8	dormitories.
9	happen.	9	MS. HURD: May I ask this
10	MR. ANDERSON: That was my	10	is Kate Reese Hurd is there
11	question to Sal, whether this system	11	conceivably the possibility that the
12	was designed to facilitate the extra	12	treatment plant could be enlarged if
13	people.	13	this plan I mean
14	MR. JOHNSON: Right now it	14	MR. BADALAMENTI: Anything
15	is running at about 18 percent of its	15	is possible.
16	capacity to feed this district.	16	MS. HURD: So the treatment
17	MR. ANDERSON: So that's 18	17	capacity could be larger?
18	percent of 500 people?	18	MR. JOHNSON: Anything is
19	MR. JOHNSON: Of its total	19	possible on that end.
20	capacity right now.	20	MS. HURD: Even though it is
21 22	MR. ANDERSON: That means we	21	using 18 percent of the capacity now,
	could support two or three thousand	22	is that total capacity a just physical
23	people.	23	limit?
	Page 107		Page 109
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MR. JOHNSON: Not to say you	2	MR. MC DONOUGH: Could you
3	would want to do that, because you're	3	double the size of the plant?
4	taxing the plant. I'm saying what the	4	MS. HURD: That we are not
5			
		5	allowed to take more water from
6	plant is capable of producing, we are		
6 7		5	allowed to take more water from
	plant is capable of producing, we are at about 18 percent now. MR. MC DONOUGH: Patrick	5 6	allowed to take more water from Ashokan?
7	plant is capable of producing, we are at about 18 percent now. MR. MC DONOUGH: Patrick McDonough. I know this discussion	5 6 7	allowed to take more water from Ashokan? MR. JOHNSON: We are under a contract from New York City. We can
7 8	plant is capable of producing, we are at about 18 percent now. MR. MC DONOUGH: Patrick	5 6 7 8	allowed to take more water from Ashokan? MR. JOHNSON: We are under a
7 8 9	plant is capable of producing, we are at about 18 percent now. MR. MC DONOUGH: Patrick McDonough. I know this discussion doesn't have much to do with you guys.	5 6 7 8 9	allowed to take more water from Ashokan? MR. JOHNSON: We are under a contract from New York City. We can only take so much water without being
7 8 9 10	plant is capable of producing, we are at about 18 percent now. MR. MC DONOUGH: Patrick McDonough. I know this discussion doesn't have much to do with you guys. But it is going to be a long process,	5 6 7 8 9 10	allowed to take more water from Ashokan? MR. JOHNSON: We are under a contract from New York City. We can only take so much water without being penalized. If the college were to go
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28 (Pages 106 to 109)

1	Page 110		Page 112
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MR. JOHNSON: No, they would	2	via groundwater model, when the
3	have to pay operation and maintenance,	3	original RFS was conducted, and that
4	a bond, things like that. Operation	4	also estimated a 30-year time period.
5	and maintenance, it is not just a free	5	So that's what I've stated here
6	ride.	6	tonight. The time frames are
7	MS. HURD: We would not just	7	basically equivalent.
8	be asked to give away what was ours.	8	MRS. STILLER: But you also
9	It would be	9	agree it doesn't make sense, right?
10	MR. JOHNSON: No, no.	10	Is there a way that you can
11	MR. BADALAMENTI: Mrs.	11	understand, being more knowledgeable
12	Stiller.	12	than I, how that makes sense so you
13	MRS. STILLER: I want to get	13	can explain it to me? Or doesn't that
14	back to the second treatment plant.	14	make sense to you either?
15	MR. BADALAMENTI: Yes, I	15	MR. BADALAMENTI: Well, it
16	know.	16	does make sense. I think the
17	MRS. STILLER: Do you have	17	projections on the most recent method
18	any hard data of the comparison of	18	that we used in the MNA assessment are
19	what the amount of contaminants over	19	likely more accurate than the ones
20	time looks like if G-2 and G-3.	20	that we did nine or ten years ago when
21	Because I feel honestly as a citizen I	21	the original Record of Decision was
22	don't have any hard data on which to	22	signed.
