# Ingersoll Rand Company
## Woodcliff Lake, New Jersey

# Groundwater Remedial Investigation Work Plan for the Former Ingersoll Rand Co. Facility – Phillipsburg, New Jersey

**ENSR Corporation**
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# 1.0 INTRODUCTION

ENSR has prepared this *Groundwater Remedial Investigation Workplan (GW-RIWP) and Response to NJDEP Comments Dated October 25, 2004* on behalf Ingersoll-Rand Company (IR) for their former property located in Phillipsburg, Warren County, New Jersey. The Site is shown on the USGS 7.5-minute Topographic Quadrangle Map for Easton, PA-NJ, a portion of which is included as Figure 1. A Site plan is included as Figure 2.

This report presents a response to New Jersey Department of Environmental Protection (NJDEP) comments to previous groundwater submissions (NJDEP's October 25, 2004 letter) (Section 2 of this work plan), summarizes the current conceptual model for the Site (Sections 3 and 4) and provides an updated Remedial Investigation Workplan to assess liquid- and dissolved-phase impacts previously identified in groundwater across the former IR property (Section 5). Specifically, light non-aqueous phase liquid (LNAPL) has been identified on the surface of the groundwater table below portions of the former facility area. Additionally, dissolved-phase chlorinated organic compounds have been identified at concentrations in excess of the NJDEP Groundwater Quality Standards (GWQS) at various monitoring wells across the former IR site (Site). ENSR has been continuing groundwater monitoring and investigation as per the NJDEP approved 2002 *Groundwater-Remedial Investigation Work Plan (GW-RIWP)*. However, based on NJDEP's October 25, 2004 comment letter as well as additional discussions with NJDEP, this updated *GW-RIWP* is being presented.

This 2005 *GW-RIWP and Response to NJDEP Comments* has been prepared in accordance with the following documents:

- March 14, 1994 Administrative Consent Order (ACO) and subsequent amendments between Ingersoll-Rand and the New Jersey Department of Environmental Protection (NJDEP), which is currently being administered by the Office of Brownfield Reuse;
- June 1994 *Draft Remedial Investigation Work Plan (Draft RIWP)*;
- The Technical Requirements for Site Remediation (N.J.A.C.7:26E) as amended on February 3, 2003;
- May 1992 NJDEP Field Sampling Procedures Manual;
- November 2004 *Site History Report* (*SHR*); and the
- NJDEP letter dated October 25, 2004.

In addition, ENSR has addressed additional comments from the NJDEP based on the June 20, 2005 meeting to discuss the draft of this GW-RIWP.

The purpose of the work proposed in this plan is to set forth procedures and decision framework for the collection of sufficient information and data to define the extent of groundwater impacts in excess of

applicable standards and to identify possible sources of groundwater impact so that remedial alternatives may be identified and evaluated.

Soil investigation and remedial actions are being conducted independently from groundwater and will be presented in separate submissions to NJDEP.

## 1.1 Background

Ingersoll-Rand began facility construction in Phillipsburg in 1903 and the facility underwent various expansions and renovations throughout the following 100 years. According to previous reports, the facility produced products such as pumps, turbo equipment, air and gas compressors, rock drills, and mining equipment. The facility also maintained an active iron and steel foundry onsite, which was operated to process the raw materials for manufacturing operations. Since 1973, facility operations have been declining. Restructuring activities resulted in closing or moving almost all previous facility operations. In September 2004 IR sold the property to Preferred Real Estate Investments (PREI) d/b/a Phillipsburg Associates, LP; Phillipsburg Associates I, LP; Phillipsburg Associates II, LP; and Phillipsburg Associates III, LP. Currently, the activities conducted on Site include pump R&D and assembly and associated activities by FlowServe, Inc. and Curtiss Wright Electro Mechanical Corp who lease portions of the property from Phillipsburg Associates; structural steel fabrication by Blue Ridge Steel who lease Buildings #16 and #19; and school bus operations by Village Bus who leases Building #37, the former IRTO truck terminal. Various unused buildings utilized in former manufacturing processes are vacant or have been demolished. A detailed history along with historic Site plans was provided in the October 2004 *SHR.* A current Site plan was included as Figure 2.

Based on the recent sale of the property to PREI, as well as to accommodate their proposed development at the Site, IR has accelerated environmental investigations and remedial measures pertaining to soil areas of concern (AOCs) in an effort to facilitate the planned redevelopment activities across the Site. Soil impacts across the Site are being addressed separately from groundwater and are being reported in separate submissions to NJDEP. A list of documents describing soil conditions at the Site is provided in Section 9.0 – References.

Groundwater investigations at the Site began voluntarily by Ingersoll-Rand in the mid-1970s when light non-aqueous phase liquid (LNAPL) was discovered on the groundwater table. Subsequent investigation identified a plume of LNAPL at the Site. Consequently, use of two on-site potable water supply wells was discontinued. One potable water well, installed in 1934, remains in use with an air stripper to remove dissolved phase organic constituents. A network of monitoring wells, recovery wells, and test holes has been installed throughout the Site to monitor groundwater and recover LNAPL. A summary of Site wells is presented in Table 1. Monitoring, recovery, and potable well locations are shown on Figure 2.

## 1.2 Project History

Environmental investigations at the Site were commenced in response to the identification of LNAPL on the groundwater surface beneath the plant area in the 1970s as well as in response to NJDEP inspections that identified a potentially leaking above-ground storage tank (AST) in the facility area (AOC-19 Air Trappage Tank). Between 1986 and 1994, (when the *Draft RIWP* was submitted to NJDEP by Tellus Consultants) a total of 36 AOCs were identified. By late 2004, 45 individual AOCs had been identified with an additional 15 general AOCs that grouped multiple newly identified AOCs within broad classifications (e.g., AOC-54 – former ASTs and USTs). Newly identified AOCs are present at various locations across the former operational areas of the Site. The 2004 *SHR* detailed the AOCs identified and will not be repeated here. Of the AOCs listed, several groundwater related AOCs were identified: AOC-18 (MW-5, MW-24, and MW-26 area), AOC-42 (groundwater west of LNAPL Plume), AOC-43 (LNAPL Plume), and AOC-44 (Dissolved Phase Chlorinated Compounds). All groundwater AOCs are now being addressed as part of a site-wide groundwater investigation.

Groundwater analytical data have been historically collected for many of the onsite wells and have been submitted to NJDEP in various reports and presentations. From January 1995 through April 2002, monthly groundwater level and product thickness data were collected for this Site and submitted to NJDEP. Since that time, ENSR has been collecting water level and product thickness data on a quarterly basis with annual submissions to NJDEP. Historic groundwater elevation and product thickness data are summarized in Table 2. The most recent round of groundwater analytical data (October 2004) is summarized in Appendix A. A groundwater elevation contour map from the data collected in January 2005 is presented as Figure 3

### 1.2.1 Previous Groundwater Related Submissions and Agency Correspondence

The following summarizes submissions pertinent to the ongoing groundwater investigations.

- Progress Report – Groundwater Investigation Report (Woodward-Clyde, 1976);
- Report on the Hydrogeologic Investigation of the Phillipsburg Landfill (Capsule, 1983);
- Progress Report: Installation of Additional Wells as Required by Discharge to Groundwater Permit NJ0078484 (Tellus, 1992);
- Progress Report: Installation of Monitoring Wells 24, 25, 26 (Tellus, 1993);
- Draft Remedial Investigation Work Plan (Tellus, 1994);
- Supplement to the Draft Remedial Investigation Work Plan (Tellus, 1994);
- Groundwater Reports – Update to the Supplement to the Draft Remedial Investigation Workplan (ENSR, 1995);
- Free Product Remedial Investigation Report (ENSR, September 1997);
- Remedial Investigation Report – AOC 18 (ENSR, March 2000);
- NFA Request for Old Landfill (AOC-29) (ENSR, April 2002)

- Groundwater Remedial Investigation Work Plan (ENSR, February 2002);
- Groundwater Remedial Investigation Report (ENSR, November 2002);
- Annual Groundwater Monitoring Report and Supplemental Remedial Investigation Report (ENSR, November 2003); and
- 2004 Annual Groundwater Monitoring Report and Supplemental Remedial Investigation Report (ENSR, January 2005).

NJDEP responded to many of these reports with requests for additional investigations. Specific NJDEP correspondence relevant to the ongoing groundwater investigations are as follows.

- October 18, 1994 – Re: Ingersoll-Rand *Draft Remedial Investigation Work Plan*;
- March 28, 1995 – Re: Ingersoll-Rand *Supplement to the Draft Remedial Investigation Work Plan*;
- February 11, 1998 – Re: *Free Product Remediation Investigation*;
- October 12, 2000 – Re: *Report of AOC 18 Remedial Investigation*;
- March 6, 2002 – Re: *Southside AOC Remedial Investigation Report*;
- July 9, 2002 – Re: *Groundwater Remedial Investigation Workplan*;
- October 28, 2003 – Re: *Groundwater Remedial Investigation Report*; and
- October 25, 2004 – Re: *Annual Groundwater Monitoring Report*, *ENSR Response to NJDEP letter Dated October 28, 2003*, and *Preliminary Assessment*.

### 1.2.2 Groundwater Investigation History

The investigation into the LNAPL in groundwater began shortly after the installation of WW-2, a new Site production well, in 1974. During the development of WW-2, before connecting it to the water system on Site, oil and grease were detected in the purge water. According to a 1976 Woodward-Clyde *Progress Report*, the LNAPL found in WW-2 had not migrated to WW-1 and WW-3 illustrating no hydraulic connection between the three wells. Numerous sinkholes formed in the area of WW-2 (between 150 and 500 feet from the well) during drilling and development. While trying to characterize the local aquifer, Woodward-Clyde pumped 230,000 gallons from WW-2 into a large sinkhole located 300 feet south of the well over an eight-hour period. During the pump test, the sinkhole did not overflow nor was there evidence that the water pumped into the sinkhole aided the recovery/recharge of WW-2. Woodward-Clyde hypothesized that the 230,000 gallons of water removed was not enough to show any effect on the recharge of the well. Subsequently, an unnamed monitoring well was installed near WW-2 to 118 feet below ground surface to investigate the LNAPL plume. The *Progress Report* indicated that a petroleum-like odor was observed, but did not indicate whether samples were collected or if product was encountered. Additionally, the *Progress Report* discussed collapse of the well to 63 feet below ground surface (bgs) but did not present definitive information detailing the present well ID or if the well was abandoned after collapse. Based on available information, this well may be the current MW-9, former test hole TH-40, or another previously installed and abandoned well.

Due to USEPA involvement and the identification of the Old Landfill as a potential source of LNAPL in groundwater, a hydrogeologic investigation of the landfill was conducted in the early 1980s and reported in Capsule's *1983 Report on the Hydrogeologic Investigation of the Phillipsburg Landfill*. The report concluded that test pits conducted as part of the investigation showed no evidence of free liquid or unusual odors; soils samples had reported metals impacts; up-gradient and down-gradient wells reported volatile organic impact; and that the landfill did not pose a threat to surface water or groundwater in the vicinity, leading to Capsule's recommendation for no further action for the landfill.

Early groundwater remedial activities were conducted under NJDEP oversight via a NJPDES Discharge to Groundwater (DGW) permit (Permit No. NJ0078484), which was required at the time for investigation of groundwater impacts potentially associated with a landfill. Under this permit IR installed approximately 45 monitoring and recovery wells between July 1982 and November 1992. Reports detailing a portion of these activities were submitted between 1992 and 1994 and included the 1992 *Installation of Additional Monitoring Wells as Required by DGW Permit NJ0078484*, the 1992 *Progress Report – Installation of Monitoring Wells*, and the 1993 *Progress Report – Installation of Monitoring Wells 24, 25, and 26*. These reports presented continuing activities to investigate and remediate the LNAPL plume.

After submission of the 1994 *Draft RIWP*, NJDEP indicated that groundwater investigations would no longer be conducted under the DGW permit due to a change in regulations, and continued investigation would be conducted under an ACO which was signed on March 14, 1994. Additionally, as presented in NJDEP's October 18, 1994 letter, a more complete groundwater investigation would be required.

A supplemental *Draft RIWP* was submitted to the NJDEP in November 1994 provided additional data to the *Draft RIWP* concerning Site geologic data, LNAPL plume perimeter in 1994, groundwater results to date, and Site history of the tank farm and possible LNAPL sources.

In response to the NJDEP's 1994 letter, a 1995 *Groundwater Reports – Update to Supplement to the Draft Remedial Investigation Workplan* was submitted to NJDEP and provided additional information regarding LNAPL remediation, groundwater monitoring activities, and the likelihood that the Old Landfill was not contributing to groundwater impacts.

NJDEP responded to the above submissions in a March 28, 1995 letter indicating more information and additional groundwater investigation was required.

In September 1997 a *Free Product Remedial Investigation Report* was submitted to NJDEP and detailed activities were conducted to characterize groundwater flow and LNAPL conditions through the use of pumping tests. Results of this study indicated that a groundwater divide was present through the central portion of the Site, and LNAPL would not likely have the ability to migrate westward;

product may have the ability to migrate southeast although hydraulic conductivity is very low except where solution cavities exist. Recommendations included continued product recovery with water table depression to maintain hydrodynamic control of the western portion of the LNAPL plume.

NJDEP responded to the 1997 report in a February 11, 1998 letter indicating that a more comprehensive hydrogeologic study should be completed.

During 1998 and 1999, supplemental activities were conducted to evaluate the LNAPL identified at MW-5 which was identified as AOC-18. Findings, reported in the 2000 *Remedial Investigation Report – AOC 18*, indicated that LNAPL from the main plume area (AOC 43) may have been migrating to the MW-5 area and that no appreciable dissolved phase impact had occurred from the LNAPL plume. Recommendations made in this report included the continuation of LNAPL recovery and the evaluation of MW-5 for the installation of a LNAPL recovery system. A pneumatic recovery system was installed in late 2002 as a pilot test for recovery operations at that location. This recovery system began full scale operation in early 2004.

Based on continuing soil investigations and a request for NFA at Old Landfill (AOC-29), NJDEP requested (in their March 6, 2002 letter) that a groundwater investigation of the Old Landfill be conducted.

In 2002, IR initiated a review of groundwater data to comply with NJDEP's request. This review was conducted simultaneously with the preparation of a comprehensive *Remedial Investigation Work Plan for Groundwater* (*GW-RIWP*), which was submitted in 2002 along with a *NFA request for the Old Landfill* documenting the groundwater data collected from wells in the vicinity of AOC-29.

NJDEP approved the *GW-RIWP* in their July 9, 2002 letter.

Pursuant to the accepted *GW-RIWP*, activities to evaluate site-wide groundwater were conducted through 2002. Activities included the preparation of a groundwater analytical database, preparation of a geologic database, comprehensive groundwater sampling, down-hole geophysical investigations, product thickness gauging, LNAPL fingerprint analysis, and an updated well search. Results of this investigation were presented in the 2002 *Groundwater Remedial Investigation Report* (*GW-RIR*). As documented, recommendations included verification of well search results, installation of additional wells, collection of additional LNAPL samples for fingerprint analysis, continued product recovery, collection of groundwater samples using Passive Diffusion Bags to assess vertical concentration trends, removal of base neutral compounds as compounds of concern, and further evaluation of metals impacts at select wells. IR began implementing recommendations through 2003 and submitted an *Annual Groundwater Monitoring Report and Supplemental Remedial Investigation Report (AGWMR & SRIR)* in November 2003 detailing the results of the activities conducted from mid-2002 through mid-2003. Recommendations included continued verification of well search results, additional geophysical

investigation, conducting additional horizontal and vertical delineation of dissolved phase groundwater impacts through well installation, and evaluating metals impact in groundwater in relation to metal impacted soil identified at the Site.

NJDEP responded to the 2002 *GW-RIR* in their letter dated October 28, 2003 approving recommendations contained in the document and recommending that continuing activities included a review of the onsite potable water wells, conducting an alternative review of Site geology, providing addition data regarding the well search, conducting a comparison of previous and current LNAPL samples, completing horizontal and vertical delineation of dissolved-phase impacts, and assessing whether the Old Landfill may have contributed to identified groundwater impacts.

IR responded to the NJDEP's October 28, 2003 letter in a 2004 *Response to NJDEP Letter Dated 10-28-03* providing additional information as requested. IR continued to implement groundwater monitoring and investigation activities through the remainder of 2003 to mid-2004; the results of which were presented in the 2004 *AGWMR & SRIR* (January 2005). Recommendations included contacting the local health department for continued well search data update, geophysical investigation of all new Site wells, continued collection of LNAPL samples for fingerprint analysis if available, adding more PDB sampling to the groundwater sampling plan, and changing individual metal analysis to priority pollutant metals for groundwater samples collected from wells in the vicinity of identified metals impacts in soil.

NJDEP responded to the *2003 Annual Groundwater Monitoring Report and Supplemental Remedial Investigation* and *Response to NJDEP Letter Dated 10-28-03* in their letter dated October 25, 2004. Section 2.0 of this report summarizes NJDEP comments and presents a response. This *GW-RIWP* is intended to present the plan for continued groundwater investigation at the former IR Site, including concerns and comments expressed by the NJDEP.

### 1.2.3 LNAPL Recovery

In 1987, a product recovery and groundwater treatment system was installed to remove liquid and dissolved phase contaminant mass from the groundwater. Historic groundwater and product recovery data is summarized in Table 3. To date, approximately 34,000 gallons of LNAPL have been recovered. However, compared to the volume recovered prior to 1995 product recovery has diminished in recent years and has fluctuated between 34 and 296 gallons between 1996 and 2004. Further, oil accumulation in Site wells has decreased. The most recent measurements of LNAPL detected at the groundwater interface are documented on Figure 3, and the extent of product impact has been estimated on Figure 4. Currently the LNAPL plume extends across the Site from RW-17 in the east to RW-9 and RW-12 to the west; from RW-17 and RW-5 in the northwest to RW-9 in the north; and to MW-5 to the south. MW-5 is no longer gauged, due to its connection to the recovery system and the associated installation of various pumps, piping, and equipment. Table 4 summarizes

LNAPL fingerprint analytical results for MW-05, RW-01, RW-03, RW-04, RW-05, RW-08A, RW-09, RW-16, RW-17, and MW-28A. Based on the findings, much of the LNAPL appears to be composed of No. 2 fuel oil. The possible origins of the fuel oil are outlined in the release description in Section 4.2 and on Table 5.

### 1.3 Objective of Remedial Investigation

The objective of the ongoing remedial investigation is to gather sufficient information and data to define the extent of groundwater contamination in excess of applicable standards, identify possible sources of groundwater impact, understand constituent fate and transport, and assess remedial alternatives. To achieve this objective, it is proposed that the following general activities be conducted.

- Further assess the existing and new geologic data, including evaluating vertical stratigraphy and the presence of fractures and solution cavities that may be preferential pathways for separate and dissolved phase contaminant migration;

- Continue to characterize the bedrock aquifer through down-hole geophysical logging techniques;

- Evaluate the potential for groundwater flow and contaminant migration within and between wells; and

- Determine the horizontal and vertical extents of separate and dissolved phase constituents in excess of NJDEP Groundwater Quality Criteria (GWQC), and analyze trends in product thickness and contaminant concentrations at individual wells and over the Site.

# 2.0 RESPONSE TO NJDEP LETTER RECEIVED OCTOBER 25, 2004

This section has been developed in response to New Jersey Department of Environmental Protection's (NJDEP) letter dated October 25, 2004 regarding the *Annual Groundwater Monitoring Report & Supplemental Remedial Investigation Report* (dated November 2003), ENSR's February 2004 *Response to NJDEP Letter dated October 28, 2003*, and *Preliminary Assessment* (dated July 2004). For ease of review we have re-stated NJDEP's comment in "*italics*" followed by our response to any items where additional clarification is appropriate.

## Comments

## Section II November 2003 Annual Groundwater Report and Supplemental Groundwater Remedial Investigation Report

*1. Section 2.2.2 Geophysical Logging*

*Temperature logs, fluid-conductivity logs, and vertical flow gradient measurements were not part of the geophysical survey. Several wells, such as MW-46 and MW-52, were observed to have open fractures at multiple depths.*

*Ingersoll-Rand Corporation shall conduct temperature logs, fluid-conductivity logs, and vertical flow gradient measurements in the previously surveyed wells.*

**1. Response**

Ingersoll-Rand Corporation (IR) completed temperature and fluid-conductivity logs and vertical flow gradient measurements in several wells in 2003. Evaluation of these logs noted in the 2002 *GWRIR* did not provide significant information regarding potential flow at fracture zones or connectivity of the fractures. As outlined in Section 5.4 of this report, proposed geophysical investigation for additional Site wells will include OPTV and caliper logging. ENSR is evaluating the potential use of salt-slug conductivity testing to evaluate potential in-flow and out-flow zones and assess vertical flow within Site wells, Packer testing is also being considered. Well connectivity is proposed to be assessed through interpolation of fracture orientation data collected via OPTV and caliper logs, in certain instances, will be evaluated with aquifer stress tests.

*2. Section 2.3.3 Groundwater Sampling*

*The groundwater purging and sampling log for MW-47 reported gasoline-like odors during purging. No targeted volatile organic compounds were detected but 142.2 ppb VOC TICs were reported. MW-47 was sampled using conventional methods, but the minimum volume to be purged was not achieved.*

*Ingersoll-Rand Corporation shall submit a proposal for sampling MW-47 at multiple depths, including at the water table, using either low-flow or PDB technology.*

**2. Response**

The minimum volume for MW-47 was impractical and could not be achieved due to time constraints on the sampling event imposed by Site security personnel at the time. In order to achieve the minimum volume, the purge would have lasted 10.5 hours, a period which exceeded the security-imposed time constraints. A revised groundwater sampling plan has been included in Section 5.4.3 of this report and includes a proposal to use Passive Diffusion Bag (PDB) sampling at MW-47.

*3. Section 2.3.3.1 Passive Diffusion Bag Sampling*

*According to the well installation log for RW-14, 6-inch steel casing extends from the surface to 80 feet and 5-inch steel casing extends from 70 to 130 feet. The PDB sampling depths for this well were 118 and 155 feet. The well installation log shows a void at around 118 feet, but it is cased off.*

*Ingersoll-Rand Corporation shall verify whether or not the 118 foot PDB sample is in the cased section of the well.*

**3. Response**

ENSR verified the well installation log for RW-14 and concurs with the NJDEP that the PDB sampling interval at 118 feet is located in the cased section of the well. As documented in Section 5.4.3 and Table 6, future sampling events at RW-14 will only include a PDB deployed at 165 feet.

*4. Section 2.3.3.2 Conventional Groundwater Sampling*

*a. Conventional groundwater sampling was conducted on 27 wells in April and July 2003; including newly installed wells MW-46 through 53. These wells were purged using a submerged pump that was lowered to approximately 10 feet below the water table.*

*As was indicated previously, conventional purging and sampling techniques may miss contamination if a well has an excessive length of open hole, the well intercepts multiple water-yielding fractures, and the contamination is present in the deeper portion of the well. These conditions may exist in several of the newly installed monitoring wells, such as MW-52 and MW-53.*

*MW-52 and MW-53 were installed in the old landfill for the purpose of detecting contamination that may be moving beneath the landfill to MW-04 and MW-37. According to the geophysical logs, the most likely water-producing feature in MW-52 is 110 feet below the top of casing while in MW-53 the most likely water-producing feature is 126 feet below the top of casing. Thus, in both wells the most likely*

*water-producing feature is located about 10 feet below the water table, which is approximately the depth of the pump intake during purging. However, the geophysical logs note the presence of deeper discontinuous open fractures in both wells, at 152 feet in MW-52 and 145 feet in MW-53. In addition, both wells have hair line fractures in the deeper portions of the wells. Thus, NJDEP is concerned that higher levels of contamination may be present at depth in these wells.*

*Ingersoll-Rand Corporation shall sample all wells with excessive lengths of open hole below the water table using either packers, PDB, or low-flow methodology. Only wells that either have less than 25 feet of open hole below the minimum water table or wells that have been sampled at multiple depths shall be used for delineation at this site.*

**4a. Response**

Section 5.1.3 of this document outlines the proposed revised sampling plan for Site wells. Volatile organic compounds (VOCs) will be collected via PDB at possible water bearing fractures and at depth within the wells with open boreholes that exceed 25 feet. MW-01 and MW-15 will be conventionally sampled due to the relatively small water column; RW-13 will also be conventionally sampled due to lack of detected VOCs in the previous PDB samples collected from 113 and 165 feet below top of casing. Low flow methodology will be employed at MW-36 and MW-37, which are being sampled solely for Priority Pollutant (PP) Metals.

4b. Section 2.3.3.2 Conventional Groundwater Sampling

*MW-02A, MW-20, MW-39, RW-10, and TH-36 were pumped dry in the April-May 2003 sampling event. Purging was stopped with less than half of the calculated minimum purge volume being extracted from MW-15 and MW-19 in the April-May sampling event, and from MW-47, MW-48, and MW-50 in the July 2003 sampling event. Some of these wells were purged at the rate of 5 to 6 gallons per minute.*

*Ingersoll-Rand Corporation shall avoid causing excessive drawn-down in wells during purging. Wells that typically experience excessive drawdown should be sampled using lower purging rates or low-flow or PDB technology. In critical areas, low-yielding wells should be replaced by a more productive well.*

*Ingersoll-Rand Corporation shall provide an explanation for why the minimum volume to be purged was not achieved for MW-15 and MW-19 in the April-May 2003 sampling event, and for MW-47, MW-48, and MW-50 in the July 2003 sampling event. In the future, the groundwater purging and sampling logs shall provide a clear explanation of why the expected minimum volume to be purged was not achieved.*

**4b. Response**

As stated in the response to 4a, section 5.1.3 contains a revised sampling plan for 2005. The sampling methodology has been re-evaluated and is reflected in the new plan.

Due to the length of the sampling event, which exceeded security-imposed time constraints at the Site, less than the required three volumes were purged from MW-15 (93 gallons verses 215 gallons). The required minimum purge volume was achieved at MW-9, but a typographical error was present in the groundwater log for MW-19 submitted with the 2003 *AGWMR & SRIR*. The correct transcription should have reported 465 gallons were purged, while 426 gallons were the required minimum.

With regards to the three well volumes for MW-47, despite the low flow rate of 0.5 gallons per minute (gpm), there was continued drawdown of the water table. In addition, the full purge would have taken 10.4 hours, exceeding the period of time permitted on Site.

The full purge volume for MW-48 would have continued for 6 hours for a total of 180 gallons, which was impractical due to the time constraints of the sampling event and poor re-charge of the well.

Conditions related to MW-50 were slightly different. Purging of the well caused quick and continuous draw down even with a decrease in purge rate from 2.0 gpm to 0.5 gpm. During these activities, the pump stopped unexpectedly. Investigation revealed that the water level was estimated to be 120 ft below top of casing, and the pump was at 140 ft below top of casing; however, a water level meter could not pass beyond 91 ft below top of casing. The pump was extracted from the well, and ENSR sampling personnel determined that there was a partial collapse at the well. Due to the collapse a sample was collected without additional purging. According to the field notes, two attempts were made with a bailer (a 12-inch followed by a 3-foot bailer) before the sample could be collected. Since this sampling event, MW-50 has a depth to bottom gauged at 165 feet below top of casing, 10 feet deeper than the measured original depth at drilling. It is hypothesized that a previously existing cavity was located below the original well invert and that the partial collapse experienced during purging may have triggered the collapse at the bottom of the well. Appendix B provides the revised groundwater sampling logs with the corrected purge volumes and rates for MW-15, MW-19, MW-47, MW-48, and MW-50.

In addition, the proposed sampling plan includes PDB and/or low-flow sampling for these wells, except for MW-15.

*5. Section 2.3.3.3 Low Flow Groundwater Sampling*

*Ten wells were sampled using low-flow sampling methodology. The pump intake depth is listed on only two of the groundwater purging and sampling logs in Appendix F. These depths do not match the sample depths given in Table 3A.*

*Ingersoll-Rand Corporation shall provide the pump intake depth and the justification for choosing this depth for all the wells sampled using low-flow purging and sampling methods. The pump intake depth shall be listed on all future purging and sampling logs.*

**5. Response**

Upon review of the sampling logs, field book, and Table 3A, IR concurs with the discrepancy in sample depths. The depths listed on Table 3A appear to reflect approximate depths to water measurements instead of pump intake depths. In addition, the pump intake depths were noted in the field book, but not on the original groundwater monitoring logs. The only instance where depth was not reported occurred at MW-10 due to technical problems with the water meter. Revised groundwater sampling logs and an updated Table 3A are provided in Appendix B.

*6. Section 2.5.4 Groundwater Analytical Data*

*The notes for Table 3B state that the cooler temperature at delivery for laboratory job number I319 (conventional groundwater samples collected on 4/29/03) were 9.0 degrees C. In addition, the cooler temperature at delivery for laboratory job number I079 (passive diffusion bag samples collected on 4/23/03) was 11.0 degrees C. These temperatures are outside the acceptable range. All volatile results for these samples are quantitatively qualified. The affected samples were from wells MW-01, MW-04, MW-16, MW-18, MW-20, MW-30, MW-32, MW-33A, MW-34, MW-35, MW-37, RW-09, RW-11, RW-13, RW-14, RW-15, RW-16, TH-36, and THWLS.*

*Sampling results from laboratory job numbers I319 and I079 shall not be used determining contaminant delineation or remedial action completion at this site, Ingersoll-Rand Corporation shall take precautions to ensure that cooler temperatures are within the acceptable range in the future.*

**6. Response**

IR acknowledges NJDEP's comment and will work to ensure future sampling events are with in the acceptable range of 4.0° C ±2°. The results from the samples indicated above will be qualified as estimate values in future presentations.

*7. Section 4.1 Well Search*

*NJDEP required that Ingersoll-Rand Corporation conduct an additional investigation using all available county and local records to identify if any areas are not served by public water and to verify the well search results in all directions from the site. Also, a door-to-door survey in areas downgradient of the contaminated areas will be necessary.*

*While ENSR's efforts to correct the Bureau of Water Allocation information are useful, groundwater contamination has been detected at the site boundary, and the Bureau of Water Allocation records indicate that there are potable wells in the area. Therefore, Ingersoll-Rand Corporation needs to conduct an additional investigation using all available county and local records to identify all monitoring and domestic wells within one-half mile of each point of groundwater contamination, and all irrigation, industrial, public supply wells, and wells with water allocation permits within one mile of the area of concern (N.J.A.C. 7:26E-3.7(e)3.i). This shall include contacting the county health department and local health officers, and a door-to-door survey of the area a half-mile downgradient of the undelineated groundwater contamination (i.e. the area southwest to southeast of the site). Ingersoll-Rand Corporation shall also contact all previously identified owners of potable and irrigation wells in the area a half-mile downgradient of the undelineated groundwater contamination to ensure that these wells are no longer being used and have been sealed.*

*Ingersoll-Rand Corporation shall sample any potable well that has been identified as existing within a half-mile of a contaminated well associated with the Ingersoll-Rand Corporation's site.*

**7. Response**

As reported in Section 5.7, ENSR has proposed review and correction of the Bureau of Water Allocation information by reviewing county and local agency documentation. This information will be provided in progress report at the end of this year. Additionally, ENSR will begin review of local water supply records to assess those homes and businesses downgradient of the undelineated boundary of the Site for those that do not receive city water. A targeted door-to-door survey will then be completed to assess if these locations derive water from a potable well and county Health Department records will be reviewed to assess if sampling has been conducted at any of the identified wells. Where applicable, identified offsite potable wells will be sampled and well construction and geologic logs will be reviewed.

*8. Section 4.2 Well Installation*

*ENSR's proposals are generally acceptable. See General Requirement #2 for the need to evaluate all monitoring wells that have excessive lengths of open hole below the water table. See also Item 7C of the Response to NJDEP letter Dated October 28, 2003 for requirements for the deep wells.*

**8. Response**

Please refer to section 5.6 of this document for the proposed activities related to assessing and retrofitting Site wells.

*9. Section 4.3 Geophysical Logging*

*ENSR's proposal is conditionally acceptable. The geophysical investigation shall include a high-resolution video scan of the borehole using an optical televiewer, caliper logs, temperature logs, fluid-conductivity logs, and vertical flow gradient measurements. Ingersoll-Rand Corporation shall use the information obtained from the geophysical logs to revise the geologic map and cross sections of the Site. The goal should be not only to better characterize the locations and orientations of the fractures at well locations, but also to use this information to construct a geological framework for the Site.*

**9. Response**

As previously discussed in response 1, ENSR is not proposing to complete temperature, fluid conductivity, or heat pulse metering geophysical logging at Site wells. We do not feel that the tests will result in data that will further the investigation and analysis of groundwater and the geologic structure at the Site. As discussed in section 5.5.1, ENSR proposes to continue to use of OPTV and caliper logging. In addition, salt-slug conductivity testing will be performed at selected wells to assess potential flow associated with fractures in these wells. Further, ENSR will use fracture orientation data to assess hydraulic connectivity with limited use of pump testing to verify projections.

*10. Section 4.4 LNAPL*

*ENSR's proposal is acceptable.*

**10. Response**

No response required.

*11a. Section 4.5 Groundwater Investigation and Data Analysis*

*ENSR's proposals are generally acceptable NJDEP is also concerned about whether the contamination detected in the southeast section of the site, in the area of MW-4 and MW-37, has been properly delineated. Two wells, MW-38 and MW-49, have been installed south and east of MW-4 and MW-37, but they are located over 600 feet from MW-37 and there is an 1170-foot gap between these wells. The Bureau of Water Allocation records indicate that there is at least one domestic well located within a half-mile of MW-4 and MW-37.*

*Ingersoll-Rand Corporation shall install a monitoring well 400 to 500 feet southeast of MW-37 (between MW-38 and MW-49) for horizontal delineation of the contamination detected in MW-4 and MW-37. This well would be in addition to the deep well proposed for this area (MW-57), which*

*should be installed first in order to provide information on the vertical distribution of contamination in the area.*

*Ingersoll-Rand Corporation shall locate and sample any potable well that has been identified as existing within a half-mile of a contaminated well associated with the Ingersoll-Rand Corporation site.*

*Additional areas where horizontal and/or vertical delineation is necessary may be identified once the geological framework for the site is developed and data gaps are identified.*

**11a. Response**

As discussed in section 5.0, ENSR has provided a revised groundwater sampling plan that addresses the installation of additional wells at the Site, with a schedule presented in section 6.0. Installation and testing of MW-57 will be completed before any additional decisions are made concerning another possible well south of MW-37 in between MW-49 and MW-38. Additionally, the revised geological conceptual model, revised Site conceptual model, and the verified well search locations will aid in the determination of offsite wells that may be susceptible to impacts that may be migrating from the southern portion of the Site. Geologic cross-sections prepared at NJDEP's request (Section 4.0) help to demonstrate the distribution and migration patterns of CVOCs in this area.

*11b. Section 4.5 Groundwater investigation and Data Analysis*

*There are several different classes of VOC contamination at this site. PCE, TCE and their breakdown products, 1,1,1 TCA and its breakdown products, and carbon tetrachloride, to name the most apparent. These VOC classes have somewhat different distribution patterns. For instance, 1,1,1 TCA only exceeds the Ground Water Quality Standards in 4 wells, two in the main plant area (RW-16 and THWLS) and two that are located 2000 feet downgradient (MW-06 and MW-35). On the other hand, 1,1,1 TCA and its breakdown products have not been detected in MW-37 or RW-9, wells that are contaminated with TCE and its breakdown products. Carbon tetrachloride has only been detected in MW-37, which is located in a field downgradient of the old landfill and away from known source areas.*

*Ingersoll-Rand Corporation shall address the issue of the various plumes at this site, identifying source areas and the extent of the contamination for each plume.*

**11b. Response**

IR conducted source investigations in suspected areas of concern such as Cameron Area, Bulk AST locations, AOC-10, and the Waste Solvent Storage area (south of Building #9) and discovered no current source area. Section 4.0 details the previously identified impacts through a review of available historical documents and recent submissions to the NJDEP report the findings source investigations (*Site Investigation Report, Remedial Investigation Report, and Remedial Action Workplan – Cameron*

*Area of the Former Ingersoll Rand Co. Facility, Site Investigation Report, Remedial Investigation Report, and Remedial Action Workplan – Foundry Area of the Former Ingersoll Rand Co. Facility, and Site Investigation Report, Remedial Investigation Report, and Remedial Action Workplan – Main Facility Area of the Former Ingersoll Rand Co. Facility)*. The conceptual model has been updated to provide an interpretation of the distribution of these constituents in groundwater at the Site.

*11c. Section 4.5 Groundwater Investigation and Data Analysis*

*With respect to arsenic, chromium, and lead concentrations, ENSR recommends that wells MW-4, MW-30, MW-36, MW-39, and TH-36 be re-sampled during upcoming semiannual sampling (October 2003) to confirm concentrations of these compounds below GWQS. Each well sampled will continue to have filtered and unfiltered samples collected to determine whether suspended solids are contributing to elevated metal concentrations.*

*ENSR's proposal is acceptable.*

**11c. Response**

No response required.

*12. Appendix A: Well Installation Logs*

*The Well Certification Form A's (as-built certification) for MW-52 and MW-53 are incorrect. For both wells the depth to the top of screen does not agree with what is shown on the boring log.*

*Ingersoll-Rand Corporation shall submit corrected Form A's for MW-52 and MW-53. Ingersoll-Rand Corporation shall also provide well logs and certification forms for MW-40 through MW-45.*

**12. Response**

As requested, please find the corrected Form A's, logs and certification forms for the aforementioned wells included in Appendix B.

## Section III ENSR's February 2004 Response to NJDEP Letter Dated October 28, 2003

*1. Item 1. Section 2.0, Project History*

*NJDEP requested information regarding the location and decommissioning procedures for the two production wells that are no longer in use. Ingersoll-Rand Corporation was also to identify the total*

*depth, length of open hole, pumping schedule, pumping rate, and contaminants of the active on-site potable well as well as discuss the effect of the production and remediation wells on the vertical groundwater and contaminant movement at the site.*

*Ingersoll-Rand Corporation provided construction diagrams for the three former and existing production wells, along with a table of construction details.*

*Water Well No. 3 (WW-3) was open from 775 to 800 feet below the surface. It has reportedly been abandoned, although this has not been confirmed. Ingersoll-Rand Corporation will verify the status of WW-3.*

*The table provided by Ingersoll-Rand Corporation states that WW-1 is 8-inches in diameter and is open from 222 to 460 feet below the surface. However, the diagram for this well included in Attachment 1 indicates that 6-inch casing and screen was installed in the well in June 1979 and that WW-1 is now screened from 358 to 455 feet below the surface.*

*WW-2 appears to be the well identified in other reports as Old-WW.*

*Ingersoll-Rand Corporation's response is conditionally acceptable. Ingersoll-Rand Corporation shall verify whether WW-1 is open from 222 to 460 feet below the surface or whether it is screened from 358 to 458 feet below the surface. Ingersoll-Rand Corporation still needs to provide groundwater quality information for WW-1. Ingersoll-Rand Corporation shall also provide information on the effect of pumping WW-1 on the water levels in neighboring monitoring and recovery wells. This information should include continuous water level readings from neighboring monitoring and recovery wells during an on-off pumping cycle of WW-1. This would help in determining the extent of fracture connectivity at the site.*

*In addition, Ingersoll-Rand Corporation shall confirm whether WW-2 is the same well as OId-WW. In addition, Ingersoll-Rand Corporation shall conduct geophysical logging of WW-2 and sample this well at multiple depths in order to provide vertical delineation of the contamination at this location.*

**1. Response**

Section 5.3 outlines the proposed investigation of WW-1, WW-2, and WW-3. IR confirms that WW-2 is also known as Old-WW and that WW-1 is also known as 1P or WW-1P. With regards to WW-2 and WW-3, IR will add the wells to the sampling plan once the production wells have been converted into monitoring wells as outlined in section 5.1.3. IR also plans to investigate and sample the active production well WW-1, once the well is removed from service and the Site is converted to city water supply.

*2. Item 2. Section 3.5 Well Search*

*NJDEP requested a more rigorous well search, Ingersoll-Rand Corporation responded by stating that it is in the process of correcting and or verifying location data supplied by NJDEP Bureau of Water Allocation. See Item II. 7 above (Section 4.1 - Well Search).*

**2. Response**

Please see ENSR's comment no. 7 under Section II and section 5.2 of this report for further clarification.

*3. Item 7. Section 5.5.5.1 Passive Diffusion Bag Results*

*NJDEP requested additional delineation, both vertical and horizontal, for the chlorinated contamination. Ingersoll-Rand Corporation installed eight wells across the site to further investigate groundwater beneath the Old Landfill as well as to establish or maintain horizontal delineation at the property boundaries. One of these wells, MW-51, located at the western property boundary where horizontal delineation has not been completed, has collapsed and must be abandoned and re-installed.*

*Ingersoll-Rand Corporation's response is conditionally acceptable. For the three proposed deep wells, vertical delineation is to start from the depth of the deepest neighboring monitoring well in order to ensure that contaminated zones are not overlooked. Ingersoll-Rand Corporation shall provide a detailed plan for the installation of the deep wells.*

*Additionally, Ingersoll-Rand Corporation shall conduct geophysical logging of Old-WW (WW-2) and collect multiple PDB, low-flow or packer samples to access the vertical distribution of contamination in that area.*

**3. Response**

Well MW-51A was installed in December 2004 to replace collapsed well MW-51. Please see Section 5.0 of this report for details of ENSR's proposed well installation, geophysical investigation, and horizontal and vertical delineation of groundwater impacts.

*4. Item 10. Section 6.2 Well Search*

*See Item II. 7 above (Section 4.1 - Well Search)*

**4. Response**

Please review ENSR's previous comment to number 7 under Section II.

*5. Item 12a-c. Section 6.4, Groundwater Investigation and Data Analysis*

*NJDEP reiterated that additional horizontal and vertical delineation is necessary. Ingersoll-Rand Corporation discussed the installation of the eight wells for horizontal delineation and the proposed three deep wells for vertical delineation. See previous comments in item II Section 4.5 Groundwater Investigation and Data Analysis on horizontal and vertical delineation.*

**5. Response**

Please review ENSR's previous comments to numbers 11a-c under Section II and the revised groundwater sampling plan in section 5.1.3.

*6. Item 12e.*

*NJDEP requested a general sampling for priority pollutant metals as part of the groundwater sampling program.*

*It is NJDEP's understanding that the April 2004 sampling event for specific metals has not been conducted pending the completion of the soil remedial investigation. Ingersoll-Rand Corporation expects to conduct this sampling in conjunction with the October 2004 sampling event.*

*Ingersoll-Rand Corporation's response is conditionally acceptable. Sampling is to be for priority pollutant metals. Ingersoll-Rand Corporation shall provide either a map or an electronic database listing all soil and groundwater sampling results for metals, along with a proposed sampling plan. The sampling plan shall include the wells that will be sampled, which metals would be included (PP metals or specific metals), sampling methods, and sampling depths. If Ingersoll-Rand Corporation provides an electronic database, it shall include state plane locations for each sampling point.*

**6. Response**

In October 2004 ENSR revised the groundwater sampling plan to include PP metals analysis for MW-01, MW-03, MW-04, MW-12, MW-16, MW-26, MW-27, MW-30, MW-34, MW-36, MW-39, MW-49, MW-50, MW-54, RW-09, RW-11, RW-13, and TH-36. Appendix C contains the summary data for metals detected in soil across the Site through the date of this report. Section 5.1.3 details the current, revised groundwater sampling plan and compares previous metals data for both soil and groundwater. Figures 9 and 10 illustrate the distribution of arsenic and lead in soil and groundwater at the Site. There results are discussed in Section 4.3. Additional sampling for PP metals has been completed for April 2005, as noted in Section 5.

*7. Item 13. Table 1*

*NJDEP commented that well depths reported by Mid-Atlantic Geophysics, on groundwater purging and sampling logs, and on well completion reports did not match. In the interim, Ingersoll-Rand Corporation recommends the modification of Table 1 in future submissions to show original well completion depth along with the most recently measured depth of each well.*

*However, as was previously stated, conventional purging of wells with long open intervals may not reveal contamination that may be in the deeper fractures. This would be an even greater concern for wells that have partially collapsed.*

*Ingersoll-Rand Corporation's proposal is conditionally acceptable. Ingersoll-Rand Corporation shall include a discussion on the need for redeveloping, retrofitting, and/or sealing the wells that have partially collapsed. This discussion shall include a discussion on how the collapsed section affects purging and sampling the well.*

**7. Response**

Refer to Section 5.2 of this report for a detailed plan for well modifications and retrofitting.

*8. Item 16. Appendix G: Groundwater Purging and Sampling Logs*

*NJDEP commented that Ingersoll-Rand Corporation needed to evaluate wells with short water columns (in particular MW-01, MW-02A and MW-44) to determine whether they need to be replaced with deeper wells. Ingersoll-Rand Corporation responded by pointing out that a severe drought plagued the region over 2002 and caused significantly depressed water levels throughout the site. Ingersoll-Rand Corporation at this time considers these wells appropriate monitoring locations and may choose to reevaluate the use of these wells for monitoring purposes in the future.*

*Ingersoll-Rand Corporation's response is conditionally acceptable. The need to replace wells with short water columns (including collapsed wells) shall be evaluated once results from the deep wells are available and a geologic framework for the site has been developed.*

**8. Response**

No response required at this time. Water levels from 2003 and 2004 have been increasing since the 2002 data was collected. ENSR has incorporated deep well sampling in its revised sampling plan described in section 5.1.3. ENSR's proposed geophysical investigation, which will be used to elaborate the geologic framework of the Site, is described in section 5.3.

## *Section IV. Preliminary Assessment Report (Farm and Undeveloped Area)*

*1. Appendix F*

*Shaded values in the Tables are illegible. Ingersoll-Rand Corporation shall submit a legible copy of the tables.*

**1. Response**

The tables noted to be illegible are located in the 2003 Site Investigation Report by TRC. Since the original copy of this report submitted by the Town of Phillipsburg's consultant (TRC) to IR had illegible tables, IR is unable to fulfill NJDEP's request.

*2. Appendix G*

*Appendices A, B, C and D (Wetland Delineation Report) were not included. Ingersoll-Rand Corporation shall submit a copy of the Appendices.*

**2. Response**

IR is submitting these appendices under Appendix D of this work plan along with the final version of the Wetland Delineation Report that was completed in August 2004 (after submission of the *Preliminary Assessment - Farm and Undeveloped Area*).

*3. Appendix N*

*The referenced NJDEP letter (dated May 14, 2002) stated that the NJDEP was in agreement with "no Further Action" (NFA) for areas of concern (AOCs) 3A, 3B, 26 and 27. However, the document text referenced that AOC 37 has previously received NFA agreement from the NJDEP. The copy of the letter in Appendix N has a hand written correction changing AOC 27 to AOC 37. Ingersoll-Rand Corporation shall clarify this issue.*

**3. Response**

NJDEP concurred with IR's proposal for NFA at AOC-27 in their letter dated October 18, 1994. It appears that there was a typographical error in the NJDEP letter dated May 14, 2002 where AOC-27 was accidentally listed instead of AOC-37. Specifically, the May 14, 2002 letter provided NJDEP response to the *South Side AOC Remedial Investigation Report* of which AOC-37 (the ephemeral stream) was discussed; the report did not discuss AOC-27 (a hazardous waste storage shed located in the facility area of the Site. This typographical error was identified in the 2nd Quarter 2002 Progress

Report dated August 5, 2002 requesting clarification on NJDEP's response. No response from NJDEP was received regarding this matter.

# 3.0 PHYSICAL SETTING

## 3.1 Physical Conditions and Surroundings

The Ingersoll-Rand Site is located at 942 Memorial Parkway in Phillipsburg, New Jersey and occupies approximately 385 acres within the Town of Phillipsburg and Lopatcong Township. The facility consists of multiple buildings, foundations of former buildings, roads and parking areas, two landfills, several ponds, landscaped areas, and agricultural fields. Historical facility maps were submitted in the 2004 *SHR* and are not repeated here. A current Site map is included as Figure 2.

As shown on the USGS 7.5-minute Quadrangle Map for Easton PA-NJ (Figure 1), the Site is situated at the top of a hill at approximately 360 feet above mean sea level (AMSL). Topographic elevation decreases in all directions but is most evident toward the southeast. Surface runoff in the plant area, on paved (impervious) surfaces, is generally channeled into a stormwater sewer network, which drains the western portion of the Site into the Stormwater Detention Basin and Retention Pond and the eastern portion of the Site into the Spray Pond and Inverse Ponds (see Figure 2). Much of the stormwater that falls on the remaining permeable surfaces (agricultural fields, lawns, etc.) likely infiltrates to the subsurface. A subsurface utility map showing the storm sewer system was included in the 1994 *Draft RIWP* and is not repeated here.