23	make an informed decision. All I have	23	MRS. STILLER: So is it
20		20	
	Dama 111		
	Page 11		Page 113
1	Page 111 MOHONK ROAD SUPERFUND SITE		Page 113 MOHONK ROAD SUPERFUND SITE
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MOHONK ROAD SUPERFUND SITE is you telling me it is going to take	1 2	MOHONK ROAD SUPERFUND SITE possible then in fact the original
2 3	MOHONK ROAD SUPERFUND SITE is you telling me it is going to take the same amount of time, which	1 2 3	MOHONK ROAD SUPERFUND SITE possible then in fact the original assessments were too pessimistic?
2 3 4	MOHONK ROAD SUPERFUND SITE is you telling me it is going to take the same amount of time, which logically doesn't make sense to me.	1 2 3 4	MOHONK ROAD SUPERFUND SITE possible then in fact the original assessments were too pessimistic? MR. BADALAMENTI: I don't
2 3 4 5	MOHONK ROAD SUPERFUND SITE is you telling me it is going to take the same amount of time, which logically doesn't make sense to me. MR. CARLIN: Could your	1 2 3 4 5	MOHONK ROAD SUPERFUND SITE possible then in fact the original assessments were too pessimistic? MR. BADALAMENTI: I don't know.
2 3 4 5 6	MOHONK ROAD SUPERFUND SITE is you telling me it is going to take the same amount of time, which logically doesn't make sense to me. MR. CARLIN: Could your modelers generate a graph?	1 2 3 4 5 6	MOHONK ROAD SUPERFUND SITE possible then in fact the original assessments were too pessimistic? MR. BADALAMENTI: I don't know. MRS. STILLER: No, I'm just
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1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	were done, the model for the MNA and	2	combine the two? Because otherwise it
3	the model for the second plant, each	3	doesn't make sense. Know what I mean?
4	of which looks like it will be about	4	MR. MC DONOUGH: Right. So
5	30 years, and you're going to check to	5	my question, to follow that up, was if
6	see if the models were combined,	6	the models were not combined, to see
7	because you weren't sure of that. And	7	if it has sort of a cumulative effect
8	I'd just like to know that that will	8	by doing both at the same time, will
9	be checked, and if the two models were	9	those models be done and will we be
10	not done together, will they be done	10	able to see the results of that?
11	together, and if they are done	11	MR. BADALAMENTI: We'll
12	together, will we get the results of	12	respond to that in the responsiveness
13	that?	13	document.
14	MS. CARPENTER: I'm trying	14	MR. STILLER: We will spend
15	to think of what components are in	15	that money anyway.
16	that. Let me just make sure that I	16	MS. HURD: This is Kate.
17	have the there was a lot in that	17	To clarify, we are talking
18	statement.	18	about a second treatment plant for the
19	MR. BADALAMENTI: Yeah.	19	far-field plume. So we are talking
20	MS. CARPENTER: I started	20	about a lesser degree of contamination
21	writing stuff down. There's a request	21	to start with.
22	on the modeling of the two plants	22	MS. DARPINIAN: Absolutely.