The area surrounding the Site is of mixed commercial, residential, and agricultural use. Eastward, the Site is bounded by Route 22. Some commercial development is evident along Route 22, but beyond those businesses, agricultural activities persist. The southern portion of the Site is largely bounded by Lock Street and some residential development. Land use beyond Lock Street appears as mixed agricultural and wooded. The northern portion of the Site is bounded by a railroad right of way and Route 22. In this area, Route 22 is heavily developed with commercial and residential structures. The western boundary of the Site at Roseberry, Center, and Green Streets is largely residential with some commercial development. Although a formal well search is on-going, no sensitive receptors have yet been identified in the surrounding community with potential migration pathways connecting them to the Site. A detailed receptor evaluation was completed in the 1994 *Draft RIWP*, a *Baseline Ecological Investigation for the South-Side Area* of the Site was submitted in July 2002, and a site-wide *Baseline Ecological Investigation* of the Site was submitted in July 2004.

## 3.2 Soils

The naturally occurring soils at the Site have been mapped entirely as the Washington Loam (Soil Survey of Warren County, 1977). This brown, yellow-brown, red-brown silty clay glacial deposit overlies most of the bedrock in the area. The deposit is Quaternary in age (approximately 125,000 years old) and is commonly called “older drift’ or “Jerseyan Drift”, which is older than the more common Wisconsin glacial deposits found elsewhere in New Jersey. This overburden formation is generally

homogenous in the Phillipsburg area with trace sand and gravel and in some areas may be a clayey silt rather than a silty clay.

The NJDEP GIS data for soils in Warren County identify the soils at the Site as one of four groups: WaB, WaC2, WnD, and Wp. WaB (Washington Loam, B Horizon) soils comprise most of the Site and are defined as Washington Loam, 3–8% slopes. The texture of these soils consists mainly of sandy clay loam through heavy loam and clay loam to silt loam, with a hue of 7.5-10 YR, value 4 or 5. WaC2 (Washington Loam, C Horizon) soils are identified in the southern farm fields and are defined as Washington Loam, 8-15% slopes, eroded. The texture of these soils consists mainly of sandy clay loam to silt loam and the gravelly analogs, with a hue of 10YR or 7.5YR, value of 5 or 6. WnD soils appear at the southeastern corner of the Site near the former farmhouse. These soils are defined as Wassaic Rocky, Gravelly Loam, 15-25% slopes. Finally, along the Lopatcong creek, soil is classified as Wp, the Wayland Silt Loam, 0-3% slopes.

Fill is also present over much of the former manufacturing portion of the Site and consists of mainly gray to black sand sometimes mixed with other debris. Fill was generated onsite as the sand used in the foundry casting process was spent. Spent foundry sand was used onsite to level ground for construction projects or was disposed of (for much of the Site's operational history) at the Old Landfill. Thickness of the fill varies across the Site and ranges from zero to 40 feet. Fill is expected to be thickest at the Old Landfill (AOC-29) located toward the southern end of the facility. Fill material was also imported from local areas and appears similar to the native Site soils.

Soil boring logs prepared from soil borings collected during the investigation confirm fill is present in many areas of the Site and overlies native soil, which is often characterized as orange-brown silty clay.

### 3.3 Bedrock Geology

The geology and structure of the bedrock underlying the Site were described in detail in the 2004 *AGWMR & SRIR*. It is briefly summarized here.

Bedrock underlying the Site consists of three major geologic units (as mapped by Drake (1967)) ranging in age from the late Cambrian through the early Ordovician periods. The first, the Allentown Formation, which is present throughout the western portion of the Site, consists of a very fine to medium grained, gray to dark gray dolomite, with some interbedded shale or shaley dolomite. Boring logs from monitoring wells, recovery wells, and test holes in this area of the Site indicate that bedrock surface elevation increases from west to east until its apparent contact with the Rickenbach Formation, creating a ridge in the bedrock topography which traverses the facility area of the Site from north to south (Figure 6). Bedrock was encountered in several soil boring locations at depths ranging from 2 to greater than 30 feet as noted in the comparison of Figure 5 and Figure 6.

The Rickenback Formation, a part of the Beekman Group of Lower Ordovician age (approximately 415 million years old) is a fine to coarse grained, light to dark gray dolomite with some breccia and chert beds and some shaley beds. This formation is present throughout much of the eastern portion of the Site.

The Epler Formation, which contacts the Rickenbach Formation at the southeastern portion of the Site, consists of interbedded, very fine grained, light to medium gray limestone, and fine to medium grained light to dark gray dolomite.

The two different formations of dolomite in this area (Allentown and Rickenbach) are difficult to distinguish due to their lithologic similarities and general lack of fossils. In the Phillipsburg area, the formations described above are folded in a recumbent fashion. To add complexity, a thrust fault (the Wipporwhill Thrust Fault) and an antiform (the Lopatcong Antiform) are located within ½-mile of the Site.

Based on the lithologic data collected from the soil borings and wells installed at the Site, bedrock fractures are present at various depths throughout the Site as illustrated on a subset of wells on two cross sections provided on Figure 7. Additionally, the bedrock displays characteristics of an active karst aquifer, as sink holes periodically appear on the Site, and wells often collapse and have to be redrilled or abandoned. Large, open void spaces have also been encountered during drilling activities at various locations onsite.

The primary structural features of the bedrock beneath the Site are the formation bedding planes. These are oriented generally with a northeast to southwest strike and a dip of approximately 45° to the southeast. In the northeastern portion of the Site, the strike appears to shift more directly east to west.

### 3.4 Hydrogeology

Groundwater at the Site is present in the fractures and openings in the bedrock. A well summary is provided as Table 1. Recent gauging measurements (January 2005) show that groundwater is present at depths ranging from 3.74 feet below ground surface (bgs) to 118.79 feet bgs (Tables 1 and 2). The groundwater elevations measured in wells range from 227 feet above mean sea level (AMSL) to 310.72 feet AMSL. Groundwater elevation measurements collected quarterly also indicate great fluctuations in groundwater elevation. In 2001 groundwater elevations in various Site wells fluctuated from 8 to 20 feet and have been measured in the past to fluctuate as much as 50 feet. Due to large seasonal variations in the groundwater levels, Site monitoring and recovery wells have been constructed as open-borehole wells, often with open borehole lengths of 125 to 150 feet. Given these large open holes, it is possible the measured groundwater levels do not accurately reflect the potentiometric surface, but instead represent an average for the borehole. A groundwater contour map based on the January 2005 gauging data is presented as Figure 3.

As reported in the geologic model submitted in the 2004 *AGWMR & SRIR* the flow of water through bedrock is primarily related to the size and the number of openings present in the rock. Openings such as faults, fractures, joints, and bedding openings may have been created in the geologic past by tectonic events. Additionally, in a carbonate aquifer system, the rock itself is soluble, causing the potential for solution cavities to form and for existing fracture networks to widen through chemical reactions between groundwater and bedrock compounds (Craig, 1996).

The flow of groundwater through carbonate rocks such as those present at the Site, can be described as either free or diffuse flow. Free flow carbonate aquifers display rapid flow of groundwater through a well-integrated system of solution cavities. Diffuse flow carbonate aquifers display laminar flows through rock fracture systems which have undergone minimal modification by solution (White, 1969 [in Craig, 1996]). The degree to which free flow or diffuse flow aquifer behavior will be displayed is dependent on the existing fracture network, its inter-connectivity, and the solubility of the rock.

Based on the groundwater contour map generated after each groundwater gauging event, groundwater flow appears to be radial from a high in the center of the facility corresponding to the bedrock ridge previously mentioned. However, the geophysical data collected from the Site reveals a fracture set striking northeasterly, suggesting that groundwater flow may be along the strike of this dominant fracture set. The distribution of LNAPL is also suggestive of this flow pattern. The influence of the bedrock structure on contaminant distribution is discussed in more detail in Section 4 below.

It should be noted that significant pathways for potential groundwater flow may exist which have not been discovered, especially given the karst-like topographic features associated with these bedrock units.

### 3.5 Surface Water and Wetlands

Man-made impoundments are present in several locations at the Site (Figure 2). A Stormwater Detention Basin with a Retention Pond is located toward the northwest corner of the Site. A Spray Pond, used to recycle non-contact cooling water and to manage stormwater, is located centrally in the Site just east of the main concentration of buildings. Two Inverse Ponds are located approximately 300 feet east of the Spray Pond and receive excess water from the Spray Pond via an underground pipe. The Inverse Ponds discharge (under NJPDES permit #0004049) into a ditch previously identified as an “ephemeral stream” that traverses the southern portion of the property approximately 2,200 feet toward the southeast, where it merges with Lopatcong Creek. Due to lack of discharge, the drainage ditch is dry or partially dry periodically. The drainage ditch merges with Lopatcong Creek in the southwestern portion of the Site. Lopatcong Creek is a small stream that runs through the southeastern portion of the Site on its way to the Delaware River.

The Upper and Lower Inverse Ponds identified above were investigated by an ENSR wetland scientist during wetland delineation in June 2003. No wetlands were identified at or near the Inverse Ponds (Appendix D).

Because the Spray Pond, the Inverse Ponds, and the associated ditches are located in uplands and are man-made features used for the conveyance and treatment of stormwater, ENSR requested a non-jurisdictional determination from NJDEP for these water features.

Additional wetland delineation identified wetland W-WA-001 – a narrow, palustrine, emergent wetland (PEM) – located within the northwest stormwater detention basin. The wetland is dominated by hydrophytic herbaceous species such as purple loosestrife (*Lythrum salicaria*, Facultative Wetland [FACW+]) and broad-leaved cattail (*Typha latifolia*, Obligate Wetland [OBL]). Subdominants include eastern cottonwood saplings (*Populus deltoids*, Facultative [FAC]) and jewelweed (*Impatiens capensis*, Facultative Wetland [FACW]).

Based on the NJDEP Freshwater Wetlands Maps as presented in the NJDEP GIS Resource Data CD-set (1996), wetlands are present on the Site. Specifically, a strip of deciduous wooded wetlands are identified at the northwest corner of the Site and were identified above as W-WA-001. The areas including and surrounding the Inverse Ponds and Ephemeral Stream are classified as modified (disturbed) wetlands. However, ENSRs wetland delineation did not identify any wetlands. A wetlands map is provided in Appendix D.

The Delaware River is located over 0.5 miles southwest of the Site.

# 4.0 CONCEPTUAL SITE MODEL

This conceptual site model was developed using EPA guidance (EPA, 1996a) in order summarize the current understanding of contaminant sources, Site characteristics, contaminant distribution, and the fate and transport of contaminants. The conceptual model will ultimately serve to help evaluate the appropriateness of remedial alternatives.

## 4.1 General Site Information

As previously discussed, IR conducted a variety of manufacturing operations at the facility, including the manufacturing of molds, pumps, compressors, and drills. Facility documents indicate manufacturing operations remained similar throughout facility history. Molding and casting occurred in the northwest corner of the Site, drill manufacturing occurred in the northeast corner of the developed portion of the Site, with compressor manufacturing located south of the drill manufacturing area. Pump manufacturing was originally conducted in the southwest corner of the Site but moved to the central facility area in the 1980s. Metal castings were finished via cutting and grinding operations, sand and shot blasting, heat treating, pickling, welding, coating, plating, or painting and were assembled into finished products. The completed drills, pumps, and compressors were tested on Site. A few buildings contained large concrete-lined pits to test the pumps and compressor tanks. Drills were tested on large boulders or in a mine located on Site. Manufacturing processes were described in more detail in the 2004 *SHR*.

## 4.2 Summary of Historic Releases

ENSR conducted a review of historic facility documents to assess the type and extent of historic hazardous liquid releases that may have contributed to groundwater impacts. Table 5 summarizes the releases documented during this review, and Figure 4 shows the locations of the documented spills. No documentation was uncovered that confirmed any historic solvent releases; in fact most of the documentation concentrated on No. 2 fuel oil. However, based on facility documents, it appears that solvents were used throughout the facility and until the late 1970s, no formal management procedures could be found. Using the summary of Site buildings (Table 1 in the 2004 *SHR*), the following buildings were identified at some point in time as Cleaning, Heat Treat, Annealing, Pickling, Babbit, and Manufacturing Shops and may have employed the use of solvents: #3, #7, #8, #9, #10, #11, #13, #14, #15, #16, #17B, #20, #21, #23, #25, #30, #34, #36, #61, #75, #91, #105, #251, #261, #254, #257, and #258. Solvent compounds have been identified as ingredients of the various degreasing and cleaning agents, paints and paint strippers, and other materials that were regularly used at the facility. According to the EPA (1996b), the industries most likely to have used solvents containing these particular compounds were plating, turbine, generator, and metal fabrication manufacturing facilities; all of which occurred at the Site.

The following presents a more detailed summary of the larger documented releases that may have contributed to groundwater impact at the Site. A detailed summary of documented spills and potential large releases is included as Table 5.

- According to a letter summarizing the spill history of No. 2 fuel oil by the IR Manager of Facilities in 1975, one of the earliest and largest documented spills occurred in the 1940's just east of Building #13. Historically pumps located in Building #13 drew No. 2 fuel oil from bulk storage tank #79. Over a holiday weekend one of the product pipes ruptured causing oil to be released from that location. Since the day tanks within building #13 continued to signal for oil from tank #79, oil was discharged continuously from the damaged pipe for several days. An IR employee indicated that tank #79 was practically pumped dry over the weekend and estimated that 200,000 to 250,000 gallons were released. This document also reported that a railroad maintenance pit at Building #19 had accumulated approximately 4 feet of oil, which was allowed to percolate into the ground. This spill is identified on Figure 4 as "(2)".

- Also reported in the 1940's was the break in the pipeline connecting bulk storage tank #79 to the day tanks on the east side of the foundry; the exact location of the break remains unknown. This break reportedly released approximately 20,000 gallons of No. 2 fuel oil on the east side of the foundry (Building #4), according to the same facilities manager in 1975. This event is identified on Figure 4 as "(1)".

- As documented in the 2004 *SHR*, a possible release of pickling and parkerizing solutions occurred west of Building #91, which operated as a pickling and parkerizing shed from the 1930's through the 1990's. Pickling involves submersing metal parts in acid solutions to remove scale. Parkerizing is a phosphate etching process that produces a hard matte or dull finish on metal. The building was also used for storage but it is unclear from the historical review as to when the transition occurred. In 1997 the building was demolished and placed in the landfill. Facility documents dated 1983 and 1986 indicate that the building was not connected to the sanitary sewer line and all of the structures piping drained into a "cistern" as it was referred to in the 1986 letter. Throughout operational history of Building #91, a significant volume of fluid was likely discharged. The "cistern" structure was likely a cesspool or drywell since the term "cistern" typically refers to a subsurface water storage tank. Other facility documents identify the structure as a cesspool. Facility documentation indicates that this cesspool was "excavated directly in the bedrock". As such, any discharge from Building #91 – likely including floor drains, process discharge, restrooms, etc. – may have entered the cesspool and drained directly into bedrock. Figure 4 shows the location of this structure as "(21)". Investigations of soil conditions in this area have not identified any remaining source materials that have the potential to act as continuing source to groundwater as reported in the 2005 *Main Facility Area SIRIRAW*.

- According to an internal memo dating from 1975 and summarizing the spill history of No. 2 fuel oil, a 50,000 to 60,000 gallon No. 2 fuel oil leak was reported in a pipeline outside Building #8A in the 1960's. This leak is identified on Figure 4 as "(3)".

- In August 1975 an internal IR memo indicated that 38,000 gallons of an oil/water mixture was pumped out of the eight inverse ponds located on the east of the Site over four days. This event is shown on Figure 4 as "(8)". Sources of this spill were identified as Oakite Low Heat #1, AR Stripper, Rust Prevent 100, Trim Sol, Shell Dromus Oil A, and Sunicot MPM 442 likely from the following sources.

    - 10,000 gallon UST used to receive spent cutting oil and caustic wash, which overflowed as a result of a new operator leaving the valve open on the tank.

    - 3,000 gallon cutting oil UST, excess rainfall caused the tank to overflow into the storm sewer which led to the ponds.

- A handwritten memo dated prior to February 21 1975, documenting activities to investigate LNAPL on the groundwater surface referenced an "Oil Dump" area in the Old Landfill. No additional documentation was available regarding the oil dump and no indication of its presence was identified during investigations at the Old Landfill (AOC-29). However, no oil has been detected in wells in the immediate vicinity of the landfill, with the exception of oil present in the area near the current inverse ponds. Oil near the inverse ponds appears to be unrelated to the landfill and is more likely related to items identified in the preceding bullet. Regardless, the estimated location of the "oil dump" area is identified as "(37)" on Figure 4.

- Beginning in 1996 through 2004 ENSR investigated the area of two underground Quench Oil Tanks (AOC- 12). During excavation, holes were noted in both of these tanks demonstrating a possible leak in the system as described in ENSR's report dated October 1996 *UST Closure and Site investigation Report*. In the February 2000 *Remedial Investigation Report for AOCs 10, 11, and 12* and in the October 2004 *Soil Remedial Investigation Report (SRIR)*, oil-saturated soil was reportedly found at the bedrock surface. The location of the former quench oil tanks is shown as "(38)" on Figure 4.

Further review of the historical records reveal many minor spills in comparison to the information referenced above. The contaminants of concern identified in the file review were reportedly diverse, e.g. No. 2 and No. 6 fuel oil, gasoline, waste oil, lubricating oil, "Lindo Cure" (used in mold production), and sulfuric acid.

No specific sources or releases for the CVOCs present in groundwater have been found, despite significant investigation throughout the Site. Based on the facility documents reviewed, there are a few dispersed operational areas where CVOCs are known or suspected to have been used including

Building #14, the solvent storage area located south of Building #9, and the cesspool west of Building #91.

Building #14 (Heat Treat Building AOC-10) was investigated in October 1998 and June 1999. The results of investigation are summarized in the *Remedial Investigation Report for AOC-10, 11, and 12,* dated February 2000. Grid sampling of the area was initially conducted using 30-feet grid squares with sampling at odd numbered nodes in October 1998. Additional sampling was conducted in June 1999 to address CVOCs detected at node 29. CVOCs's detected at node 29 are presumed to be a result of degreasing agents used to remove quench oil from the metal parts. Soil samples at node 29 reported concentrations of TCE and PCE greater than current NJDEP soil clean up criteria. The greatest concentration of PCE and TCE were detected at grid node 29 at 94 mg/kg and 14 mg/kg, respectively. These concentrations where collected from soil immediately below the concrete floor of former Building #14 and were horizontally delineated to the north, south, east, and west within an area roughly 60-feet square. Vertical delineation was not completed as a sample collected at 8 to 8.5 feet bgs had a reported PCE concentration of 8 mg/kg. The depth to bedrock in this area as indicated in the RW-9 well log is approximately 16-feet below the ground surface. Well RW-09, located in the immediate area of building #14, has reported concentrations of PCE, TCE, cis-1,2-DCE, and VC greater than the current GWQS, indicating that soils impacted by the degreasing agents in this area may have impacted groundwater in this area.

The February 2000 *Remedial Investigation Report* recommended that CVOC impacts as well as other impacts identified in AOC-10 be addressed by placing institutional controls and maintaining the existing engineering control (asphalt and concrete cap) in-place within this area. NJDEP's letter dated August 2, 2000 concurred with this recommendation. ENSR/IR is currently re-evaluating potential remedial options for AOC-12 due to the presence of saturated soil as well as residual chlorinated source material.

As previously indicated soil results at AOC-19 (Air Trappage Tank at Building #12) reported PCE detections of 1.5 and 7.6 mg/kg in a soil boring collected to four feet. According the to 2004 *SHR,* the "Air Trappage Tank" was a 1,500-gallon, aboveground, welded steel tank that received approximately 50 gallons per day of air trap discharge (lubricating oil/condensate mix) from the air compressors in Building #12. In 1986 a NJDEP inspection of the tank noted oil staining adjacent to the containment structure for this tank, which initiated the soil sampling in the area that was conducted in 1988. Depth to bedrock in the area is estimated to be area 60 feet below ground surface based on data for monitoring well TH-WLS located east of AOC-19. TH-WLS has reported concentrations of 1,1,1-TCA, 1,1-DCA, 1,1-DCE, TCE, cis-1,2-DCE, and VC greater than current GWQS, indicating that soil impacts in this area may also have impacted groundwater.

Further investigation was conducted for the solvent storage area south of Building #9 and the cesspool west of Building #91 which had the potential to release greater volumes of chlorinated compounds over a longer period of time in the groundwater and is reported in the 2005 *Main Facility Area SIRIRAW*. As

previously indicated the cesspool west of Building #91 contained a "cistern" set directly on top of bedrock and no evidence has been produced demonstrating the integrity of the "cistern" and the possibility that a leak did not surpass the surrounding soil traversing directly from the tank into the bedrock fracture system and leaving no evidence behind. As reported in the 2004 *SHR* Building #91 was constructed in the 1940's, in operation till the mid 1980's, and has been demolished since 1997 any chlorinated release was historic. To date soil samples collected in the vicinity of these structures have not indicated the presence of CVOCs in soil; however, historical investigations did not target chlorinated compounds as a concern. Current and historical samples are reported in the 2005 *Main Facility Area SIRIRAW*.

Based on soil analytical data to date, with only a few areas having been reported to have residual impacts, the limited existing documentation concerning CVOC releases, and the lack of evidence in the soil, source areas for the CVOCs in groundwater may be difficult to identify with certainty. Using the data collected to date, several hypotheses are possible:

- Years may have passed since CVOCs entered the subsurface. CVOCs within the soil have biologically degraded, leaving no significant residual source within soil. CVOCs may be present in bedrock fractures which provide a source of dissolved phase CVOCs in groundwater;

- Although no documentation was found during the Site file review which details any spill or releases of CVOCs, such events may have occurred and soil with high concentrations of CVOCs may have been removed, leaving only marginally impacted soil in place; and/or

- The extensive investigation conducted to date suggests that non-point source impacts were likely based on historic disposal and/or other land application practices. The relatively disperse applications may have undergone various transport and attenuation mechanisms leaving no evidence of the original impacts to soil or remaining residual sources for the CVOCs.

However, given the likely use of solvents prior to formal management procedures, it is likely that minor spills occurred over time. Other potential releases include small unreported incidental releases of oil, solvent, etc. that may have been a part of standard facility procedure or otherwise unreported. Possible examples include:

- Daily solvent discharges related to localized cleaning operations,

- Incidental oil spills/leaks from equipment used across the Site including trucks, cars, trains, heavy equipment, etc., and

- Disperse application of waste oils and/or solvents as dust-suppression and weed control agents.

No direct evidence of such practices has been found despite significant Site investigations. Such spills are likely to have occurred long ago prior to the implementation of formal handling and management practices. Since they were likely small in the first place and time has passed, residual concentrations in soils may have attenuated over time. However, they could be the cause of the low levels of CVOCs that are found in several of the monitoring wells on Site.

Specific information concerning the detailed soil investigations conducted on Site are presented in separate submissions. A list of these reports is provided in Section 9 – References.

### 4.3 Summary of Previous Groundwater Investigative Findings

A summary of analytical results for the October 2004 groundwater sampling event is included in Appendix A. A review of the historic groundwater analytical data through October 2004 is located in Table 7, 8, and 9, and Appendix E. A review of this data identifies a number of compounds exceeding the NJDEP Groundwater Quality Standards (GWQS) including a variety of chlorinated solvents and tentatively identified compounds (TICs). Prior to May 2002 the compounds of concern were identified as volatile organic compounds, base neutral organic compounds, petroleum hydrocarbons, and metals (specifically, arsenic, chromium, and lead). Based on historic results, volatile organic compounds have been the primary focus of dissolved phase groundwater investigation since semi-annual groundwater sampling commenced in May 2002. Analytical results for each compound of concern are presented in Appendix E (prior to 2002), and in Tables 7, 8, and 9 (from 2002 to 2004) along with current GWQS. The data are illustrated on Figures 4, 8, and 9 and are summarized below:

**Chlorinated Volatile Organics Compounds**

- **1,1,1-Trichloroethane (1,1,1-TCA)** was initially identified in MW-4 in 1989. Subsequent analyses throughout the 1990s did not confirm its presence in MW-4, but did show the compound in wells MW-1, MW-2/MW-2A, MW-3, MW-6, MW-33A, MW-35, RW-1, RW-11, RW-14, RW-16, and TH-36 at concentrations ranging from 3 to 290 μg/l (GWQS of 30 μg/l). Semi-annual sampling since 2002 confirms that concentrations of 1,1,1-TCA exceed GWQS in MW-6, MW-35, RW-16, and THWLS, and concentrations at these wells ranged from 31 to 400 μg/l. The compound has been detected at concentrations below current GWQS in MW-2A, MW-4, MW-15, MW-16, MW-32, MW-33A, MW-34, RW-11, RW-13, RW-14, RW-15, and TH-36 with concentrations ranging from 0.3 to 26 μg/l.

- **1,1,2,2-Tetrachloroethane (1,1,2,2-TCA)** was detected at MW-3 with a concentration of 30 μg/l during the November 1992 groundwater sampling event. The compound has not been detected in any wells in subsequent groundwater sampling events through October 2004.

- **1,1,2-Trichloroethane (1,1,2-TCA)** has been detected in RW-16 since 2002 at concentrations greater than GWQS, ranging from 5.2 to 8.1 μg/l (GWQS of 3 μg/l), although method detection limits (MDLs) for undetected results have been greater than the GWQS. Detections of 1,1,2-TCA were reported for TH-WLS, ranging from 1.1 to 1.2 μg/l, which are below GWQS.

- **1,1-Dichloroethane (1,1-DCA)** was initially reported in groundwater at the Site in samples collected from RW-5 and RW-6 in the eastern portion of the main plant area in 1989. Concentrations in other Site wells include relatively low (and stable) concentrations at MW-6 and MW-16 prior to 2002. Since 2002, sporadic detections of 1,1-DCA were also reported in MW-4, RW-14, RW-11, RW-13, TH-36, MW-33A, and MW-35 and were all below GWQS (and often below MDL) prior to 2002 (GWQS of 50 μg/l). Since May 2002, detections have remained below GWQS in MW-04, MW-06, MW-15, MW-16, MW-32, MW-33A, RW-13, RW-14, RW-15, and TH-36 possibly due to migration and degradation of 1,1,1-TCA. Concentrations for 1,1-DCA were often greater than GWQS at RW-16 and TH-WLS, with results ranging from 120 μg/l to 620 μg/l. Reported detections at MW-35 were sporadically greater than the GWQS of 50 μg/l ranging from 10 to 60 μg/l.

- **1,1-Dichloroethylene (1,1-DCE)** was detected in early sampling at concentrations greater than the current GWQS at MW-6, RW-1, MW-2A, RW-13, MW-33A, MW-34, and MW-35. MDLs for this compound were consistently in excess of GWQS through the November 1993 sampling event. Since 2002, 1,1-DCE was detected at MW-04, MW-15, MW-34, RW-11, RW-15, and TH-36 below current GWQS and with sporadic concentrations greater than GWQS at MW-2A, MW-32, MW-33A, RW-09, and RW-14. Concentrations in MW-06, MW-16, MW-35, RW-16, and TH-WLS were consistently greater than or equal to current GWQS, with results ranging from 2 to 70 μg/l (GWQS of 2 μg/l).

- **1,2-Dichloroethane (1,2-DCA)** was only detected two times in samples collected from Site wells prior to 1993. Groundwater samples from MW-6 collected in June 1992 and from MW-2A collected in November 1992 had reported concentrations of 94 μg/l and 2 μg/l, respectively. Like 1,1-DCE, MDLs were consistently reported at concentrations greater than the MDL through 1993. Since semi-annual sampling began in 2002, 1,2-DCA has reported sporadically at concentrations in excess of the GWQS of 2 μg/l in RW-16 and TH-WLS, with detected concentrations ranging from 1.4 μg/l to 48 μg/l.

- **Carbon Tetrachloride (CT)** has been sporadically reported at concentrations greater than GWQS at MW-37 with concentrations ranging from 0.8 to 6.5 μg/l since 2002 (GWQS of 2 μg/l). Results related to RW-16 report MDLs greater than current GWQS, but no detections were indicated.

- **Chloroethane (ClEth)** has only been detected since 2002 at RW-16 with concentrations greater than GWQS, ranging from 280 to 2800 μg/l. Concentrations have been reported below the GWQS of 100 μg/l sporadically at TH-WLS, with results ranging from 22 to 100 μg/l.

- **Cis and trans 1,2-Dichloroethylene (cis-/trans-1,2-DCE)** (or total dichloroethylenes) were detected predominantly in MW-4 at concentrations ranging from 3 μg/l to 420 μg/l from 1989 to 1993. Other wells exhibiting detectable concentrations of dichloroethylenes prior to 2002 include MW-1, MW-3, RW-2, RW-5, and TH-36. Since semi-annual sampling commenced in 2002, concentrations greater than the GWQS of 70 μg/l were reported at MW-04 and RW-09, ranging from 70 to 420 μg/l. Wells that reported detections of dichloroethylenes since May 2002 below the GWQS include: MW-15, MW-16, MW-32, MW-33A, MW-34, MW-35, RW-14, RW-15, RW-16, TH-36, and TH-WLS, ranging from 0.3 to 58 μg/l.

- **Methylene Chloride (MeCl)** had been identified in sampling from 1992 to 1999 at a variety of Site wells and was reported with qualified results indicating that the analyte had also been detected in laboratory blanks. Analytical results from samples collected prior to 2002 detected concentrations ranging from 6 to 35 μg/l in wells including MW-1, MW-2/MW-2A, MW-4, MW-5, MW-6, MW-17, MW-21, MW-34, MW-36, MW-37, MW-38, MW-39, RW-11, and TH-36. Since May 2002, only one groundwater sample collected from MW-16 had a reported detection of MeCl of 2.7 μg/l. Groundwater samples collected from RW-09, RW-16, and TH-WLS were reported as not detected but had MDLs greater than the current GWQS.

- **Tetrachloroethylene (PCE)** had been identified in several Site wells prior to 2002 at concentrations ranging from 2 μg/l to 52 μg/l. PCE appeared to be located predominantly near MW-4 through the early 1990s (though results from MW-3 in May 1992 reported a PCE concentration of 34 μg/l, while MW-4 did not have a detectable concentration). Since semi-annual sampling began in May 2002, PCE has been sporadically reported at concentrations greater than the current GWQS of 1 μg/l at MW-04, MW-06, MW-15, MW-32, MW-16, MW-33A, MW-34, MW-35, MW-37, RW-09, RW-11, RW-13, RW-15, and TH-36 (with concentrations ranging from 1.0 to 18 μg/l). Detections of PCE below GWQS were reported at MW-2A and RW-14.

- **Trichloroethylene (TCE)** was identified prior to 2002 in MW-4 and MW-6 at concentrations exceeding current GWQS, ranging from 3 μg/l to 92 μg/l (GWQS of 1 μg/l). Since 2002, TCE has been reported with sporadic concentrations exceeding the GWQS at MW-2A, MW-4, MW-6, MW-15, MW-16, MW-32, MW-33A, MW-34, MW-35, MW-37, RW-9, RW-14, RW-15, RW-16, TH-36, and TH-WLS, with concentrations ranging from 1.0 to 64 μg/l. Prior to 2002, wells with reported detections below GWQS included MW-2, MW-3, MW-6, MW-16, MW-33A, MW-34, MW-35, MW-37, RW-1, RW-14, and TH-36. Wells that have reported detections below GWQS since May 2002 include MW-16, RW-11, and TH-36. For many results at RW-16, MDLs were reported greater than the GWQS, though detections were sporadically reported greater than GWQS for this well, ranging from 7.4 μg/l to 11 μg/l.

- **Vinyl Chloride (VC)** was detected at concentrations greater than the GWQS of 5 μg/l at MW-3 and MW-4 prior to 1992. Concentrations reported during this time ranged from 15 μg/l to 57 μg/l. Between 1992 and 2002, however, vinyl chloride was not reported at detectable concentrations at any wells sampled. Since semi-annual sampling began in May 2002, VC has been reported at MW-04, RW-03, RW-09, RW-15, RW-16, THby4, and TH-WLS at concentrations sporadically greater than current GWQS, ranging from 2.8 to 380 μg/l.

**<u>Non-Chlorinated Volatile Organic Compounds</u>**

- **Tentatively Identified Volatile Organic Compounds (VOTICs)** were reported at several wells prior to 1993. During this period, total concentrations ranged from 9 μg/l to 1,446 mg/l for the following wells: MW-1, MW-2A MW-3, MW-4, MW-6, MW-19, RW-4, RW-5, RW-11, RW-14, RW-16, and TH-36. Between 1993 and 2002, no VOTICs were reported at concentrations exceeding interim generic GWQS. Since 2002 detections were sporadically reported below GWQS. Concentrations since 2002 have ranged from 3.2 to 83 μg/l in the following wells: MW-04, MW-06, MW-20, MW-26, MW-34, MW-

35, MW-37, MW-47, RW-09, RW-11, and TH-WLS. MW-47 is an upgradient well, so the TICs represent constituents originating off-site, perhaps from the nearby gasoline station.

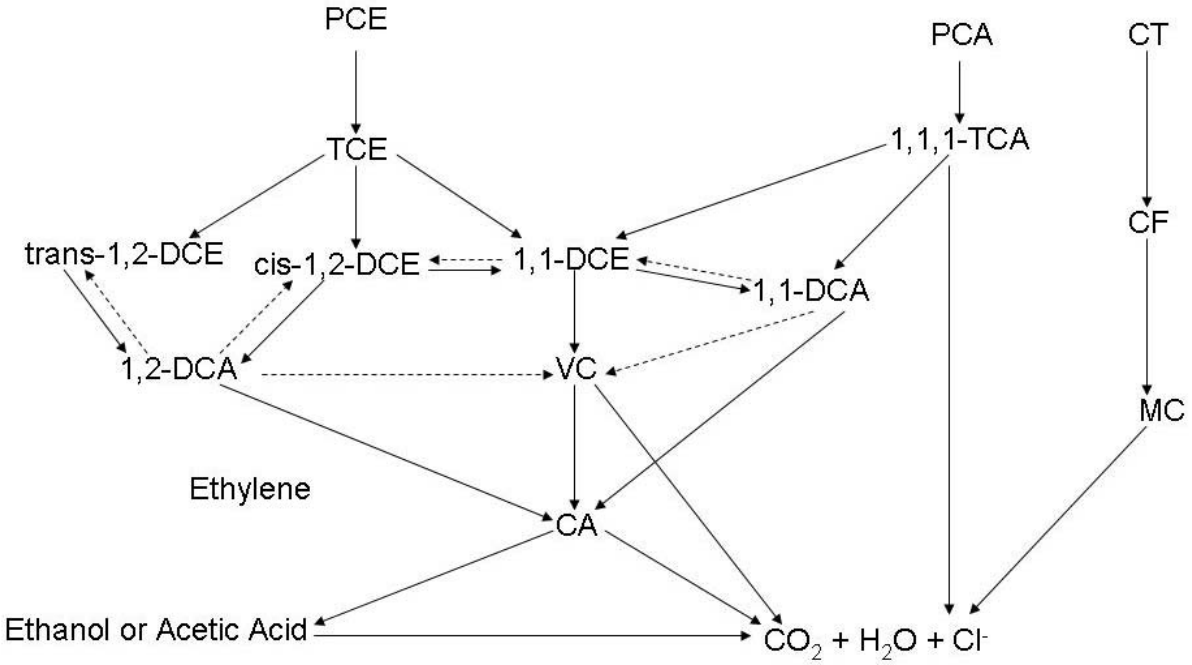
**Other Volatile Organic Compounds**

RW-16 has repeatedly reported MDLs greater than current GWQS for 1,1,2,2-trichloroethane, 1,2-dichloropropane, benzene, bromodichloromethane, and bromoform. Results of the May 2004 sampling event reported these compounds as undetected with MDLs at concentrations greater than GWQS.

**Volatile Organic Compounds in Soil Samples**

Detection of VOCs in soil samples has been sporadic across the Site, as documented in 2004 *SRIR* and subsequent more recent studies (see Section 9 – References). As reported in the 2004 *SRIR*, nine sample locations reported concentrations for PCE and TCE greater than current IGWSCC, including five in AOC 10 (Heat Treat Building #14), two in AOC 19 (Air Trappage Tank at Building #12), one in Building #16, and one in the Cameron Area; all locations have been delineated vertically and horizontally. The highest reported concentrations were reported in AOC 10 (1.2 to 75 mg/kg), while concentrations in the remaining areas ranged from 1.3 to 7.6 mg/kg. Data from more recent soil sampling is presented in various reports (Section 9 – References). No evidence of a continuing source to groundwater was encountered.

Based on NJDEP comments in their October 25, 2004 NJDEP letter specifically that the chlorinated solvent plume on Site is composed of …*"PCE, TCE, and their breakdown products, 1,1,1TCA and its breakdown products, and carbon tetrachloride,"* IR and ENSR reviewed the various degradation pathways for chlorinated solvent compounds. As shown below, we have included is a degradation pathway chart illustrating the parent compounds (PCE, TCE, PCA, and CT) of the Site plume mentioned above and the likely degradation pathways. As presented, many of the degradation products (1,1-DCE, 1,1-DCA, 1,2-DCA, cis-/trans-1,2-DCE, CF, and VC) may originate as a variety of parent compounds (http://www.sandia.gov/eesector/gs/gc/na/mnatoolbox.pdf, March 7, 2005, pg 21-25). Because of this and a lack of residual soil contamination that could indicate a current or past source to groundwater, it appears that the CVOC impacts to groundwater do no originate from one or more large releases, but instead small and sporadic releases due to general handling practices as discussed in Section 3 above.




**Metals**

- **Arsenic** was detected in excess of the GWQS in MW-4 and MW-5 in sampling events conducted in 1989 and 1991. Concentrations exceeding the GWQS were not identified in sampling events through 2000. In 2002 arsenic was detected at concentrations exceeding current GWQS (8 μg/l) at MW-30, MW-36, MW-39, and TH-36 ranging from 10.6 to 38.7 μg/l, but there hasn't been detection greater than GWQS since April 2003.

- **Chromium** was first reported in RW-9 in 1991 at a concentration well below the GWQS. Since sampling began in May 2002, chromium has been detected in excess of GWQS in MW-38, MW-39, and RW-11. MW-38 collapsed and MW-39 has not reported detections of chromium since October 2003. RW-11 has reported detections sporadically greater than current GWQS (100 μg/l) from May 2002 (118 μg/l) through October 2003 (108 μg/l) with the remaining two sampling events reporting detections below GWQS (38.3 to 68.7 μg/l). All field filtered samples reported detected concentrations at RW-11 less than GWQS (30.3 to 93.2 μg/l).

- **Lead**, like arsenic, was only detected in excess of the GWQS in MW-4 and MW-5 in a 1989 sampling event. More recent analytical results have not reported concentrations of lead in either of these wells. In 2002, lead was detected at concentrations greater than current GWQS (10 μg/l) at MW-30, MW-36, MW-39, and TH36, with concentrations ranging from 13.2 to 166 μg/l. Since May 2003, reported concentrations of lead have not exceeded GWQS at these wells.

In October 2004, groundwater samples from MW-1, MW-3, MW-4, MW-12, MW-16, MW-26, MW-27, MW-30, MW-34, MW-36, MW-39, MW-49, MW-50, MW-54, RW-09, RW-11, RW-13, and TH36 were tested for PP Metals at the request of the NJDEP (per their October 23, 2003 letter). To address NJDEP comments, well locations were selected based on metal results reported from soil sampling. Groundwater analytical results indicated that antimony, arsenic, chromium, copper, and nickel were all detected in the groundwater samples at a variety of locations, but no concentrations were reported greater than current GWQS. Figures 9 and 10 summarize analytical results for arsenic and lead found in groundwater and compare these results with soil analytical data. A summary of the soil analytical results is presented as Appendix C.

### 4.4 LNAPL

A total of more than 270,000 gallons of oil has been reportedly spilled in the area overlying the current area of LNAPL impacted groundwater. No documentation of cleanup activities was uncovered during the review of facility file and historical documents, although it is reasonable that some cleanup activity would have occurred.

Based on available information to date, it appears that LNAPL is related to multiple documented historic spills (identified on Figure 4 and discussed above) as well as possible long-term incidental spills and releases. As shown on Figure 4, an aggregate of three main areas (courtyard area south-east of Building #14, east of Buildings #12 and #13, and the inverse ponds) have recorded LNAPL impacts in groundwater. The first area is located beneath the courtyard surrounding RW-9. Oil in this area is believed to have leaked from the quench oil tanks (AOC-12) and traveled down the soil column to bedrock where it appears to have spread and entered the bedrock through fractures. This theory is supported by LNAPL-saturated soils identified in the area beneath the quench oil tanks as well as the GC fingerprint of LNAPL collected from RW-9, which differs from oil submitted for GC fingerprinting in other portions of the LNAPL impacted area. LNAPL from the AOC-12 area may be commingling with LNAPLs released to the east of RW-9 and east of Buildings #12 (Powerhouse) and #13.

LNAPL in the area east of Buildings 12 & 13 extending east to the bulk aboveground fuel oil tanks is believed to be related to multiple spills and oil-related AOCs within this area. The spill that had the largest impact was likely the 1940's spill that discharged more than 200,000 gallons of oil in this area (described in section 4.2). Analysis of the soil analytical data and field observations have revealed no remaining saturated soil impacts; however, visual impacts were noted during the AOC 35 and 38 excavations reported in 1995 *Report of Soil Investigation AOC 35 & 38* and reviewed in 2004 *SHR*. Since more than 60 years may have passed since the 1940's spill, it is possible that oil has drained from soils to underlying bedrock, and residual oil within the soil has biologically degraded, leaving no residual impact from of the original spill. Additionally, although no documentation has been discovered detailing any original cleanup, it is possible that saturated soils were removed to the extent possible leaving only marginally impacted soil in place.

The third area of LNAPL impacted groundwater is located beneath the Inverse Ponds. Any oil spill that may have entered the stormwater collection system, including the 1940s spill, would have discharged to the inverse ponds, which were designed to contain oil in such an event. The inverse ponds, as indicated in the 2004 *SHR*, have been in approximately the same locations since the 1940s, but have varied in construction and number. Three possible inverse ponds were indicated on the 1939 aerial photo presented in the 2004 *SHR*, suggesting that the area that may have been impacted by oil following a spill extends further than the present-day inverse ponds. Several accounts, described previously and identified on Figure 4, indicate that the inverse ponds ultimately received oil from spills on-Site.

## 4.5 Fate and Transport

### 4.5.1 Groundwater Flow

According to the groundwater contour map (Figure 3), groundwater flow demonstrates a southeast directional flow. The geological conceptual model reported in the 2004 *AGWMR-SRIR* indicates a dominant fracture orientation striking northeasterly on the Site, creating anisotropy in the groundwater system. Based on the observed distribution of LNAPL and CVOCs, it appears that groundwater flow and therefore contaminant migration are affected by the fracture orientation, with migration to the northeast and southwest. The monitoring wells are not currently constructed to evaluate vertical components of flow. Heat pulse flow measurements indicated little or no vertical flow in wells; more sensitive techniques may be required to access the horizontal and vertical flow components of this system. Conceptually, downward gradients are likely in upland areas, with upward gradients in lowlands. The water levels at MW-49, located near the creek, do indicate vertical gradients upward.

Further geologic investigation is necessary to identify the hydraulic properties (flow, conductivity, connectivity) of the major fractures in the groundwater system, as detailed in Section 5 of this work plan.

### 4.5.2 LNAPL

As reported in the geological conceptual model submitted in the 2004 *AGWMR-SRIR* the LNAPL appears to be confined to the fracture and/or bedding planes unless it encounters an unidentified void or fracture feature oblique to the bedding, which would enable cross-fracture mobility. Cross-section C-C' on Figure 11 has been prepared parallel to the strike of the bedrock fractures through the LNAPL plume. As shown on the section, LNAPL and/or hydrocarbon odors are present in a line of wells from MW10 through MW20, a length of approximately 2100 ft. In contrast, as shown on Figure 4, the extent of LNAPL in the direction perpendicular to strike (i.e., between wells RW16 and MW5) is significantly less, about 1000 ft. This pattern of distribution indicates that there is flow and migration parallel to bedrock strike, which is common in many fractured bedrock systems.

Examination of cross-section C-C' indicates a series of bedrock fractures through many of these wells at approximately the same elevations. For example, there are fractures at an elevation of approximately 250 ft in RW14, MW10, RW1, RW3, and MW20. There are similar sets of fractures across several wells at elevations of approximately 195 and 225 ft as well. Because these fractures appear to extend for some distance across the site, they provide a mechanism for the LNAPL to migrate relatively easily, as compared to possible migration through the more solid rock in perpendicular directions. This creates a preferential flow zone, which has resulted in a larger extent of LNAPL in directions parallel to strike.

In addition to the primary direction of migration along the strike of the bedrock fractures, it is likely that there is secondary migration downdip as well as vertically with the seasonal changes in water levels. There is also likely to be some smaller component of migration associated with secondary, smaller, fractures.

Gauging data since 2002 summarized in Table 2 illustrate the lack of migration in LNAPL since the on-set of the May 2002 site-wide groundwater semi-annual sampling events based on the lack of product detected in new wells and average increase in LNAPL thickness. These data indicate that transport of LNAPL in the bedrock is limited. This may be partially due to the containment caused by the active remediation systems, but may also be due to the relatively small amount of remaining LNAPL.

Based on groundwater analytical results from samples collected at monitoring and recovery wells with LNAPL impact, it appears that no related dissolved-phase constituents are present in groundwater associated with LNAPL. These data, along with LNAPL fingerprint data Table 4, indicate that LNAPL likely consists of the older recalcitrant long-chain aliphatic compounds and that the lower molecular weight compounds appear to have dissolved and attenuated.

### 4.5.3 Chlorinated Volatile Organic Compounds

Based on the geologic conceptual model provided in the 2004 *AGWMR-SRIR* and the observed occurrence of CVOCs, some CVOCs may migrate along the bedding and fracture dips toward the southwest, while some CVOCs may have migrated along bedding and fracture planes with groundwater flow to the northeast.

A discussion of the distribution of CVOCs in groundwater is provided below.

In the NJDEP response letter dated October 25, 2004 the CVOCs were referred to as being confined to individual plumes. Upon review of the historical data presented in Section 4.3 it may be more accurate to say that CVOCs appear sporadically across the Site with different combinations of individual compounds in different wells in some cases. They do not form a significant, extensive plume

(or plumes) as previously suggested in the NJDEP's October 25, 2004 comment letter. This pattern of occurrence is consistent with the origin of the CVOCs being small spills or releases from general handling practices at more than one of the many areas on-site where solvents are likely to have been used.

1,1,1-TCA and its potential breakdown products (1,1-DCA, 1,1-DCE) are present in three general areas of the Site: the main plant area (e.g., RW-16, TH-WLS), in field south of the landfill (e.g., MW-6), and beneath the Cameron Area (e.g., MW-35) as shown on Figure 4. Concentrations in RW-16, THWLS, MW-6 and MW-35 are typically above GWQS. Concentrations in other wells in these areas are not detected or below GWQS.

Carbon tetrachloride has only been detected at one well, MW-37 located in the southern portion of the agricultural field. The maximum detected concentration was 6.2 ug/l (compared to the GWQS of 2 ug/l). Chloroform (CF), has been detected at concentrations less than current GWQS at MW-15, MW-32, and RW-14, as well as at MW-37 with concentrations ranging from 0.2 to 0.9 ug/l.

PCE and/or TCE and their degradation products (cis-1,2-DCE, 1,1-DCE, vinyl chloride) are present in groundwater in three general areas: the main plant area (RW-9, RW-16), the Cameron Area (MW-35), and the field south of the old landfill (MW-4, MW-37). While these are the same three general areas where 1,1,1-TCA is also present, the local patterns and distributions of the different constituents are different, as shown on Figure 4. These general patterns suggest the different compounds originate from chemically-different sources in different areas.

As with the LNAPL, the transport of the CVOCs is likely to be controlled by the bedrock anisotropy, that is, there will be preferential migration the northeast and southwest, and down-dip to the southeast. As with the LNAPL, the transport of the CVOCs is likely to be controlled by the bedrock anisotropy, that is, there will be preferential migration to the northeast and southwest, and down-dip to the southeast. Two cross-sections are presented in Figure 11. Section D-D' is oriented perpendicular to the strike of the bedrock fractures; section E-E' is parallel to strike. These sections illustrate the following points:

- Based on the bedrock structure, MW53 is in an appropriate location to evaluate potential impacts from the old landfill. The fact that no CVOCs are detected in this well indicates that the old landfill cannot be creating a significant CVOC plume at the site. This is further supported by the lack for CVOCs at MW30 and MW3, both located appropriately to intercept migration from the old landfill.

- CVOCs detected in MW4, MW6 may have originated at the landfill or be from other sources (for example, the Cameron Area for MW6). In either case, they do not indicate the presence of extensive plumes of CVOCs at the site.

- CVOCs detected in MW6 appear related to those at MW35. The wells are located along bedrock strike (see Section E-E'), and the nature of the CVOCs in the two wells is similar (primarily 1,1,1-

TCA with lower concentrations of other CVOCs). There is a fracture zone at approximate elevation 232 ft in both wells. It is possible that if MW35 were deeper, more common fractures would be observed.

- If CVOCs were to extend off-site from beneath the Cameron Area, the primary direction of transport would be to the southwest, along the strike of the bedrock fractures.