23	operating simultaneously?	23	MS. HURD: And not to give
	David 441		De
1	Page 11	1	Page 117 MOHONK ROAD SUPERFUND SITE
2			MOTIONK KOAD SUFERI UND SITE
<b>Z</b>		2	you ally an out or comothing but is
2	MR. BADALAMENTI: Yes.	2	you guys an out or something, but is
3	MR. MC DONOUGH: Yes,	3	it that it is much more effective and
4	MR. MC DONOUGH: Yes, adding	3 4	it that it is much more effective and immediate getting a larger amount of
4 5	MR. MC DONOUGH: Yes, adding MS. CARPENTER: Okay, that	3 4 5	it that it is much more effective and immediate getting a larger amount of contamination out than it is to get a
4 5 6	MR. MC DONOUGH: Yes, adding MS. CARPENTER: Okay, that would be one.	3 4 5 6	it that it is much more effective and immediate getting a larger amount of contamination out than it is to get a smaller amount? And if that's part of
4 5 6 7	MR. MC DONOUGH: Yes, adding MS. CARPENTER: Okay, that would be one. MR. MC DONOUGH: Adding the	3 4 5 6 7	it that it is much more effective and immediate getting a larger amount of contamination out than it is to get a smaller amount? And if that's part of the reason for thinking that maybe it
4 5 6 7 8	MR. MC DONOUGH: Yes, adding MS. CARPENTER: Okay, that would be one. MR. MC DONOUGH: Adding the second plant.	3 4 5 6 7 8	it that it is much more effective and immediate getting a larger amount of contamination out than it is to get a smaller amount? And if that's part of the reason for thinking that maybe it equals out? But we really do need to
4 5 6 7 8 9	MR. MC DONOUGH: Yes, adding MS. CARPENTER: Okay, that would be one. MR. MC DONOUGH: Adding the second plant. MS. CARPENTER: Right. So	3 4 5 6 7 8 9	it that it is much more effective and immediate getting a larger amount of contamination out than it is to get a smaller amount? And if that's part of the reason for thinking that maybe it equals out? But we really do need to see that there's not just a cost
4 5 7 8 9 10	MR. MC DONOUGH: Yes, adding MS. CARPENTER: Okay, that would be one. MR. MC DONOUGH: Adding the second plant. MS. CARPENTER: Right. So having two plants operating	3 4 5 6 7 8 9 10	it that it is much more effective and immediate getting a larger amount of contamination out than it is to get a smaller amount? And if that's part of the reason for thinking that maybe it equals out? But we really do need to see that there's not just a cost evaluation, but cost-benefit, and
4 5 7 8 9 10 11	MR. MC DONOUGH: Yes, adding MS. CARPENTER: Okay, that would be one. MR. MC DONOUGH: Adding the second plant. MS. CARPENTER: Right. So having two plants operating simultaneously.	3 4 5 6 7 8 9 10 11	it that it is much more effective and immediate getting a larger amount of contamination out than it is to get a smaller amount? And if that's part of the reason for thinking that maybe it equals out? But we really do need to see that there's not just a cost evaluation, but cost-benefit, and that
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4 5 7 8 9 10 11 12 13 14	MR. MC DONOUGH: Yes, adding MS. CARPENTER: Okay, that would be one. MR. MC DONOUGH: Adding the second plant. MS. CARPENTER: Right. So having two plants operating simultaneously. MR. STILLER: I have to jump in, because I think I brought this up at the beginning. For me, it was not	3 4 5 6 7 8 9 10 11 12 13 14	it that it is much more effective and immediate getting a larger amount of contamination out than it is to get a smaller amount? And if that's part of the reason for thinking that maybe it equals out? But we really do need to see that there's not just a cost evaluation, but cost-benefit, and that MR. BADALAMENTI: It is not just a cost evaluation and decision. MS. HURD: But we are
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. MC DONOUGH: Yes, adding MS. CARPENTER: Okay, that would be one. MR. MC DONOUGH: Adding the second plant. MS. CARPENTER: Right. So having two plants operating simultaneously. MR. STILLER: I have to jump in, because I think I brought this up at the beginning. For me, it was not just about the two plants simultaneously. Because from what I'm hearing, it's one model was MNA, the other model was the second treatment plant. However, the second pumping treatment does not exist without the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	it that it is much more effective and immediate getting a larger amount of contamination out than it is to get a smaller amount? And if that's part of the reason for thinking that maybe it equals out? But we really do need to see that there's not just a cost evaluation, but cost-benefit, and that MR. BADALAMENTI: It is not just a cost evaluation and decision. MS. HURD: But we are starting at a lower level of contamination and to get it to go lower yet maybe is MS. NAVRATIL: You're correct. A lot of analyses are like that. You get to a point where you

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1		1	
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	and you keep pumping and pumping and	2	estimated the cost of that, because we
3	pumping, and it is still there. So	3	felt what was done was being
4	that all goes into the analysis as	4	effective.
5	well.	5	MR. GIBBS: County should
6	MS. HURD: So you have to	6	have though, right.
7	pump more water to get less out.	7	MS. DARPINIAN: County would
8	MS. NAVRATIL: Right.	8	not, because they were not scoped to
9	MR. BADALAMENTI: Yes, sir.	9	do that.
10	MR. CARLIN: Roy Carlin.	10	MR. BADALAMENTI: Yes,
11	I could understand perhaps	11	that's right.
12	how the end points of both at 30 years	12	MR. GIBBS: Is there a
13	might be the same. But the	13	possibility of getting that
14	decontamination on a timeline might be	14	information, discerning what type of
15	much greater with the two plants than	15	project it would be?
16	one plant. So I think that your	16	MR. BADALAMENTI: I'll
17	report, in order to be helpful, has to	17	MR. GIBBS: get the
18	show this on a timeline basis rather	18	hydrologist.
19	than at the end of 30 years only.	19	MR. BADALAMENTI: You know,
20	MR. BADALAMENTI: These are	20	it is not a simple matter of just
21	very difficult things to model in the	21	costing out a piece of pipe.
22	first place, especially with the	22	MR. GIBBS: It is a big fat
23	hydrogeology around here, with the	23	pipe.
20	hjurogoology uround here, with the	20	pipe.
	Page 119		Page 121
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	fractured bedrock. If you recall, we	2	MR. BADALAMENTI: We'll
3	couldn't even predict whether if this	3	respond to your concern in the
4	house's well was contaminated, the	4	Responsiveness Summary.
4 5	house's well was contaminated, the house next door may not have been	4 5	Responsiveness Summary. MR. GIBBS: Please.
5	house next door may not have been	5	MR. GIBBS: Please.
5 6	house next door may not have been contaminated. So it is very difficult	5 6	MR. GIBBS: Please. MR. BADALAMENTI: Yes.
5 6 7	house next door may not have been contaminated. So it is very difficult to make predictions with regard to the	5 6 7	MR. GIBBS: Please. MR. BADALAMENTI: Yes. MR. MC DONOUGH: Patrick
5 6 7 8	house next door may not have been contaminated. So it is very difficult to make predictions with regard to the rates of degradation and which way the	5 6 7 8	MR. GIBBS: Please. MR. BADALAMENTI: Yes. MR. MC DONOUGH: Patrick McDonough again.
5 6 7 8 9	house next door may not have been contaminated. So it is very difficult to make predictions with regard to the rates of degradation and which way the groundwater is going on a more	5 6 7 8 9	MR. GIBBS: Please. MR. BADALAMENTI: Yes. MR. MC DONOUGH: Patrick McDonough again. Just to follow up on what
5 6 7 8 9 10	house next door may not have been contaminated. So it is very difficult to make predictions with regard to the rates of degradation and which way the groundwater is going on a more small-scale basis. So that also	5 6 7 8 9 10	MR. GIBBS: Please. MR. BADALAMENTI: Yes. MR. MC DONOUGH: Patrick McDonough again. Just to follow up on what was said before on the efficiency of
5 6 7 8 9 10 11	house next door may not have been contaminated. So it is very difficult to make predictions with regard to the rates of degradation and which way the groundwater is going on a more small-scale basis. So that also affects these modeling results.	5 6 7 8 9 10 11	MR. GIBBS: Please. MR. BADALAMENTI: Yes. MR. MC DONOUGH: Patrick McDonough again. Just to follow up on what was said before on the efficiency of doing the groundwater extraction in
5 6 7 8 9 10 11 12	house next door may not have been contaminated. So it is very difficult to make predictions with regard to the rates of degradation and which way the groundwater is going on a more small-scale basis. So that also affects these modeling results. Sir.	5 6 7 8 9 10 11 12	MR. GIBBS: Please. MR. BADALAMENTI: Yes. MR. MC DONOUGH: Patrick McDonough again. Just to follow up on what was said before on the efficiency of doing the groundwater extraction in the 5 parts per billion section of the