- From MW4, the primary direction of migration would be expected to be the northeast and/or southwest, parallel to bedrock strike. There is no apparent hydrologic connection between MW4 and MW37 located further south. Although MW37 is down-dip from MW4, the angle of the dip is too steep for any isolated fracture to intersect both wells. In addition, the specific CVOCs present in the two wells are different.

- An understanding of the structure of the bedrock formation and evaluating the CVOCs present in various wells at the site show that CVOCs are detected at relatively low concentrations, sporadically across the site, and do not extend continuously for significant distances.

The current well construction does not allow evaluation of potential vertical migration of constituents. The PDB sampling shows similar concentrations at multiple levels in the open boreholes. This suggests that either there is little vertical stratification of chemicals to the depths explored, or that conditions in the boreholes are well-mixed. Additional activities are proposed in Section 5 to further evaluate the distribution of CVOCs vertically.

The classes of CVOCs encountered at the Site can be naturally degraded through reductive dissolution under the appropriate geochemical conditions. Section 5 includes groundwater sampling to evaluate the Site-specific geochemical conditions and other factors associated with natural attenuation.

# 5.0 PROPOSED REMEDIAL INVESTIGATION

The objective of the ongoing remedial investigation is to gather sufficient information and data to define the extent of groundwater impacts in excess of applicable standards, identify possible sources of groundwater impact, and characterize the fate and transport of constituents so that remedial alternatives can be identified and evaluated. The proposed remedial investigation for groundwater at the former Ingersoll-Rand property will include a phased approach as describe below and will include but not be limited to the following activities.

Phase I – Revise Groundwater Sampling Plan

- Perform detailed analysis of current and historic geophysical and chemical data to aid in remedial alternative analysis;
- Incorporate the PDB sampling method in April 2005 for wells previously sampled conventionally with non-detected analytical results;
- Incorporate wells in the vicinity of soil locations with analytical results greater then NJDEP soil criteria for metals for PP Metals analysis in April 2005; and
- Continue quarterly product thickness and water level gauging of all Site wells.

Phase II – Well Construction Review and Modification

- Assess existing well construction for compliance with N.J.A.C. 7:9D;
- Complete geophysical logging and/or other testing for wells to be retrofit;
- Determine likely retrofit construction or abandonment – including production wells on-site; and
- Complete well abandonment or retrofit, redevelop, and re-sample.

Phase III – Vertical Delineation

- Review CVOC data from retro-fitted wells, as appropriate;
- Evaluate feasibility of packer testing to collect vertically-discrete groundwater samples;
- Deep Well Installation;
- Geophysical and chemical analysis of deep wells during construction;
- Update the geophysical model based on the data collected during well installation; and
- Review depth-discrete CVOC sample results, re-evaluate vertical distribution of CVOCs, and recommend additional actions, if any, for further vertical delineation.

Phase IV – Horizontal Delineation

- Review of water company and other records to identify those who may derive potable water from an domestic water supply well in the vicinity of the Site;
- Conduct a targeted door-to-door survey of identified locations;
- Conduct geologic review and sample offsite potable well(s); and
- Conduct offsite well installation to delineate offsite impacts if necessary.

Phase V – Aquifer Characterization

- Modify geologic database based on the current information gathered;
- Assess the vertical flow via a pilot test of salt slug conductivity testing;
- Evaluate the feasibility of performing packer testing;
- Assess fracture conductivity via geophysical modeling; and
- Test fracture conductivity via targeted pump tests.

Phase VI – Fate and Transport Assessment

- Conduct groundwater sampling for parameters to evaluate Site-specific natural attenuation processes;
- Integrate data collected in other phases and update conceptual model concerning horizontal and vertical distribution, and rates and directions of contaminant migration; and
- Develop a conceptual model of fate and transport of constituents at the Site.

Following the above investigation the results will be reviewed and a Remedial Action Workplan for Groundwater will be developed

The following sections outline the activities proposed for the continuing Remedial Investigation for groundwater at the IR Site.

## 5.1 Groundwater Monitoring

### 5.1.1 Groundwater Elevation and Product Thickness

ENSR will continue conducting quarterly product thickness, water level, and depth to bottom gauging at all Site wells for incorporation in to the groundwater database. Gauging will be conducted using a dedicated interface probe and/or water level indicator using methods described in the 1992 NJDEP Field Sampling Procedures Manual (FSPM). All gauging data will be recorded in dedicated field book(s), undergo a QA/QC check, and be imported into the groundwater database. Quarterly product thickness and groundwater elevation tables will be generated from the database and groundwater contour maps will be produced for continued trend analysis. For ease of generation and consistency, groundwater contours will be generated using Golden Software's Surfer®, and will be reviewed by an ENSR hydrogeologist.

### 5.1.2 LNAPL Fingerprinting

Based on data collected during previous gauging events found in Table 2, ENSR will collect up to an additional five LNAPL samples if LNAPL collects in any well previously not sampled for LNAPL. Sample locations will be selected based on visual observations of product collected during gauging as

well as an analysis of product thickness trends in the plume area. Sample collection procedures will follow the NJDEP FSPM. All samples will be submitted to a qualified laboratory for a product fingerprint analysis as well as for VOC analysis. In addition, ENSR will review previous LNAPL GC fingerprint analyses for possible indication of the presence of chlorinated organic compounds.

### 5.1.3 Groundwater Sampling

Based on the results of the comprehensive initial round of groundwater sampling in May 2002 and the past five semiannual sampling events, Ingersoll-Rand has selected approximately 40 wells to be sampled on a semiannual basis (this may change as new wells are installed at the Site). Wells have been selected based mostly on results collected since May 2002, expected migration pathways of contaminants, and/or at the request of the NJDEP per their October 25, 2004 letter. Table 6 outlines the sampling scope of the proposed semiannual sampling events for 2005. The October 2005 sampling event will be augmented based on the results of the April 2005 sampling event, the completion of well installation and modifications, and the additional parameters necessary for the evaluation of natural attenuation across the Site. This evaluation will be incorporated into the Site conceptual model, specifically aiding in the assessment of the fate and transport of the CVOCs.

Sampling procedures will consist of standard purging and sampling, PDB sampling techniques, and/or low-flow purging and sampling. Procedures have been selected based on previous analytical results, correlation of PDB samples collected during the comprehensive groundwater sampling, and data requirements (i.e., vertical delineation). Groundwater sampling logs will be recorded for each sampling event as above. Samples will be submitted to a NJDEP-certified laboratory for analysis of VOC+10. PP Metals will also be analyzed in the April 2005 sampling event. Testing for PP Metals will be discontinued after April 2005 provided that the analytical results confirm that metals concentrations are less than the GWQS. The sampling plan will be revised accordingly with the analysis of the April sampling event results.

The Site's currently existing potable wells will be sampled after completing their geophysical investigation, restoration/retrofitting (if necessary), redevelopment, and any administrative changes required (see Section 5.3 below). Sampling procedures for WW-2 and WW-3 will consist of two to three PDB samplers being deployed in the screened interval of the well. Since initial inspection of WW-3 indicates that the well is obstructed by debris, we propose attempting to clear the obstruction(s). If the obstructions within WW-3 can be cleared, it will be sampled for VOCs using PDB samplers. WW-1 will also be sampled for VOCs using PDB samplers once the Site has been converted over to the municipal water supply.

The following groundwater sampling methods are proposed:

**Conventional Groundwater Sampling**

ENSR proposes to sample three wells (MW-01, MW-15, and RW-13) using a standard three-volume purge method as described in the NJDEP FSPM (Table 6). This method was selected for MW-01 because of the relatively small water column which is usually less than 25 feet. Conventional sampling was selected for MW-15 due to the previous collapse of the well; PDB sampling will be delayed until the well has been repaired. RW-13 was selected based on the fact that historical PDB sample analytical results have not reported detections of any target compound, while sample analytical results from samples collected via conventional procedures indicate that PCE was reported greater than GWQS. All groundwater analysis will be conducted by a NJDEP-certified laboratory for the following compounds as detailed in Table 6.

- Volatile organic compounds with a library search of the 10 largest unidentified peaks (VOC+10) via EPA Method 624, and
- PP Metals via EPA Method series 200 (April only).

**Low Flow Groundwater Sampling**

ENSR proposes to sample twenty wells, as identified in Table 6 that have previously reported groundwater analytical results indicating metal detections greater then GWQS or where soil analytical results indicate metal impacts in soil in the area of the well. As shown in Table 6, sampling of these wells will involve using the low flow purging and sampling method as described in the NJDEP's Low Down on Low-Flow (November 1997) and EPA's Low-Flow Groundwater Sampling Procedures (April 1996). Analysis will be conducted by a NJDEP-certified laboratory for the following compounds:

- PP Metals via EPA Method series 200 (April only).

ENSR proposes to sample up to 20 wells for natural attenuation indicator parameters in October 2005. Parameters will be indicative of geochemical conditions and break-down products, including carbonate/bicarbonate alkalinity, nitrate, ammonia, sulfate, sulfide, iron speciation (Fe+2, Fe+3), chloride, ethane, ethane, methane, hydrogen gas, dissolved oxygen, oxygen-reduction potential, and microbiological activity (plate count). Similar to the metals samples, the natural attenuation parameters will be collected using low-flow sampling techniques with purge rates less than 1L/min and draw downs stabilizing at less than 1 foot.

All groundwater sampling logs for conventional and low-flow sampling will be recorded in the field as per New Jersey Technical Requirements for Site Remediation (N.J.A.C. 7:26E) and will include measurements of field parameters.

**Passive Diffusion Bag Sampling**

ENSR is proposing the sampling of 35 wells using passive diffusion bag (PDB) samplers to verify water quality at multiple depths. As identified in Table 6, vertical sampling locations have been selected based on the results of previous geophysical investigations, well installation logs, and previous analytical data. Each of the PDB samplers will be deployed based on manufacturer's recommendations as well as USGS guidance. Samples will be analyzed by a NJDEP-certified laboratory for VOC+10.

In addition, PDBs may be used to collect information about the volatile natural attenuation parameters (such as ethane, ethane, methane). The possible use of PDB samplers for this purpose will be considered.

## 5.2 Well Modification/Retrofit

Previously installed monitoring wells at the Site were constructed, under approved variances, with steel casing installed at least 10 feet into competent bedrock while the remaining well depth was left as an open hole, typically in excess of 25 feet (Table 1). Based on Site observations, several monitoring wells have collapsed over time due to the presence of voids, as well as highly-fractured and weathered areas of bedrock. Due to the collapse of some of these monitoring wells and lack of available borehole logs, Ingersoll-Rand has been re-evaluating the well construction and the potential to retrofit existing wells at the most appropriate intervals for sampling at each location. Evaluation has been based on current well installation requirements, depth of identified bedrock fractures, and analytical results from previous groundwater sampling events.

Based on the variance requested in November 2004 for the construction of MW-51A (Appendix F), ENSR will propose the retrofit of up to 10 monitoring wells with open bore-holes greater than 25 feet. The retrofitting will consist of re-drilling to the original depth if necessary, inserting and grouting steel casing into the open bore-hole and in-situ perforating a selected 25 foot interval, similar to the variance for MW-51A (Appendix F) based on previous chemical and geophysical data. If geophysical logging has not been previously completed to depth the logging will occur as outlined in 5.4 before the installation of steel casing.

As appropriate, retro-fitting may be completed at additional wells in the future.

## 5.3 Potable Well Investigation

To aid in both the horizontal and vertical delineation of the dissolved phase impacts, ENSR proposes to convert the former potable well(s) into deep monitoring wells. This is consistent with NJDEP's comments contained in their October 25, 2004 letter. As such ENSR has proposed the following:

- Conduct an investigation in the area where the 1903 potable well (WW-3) was located in effort to determine if it remains. If present, ENSR will conduct down hole camera logging to determine well construction and the potential for the well to be used as a monitoring well.

- Determine if the 1974 potable well (WW-2) was ever administratively changed from a potable well to a monitoring well. If not, ENSR will assess the well construction and propose the use of this well for continued monitoring purposes.

- The active potable/production well (WW-1) will be evaluated and converted to a monitoring well when PREI completes the conversion of the Site to city water.

Data obtained from these investigations will be submitted to NJDEP Bureau of Water Allocation along with a request that these wells be converted to deep bedrock monitoring wells. Upon Bureau of Water Allocation approval, the well heads will be modified to a similar construction as other onsite wells and each will be surveyed by a NJ-licensed professional land surveyor to NJDEP requirements.

Proposed groundwater sampling involving WW-1, WW-2, and WW-3 is described in section 5.1.3.

### 5.4 Geophysical Investigation

Based on the analyses of the groundwater and geologic databases, Ingersoll-Rand will select up to 10 previously installed monitoring and/or recovery wells and any new well for geophysical investigation to provide additional data to supplement the existing geologic model of the Site. The geophysical probes will be lowered into each of the open bore-holes of the monitor wells and/or recovery wells and the following suite of geophysical logging procedures will be considered.

- An optical televiewer (OPTV) will be used to record high-resolution imagery of the location and character of features such as fractures and solution openings. OPTV will also provide the strike and dip of planar features, such as fractures and bedding planes. OPTV data will be recorded electronically and hardcopy logs will be produced for reporting and record-keeping requirements. Site

- Caliper logs will be obtained to measure changes in the average diameter of the bore-hole due to fractures, solution cavities, and/or natural void spaces or caverns. Caliper logs provide the best information about locations of potential fractures and other information needed to support other testing programs (such as packer testing). The caliper logs are also used to correct other logs for hole-diameter effects. Caliper logs will be recorded electronically and hardcopy logs will be produced for reporting and record-keeping requirements.

Experienced ENSR personnel and/or subcontractors will operate geophysical equipment per ENSR standard operating procedures (SOPs), and/or ASTM Standards for geophysical characterization. All

geophysical logging will be recorded electronically in the field. Hard copy logs will be produced in the field for record-keeping, reporting, and comparison with final logs completed after data analysis. This new information will be incorporated into the geophysical database and utilized in the updated geologic model. In addition, geophysical data will be used to help guide other investigation activities, including well retro-fitting, salt-slug testing, and packer testing.

## 5.5 Aquifer Characterization

The geologic conditions and structural geology at the Site have been studied extensively, however, while this geologic information is critical to understanding groundwater conditions at the Site, the specifics of how the geology affects the groundwater flow have not been fully evaluated. Potential water-bearing fractures have been identified using geophysical methods, but the importance of these fractures (both hydraulically and with respect to the presence of contaminants) has not been fully evaluated. The following procedures are proposed to fill in the data gaps for the hydrogeologic conditions at the Site.

### 5.5.1 Salt Slug Testing

The salt-slug testing will be conducted in up to 20 wells, primarily focused in the Cameron Area, but will also provide a general coverage of the Site. Testing will consist of adding a salt solution with elevated specific conductance to the top of the water column in each well and monitoring the well for conductivity and temperature changes. As the solution drifts downward through the water column, the specific conductance within the water column will change. The general drift of the solution may be affected by active fractures within the well, providing knowledge of which water-bearing fractures are active.

All conductivity/temperature logging will be recorded electronically in the field. Hard copy logs will be produced in the field for record-keeping, reporting, and comparison with final logs completed after data analysis. This new information will be incorporated into the geophysical database and utilized in the updated geologic model. It will also be used to help guide well retro-fitting and selecting zones for packer testing.

### 5.5.2 Packer Testing

Packer testing will be performed in up to 5 wells, with two separate intervals tested in each well. Packer testing consists of lowering inflatable packers into an open borehole, inflating the packers to isolate specific sections of the borehole, and testing for yield/permeability, measurement of hydraulic head, and collection of groundwater samples. The isolated section within the bore hole represents a single fracture or fracture zone rather than a borehole average. The results from packer tests will be used to select appropriate open intervals for the well retro-fitting, help to delineate vertical extent of

contamination, and to provide specific information concerning the fate and transport of CVOCs across the Site.

At each packer interval, the following data will be collected: hydraulic heads above, within, and below the interval, and estimated pumping yield within the interval. In addition, a groundwater sample will be collected from within the interval and analyzed for VO+10. Groundwater purging and sampling will be conducted using low-flow techniques as described in the NJDEP's Low Down on Low-Flow (November 1997) and EPA's Low-Flow Groundwater sampling Procedures (April 1996). Analysis will be conducted by a NJDEP-certified laboratory.

### 5.5.3 Aquifer Stress Test

Aquifer pumping test will be performed to evaluate hydraulic connections between wells/fractures and possible migration pathways on Site. One pump test will be performed in the southwestern portion of the Cameron Area. Specific wells to be tested and monitored will be selected based on the results of other tasks (such as the geophysics and salt-slug testing).

The pumping test will last nearly ten days, consisting of three days of background water level monitoring, one day for step-drawdown pumping and establishing a desired pumping rate, three days of active pumping at a constant rate, and three days of monitoring the recovery of water levels. All water levels will be measured and recorded using trolls and data-logging equipment. Manual water levels will also be measured periodically during the 10-day period. During the active pumping periods, two ENSR personnel will be on-Site to ensure continued operation of the pump and collect manual water-level measurements as appropriate. Pumped groundwater will be discharged to the ground away from the wellhead.

The collected data will be downloaded and analyzed using appropriate methods to estimate aquifer hydraulic characteristics (such as transmissivity). In addition, the relative response in various wells will be evaluated to aid in understanding hydraulic connections between wells and fractures and update the CSM accordingly.

As appropriate, additional pumping test(s) may be considered for other areas on Site.

## 5.6 Monitoring Well Installation

Wells will be installed using air rotary percussion drilling or dual rotary drilling methods and will be completed per NJDEP requirements or per approved variance as may be appropriate. Steel casing will be set to a minimum of 10 feet into competent bedrock and an open bore hole will be continued to depth. Detailed geologic logs will be recorded by a field geologist and recorded in a logbook. Geophysical logging will be completed to assess fracture depth and orientation, and packer testing for VO-+10 will be completed to identify the contaminated and clean fractures. Based on the results,

ENSR will propose an appropriate well construction similar to the construction outlined in the variance for MW-51A (Appendix F). Upon final completion, the monitoring wells will be developed until a clear discharge is observed. Wells will be allowed to stabilize for a minimum of two weeks prior to sampling. An updated sampling plan for these wells will be included in a forthcoming progress report.

As Figure 10 illustrates, three deep wells (MW-55 through MW-57) are proposed for the south side of the Site to assess vertical delineation concerns and document geologic conditions as well as address NJDEP recommendations. MW-56 will be completed in fall of 2005 and be the basis for the other two (MW-55 and MW-57), which will be completed as necessary in 2006.

The following general procedures are planned for the well installations. It should be recognized that given the unstable geologic conditions at the Site and the unusual objectives, these procedures may require adjustment and modification in the field. All deep wells are proposed to be installed to an estimated 500 feet below ground surface using a telescoping casing methodology regardless of which drilling method gets approval from the NJDEP. The proposed location of MW-56 is in the northwest portion of the Old Landfill in effort to evaluate potential impacts between MW-4 and a suspect historical source area south of Building #9. For MW-56 an outer casing will be set through the landfill and an inner casing will initially be set approximately 10 feet into competent bedrock. Subsequently, an open pilot hole will be drilled to approximately 150 - 200 feet below the bedrock surface with groundwater samples collected at 50 foot intervals or at identified water producing fractures to provide vertical characterization. Groundwater samples will be submitted to a NJ-Certified laboratory for VO+10 analysis of an expedited turn-around time. Geophysical logging with OPTV and caliper tools will be conducted after completion of the 200-foot pilot hole. After completion of groundwater sampling and geophysical logging, the hole will be cased to depth and another 200-foot hole will be extended from the base of the newly installed casing. Groundwater sampling and geophysical logging will commence as above and this section of hole will also be cased. This procedure will continue until sufficient vertical characterization has been completed or until the decreasing size of the casing to be set prevent further drilling. Based on estimated fracture connectivity, an aquifer stress test may also be completed at various fractures in effort to evaluate connections between Site wells. Within a given borehole, it is anticipated that a small area of fractures will show the greatest impact. Concentrations will decrease with depth below this zone, either gradually or abruptly. Drilling will be discontinued once a non-impacted water-bearing zone is encountered beneath impacts. If no non-impacted zones are encountered, drilling will be stopped when the underlying sandstone formation is encountered. The entire well will be cased off and the well screens will be perforated in-situ as referenced in Appendix F, 25-ft of well casing at the non-impacted (or deepest) zone, similar to the retro-fits of the existing wells (Section 5.2). The installation of a second well to the impacted fracture(s) will be considered at that time.

Based on the results of the installation of MW-56, MW-57 is proposed southeast of the Old Landfill with the intended purpose of horizontally and vertically delineating the impacted fractures identified in MW-56 by intercepting the same fracture zone in the bedrock. Additionally, MW-57 will be utilized to

provide vertical delineation in the area of MW-04 and MW-37. An additional on Site well installation will be discussed at that time for the area south of MW-57, between MW-49 and MW-37 as request by the NJDEP Letter Dated 10/25/2004.

MW-55 is proposed in the Cameron Area for the delineation of impacts at MW-6, MW-33A, MW-34, and MW-35, all of which are approximately 200 feet deep. The proposed on-site location of MW-55 has been changed from that originally proposed in the *Response to NJDEP Letter Dated 10/28/2003* based on ENSR's geologic conceptual model to the south in between MW-06 and MW-35.

As additional information continues to be generated on the geologic and groundwater conditions at the Site, the objectives, plans, and locations of these wells may be adjusted. Such changes will be reviewed with the NJDEP.

## 5.7 Offsite Delineation

Based on the review of the NJDEP Bureau of Water Allocation (BWA) Well Search conducted in 2002, ENSR conducted supplemental activities in 2003 to make corrections to the well locations provided in the Well Search results. ENSR exhausted readily available methods (BWA file review & address cross-referencing), yet errors still obviously exist, including wells theoretically located onsite when on-site knowledge indicates they are not.

To further address location discrepancies as reported in the January 2004 *AGWMR & SRIR,* ENSR will contact the local and county health department and review available public records, including local water purveyor records to identify any properties not served. Neighborhood canvassing and/or a mailed questionnaire may be necessary to make the appropriate corrections to the BWA reported well locations for sampling and verification of a potable well. Wells within a half-mile downgradient of impacted wells in Cameron Area and the field south of the Old Landfill (i.e., MW-37) will be sampled to aid in delineation and water quality assessment, if identified.

Based on the results of the above well search, if necessary, a well (MW-58) is proposed to be installed offsite, southwest of MW-34, MW35, and MW51A to delineate potential off-site impact. Placement of the well will be decided after reviewing the analytical results for MW-51A from the April 2005 sampling event, the updated well search, and other testing results in the area. MW-58 will be installed in an appropriate off-site location depending on accessibility and permission of the Town of Phillipsburg and/or local residents.

## 5.8 Fate and Transport Analysis

As ENSR continues groundwater investigative activities the geological and chemistry databases will be continuously updated with new data. The geologic conceptual model as well as the Conceptual Site Model will periodically be evaluated based on the new data and will be updated as necessary.

Information relating the importance and connection of fractures will be combined with contaminant distribution to aid in understanding which fractures are active. The results of the natural attenuation monitoring will be reviewed and synthesized to determine whether appropriate geochemical conditions exist to support natural attenuation and whether there is evidence that it is taking place. A statistically-based trend analysis will be performed to support the natural attenuation evaluation. The fate and transport evaluation will also be used to evaluate the possibility of off-site migration of CVOCs.

## 5.9 Reporting

Ingersoll-Rand will submit quarterly progress reports (as required for case compliance) to document ongoing investigative activities and potential changes in the scope of the Remedial Investigation Work Plan. An *Annual Groundwater Report and Supplemental Remedial Investigation Report* will be prepared for submission to the NJDEP detailing the activities from August 2004 through July 2005. The report will include a detailed account of the methods used and results of the investigation along with any proposed updates to the *GW-RIWP* and/or recommendations for preparation of a Remedial Action Selection Report for Groundwater.