5 6 7 8 9 10 11 12 13	house next door may not have been contaminated. So it is very difficult to make predictions with regard to the rates of degradation and which way the groundwater is going on a more small-scale basis. So that also affects these modeling results. Sir. MR. GIBBS: I don't want to	5 6 7 8 9 10 11 12 13	MR. GIBBS: Please. MR. BADALAMENTI: Yes. MR. MC DONOUGH: Patrick McDonough again. Just to follow up on what was said before on the efficiency of doing the groundwater extraction in the 5 parts per billion section of the plume, would it make sense to place
5 6 7 8 9 10 11 12 13 14	house next door may not have been contaminated. So it is very difficult to make predictions with regard to the rates of degradation and which way the groundwater is going on a more small-scale basis. So that also affects these modeling results. Sir. MR. GIBBS: I don't want to kill a dead horse again, but what	5 6 7 8 9 10 11 12 13 14	MR. GIBBS: Please. MR. BADALAMENTI: Yes. MR. MC DONOUGH: Patrick McDonough again. Just to follow up on what was said before on the efficiency of doing the groundwater extraction in the 5 parts per billion section of the plume, would it make sense to place the extraction point in the model in
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1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	section of the plume.	2	with that would be evaluated. So it's
3	MR. BADALAMENTI: Because	3	evaluated on and eventually, as Sal
4	you're pumping nearly clean water.	4	will probably say, this will revert to
5	MS. CARPENTER: Honestly, an	5	the state, and the state will keep an
6	extraction well wouldn't go into the 5	6	eye on the site and make sure that the
7	part per billion. When you do	7	remedy is working as expected. If
8	remedial design, you have conceptual	8	not, other options will be evaluated
9	designs at the early phase.	9	to deal with the situation.
10	MR. MC DONOUGH: I did see	10	MRS. STILLER: That is a
11	that in one of the pictures that it	11	little bit what I'm worried about.
12	was in the 5 parts.	12	Because I feel that now this is a
13	MS. CARPENTER: An	13	Superfund site that's being handled by
14	extraction? There is monitoring wells	14	EPA. And I don't know how it works in
15	in that area.	15	terms of how long EPA has the
16	MR. MC DONOUGH: Okay, thank	16	responsibility to continue to provide
17	you.	17	oversight. But the finances of New
18	MR. BADALAMENTI: The	18	York State aren't terrific. So I
19	proposed location of a second plant	19	would say that if five or ten years
20	and where its extraction points would	20	down the line I knew that EPA has done
21	be have not been even evaluated.	21	what its responsibility is and that it
22	MR. MC DONOUGH: But it	22	gets handed over to the state, that
23	wouldn't be in the five.	23	makes me nervous, because I think what
25		25	makes the hervous, because I think what
	Page 123		Page 125
1	Page 123 MOHONK ROAD SUPERFUND SITE	1	Page 125 MOHONK ROAD SUPERFUND SITE
	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
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2 3	MOHONK ROAD SUPERFUND SITE MR. BADALAMENTI: Wouldn't be in the five. The far-field plume	1 2 3	MOHONK ROAD SUPERFUND SITE if projections are wrong and ten years from now it is no longer under the
2 3 4	MOHONK ROAD SUPERFUND SITE MR. BADALAMENTI: Wouldn't be in the five. The far-field plume is anywhere from five to one thousand	1 2 3 4	MOHONK ROAD SUPERFUND SITE if projections are wrong and ten years from now it is no longer under the rubric of EPA and we have to ask the
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1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	over the remedy. That goes for the	2	been restored, there is no residual
3	groundwater pump and treat plant at	3	source on site. We are done, the
4	the main site, and then there would be	4	state EPA, whatever. And that may be
5	a separate tenure clock for the MNA	5	at some point several decades in the
6	component of this.	6	future. But transfer to the state
7	MR. STILLER: So at least	7	does not remove it from the federal
8	another ten years.	8	Superfund list.
9	MS. HURD: Of the MNA.	9	MR. BADALAMENTI: Mr.
10	MR. BADALAMENTI: The	10	McDonough.
11	groundwater plant has been operating	11	MR. MC DONOUGH: Let me say
12		12	I misspoke before because I looked
13	eight. MS. CARPENTER: Yes, the	13	
			back in the document. And all it says
14	groundwater treatment plant has been	14	about the second extraction site is
15	operating since 2000.	15	that it is not on the MRIP. That it
16	MR. STILLER: But the MNA,	16	is just off that property, so.
17	when does that start?	17	MR. BADALAMENTI: With that,
18	MR. BADALAMENTI: If we make	18	seeing no further hands.
19	the decision to go ahead with MNA, it	19	MR. KOEHLER: Martin
20	will be this year.	20	Koehler. I have never commented, and
21	MR. HAMM: If you don't	21	my concerns are being a retired water
22	start it, then the clock doesn't	22	plant treatment operator, I went
23	start. So then you're back to the	23	through the plant, everything is going
1		1	Page 129
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	MOHONK ROAD SUPERFUND SITE clock of 2000 and in 2000, my God,	2	MOHONK ROAD SUPERFUND SITE beautifully. I think you have a great
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	Page 130		Page 132
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	wear many hats also, so I'm familiar	2	all parties, including the state
3	with another problem claiming the	3	Health Department who inspected the
4	water table is up too high. Well,	4	plant's specifications with regard to
5	that naturally, this day and age can	5	the types of hydrants, I know
6	be rectified and remedied with washed	6	representatives of the town reviewed
7	stone, similar to a septic system, to	7	the plans specifications as well.
8	drain. Which should have been done	8	There may be several types of hydrants
9	actually. I'm sort of concerned about	9	available, frost-free hydrants versus
10	that.	10	these that have to be pumped out.
11	And I have a little gripe	11	MR. HAMM: It is just the
12	against Conti. I have been bringing	12	fact that they left the plug in the
13	into my property loads of Item 4 and	13	bottom. If the plug was removed, it
14	topsoil and so on. I have a lot of	14	would drain.
15	cave-in, and I had promises they were	15	MR. KOEHLER: It is that
16	going to do work for me. And they	16	simple.
17	were here like about a month ago and	17	MR. JOHNSON: It's
18	they showed up so late with blacktop,	18	contaminated water. You can't take
19	that I told them to get off the	19	that chance. You can never take that
20	property. I mean the blacktop do	20	chance. If the water is contaminated,
21	you have a torch, and thank God I do	21	we spent \$20 million, you don't want
22	have a roofers torch, the kind that	22	that water touching potable water. It
23	blows 500,000 BTUs a second. I tried	23	goes contrary to our backflow
20		20	
	Page 131		Page 133
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	to heat up the blacktop, I couldn't	2	prevention program. You just don't
3	even heat that up to work it.	3	want to have it. To be inconvenienced
4	So I'm wondering, what's my	4	at a pump hydrant to have to pump out
5	stance on getting Conti to come back.	5	a hydrant is well worth the safety
6	MR. BADALAMENTI: We had	6	value.
7	several meetings where we asked if	7	MR. BADALAMENTI: There's
8	there was any restoration issues?	8	the answer.
9	MR. KOEHLER: They promised	9	MR. KOEHLER: Hooked up to
10	me, said they were going to come back	10	the water supply, the check valve,
11	and do it, they were here about a	11	there is no groundwater.
12	month ago, promised me they were going	12	MR. JOHNSON: If that check
13	to get to it, and then they are gone	13	valve fails, when it gets sick, this
14	again.	14	water is not good. It is NG, no good.
15	MR. BADALAMENTI: I'll look	15	MR. KOEHLER: If it is
16	into whether your concern was raised	16	hooked up to the supply pipe.
	earlier and whether or not it was	17	MR. JOHNSON: There's only
117		/	
17 18			one nine. It comes off every supply
18	addressed.	18	one pipe. It comes off every supply
18 19	addressed. MR. KOEHLER: Thank you.	18 19	pipe. That would mean running double
18 19 20	addressed. MR. KOEHLER: Thank you. Because my name was on that list. And	18 19 20	pipe. That would mean running double pipes, double the cost. It is an
18 19 20 21	addressed. MR. KOEHLER: Thank you. Because my name was on that list. And I didn't see any results, okay.	18 19 20 21	pipe. That would mean running double pipes, double the cost. It is an inconvenience we will have to deal
18 19 20	addressed. MR. KOEHLER: Thank you. Because my name was on that list. And	18 19 20	pipe. That would mean running double pipes, double the cost. It is an

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		1	Page 136 MOHONK ROAD SUPERFUND SITE