# 6.0 SCHEDULE

The schedule for the proposed groundwater investigation for 2005 is illustrated in Table 10 and detailed below:

- **Offsite Delineation**
  - Obtain information from Water Co, Health Dept, and Tax office (end August 2005)
  - Mail access request letters for sampling (September 2005)
  - Off Site potable well sampling (end October 2005)
  - Assessment of analytical data (end November2005)
  - NJDEP submittal (late December2005)
  - Additional activities needed (January to March 2006)
- **Well Retrofitting**
  - Analysis of the priority wells with approval from BWA (early July 2005)
  - Redrilling needed for the partial collapses (mid August 2005)
  - Geophysical investigation (mid to late August 2005)
  - Final construction with a 25' screened interval (end September to mid October 2005)
- **Geophysical Investigation**
  - Up to 10 new wells (mid to late August 2005)
- **Additional Aquifer Characterization**
  - Salt-slug testing (end of July to mid August 2005)
  - Aquifer stress testing (end August to mid September 2005)
  - Packer testing (mid August 2005)
- **Deep Well Installation**
  - Begin drilling (early November 2005)
  - Geophysical investigation (as needed in November 2005)
  - Targeted sampling (as needed in November 2005)
  - Final construction (end of November2005)
  - Decision on additional deep well installation (December 2005)
  - Additional well installation (January to March 2006)
- **Semi Annual GW Sampling**
  - Quarterly gauging (complete for January, April, and July)
  - PDB and PP-Metals sampling (complete for April 2005)
  - PDB deployment (early October 2005)

- Quarterly gauging (mid October 2005)
- PDB sampling (mid October 2005)
- MNA sampling (mid to late October 2005)
- 2nd round of MNA sampling (April 2006)
- Preliminary remedial determination (end of July 2006)

- **Potable Well Conversion**
  - Down hole investigation of current conditions at WW-2 & WW-3 (complete)
  - Geophysical investigation and sampling of WW-2 (September 2005)
  - Clearing of WW-3 (October 2005)
  - Complete investigation of WW-3 status (October 2005)

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# 7.0 QUALITY ASSURANCE PROJECT PLAN

Pursuant to the NJDEP Technical Requirements for Site Remediation (NJAC 7:26E-2.2) a Quality Assurance Project Plan (QAPP) has been prepared for the groundwater remedial investigation. The QAPP summarizes the field procedures, data quality objectives, and QA/QC procedures that will be implemented as part of the groundwater remedial investigation. Upon request, Ingersoll-Rand will provide NJDEP with a copy of the QAPP.

# 8.0 HEALTH AND SAFETY PLAN

ENSR has prepared a site-specific health and safety plan (HASP) to address the investigative procedures described in this work plan for field activities. A copy will be kept onsite at all times during field investigation activities. Upon request, Ingersoll-Rand will provide NJDEP with a copy of the site-specific HASP.

# 9.0 REFERENCES

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TABLES

**TABLE 1**
**Summary of Onsite Monitoring and Recovery Wells**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| Well | Permit No. | Date Installed | Original Well Depth (ft) | Most Recent Depth (ft) | Surface Elevation | Depth to Bedrock (ft) | Bedrock Elevation | DTW (ft) (01/10/2005) | Water Elevation | NJSP-X (1983) | NJSP-Y (1983) | Casing Material | Casing Depth (ft) | Inner Diameter (Inches) | Fracture Depth (ft) | Dip Azimuth | Dip Angle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW1 | 24-15860-7 | 1/1/1985 | 120 | 122 | 363.72 | 90 | 273.72 | 94.53 | 269.19 | 307302.72 | 678719.85 | steel | 65 | 6 | 97.8 | N304 | 54.3 |
| | | | | | | | | | | | | | | | 102.5 | N212 | 45.3 |
| | | | | | | | | | | | | | | | 109.7 | N337 | 45.8 |
| | | | | | | | | | | | | | | | 111.9 | N178 | 10.6 |
| | | | | | | | | | | | | | | | 114.85 | N161 | 26.2 |
| | | | | | | | | | | | | | | | 120.1 | N059 | 75.4 |
| | | | | | | | | | | | | | | | 121.8 | N036 | 40 |
| MW10 | 24-27446-7 | 11/13/1991 | 150 | 144 | 356.22 | 20 | 336.22 | 71.11 | 285.11 | 307373.61 | 677909.73 | steel | 54 | 8 | No significant water-bearing fractures observed. | | |
| MW11 | 24-28444-1 | 11/16/1991 | 200 | 199 | 364.25 | 45 | 319.25 | 77.73 | 286.52 | 306396.19 | 677512.56 | steel | 70 | 8 | No significant water-bearing fractures observed. | | |
| MW12 | 24-28574-9 | 12/6/1991 | 175 | 157 | 364.15 | 17 | 347.15 | 94.85 | 269.3 | 307551.15 | 678712.10 | steel | 60 | 8 | 74.65 | N271 | 70.6W |
| MW13 | 24-28713-0 | 12/11/1991 | 200 | 191 | 359.58 | 35 | 324.58 | 88.38 | 271.2 | 307387.98 | 677624.13 | steel | 61 | 8 | 109.25 | N281 | 52.5W |
| | | | | | | | | | | | | | | | 112.57 | N135 | 41.1SE |
| | | | | | | | | | | | | | | | 156.16 | N132 | 39.1SE |
| MW15 | 24-28745-8 | 1/29/1992 | 150 | 128 | 362.72 | 37 | 325.72 | 94.77 | 267.95 | 306853.02 | 677319.62 | steel | 78 | 8 | No significant water-bearing fractures observed. | | |
| MW16 | 24-28744-0 | 1/20/1992 | 200 | 182 | 363.66 | 21 | 342.66 | 89.91 | 273.75 | 306352.29 | 677316.37 | steel | 70 | 8 | No significant water-bearing fractures observed. | | |
| MW17 | 24-29053-0 | 2/5/1992 | 157 | 156 | 324.39 | 38 | 286.39 | 55.85 | 268.54 | 308800.76 | 678904.87 | steel | 61 | 8 | 132.3 | N181 | 36.6 |
| MW18 | 24-29054-8 | 2/14/1992 | 150 | 92 | 347.63 | 27 | 320.63 | 78.27 | 269.36 | 308111.91 | 678874.63 | steel | 60 | 8 | No significant water-bearing fractures observed. | | |
| MW19 | 24-29052-1 | 3/20/1992 | 150 | 150 | 340.66 | 25 | 315.66 | 86.2 | 254.46 | 308423.71 | 678342.01 | steel | 63 | 8 | No significant water-bearing fractures observed. | | |
| MW20 | 24-29146-3 | 4/3/1992 | 160 | 137 | 333.58 | 36 | 297.58 | 66.13 | 267.45 | 308513.65 | 678750.35 | steel | 65 | 8 | 72.5 | N153 | 44.2 |
| | | | | | | | | | | | | | | | 103.4 | N191 | 68.5 |
| MW21 | 24-29144-7 | 3/27/1992 | 200 | 200 | 355.85 | 15 | 340.85 | 72.81 | 283.04 | 307742.85 | 678657.82 | steel | 63 | 8 | No significant water-bearing fractures observed. | | |
| MW24 | 24-30001 | 11/9/1992 | 157 | 150 | 362.77 | 25 | 337.77 | 96.56 | 266.21 | 306175.40 | 677718.62 | steel | 62 | 8 | No significant water-bearing fractures observed. | | |
| MW25 | 24-30003 | 11/2/1992 | 160 | 160 | 319.66 | 18 | 301.66 | 67 | 252.66 | 307677.89 | 677401.44 | steel | 50 | 8 | 71.75 | N342 | 76.6NW |
| | | | | | | | | | | | | | | | 78.47 | N341 | 64.8NW |
| | | | | | | | | | | | | | | | 79.92 | N136 | 52.2SE |
| | | | | | | | | | | | | | | | 130.81 | N004 | 70.1N |
| MW26 | 24-30002 | 11/5/1992 | 160 | 155 | 318.76 | 11 | 307.76 | 68.96 | 249.8 | 307599.33 | 677199.64 | steel | 50 | 8 | No significant water-bearing fractures observed. | | |
| MW27 | 24-36865 | 11/11/1998 | 140 | 140 | 351.81 | 25 | 326.81 | 81.03 | 270.78 | 307170.46 | 677443.47 | steel | 49.5 | 6 | No significant water-bearing fractures observed. | | |
| MW28A | 24-37450 | 4/8/1999 | 125 | NG* | 343.53 | 24 | 319.53 | 51.55 | 291.98 | 307574.63 | 677794.17 | steel | 38.5 | 6 | 108.9 | N129 | 49.8 |
| MW29 | 24-36868 | 11/6/1998 | 145 | 108 | 326.84 | 10 | 316.84 | 66.45 | 260.39 | 307792.94 | 677638.52 | steel | 25.5 | 6 | 81.06 | N149 | 33.7SE |
| MW2A | 24-25893-8 | 10/23/1989 | 125 | 136 | 354.33 | 43 | 311.33 | 91.92 | 262.41 | 306138.04 | 676386.80 | steel | 60 | 6 | No significant water-bearing fractures observed. | | |
| MW3 | 24-15863-1 | 1/1/1985 | 110 | 118 | 339.68 | 5 | 334.68 | 75.35 | 264.33 | 307052.45 | 676191.80 | steel | 25 | 6 | 100.31 | N115 | 60.6SE |
| MW30 | 24-36869 | 11/5/1998 | 100 | 77 | 289.93 | 27 | 262.93 | 52.58 | 237.35 | 307948.34 | 677068.91 | steel | 50 | 6 | No significant water-bearing fractures observed. | | |
| MW31 | 24-36870 | 11/24/1998 | 175 | 172 | 367.35 | 27 | 340.35 | 91.38 | 275.97 | 306343.97 | 678111.05 | steel | 48.5 | 6 | No significant water-bearing fractures observed. | | |
| MW32 | 24-36871 | 11/13/1998 | 150 | 135 | 366.63 | 42 | 324.63 | 95.7 | 270.93 | 306913.71 | 677512.58 | steel | 58.5 | 6 | 103.4 | N111 | 46.6 |
| | | | | | | | | | | | | | | | 106.3 | N98 | 40.8 |
| | | | | | | | | | | | | | | | 123.4 | N251 | 50.1 |
| | | | | | | | | | | | | | | | 128.2 | N129 | 61.7 |
| MW33A | 24-37362 | 1/28/1999 | 125 | 122 | 351.36 | 8 | 343.36 | 86.5 | 264.86 | 305685.77 | 676712.11 | steel | 49.5 | 6 | No significant water-bearing fractures observed. | | |
| MW34 | 24-36984 | 1/21/1999 | 130 | 119 | 351.07 | 67 | 284.07 | 89.35 | 261.72 | 305723.63 | 676153.68 | steel | 75.5 | 6 | 100.8 | N110 | 53.7 |
| | | | | | | | | | | | | | | | 106.3 | N124 | 59.7 |
| | | | | | | | | | | | | | | | 113.7 | N116 | 56.9 |
| | | | | | | | | | | | | | | | 122.8 | N110 | 69.4 |
| MW35 | 24-36990 | 2/1/1999 | 145 | 139 | 350.32 | 43 | 307.32 | 89.58 | 260.74 | 306273.89 | 675714.10 | steel | 49.5 | 6 | No significant water-bearing fractures observed. | | |
| MW36 | 24-36986 | 2/9/1999 | 150 | 146 | 332.52 | 5 | 327.52 | 98.4 | 234.12 | 307325.27 | 675547.38 | steel | 24.5 | 6 | No significant water-bearing fractures observed. | | |
| MW37 | 24-36987 | 2/12/1999 | 100 | 104 | 284.59 | 5 | 279.59 | 52.95 | 231.64 | 307977.93 | 676246.15 | steel | 33.5 | 6 | No significant water-bearing fractures observed. | | |
| MW38 | 24-36988 | 2/11/1999 | 150 | collapsed | 310.09 | 5 | 305.09 | NG | 310.09 | 307653.32 | 675709.23 | steel | 49.5 | 6 | No significant water-bearing fractures observed. | | |
| MW39 | 24-36989 | 1/20/1999 | 150 | 135 | 341.07 | 15 | 326.07 | 73.28 | 267.79 | 306782.99 | 675364.08 | steel | 24.5 | 6 | No significant water-bearing fractures observed. | | |
| MW4 | 24-15864-0 | 1/1/1985 | 120 | 128 | 317.2 | 5 | 312.2 | 84.22 | 232.98 | 307593.97 | 676491.29 | steel | 40 | 6 | 122.3 | N299 | 67.5 |
| MW40 | 24-38016 | 1/6/2000 | 140 | 139 | 347.85 | 15 | 332.85 | 78.05 | 269.8 | 305903.47 | 678745.03 | steel | 33.5 | 6 | 89.91 | N315 | 76NW |
| MW41 | 24-38015 | 1/4/2000 | 150 | 146 | 347.91 | 15 | 332.91 | 72.4 | 275.51 | 305829.97 | 678199.12 | steel | 28.5 | 6 | No significant water-bearing fractures observed. | | |
| MW42 | 24-38014 | 12/21/1999 | 125 | 123 | 345.57 | 7 | 338.57 | 75.75 | 269.82 | 305593.72 | 679536.77 | steel | 28.5 | 6 | 91.27 | N121 | 36.7SE |
| | | | | | | | | | | | | | | | 91.48 | | |
| | | | | | | | | | | | | | | | 117.91 | N129 | 48.9SE |
| | | | | | | | | | | | | | | | 118.5 | N130 | 58.9SE |

**Notes:**

All depths are reported in Feet (ft) below top of well casing, except depth to bedrock which is measured from ground surface.

Elevations are reported in ft Above Mean Sea Level (AMSL) in NAVD 88.

Most recent depth measurements are from recent groundwater activities.

Fracture depth, azimuth, and angle were identified by optical televiewer (OPTV).

NG - Not gauged

NG* - Not gauged due to presence of product

** - Estimated depth due to presence of obstruction in the well

NR - Not reported/recorded

**TABLE 1**
**Summary of Onsite Monitoring and Recovery Wells**
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Phillipsburg, New Jersey

| Well | Permit No. | Date Installed | Original Well Depth (ft) | Most Recent Depth (ft) | Surface Elevation | Depth to Bedrock (ft) | Bedrock Elevation | DTW (ft) (01/10/2005) | Water Elevation | NJSP-X (1983) | NJSP-Y (1983) | Casing Material | Casing Depth (ft) | Inner Diameter (Inches) | Fracture Depth (ft) | Dip Azimuth | Dip Angle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW43A | 24-38751 | 1/24/2000 | 103 | 103 | 341.15 | 90 | 251.15 | 70.89 | 270.26 | 305509.57 | 678606.37 | steel | 75 | 4 | No significant water-bearing fractures observed. | | |
| MW44 | 24-38012 | 1/24/2000 | 115 | 98 | 340.59 | 26 | 314.59 | 74.66 | 265.93 | 305503.14 | 677766.47 | steel | 38.5 | 6 | No significant water-bearing fractures observed. | | |
| MW45 | 24-38011 | 1/14/2000 | 75 | 72 | 308.05 | 50 | 258.05 | 37.65 | 270.4 | 305125.63 | 678761.12 | steel | 50 | 4 | No significant water-bearing fractures observed. | | |
| MW46 | 24-0042-633 | 6/10/2003 | 180 | collapsed | 374.4 | 35 | 339.4 | NG | 374.4 | 306663.2 | 679782.2 | steel | 45 | 6 | 113.63 | 281 | 21W |
| | | | | | | | | | | | | | | | 114.36 | 43 | 45.4NE |
| MW47 | 24-0042-634 | 6/17/2003 | 165 | 139 | 361.67 | 12 | 349.67 | 86.52 | 275.15 | 307595.4 | 679959.1 | steel | 23 | 6 | 85.54 | 329 | 75NW |
| | | | | | | | | | | | | | | | 137.64 | 191 | 31.2S |
| MW48 | 24-0042-635 | 6/20/2003 | 135 | 136 | 329.23 | 10 | 319.23 | 93.57 | 235.66 | 308979.2 | 677841.2 | steel | 23 | 6 | No significant water-bearing fractures observed. | | |
| MW49 | 24-0042-636 | 6/26/2003 | 62 | 56 | 230.74 | 12 | 218.74 | 3.74 | 227 | 308751.1 | 676120.8 | steel | 38 | 6 | 54.43 | 158 | 35.2SE |
| MW5 | 24-15865-8 | 1/1/1985 | 120 | NG* | 326.36 | 20 | 306.36 | NG | 326.36 | 307523.07 | 677301.41 | steel | 27.5 | 6 | 80.5 | N124 | 53.5 |
| MW50 | 24-0042-637 | 6/12/2003 | 155 | 165 | 346.22 | 45 | 301.22 | 86.5 | 259.72 | 306007.7 | 675755.7 | steel | 58 | 6 | No significant water-bearing fractures observed. | | |
| MW51 | 24-0042-638 | 6/12/2003 | 155 | collapsed | 346.55 | 20 | 326.55 | NG | 346.55 | 305443.2 | 676496.5 | steel | 45 | 6 | No significant water-bearing fractures observed. | | |
| MW51A | 24-00043903 | 12/13/2004 | 140 | 137 | 346.55 | 21 | 325.55 | 83.85 | 262.7 | Not Surveyed | Not Surveyed | steel | 115 | 6 | No significant water-bearing fractures observed. | | |
| MW52 | 24-0042-639 | 6/24/2003 | 170 | 173 | 360.29 | 37 | 323.29 | 93.92 | 266.37 | 307087.1 | 677172.9 | steel | 58 | 6 | 93.38 | 303 | 54.6NW |
| | | | | | | | | | | | | | | | 109.4 | 98 | 47.5E |
| MW53 | 24-0042-640 | 7/3/2003 | 160 | 143 | 357 | 61 | 296 | 118.79 | 238.21 | 307518.4 | 676816.8 | steel | 72 | 6 | 126.73 | 122 | 40.7SE |
| MW54 | 24-00043-153 | 2/18/2004 | 125 | 125 | 361.43 | 28 | 333.43 | 91.81 | 269.62 | 306848.6 | 678300.2 | steel | 100 | 8 | No significant water-bearing fractures observed. | | |
| MW6 | 24-28445-9 | 11/8/1991 | 195 | 196 | 350.39 | 22 | 328.39 | 91.23 | 259.16 | 306433.47 | 676085.03 | steel | 60 | 8 | 117.84 | N118 | 50.9SE |
| MW8 | 24-28442-4 | 11/11/1991 | 200 | 173 | 363.63 | 21 | 342.63 | 82.53 | 281.1 | 307532.26 | 678515.71 | steel | 45 | 8 | No significant water-bearing fractures observed. | | |
| MW9 | 24-28443-2 | 11/6/1991 | 190 | 162 | 347.12 | 17.5 | 329.62 | 73.94 | 273.18 | 307760.27 | 678109.20 | steel | 40 | 8 | No significant water-bearing fractures observed. | | |
| Old WW (WW2) | 24-10334 | 12/15/1974 | 503 | NG | 354.01 | 38 | 316.01 | 84.66 | 269.35 | 307779.23 | 678377.67 | steel | 233 | 10 | No significant water-bearing fractures observed. | | |
| RW1 | 24-22756-1 | 8/13/1987 | 150 | NG* | 351.54 | 35 | 316.54 | 69.41 | 282.13 | 307761.80 | 678311.58 | steel | 44 | 8 | No significant water-bearing fractures observed. | | |
| RW10 | 24-27061-0 | 6/13/1990 | 175 | 174 | 363.14 | 20 | 343.14 | 84.4 | 278.74 | 306143.51 | 678222.67 | steel | 50 | 8 | No significant water-bearing fractures observed. | | |
| RW11 | 24-27086-5 | 6/15/1990 | 175 | 172 | 362.42 | 22 | 340.42 | 52.46 | 309.96 | 306596.90 | 678539.62 | steel | 50 | 8 | No significant water-bearing fractures observed. | | |
| RW12 | 24-27105-5 | 6/19/1990 | 170 | 174 | 363.16 | 32 | 331.16 | 92.27 | 270.89 | 306524.01 | 677612.58 | steel | 70 | 6 | 113.01 | N111 | 39.2SE |
| | | | | | | | | | | | | | | | 114.76 | N116 | 35.4SE |
| | | | | | | | | | | | | | | | 119.11 | N129 | 34.3SE |
| | | | | | | | | | | | | | | | 126.93 | N118 | 38SE |
| RW13 | 24-27106-3 | 6/20/1990 | 170 | 167 | 360.21 | 21 | 339.21 | 90.2 | 270.01 | 306443.13 | 677107.21 | steel | 60 | 6 | 160.81 | N123 | 42.7SE |
| RW14 | 24-27126-8 | 7/2/1990 | 170 | 143 | 362.07 | 70 | 292.07 | 93.49 | 268.58 | 306908.38 | 677508.47 | steel | 130 | 6 | No significant water-bearing fractures observed. | | |
| RW15 | 24-27075-0 | 7/5/1990 | 170 | 153 | 362.07 | 31 | 331.07 | 81.35 | 280.72 | 307299.65 | 678315.08 | steel | 60 | 6 | 96 | N140 | 22.1 |
| | | | | | | | | | | | | | | | 112.7 | N122 | 45.2 |
| RW16 | 24-27074-1 | 2/27/1991 | 155 | NG* | 363.35 | 47 | 316.35 | 93.98 | 269.37 | 307067.81 | 678215.64 | steel | 51 | 8 | 106.4 | N356 | 78.1 |
| RW17 (MW14) | 24-28746-6 | 1/1/1985 | 150 | NG* | 341.8 | 20 | 321.8 | 78.18 | 263.62 | 308249.31 | 678608.21 | steel | 75 | 8 | 122.9 | N167 | 34.8 |
| RW2 | 24-23078-2 | 11/8/1987 | 150 | NG* | 360.46 | 27 | 333.46 | 76.75 | 283.71 | 307529.96 | 678212.14 | steel | 41.5 | 10 | No significant water-bearing fractures observed. | | |
| RW3 | 24-23816 | | 151 | 150 | 350.2 | 17 | 333.2 | 70 | 280.2 | 307916.62 | 678411.61 | steel | 53 | 10 | 93.6 | N168 | 43 |
| | | | | | | | | | | | | | | | 115.2 | N120 | 31 |
| RW4 | 24-23180-1 | 11/21/1987 | 150 | NG* | 362.96 | 27 | 335.96 | 99.15 | 263.81 | 307143.30 | 678012.67 | steel | 84 | 10 | No significant water-bearing fractures observed. | | |
| RW5 | 24-25010 | 10/12/1988 | 175 | NG* | 359.66 | 25 | 334.66 | 75.75 | 283.91 | 307762.57 | 678412.77 | steel | 84.7 | 8 | 128.61 | N357 | 78.2N |
| | | | | | | | | | | | | | | | 131.85 | N185 | 77.5N |
| | | | | | | | | | | | | | | | 135.13 | N008 | 73N |
| RW6 | 24-24671-9 | 10/13/1988 | 200 | NG* | 358.63 | 27 | 331.63 | 80.4 | 278.23 | 307607.75 | 678312.75 | steel | 50 | 8 | No significant water-bearing fractures observed. | | |
| RW7 | 24-24672-7 | 10/14/1988 | 175 | 91 | 360.11 | 15 | 345.11 | 71.4 | 288.71 | 307453.15 | 678259.60 | steel | 34.7 | 8 | No significant water-bearing fractures observed. | | |
| RW8 | 24-24680-8 | 10/18/1988 | 175 | NG* | 361.01 | 25 | 336.01 | NG | 361.01 | 307450.00 | 678111.53 | steel | 50 | 8 | No significant water-bearing fractures observed. | | |
| RW8A | 24-27026-1 | 6/8/1990 | 197 | NG* | 360.3 | 22 | 338.3 | 90.4 | 269.9 | 307460.00 | 678111.53 | steel | 50 | 8 | 118.2 | N158 | 46.3 |
| | | | | | | | | | | | | | | | 126 | N137 | 40 |
| RW9 | 24-27000-8 | 6/6/1990 | 200 | NG* | 363.67 | 16 | 347.67 | 53.05 | 310.62 | 306527.86 | 678118.54 | steel | 50 | 8 | 118.4 | N154 | 43 |
| | | | | | | | | | | | | | | | 147.3 | N117 | 58 |
| TH36 | 24-23044-8 | 10/27/1987 | 125 | 117 | 361.15 | 25 | 336.16 | 58.78 | 302.37 | 306370.73 | 677714.95 | steel | 35 | 6 | No significant water-bearing fractures observed. | | |
| THBF (RW#A) | 2423179-7 | -- | 117 | collapsed | 351.16 | 12 | 339.16 | NG | 351.16 | 307860 | 678444 | steel | 20 | 14 | 122.5 | | |
| THby4 (TH34) | 24-23044 | 10/13/1987 | 127 | NG* | 373.37 | 20 | 353.37 | 92.43 | 280.94 | 307151 | 678008 | NR | NR | 6 | No significant water-bearing fractures observed. | | |
| THWLS (TH28) | 24-23178 | 10/21/1987 | 127 | NG | 373.47 | 60 | 313.47 | 93.04 | 280.43 | 306953 | 678038 | steel | 60 | 6 | No significant water-bearing fractures observed. | | |
| 1P (WW1) | 44-1 | 1/1/1934 | 460 | NG | 350 | 35 | 315 | 84 | 266 | 307057.21 | 677818.30 | steel | 223 | 10 | No significant water-bearing fractures observed. | | |
| WW3 | NA | 1903 | 800 | 98** | NR | NR | NR | 98** | NR | Not Surveyed | Not Surveyed | steel | 759 | 4 | No significant water-bearing fractures observed. | | |

**Notes:**

All depths are reported in Feet (ft) below top of well casing, except depth to bedrock which is measured from ground surface.