	MOHONK ROAD SUPERFUND SITE	1	
2	New York City water.	2	Conti to get in touch with me.
3	MR. JOHNSON: It is the	3	MR. BADALAMENTI: Well,
4	groundwater that's in there. So that	4	we'll have the Corps of Engineers
5	hydrant sits in there. He's talking	5	representative look at the records and
6	about artesian, he's got water running	6	see what was supposed to have been
7	in your yard. I don't care how much	7	done and whether it was done.
8	washed stone you put around that	8	MR. KOEHLER: Thank you.
9	hydrant, if I have a low pressure	9	MR. BADALAMENTI: Are there
10	situation or water main break, it can	10	any other concerns?
11	literally pull that water back into	11	MR. KLUESNER: We want to
12	the system. You don't want that to	12	thank you for coming out. And as I
13	happen.	13	said on the fact sheet, the comment
14	MR. BADALAMENTI: It is a	14	period runs through August 6. And you
15	health problem.	15	have the contact information up there
16	MR. KOEHLER: As far as the	16	in terms of any further comments.
17	pumping, what we are talking about,	17	We heard a lot of good
18	aeration of the contaminated water,	18	things tonight. I think this has
19	purified by air and sun. But you can	19	really served the purpose of having a
20	only pump a certain amount due to the	20	public forum like this, hearing some
21	fact how much rain you get, water	21	suggestions, hearing some very good
22	going into the aquifer to pump back	22	questions and having us go back and
23	out, so a second pumping station	23	take a look at some of the matters and
	Page 135		Page 137
1	MOHONK ROAD SUPERFUND SITE	1	MOHONK ROAD SUPERFUND SITE
2	doesn't necessarily you know, it is	2	really try to address those concerns
3			
5	going to do the trick as far as my	3	to the best of our ability.
4	going to do the trick as far as my knowledge is.	3 4	
	• •		to the best of our ability.
4	knowledge is.	4	to the best of our ability. So thank you all for coming
4 5	knowledge is. If this was 25 or 30 years	4 5	to the best of our ability. So thank you all for coming
4 5 6	knowledge is. If this was 25 or 30 years ago, it would have been a fence around	4 5 6	to the best of our ability. So thank you all for coming out and thank you.
4 5 6 7	knowledge is. If this was 25 or 30 years ago, it would have been a fence around High Falls, because from my	4 5 6 7	to the best of our ability. So thank you all for coming out and thank you. (Whereupon, the meeting
4 5 6 7 8	knowledge is. If this was 25 or 30 years ago, it would have been a fence around High Falls, because from my understanding this was worse than Love	4 5 6 7 8	to the best of our ability. So thank you all for coming out and thank you. (Whereupon, the meeting
4 5 6 7 8 9	knowledge is. If this was 25 or 30 years ago, it would have been a fence around High Falls, because from my understanding this was worse than Love Canal, okay, this contamination, yes.	4 5 6 7 8 9	to the best of our ability. So thank you all for coming out and thank you. (Whereupon, the meeting concluded at 9:05 p.m.)
4 5 7 8 9 10	knowledge is. If this was 25 or 30 years ago, it would have been a fence around High Falls, because from my understanding this was worse than Love Canal, okay, this contamination, yes. MR. BADALAMENTI: Well, the	4 5 7 8 9 10	to the best of our ability. So thank you all for coming out and thank you. (Whereupon, the meeting concluded at 9:05 p.m.)
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	CERTIFICATION         I, Karen Schmieder, a         Certified Shorthand Reporter, Certificate         No. 768, and Notary Public, do hereby         certify that I recorded stenographically the         proceedings herein at the time and place         noted in the heading hereof, and that the         foregoing transcript is true and accurate to         the best of my knowledge, skill and         ability.         IN WITNESS WHEREOF, I have         hereunto set my hand this 21st day of July         2008.         KAREN SCHMIEDER, CSR, RMR         Registered Diplomate Reporter		