Elevations are reported in ft Above Mean Sea Level (AMSL) in NAVD 88.

Most recent depth measurements are from recent groundwater activities.

Fracture depth, azimuth, and angle were identified by optical televiewer (OPTV).

NG - Not gauged

NG* - Not gauged due to presence of product

** - Estimated depth due to presence of obstruction in the well

NR - Not reported/recorded

**TABLE 2**
**Summary of Historic Groundwater Elevation and Product Gauging Data**
**January 2002 through January 2005**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| Date | MW1 | | MW2A | | MW3 | | MW4 | | MW5[1] | | MW6 | | MW8 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness |
| 1/21/2002 | 248.82 | none | 246.72 | none | 246.08 | none | 225.49 | none | 235.28 | 7.27 | 241.68 | none | 264.51 | none |
| 2/21/2002 | 247.91 | none | 246.12 | none | 245.21 | none | 225.21 | none | 249.43 | 6.02 | 241.94 | none | 261.97 | none |
| 3/19/2002 | 247.26 | none | 245.34 | none | 244.59 | none | 225.04 | none | 249.04 | 5.77 | 240.34 | none | 260.54 | none |
| 4/26/2002 | 247.12 | none | 245.27 | none | 244.48 | none | 225.2 | none | 236.05 | -- | 240.49 | none | 259.85 | none |
| 7/29/2002 | 251.51 | none | 248.22 | none | 249.03 | none | 227.02 | none | 239.86 | 5.1 | 244.53 | none | 269.85 | none |
| 10/17/2002 | 251.95 | none | 249.58 | none | 249.55 | none | 228.03 | none | 249.05 | 1.44 | 245.74 | none | 270.95 | none |
| 1/27/2003 | 259 | none | 258.12 | none | 256.54 | none | 230.06 | none | on system | -- | 251.19 | none | 276.88 | none |
| 4/22/2003 | -- | -- | 258.76 | none | 259.18 | none | 231.79 | none | on system | -- | 254.3 | none | 277.38 | none |
| 7/21/2003 | 262.05 | none | 259.47 | none | 260.26 | none | 231.78 | none | on system | -- | 254.77 | none | 275.94 | none |
| 9/22/2003 | 267.61 | none | 262.33 | none | 263.49 | none | 232.72 | none | on system | -- | 259.01 | none | 279.92 | none |
| 2/3/2004 | 272.83 | none | 266.69 | none | 267.24 | none | 233.39 | none | on system | -- | 262.06 | none | 282.01 | none |
| 4/2/2004 | 268.95 | none | 262.57 | none | 263.77 | none | 232.14 | none | on system | -- | 258.47 | none | 363.63 | none |
| 7/8/2004 | 264.72 | none | 258.69 | none | 260.36 | none | 230.33 | none | on system | -- | 255.12 | none | 274.91 | none |
| 9/30/2004 | 268.87 | none | 262.71 | none | 264.65 | none | 235.25 | none | on system | -- | 261.04 | none | 284.27 | none |
| 1/10/2005 | 269.19 | none | 262.41 | none | 264.33 | none | 232.98 | none | on system | -- | 259.16 | none | 281.1 | none |

| Date | MW9 | | MW10 | | MW11 | | MW12 | | MW13 | | MW15 | | MW16 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness |
| 1/21/2002 | 253.02 | none | 245.37 | none | 259.54 | none | 248.95 | 0.07 | 251.21 | none | 248.01 | none | 259.4 | none |
| 2/21/2002 | 248.04 | none | 252.75 | 0.01 | 259.51 | none | 247.99 | 0.02 | 250.27 | none | 247.12 | none | 258.51 | none |
| 3/19/2002 | 254.51 | none | 252.27 | 0.16 | 259.15 | none | 247.41 | 0.17 | 248.54 | none | 246.47 | none | 257.82 | none |
| 4/26/2002 | 247.8 | none | 251.3 | 0.04 | 262.38 | none | 247.3 | 0.2 | 247.12 | none | 246.34 | none | 260 | none |
| 7/29/2002 | 254.98 | none | 267.18 | none | 267.27 | none | 251.56 | 0.03 | 250.93 | none | 250.09 | none | 262.28 | none |
| 10/17/2002 | 258.41 | none | 265.91 | none | 274.03 | none | 252.33 | 0.04 | 252.36 | none | 248.52 | none | 269.54 | none |
| 1/27/2003 | 264.32 | none | 274.6 | none | 278.74 | none | 259.06 | 0.05 | 260.01 | none | 257.73 | none | 269.97 | none |
| 4/22/2003 | 269.86 | none | 277.91 | none | 284.01 | none | 262.72 | 0.03 | 262.38 | none | 261.32 | none | 274.53 | none |
| 7/21/2003 | 268.58 | none | 277.54 | none | 280 | none | 263.64 | 0.05 | 263.27 | none | 262.36 | none | 270.01 | none |
| 9/22/2003 | 274.12 | none | 283.25 | none | 287.79 | none | 267.74 | 0.05 | 268.11 | none | 266.31 | none | 280.61 | none |
| 2/3/2004 | 278.1 | none | 291.42 | none | 284.58 | none | 272.98 | none | 273.77 | none | 271.57 | none | 279.43 | none |
| 4/2/2004 | 347.12 | none | 280.72 | none | 282.69 | none | 364.15 | none | 268.37 | none | 267.27 | none | -- | -- |
| 7/8/2004 | 267.13 | none | 274.43 | none | 278.25 | none | 264.86 | 0.01 | 263.43 | none | 263.11 | none | 272.56 | none |
| 9/30/2004 | 274.37 | none | 276.72 | none | 291.43 | none | 269.56 | none | 270.96 | none | 268.02 | none | 287.13 | none |
| 1/10/2005 | 273.18 | none | 285.11 | none | 286.52 | none | 269.3 | none | 271.2 | none | 267.95 | none | 273.75 | none |

**NOTES:**

Elevation is presented in feet Above Mean Sea Level NAVD 88.

Product thickness is presented in feet.

-- Indicates well was not measured.

Correction calculation for wells with product = (well elevation - (depth to water - (product thickness * product density))).

Product density has been assumed to be 0.866.

(1) MW-5 has been connected to the LNAPL recovery system and can not be gauged with all the equipment in the well = "on system".

(2) MW-38, MW-46, and MW-51 have collapsed and have not been gauging since discovering the issue.

(3) MW-46 through MW-53 were installed in June, 2003.

(4) MW-51A was installed on December 13, 2004.

(5) MW-54 was installed on February 18, 2004.

**TABLE 2**
**Summary of Historic Groundwater Elevation and Product Gauging Data**
**January 2002 through January 2005**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| Date | MW17 | | MW18 | | MW19 | | MW20 | | MW21 | | MW24 | | MW25 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness |
| 1/21/2002 | 248.78 | none | 249.44 | none | 232.87 | none | 248.88 | none | 250.45 | none | 246.86 | none | 233.03 | 0.04 |
| 2/21/2002 | 247.84 | none | 247.93 | none | 232.37 | none | 247.87 | none | 249.34 | none | 245.93 | none | 232.25 | 0.02 |
| 3/19/2002 | 247.24 | none | 247.32 | none | 232.05 | none | 247.2 | none | 248.7 | none | 245.24 | none | 231.7 | 0.2 |
| 4/26/2002 | 247.12 | none | 247.17 | none | 232.09 | none | 247.02 | none | 248.61 | none | 245.28 | none | 232.95 | 0.1 |
| 7/29/2002 | 251.53 | none | 251.79 | none | 235.53 | none | 251.4 | none | 253.74 | none | 249.62 | none | 237.45 | 0.22 |
| 10/17/2002 | 252.48 | none | 252.46 | none | 237.45 | none | 252.87 | none | 258.25 | 0.001 | 250.12 | none | 265.87 | 0.17 |
| 1/27/2003 | 258.7 | none | 259.32 | none | 243.19 | none | 259.68 | none | 270.79 | none | 256.99 | none | 247.21 | 0.24 |
| 4/22/2003 | 261.85 | none | 262.48 | none | 246.4 | none | 261.38 | none | 273.22 | none | 260.36 | none | 250.36 | 0.1 |
| 7/21/2003 | 262.84 | none | 263.65 | none | 247.99 | none | 262.76 | none | 274.46 | none | 260.98 | none | 246.71 | 0.08 |
| 9/22/2003 | 266.77 | none | 268.65 | none | 253.52 | none | 235.83 | none | 280.56 | none | 265.3 | none | 268.03 | 0.1 |
| 2/3/2004 | 271.9 | none | 273.05 | none | 257.41 | none | 270.39 | none | 283.28 | none | 269.67 | none | 251.8 | 0.01 |
| 4/2/2004 | 268.25 | none | 269.16 | none | 252.48 | none | 267.01 | none | 277.61 | none | 267.27 | none | 248.58 | 0.02 |
| 7/8/2004 | 264.04 | none | 264.85 | none | 247.37 | none | 263.46 | none | 275.85 | none | 262.07 | none | 252.64 | 0.07 |
| 9/30/2004 | 268.67 | none | 269.53 | none | 256.81 | none | 267.88 | none | 286.5 | none | 265.99 | none | -- | -- |
| 1/10/2005 | 268.54 | none | 269.36 | none | 254.46 | none | 267.45 | none | 283.04 | none | 266.21 | none | 252.66 | none |

| Date | MW26 | | MW27 | | MW28A | | MW29 | | MW30 | | MW31 | | MW32 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness |
| 1/21/2002 | 233.62 | none | 251.24 | none | 260.07 | 1.65 | 236.06 | none | 228.05 | none | 254.63 | none | 251.56 | none |
| 2/21/2002 | 232.58 | none | 250.22 | none | 258.94 | 1.58 | 235.37 | none | 227.72 | none | 253.72 | none | 250.65 | none |
| 3/19/2002 | 232.66 | none | 249.49 | none | 258.17 | 1 | 234.97 | none | 227.52 | none | 252.91 | none | 250 | none |
| 4/26/2002 | 233.78 | none | 249.14 | none | 265.72 | none | 235.83 | none | 228.16 | none | 253.38 | none | 249.87 | none |
| 7/29/2002 | 239.25 | none | 253.57 | none | 277.06 | 0.24 | 240.64 | none | 232.52 | none | 258.04 | none | 254.26 | none |
| 10/17/2002 | 245.85 | 0.001 | 254.58 | none | 291.88 | 0.58 | 269.12 | none | 235.19 | none | 259.55 | none | 255 | none |
| 1/27/2003 | 251.76 | 0.001 | 262.09 | none | 289.47 | 0.56 | 253.54 | none | 232.86 | none | 265.4 | none | 261.09 | none |
| 4/22/2003 | 256.8 | none | 264.34 | none | 294.4 | 0.64 | 255.63 | none | 232.4 | none | 269.14 | none | 264.93 | none |
| 7/21/2003 | 247.14 | none | 265.31 | none | 289.72 | 0.68 | 253.67 | none | 236.45 | none | 269.53 | none | 265.98 | none |
| 9/22/2003 | 247.14 | none | 269.45 | none | 299.36 | 0.66 | 271.97 | none | 236.58 | none | 274.34 | none | 269.73 | none |
| 2/3/2004 | 250.15 | none | 274.74 | none | 292.25 | 1.63 | 260.27 | none | 234.96 | none | 278.53 | none | 275.3 | none |
| 4/2/2004 | -- | -- | 270.42 | none | -- | -- | 255.89 | none | 236.13 | none | 274.84 | none | 270.88 | none |
| 7/8/2004 | 242.17 | none | 266.04 | none | -- | -- | 249.75 | none | 232.82 | none | 270.89 | none | 260.17 | none |
| 9/30/2004 | 259.34 | none | 271.18 | none | 302.47 | 0.55 | -- | -- | -- | -- | 276.86 | none | 271.59 | none |
| 1/10/2005 | 249.8 | none | 271.51 | none | 292.72 | 0.12 | 261.13 | none | 238.09 | none | 276.71 | none | 271.67 | none |

**NOTES:**

Elevation is presented in feet Above Mean Sea Level NAVD 88.

Product thickness is presented in feet.

-- Indicates well was not measured.

Correction calculation for wells with product = (well elevation - (depth to water - (product thickness * product density))).

Product density has been assumed to be 0.866.

(1) MW-5 has been connected to the LNAPL recovery system and can not be gauged with all the equipment in the well = "on system".

(2) MW-38, MW-46, and MW-51 have collapsed and have not been gauging since discovering the issue.

(3) MW-46 through MW-53 were installed in June, 2003.

(4) MW-51A was installed on December 13, 2004.

(5) MW-54 was installed on February 18, 2004.

**TABLE 2**
**Summary of Historic Groundwater Elevation and Product Gauging Data**
**January 2002 through January 2005**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| Date | MW33A | | MW34 | | MW35 | | MW36 | | MW37 | | MW38[2] | | MW39 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness |
| 1/21/2002 | 247.47 | none | 245.9 | none | 244.47 | none | 226.44 | none | 230.02 | none | 227.02 | none | 238 | none |
| 2/21/2002 | 246.71 | none | 245.21 | none | 243.8 | none | 226.11 | none | 226.75 | none | 226.78 | none | 237.14 | none |
| 3/19/2002 | 246.06 | none | 244.62 | none | 243.29 | none | 225.85 | none | 226.66 | none | 226.62 | none | 236.23 | none |
| 4/26/2002 | 246.07 | none | 244.68 | none | 243.34 | none | 226.75 | none | 226.82 | none | 226.8 | none | 239.33 | none |
| 7/29/2002 | 250.27 | none | 248.61 | none | 247.33 | none | 228.79 | none | 228.18 | none | 228.58 | none | 249.01 | none |
| 10/17/2002 | 250.65 | none | 249.32 | none | 248.15 | none | 229.7 | none | 229.26 | none | 229.32 | none | 247.2 | none |
| 1/27/2003 | 257.11 | none | 254.91 | none | 253.8 | none | 231.6 | none | 230.41 | none | 230.3 | none | 261.33 | none |
| 4/22/2003 | 260.16 | none | 257.72 | none | 256.79 | none | 234.45 | none | 231.42 | none | 232.8 | none | 265.94 | none |
| 7/21/2003 | 260.96 | none | 258.29 | none | 257.27 | none | 233.99 | none | 231.3 | none | collapsed | -- | 266.21 | none |
| 9/22/2003 | 264.97 | none | 262.13 | none | 261.32 | none | 235.95 | none | 232.33 | none | collapsed | -- | 269 | none |
| 2/3/2004 | 269.17 | none | 265.4 | none | 264.55 | none | 236.22 | none | 232.53 | none | collapsed | -- | 270.76 | none |
| 4/2/2004 | 265.64 | none | 262.09 | none | 260.94 | none | 233.84 | none | 231.97 | none | collapsed | -- | 265.8 | none |
| 7/8/2004 | 262.18 | none | 258.98 | none | 257.73 | none | 232.77 | none | 230.63 | none | collapsed | -- | 264.04 | none |
| 9/30/2004 | 265.51 | none | 263.58 | none | 263.03 | none | 238.81 | none | 226.13 | none | collapsed | -- | 273.51 | none |
| 1/10/2005 | 265.56 | none | 262.46 | none | 261.48 | none | 234.86 | none | 232.38 | none | collapsed | -- | 268.53 | none |

| Date | MW40 | | MW41 | | MW42 | | MW43A | | MW44 | | MW45 | | MW46[3] [4] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness |
| 1/21/2002 | 249.31 | none | 251.53 | none | 250.59 | none | 250.33 | none | 248.59 | none | 252.2 | none | -- | -- |
| 2/21/2002 | 248.4 | none | 250.53 | none | 249.69 | none | 249.38 | none | 247.75 | none | 251.33 | none | -- | -- |
| 3/19/2002 | 247.71 | none | 250.01 | none | 248.85 | none | 248.69 | none | 247.07 | none | 250.48 | none | -- | -- |
| 4/26/2002 | 247.6 | none | 250.25 | none | 248.59 | none | 248.52 | none | 246.88 | none | 250.21 | none | -- | -- |
| 7/29/2002 | 251.94 | none | 255.33 | none | 252.5 | none | 252.83 | none | 251.04 | none | 253.29 | none | -- | -- |
| 10/17/2002 | 252.92 | none | 258.53 | none | 252.17 | none | 253.27 | none | 251.31 | none | 252.55 | none | -- | -- |
| 1/27/2003 | 259.25 | none | 263.78 | none | 259.27 | none | 260.15 | none | 257.94 | none | 258.46 | none | -- | -- |
| 4/22/2003 | 262.79 | none | 267.87 | none | 262.87 | none | 263.58 | none | 261.17 | none | 262.21 | none | -- | -- |
| 7/21/2003 | 263.86 | none | 267.69 | none | 264.26 | none | 264.74 | none | 261.94 | none | 263.36 | none | 264.2 | none |
| 9/22/2003 | 268.21 | none | 273.84 | none | 268.13 | none | 268.84 | none | 265.1 | none | 267.74 | none | 267.85 | none |
| 2/3/2004 | 273.34 | none | 276.16 | none | 273.96 | none | 274.33 | none | 269.72 | none | 272.53 | none | collapsed | -- |
| 4/2/2004 | 269.74 | none | 272.52 | none | 270.67 | none | 269.53 | none | 266.36 | none | 269.87 | none | collapsed | -- |
| 7/8/2004 | 269.35 | none | 268.31 | none | 264.32 | none | 266.58 | none | 263.04 | none | 268.25 | none | collapsed | -- |
| 9/30/2004 | 269.67 | none | 277.16 | none | 268.62 | none | 268.7 | none | 265.31 | none | 270.13 | none | collapsed | -- |
| 1/10/2005 | 269.8 | none | 275.51 | none | 269.82 | none | 270.26 | none | 265.93 | none | 270.4 | none | collapsed | -- |

**NOTES:**

Elevation is presented in feet Above Mean Sea Level NAVD 88.

Product thickness is presented in feet.

-- Indicates well was not measured.

Correction calculation for wells with product = (well elevation - (depth to water - (product thickness * product density))).

Product density has been assumed to be 0.866.

(1) MW-5 has been connected to the LNAPL recovery system and can not be gauged with all the equipment in the well = "on system".

(2) MW-38, MW-46, and MW-51 have collapsed and have not been gauging since discovering the issue.

(3) MW-46 through MW-53 were installed in June, 2003.

(4) MW-51A was installed on December 13, 2004.

(5) MW-54 was installed on February 18, 2004.

**TABLE 2**
**Summary of Historic Groundwater Elevation and Product Gauging Data**
**January 2002 through January 2005**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| Date | MW47[3] | | MW48[3] | | MW49[3] | | MW50[3] | | MW51[3] [4] | | MW51A | | MW52[3] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness |
| 1/21/2002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/21/2002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 3/19/2002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4/26/2002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/29/2002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/17/2002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1/27/2003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4/22/2003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/21/2003 | 264.27 | none | 233.51 | none | 226.47 | none | 255.09 | none | 346.55 | none | -- | -- | 261.26 | none |
| 9/22/2003 | 269.69 | none | 235 | none | 226.89 | none | 260.97 | none | 252.94 | none | -- | -- | 265.37 | none |
| 2/3/2004 | 275.55 | none | 235.62 | none | 226.94 | none | 261.69 | none | 346.55 | none | -- | -- | 269.71 | none |
| 4/2/2004 | 273.02 | none | 233.83 | none | 230.74 | none | 258.09 | none | 346.55 | none | -- | -- | 265.37 | none |
| 7/8/2004 | 266.07 | none | 231.92 | none | 228.26 | none | 255.12 | none | collapsed | -- | -- | -- | 261.79 | none |
| 9/30/2004 | 276.72 | none | 237.63 | none | 227.24 | none | 262.92 | none | collapsed | -- | -- | -- | 267.56 | none |
| 1/10/2005 | 275.15 | none | 235.66 | none | 227 | none | 259.72 | none | collapsed | -- | 262.7 | none | 266.37 | none |

| Date | MW53[3] | | MW54[5] | | RW8 | | RW9 | | RW10 | | RW11 | | RW12 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness |
| 1/21/2002 | -- | -- | -- | -- | 255.26 | 3.8 | 296.45 | 0.54 | 252.56 | none | 267.24 | none | 251.01 | 0.19 |
| 2/21/2002 | -- | -- | -- | -- | 249.33 | 0.39 | 294.68 | 0.41 | 251.53 | none | 267.17 | none | 250.07 | 0.19 |
| 3/19/2002 | -- | -- | -- | -- | 249.94 | 2.85 | 294.86 | 0.18 | 250.56 | none | 266.07 | none | 249.4 | 0.18 |
| 4/26/2002 | -- | -- | -- | -- | 250.28 | 3.92 | 296.92 | none | 250.9 | none | 271.82 | none | 249.87 | 0.21 |
| 7/29/2002 | -- | -- | -- | -- | 271.84 | 0.06 | 295.88 | 0.06 | 257.03 | none | 278.85 | none | 254.18 | 0.2 |
| 10/17/2002 | -- | -- | -- | -- | 258.48 | 0.1 | 306.88 | 0.16 | 257.59 | none | 298.2 | none | 256.33 | 0.2 |
| 1/27/2003 | -- | -- | -- | -- | 261.47 | 1.39 | 301.63 | 0.18 | 271.6 | none | 296.94 | none | 261.18 | 0.2 |
| 4/22/2003 | -- | -- | -- | -- | 267.87 | 0.63 | 306.92 | 0.23 | 278.34 | none | 304.42 | none | 264.71 | 0.18 |
| 7/21/2003 | 236.15 | none | -- | -- | 266.4 | none | 305.06 | 0.19 | 273.86 | none | 302.39 | none | 265.1 | 0.18 |
| 9/22/2003 | 238.73 | none | -- | -- | 276.6 | none | 310.9 | 0.15 | 278.51 | none | 304.63 | none | 269.87 | 0.19 |
| 2/3/2004 | 239.77 | none | -- | -- | 282.32 | 0.08 | 305.72 | 0.13 | 279.03 | none | 300.46 | none | 278.81 | 0.25 |
| 4/2/2004 | 237.49 | none | -- | -- | 361.01 | none | 363.67 | none | 277.66 | none | 299.92 | none | 269.81 | none |
| 7/8/2004 | 234.77 | none | -- | -- | 269.04 | 1.21 | 302.28 | 0.12 | 271.36 | none | 290.42 | none | 266.1 | 0.17 |
| 9/30/2004 | 241.2 | none | -- | -- | -- | -- | 312.54 | 0.2 | 281.29 | none | -- | -- | 272 | 0.46 |
| 1/10/2005 | 238.21 | none | 269.62 | none | -- | -- | 310.72 | 0.11 | 278.74 | none | 309.96 | none | 270.94 | 0.06 |

**NOTES:**

Elevation is presented in feet Above Mean Sea Level NAVD 88.

Product thickness is presented in feet.

-- Indicates well was not measured.

Correction calculation for wells with product = (well elevation - (depth to water - (product thickness * product density))).

Product density has been assumed to be 0.866.

(1) MW-5 has been connected to the LNAPL recovery system and can not be gauged with all the equipment in the well = "on system".

(2) MW-38, MW-46, and MW-51 have collapsed and have not been gauging since discovering the issue.

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(5) MW-54 was installed on February 18, 2004.

**TABLE 2**
**Summary of Historic Groundwater Elevation and Product Gauging Data**
**January 2002 through January 2005**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| Date | RW13 | | RW14 | | RW15 | | RW16 | | TH36 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness |
| 1/21/2002 | 248.91 | none | 248.46 | none | 260.85 | 0.08 | 249.19 | 5.66 | 255.38 | none |
| 2/21/2002 | 247.89 | none | 247.55 | none | 251.6 | 0.05 | 248.3 | 0.73 | 254.51 | none |
| 3/19/2002 | 247.3 | none | 246.36 | none | 250.64 | 0.12 | 247.74 | 0.73 | 253.66 | none |
| 4/26/2002 | 247.85 | none | 246.77 | none | 250.4 | none | 247.55 | none | 256.11 | none |
| 7/29/2002 | 252.61 | none | 251.15 | none | 257.64 | 0.08 | 252.01 | 3.59 | 271.05 | none |
| 10/17/2002 | 256.94 | none | 251.92 | none | 259.39 | none | 252.25 | 0.4 | 300.07 | none |
| 1/27/2003 | 260.13 | none | 258 | none | 273.04 | none | 256.71 | 1.49 | 237.2 | none |
| 4/22/2003 | 263.54 | none | 261.82 | none | 350.58 | 85.76 | 262.85 | 1.32 | 298.4 | none |
| 7/21/2003 | 263.93 | none | 262.9 | none | 275.42 | none | 263.81 | 1.35 | 294.57 | none |
| 9/22/2003 | 269.18 | none | 266.63 | none | 280.32 | none | 266.89 | 3.8 | 301.38 | none |
| 2/3/2004 | 280.23 | none | 272.23 | none | 282.46 | none | 363.35 | none | 296.7 | none |
| 4/2/2004 | 268.43 | none | 267.79 | none | 362.07 | none | 363.35 | none | 298.53 | none |
| 7/8/2004 | 269.28 | none | 263.57 | none | 273.26 | none | 264.84 | 1.5 | -- | -- |
| 9/30/2004 | -- | -- | 268.47 | none | 283.57 | none | 269.7 | 1.5 | 302.13 | none |
| 1/10/2005 | 270.01 | none | 268.58 | none | 280.72 | none | 269.44 | 0.08 | 302.37 | none |

| Date | THBF | | THby4 | | THWLS | | OLD WW | | WW1P | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness |
| 1/21/2002 | 260.35 | none | 260.18 | 0.02 | 259.76 | none | 249.21 | none | 247.63 | none |
| 2/21/2002 | 259.54 | 0.47 | 259.26 | 0.02 | 259.42 | none | 248.3 | none | 246.75 | none |
| 3/19/2002 | 259.26 | 0.46 | 258.69 | 0.11 | 258.76 | none | 250.68 | none | 246.25 | none |
| 4/26/2002 | 258.43 | 0.43 | 258.5 | 0.05 | 258.63 | none | 247.56 | none | 247.9 | none |
| 7/29/2002 | 263.19 | 0.36 | 262.84 | 0.05 | 262.6 | none | 251.85 | none | 251.1 | none |
| 10/17/2002 | 262.19 | 0.53 | 263.62 | 0.001 | 263.63 | none | 252.77 | none | 165.56 | none |
| 1/27/2003 | 269.2 | 0.54 | 269.87 | 0.11 | -- | -- | 252.27 | none | 173.79 | none |
| 4/22/2003 | 274.69 | 0.5 | 274.15 | 0.12 | -- | -- | 262.81 | none | 261.55 | none |
| 7/21/2003 | 272.7 | 0.49 | 274.85 | 0.15 | 360.21 | 98.98 | 263.9 | none | 263.8 | none |
| 9/22/2003 | 280.52 | 0.31 | 279.06 | 0.05 | 278.55 | none | 267.71 | none | 338.35 | none |
| 2/3/2004 | 286.52 | none | 284.75 | 0.1 | -- | -- | 267.71 | none | 266.05 | none |
| 4/2/2004 | 280.64 | 0.44 | 280.86 | 0.1 | 373.47 | none | 354.01 | none | 267.4 | none |
| 7/8/2004 | 276.15 | 0.05 | 275.56 | 0.1 | -- | -- | -- | -- | 263.5 | none |
| 9/30/2004 | 283.45 | 0.39 | 280.41 | none | 280.17 | none | 269.71 | none | -- | -- |
| 1/10/2005 | -- | -- | 281.14 | 0.23 | 280.43 | none | 269.35 | none | 266 | none |

**NOTES:**

Elevation is presented in feet Above Mean Sea Level NAVD 88.

Product thickness is presented in feet.

-- Indicates well was not measured.

Correction calculation for wells with product = (well elevation - (depth to water - (product thickness * product density))).

Product density has been assumed to be 0.866.

(1) MW-5 has been connected to the LNAPL recovery system and can not be gauged with all the equipment in the well = "on system".

(2) MW-38, MW-46, and MW-51 have collapsed and have not been gauging since discovering the issue.

(3) MW-46 through MW-53 were installed in June, 2003.

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(5) MW-54 was installed on February 18, 2004.

**TABLE 2**
**Summary of Historic Groundwater Elevation and Product Gauging Data**
**January 2002 through January 2005**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| DATE | RW1 | | RW2 | | RW3 | | RW4 | | RW5 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness |
| 1/21/2002 | 251.98 | 1.29 | 252.78 | 0.02 | 249.78 | 0.01 | 248.38 | 0.01 | 251.83 | 1.13 |
| 2/21/2002 | 250.53 | 2.08 | 251.46 | none | 248.51 | 0.01 | 248.05 | 0.01 | 250.37 | 1.77 |
| 3/19/2002 | 251.26 | 3 | 250.79 | 3.39 | 247.77 | 0.06 | 247.52 | 0.07 | 250.06 | 1.49 |
| 4/26/2002 | 250.52 | 1.94 | 251.35 | none | 247.66 | 0.13 | 247.29 | 0.04 | 249.93 | 1.53 |
| 7/29/2002 | 258.81 | 0.21 | 264.4 | 0.28 | 256.75 | none | 251.45 | 0.05 | 259.59 | 0.28 |
| 8/21/2002 | 251.26 | 0.06 | 256.63 | 0.03 | 251.58 | none | 248.26 | 0.02 | 252.38 | 0.22 |
| 9/19/2002 | 255.6 | 0.24 | 258.91 | 0.53 | 253.7 | none | 249.14 | 0.02 | 255.53 | 0.12 |
| 10/17/2002 | 262.92 | 0.16 | 268.11 | 0.17 | 257.98 | none | 251.94 | 0.12 | 258.5 | 0.77 |
| 11/22/2002 | 263.57 | 0.2 | 268.09 | 0.41 | 261.95 | none | 253.53 | 0.07 | 260.93 | 0.91 |
| 12/23/2002 | 265.63 | 0.23 | 271.42 | 0.05 | 267.57 | none | 255.48 | 0.22 | 263.9 | 0.85 |
| 1/27/2003 | 267.89 | 0.24 | 270.1 | 0.03 | 272.05 | none | 258.21 | 0.13 | 266.34 | 1.54 |
| 2/27/2003 | 268.1 | none | 271.98 | none | 261.32 | none | 259.87 | none | 290.32 | none |
| 3/31/2003 | 273.87 | none | 274.61 | none | 275.64 | none | 261.73 | none | 273.56 | none |
| 4/22/2003 | 273.51 | 1.35 | 273.9 | 0.46 | 276.19 | none | 262.12 | 0.58 | 272.66 | 1.56 |
| 5/28/2003 | 270.89 | 1.4 | 271.51 | 0.42 | 271.47 | none | 260.29 | 0.73 | 269.31 | 1.56 |
| 6/27/2003 | 279.31 | 1.37 | 279.41 | none | 271.58 | none | 263.72 | 0.66 | 276.75 | 1.5 |
| 7/21/2003 | 271.29 | none | 272.78 | 0.43 | 275.34 | none | 263.1 | 0.24 | 272.35 | 0.22 |
| 8/27/2003 | 283.15 | 10.46 | 280.95 | none | 281.33 | none | 265.65 | 0.3 | 282.14 | 0.19 |
| 9/22/2003 | 277.69 | 1.15 | 282.55 | 0.43 | 279.88 | none | 267.18 | 0.2 | 274.39 | 0.15 |
| 2/2/2004 | 284.42 | 1.2 | 285.33 | 0.41 | 284.31 | none | 273.56 | 0.37 | 285.63 | 0.66 |
| 4/2/2004 | 351.54 | none | 360.46 | none | 278.29 | none | 267.39 | 16.1 | 359.66 | none |
| 7/8/2004 | 272.67 | 1.3 | 271.9 | 0.62 | 275.3 | none | 263.62 | 10 | 272.28 | 0.72 |
| 9/30/2004 | 278.14 | 0.94 | 288.65 | 0.33 | -- | -- | 268.11 | 0.09 | 282.88 | 0.29 |
| 1/10/2005 | 282.33 | 0.23 | 284.22 | 0.59 | 280.2 | none | 267.22 | 3.94 | 283.99 | 0.09 |

| DATE | RW6 | | RW7 | | RW8A | | RW17 | |
|---|---|---|---|---|---|---|---|---|
| | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness | Corrected Elevation | Product Thickness |
| 1/21/2002 | 358.63 | none | 270.66 | none | 251.15 | 4.3 | -- | -- |
| 2/21/2002 | 358.63 | none | 263.88 | 0.09 | 249.67 | 4.34 | 241.21 | 12.58 |
| 3/19/2002 | 250.06 | 1.02 | 262.83 | 0.16 | 249.57 | 3.83 | 240.85 | 10.92 |
| 4/26/2002 | 250.01 | 1.03 | 271.67 | none | 249.88 | none | 241.07 | 0.22 |
| 7/29/2002 | 259.24 | 1.05 | 270.96 | 0.01 | 270.88 | 6.79 | 246.73 | 0.04 |
| 8/21/2002 | 253.47 | 1.07 | 266.88 | 0.06 | 264.1 | 5.8 | 241.47 | 0.41 |
| 9/19/2002 | 252.27 | 2.09 | 270.78 | 0.01 | 258.06 | 2.78 | 243.47 | 0.36 |
| 10/17/2002 | 258.29 | 1.64 | 275.51 | none | 257.48 | 0.55 | 246.65 | 0.36 |
| 11/22/2002 | 261.08 | 1.41 | 276.85 | none | 259.84 | 0.25 | 248.79 | 0.37 |
| 12/23/2002 | 264.24 | 0.75 | 280.26 | none | 262.85 | 0.5 | 251.55 | 0.46 |
| 1/27/2003 | 265.38 | 1.81 | 273.25 | 0.001 | 251.88 | 7.31 | 252.51 | 0.91 |
| 2/27/2003 | 269.62 | none | 276.51 | none | 274.9 | none | 254.32 | none |
| 3/31/2003 | 274.72 | 1.15 | 278.64 | none | 268.3 | 12.59 | 257.52 | none |
| 4/22/2003 | 272.18 | 1.89 | 277.15 | 0.05 | 267.74 | 12.59 | 256.55 | 1.85 |
| 5/28/2003 | 269.04 | 1.45 | 273.98 | 0.02 | 271.5 | 0.37 | 254.23 | 2 |
| 6/27/2003 | 276.83 | 2.08 | 283.19 | 0.01 | 275.68 | 1.07 | 260.78 | 0.34 |
| 7/21/2003 | 271.62 | 2.99 | 273.05 | none | 268.1 | 0.38 | 258.02 | 0.28 |
| 8/27/2003 | 280.82 | 2.85 | 283.39 | none | 277.99 | 0.57 | 262.56 | 0.46 |
| 9/22/2003 | 278.37 | 2.59 | 286.5 | none | 276.24 | 0.74 | 262.48 | 0.03 |
| 2/2/2004 | 284.23 | 2.62 | 285.89 | none | 281.53 | 0.14 | 266.61 | 1.34 |
| 4/2/2004 | 358.63 | none | 360.11 | none | 360.3 | none | 262.09 | 1.4 |
| 7/8/2004 | -- | -- | 274.1 | 0.22 | 268.74 | none | 255.95 | 1.5 |
| 9/30/2004 | 283.1 | 2.6 | -- | -- | -- | -- | 265.2 | 1.1 |
| 1/10/2005 | 278.23 | 2.6 | 288.71 | none | 270.91 | 1.17 | 263.67 | 0.06 |

**NOTES:**

Elevation is presented in feet Above Mean Sea Level NAVD 88.

Product thickness is presented in feet.

-- Indicates well was not measured.

Correction calculation for wells with product = (well elevation - (depth to water - (product thickness * product density))).

Product density has been assumed to be 0.866.

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(2) MW-38, MW-46, and MW-51 have collapsed and have not been gauging since discovering the issue.

(3) MW-46 through MW-53 were installed in June, 2003.

(4) MW-51A was installed on December 13, 2004.

(5) MW-54 was installed on February 18, 2004.

**TABLE 3**
**Summary of Historical Remedial System Groundwater Withdrawal and LNAPL Recovery**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

**GROUNDWATER WITHDRAWAL RECORDS**

| YEAR | Well ID | | | | | | | | | ANNUAL TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|
| | RW-1 | RW-2 | RW-3 | RW-4 | RW-5 | RW-6 | RW-7 | RW-8/8A | RW-17 | |
| 1990+ | 361,400 | 120,600 | 215,100 | 5,711,800 | 1,450,000 | 25,700 | 18,800 | 3,600 | NA | **7,907,000** |
| 1991 | 400,300 | 117,500 | 824,900 | 10,354,200 | 3,172,300 | 693,900 | 54,900 | 578,300 | NA | **16,196,300** |
| 1992 | 44,800 | 173,000 | 449,600 | 2,857,300 | 2,002,400 | 652,400 | 67,900 | 2,634,500 | NA | **8,881,900** |
| 1993 | 57,900 | 457,200 | 837,400 | 7,021,800 | 2,388,800 | 769,000 | 83,200 | 2,222,300 | NA | **13,837,600** |
| 1994 | 537,900 | 687,700 | 862,500 | 10,072,700 | 2,650,900 | 1,053,900 | 29,100 | 1,848,500 | NA | **17,743,200** |
| 1995 | 221,700 | 835,800 | 771,300 | 2,792,500 | 1,829,100 | 648,800 | 0 | 833,900 | 1,051,400 | **8,984,500** |
| 1996 | 734,800 | 1,241,300 | 1,165,000 | 13,156,800 | 2,795,700 | 705,200 | 0 | 1,693,200 | 1,046,000 | **22,538,000** |
| 1997 | 429,100 | 706,100 | 624,800 | 7,419,700 | 2,897,100 | 415,800 | 0 | 619,100 | 742,400 | **13,854,100** |
| 1998 | 226,400 | 958,400 | 502,900 | 8,134,500 | 2,084,300 | 1,093,200 | 0 | 1,025,700 | 665,900 | **14,691,300** |
| 1999 | 102,800 | 449,400 | 763,900 | 2,266,800 | 1,532,900 | 435,700 | 0 | 992,200 | 457,900 | **7,001,600** |
| 2000 | 164,700 | 633,600 | 553,500 | 2,077,600 | 463,500 | 237,800 | 0 | 564,500 | 375,500 | **5,070,700** |
| 2001 | 161,000 | 308,000 | 41,000 | 1,762,000 | 1,362,000 | 56,000 | 0 | 186,000 | 340,000 | **4,216,000** |
| 2002 | 21,000 | 49,000 | 0 | 32,000 | 292,000 | 10,000 | 0 | 150,000 | 60,000 | **614,000** |
| 2003 | 0 | 0 | 0 | 3,420,000 | 697,000 | 570,000 | 0 | 628,000 | 295,000 | **5,610,000** |
| 2004 | 0 | 0 | 0 | 2,093,000 | 0 | 126,000 | 0 | 219,000 | 129,000 | **2,567,000** |
| **WELL TOTALS** | **3,463,800** | **6,737,600** | **7,611,900** | **79,172,700** | **25,618,000** | **7,493,400** | **253,900** | **14,198,800** | **5,163,100** | **TOTAL: 149,713,200** |

**LNAPL RECOVERY RECORDS**

| YEAR | Well ID | | | | | | | | | ANNUAL TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|
| | RW-1 | RW-2 | RW-3 | RW-4 | RW-5 | RW-6 | RW-7 | RW-8/8A | RW-17 | |
| 1987* | 333 | 334 | 333 | NA | NA | NA | NA | NA | NA | **1000** |
| 1988 | 921 | 1,441 | 1,383 | 557 | NA | NA | NA | NA | NA | **4,302** |
| 1989 | 316 | 577 | 470 | 992 | 3,009 | 60 | 0 | 1,517 | NA | **6,941** |
| 1990 | 186 | 1,392 | 142 | 3,274 | 965 | 147 | 1,040 | 1,873 | NA | **9,019** |
| 1991 | 21 | 336 | 51 | 937 | 931 | 387 | 134 | 1,298 | NA | **4,095** |
| 1992 | 3 | 316 | 152 | 104 | 383 | 247 | 21 | 652 | 673 | **2,551** |
| 1993[1] | 72 | 196 | 169 | 91 | 351 | 86 | 9 | 199 | 425 | **1,598** |
| 1994 | 52 | 58 | 32 | 161 | 177 | 14 | 0 | 57 | 237 | **788** |
| 1995 | 7 | 3 | 78 | 3 | 181 | 30 | 0 | 20 | 72 | **394** |
| 1996 | 33 | 0 | 7 | 0 | 59 | 3 | 0 | 10 | 35 | **147** |
| 1997 | 2 | 0 | 37 | 4 | 239 | 4 | 0 | 3 | 7 | **296** |
| 1998 | 13 | 6 | 32 | 1 | 124 | 25 | 0 | 5 | 15 | **221** |
| 1999 | 2 | 23 | 17 | 1 | 32 | 3 | 0 | 158 | 25 | **261** |
| 2000 | 0 | 74 | 4 | 0 | 44 | 0 | 0 | 45 | 30 | **197** |
| 2001 | 0 | 20 | 4 | 0 | 0 | 10 | 0 | 0 | 0 | **34** |
| 2002[1] | 20 | 50 | 0 | 0 | 54 | 2 | 0 | 102 | 31 | **259** |
| 2003 | 0 | 0 | 0 | 25 | 23 | 0 | 0 | 40 | 45 | **133** |
| 2004 | 16 | 0 | 0 | 210 | 3 | 0 | 2 | 16 | 0 | **247** |
| **WELL TOTALS** | **1,997** | **4,826** | **2,911** | **6,360** | **6,575** | **1,018** | **1,206** | **5,995** | **1,595** | **TOTAL: [2] 33,937** |

**NOTES:**

All values are reported in gallons.

\+ Flow Totalizers installed May 1990. Groundwater was pumped since 1987, but no data on volumes pumped is available at this time.

* Product was recovered from RW-1, RW-2, and RW-3 in 1987. The total recovery in 1987 is 1000 gallons. Specific volumes from each well are not known at this time.

[1] Oil-Water separation tanks were installed in Nov-Dec 1990. These were cleaned June 1993 and 2002. Oil recovered during the cleaning has been added to the total.

[2] Over the course of the program, the following additional product recoveries were noted and have been included in the calculation of the total product recovery value:

| | |
|---|---|
| Oil Separation Tanks | 1258 gallons |
| RW-16 | 125 gallons |
| RW-9 | 5 gallons |
| THby4 | 8 gallons |
| THBF | 2.5 gallons |
| MW-5 | 53.5 gallons |
| MW-28A | 2 gallons |

**TABLE 4**
**Summary of LNAPL Fingerprint Analytical Results**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| Well ID | Date | Composition |
|---|---|---|
| MW05 | 4/2/1998 | Contains petroleum hydrocarbons in the distillation ranges of #2 fuel oil and mineral oil. |
| | 10/12/2002 | Approximatley >60% of a fuel oil, #4 diesel or lube oil range distillate product blended with approx <40% of a #2 diesel. Hydrocarbons ranged from C10 up to C41, with the apex at about C26. Small concentrations of organic acid and alcohol peaks were detected. |
| RW01 | 4/12/2004 | Degraded diesel fuel oil around 15 years old. |
| RW03 | 4/2/1998 | Contains petroleum hydrocarbons in the distillation range of #2 fuel oil. |
| RW04 | 4/2/1998 | Contains petroleum hydrocarbons in the distillation range of #2 fuel oil. |
| RW05 | 4/12/2004 | Degraded diesel fuel oil around 15 years old. |
| RW08A | 4/12/2004 | Degraded diesel fuel oil around 15 years old. |
| RW09 | 4/2/1998 | Contains petroleum hydrocarbons in the distillation ranges of kerosene and mineral oil. |
| RW12 | 4/2/1998 | Contains petroleum hydrocarbons in the distillation ranges of kerosene and #2 fuel oil. |
| RW16 | 4/2/1998 | Contains petroleum hydrocarbons in the distillation range of #2 fuel oil. |
| RW17 | 4/2/1998 | Contains hydrocarbons in the distillation range of #2 fuel oil. |
| | 4/15/2002 | 95% #2 diesel range, 5% #4 fuel range product. |
| MW28A | 4/15/2002 | 15% # 2diesel range, 85% #4 fuel range product. |

**Notes:**
American Environmental Network, Inc. processed the samples collected on 4/12/98.
Texas Oil Tech Laboratories, Inc. processed the samples collected on 4/15/02, 10/12/02, and 4/12/04.

**TABLE 5**
**Summary of Historical Releases with Potential to Impact Groundwater**
Former Ingersoll Rand Facility
Phillipsburg, New Jersey

| Release Map ID (Figure 4) | Concern | Date of Original Incident | Location | Document Referenced During File Review | Comments |
|---|---|---|---|---|---|
| **1** | ~ 20,000 gallons of #2 fuel oil | 1940's | East side of building #4 | Letter summarizing the spill history of fuel oil #2 by the IR Manager of Facilities in 1975. | Pipe line broke feeding the day tank from #79. |
| **2** | 200,000 to 250,000 gallons #2 fuel oil | 1943-1944 | East end of building #13 | Letter summarizing the spill history of fuel oil #2 by the IR Manager of Facilities in 1975. | Building #13 pumps drew oil from tank #79. Over the holiday weekend the discharge pipe broke and the day tanks within building #13 continued to signal for oil. IR employee Floyd Seagreaves recalls tank #79 was practically pumped dry. One of the railroad entrances to Shop #19 had oil 4 ft deep. The fuel was allowed to percolate into the ground. |
| **3** | 50,000 to 60,000 gallons of #2 fuel oil | 1960's | Leak in pipeline at the east end of building #8A | Letter summarizing the spill history of fuel oil #2 by the IR Manager of Facilities in 1975. | Oil was piped from power house and reservoir tank. |
| **4** | Unknown | Prior to September 11, 1967 | Inverse Ponds | Internal Memo to Plant Engineer | Tested on September 11, 1967 by IR personnel and the water was clear and neutral. One fish kill noted on one day and another day the water was noted as having an amber color. On both days high alkalinity was recorded. |
| **5** | Unknown amount of fuel oil #2 | Prior to 1970 | East of building #12 UST | Letter summarizing the spill history of fuel oil #2 by the IR Manager of Facilities in 1975. | The leaky tank was excavated. The excavation was sloppy with oil/sand mud and the tank discharged. Unknown when this began and for how long. |
| **6** | Unknown amount of waste oil | Prior to July 31, 1970 | Inverse Ponds | Warren Health Department to IR Plant Engineer | Discharge of waste oil to the inverse ponds. |
| **7** | Unknown amounts of mineral oil, cutting oils, lubrication oils, greases, etc. | Prior to May 4, 1971 | All of Drill Division | Internal memo to Rock Drill Division | The memo informs foremen that all dumping of mineral oil, cutting oils, lubrication oils, greases, etc. must be stopped regardless of quantity onto the ground or into the sewer system. Use of 55-gallon drums required instead. |
| **8** | Unknown amounts of cutting oil and caustic wash (est. thousands of gallons) | Prior to August 19, 1975 | Inverse Ponds | Internal IR memo | IR called in R&R Sanitation Co and Taylor Pumping Service, and floating styrofoam pads and pump removal were to be used. Total water/oil mixture pumped out of the 8 ponds over 4 days was 38,000 gallons. Two sources of spill were identified. One source was a 10,000 gallon UST used to receive spent cutting oil and caustic wash overflowed as a result of a new operator, leaving the valve open on the tank. Second was a 3,000 gallon UST for cutting oils. Excess rainfall caused the tank to overflow into the storm sewer and ponds. The spill consisted of Oakite Low Heat #1, AR Stripper, Rust Prevent 100, Trim Sol, Shell Dromus Oil A, and Sunicot MPM 442. |
| **9** | ~1 55 gallon drum of bright red oil | September 1 & 2, 1975 | Building #16 | Letter to Phillipsburg Plant from Cameron Manufacturing Engineer | |
| **10** | 100+ gallons of synthetic lubricating oil | February 25, 1976 | Inverse Ponds | Internal IR memo | IR inverse lower ponds trapped most of the oil, some was mixed with absorbent and carried through the overflows into the effluent to Lopatcong Creek. This memo reports on the DEP inspection from the 8/19/75 spill, and 2/25/76 spill occurred 1 1/2 hours after the inspector left. |
| **11** | Unknown amount of oil | Prior to April 28, 1976 | Inverse Ponds | Internal IR memo | Drill Division was cited by manager of facilities for the excessive amount of oil in the effluent, violating the discharge permit. |

**Notes:**
Release Map ID corresponds to the approximate location of the release documented Figure 4.

**TABLE 5**
**Summary of Historical Releases with Potential to Impact Groundwater**
Former Ingersoll Rand Facility
Phillipsburg, New Jersey

| Release Map ID (Figure 4) | Concern | Date of Original Incident | Location | Document Referenced During File Review | Comments |
|---|---|---|---|---|---|
| **12** | Zinc | Prior to May 27, 1977 | Spray pond | Letter to NJDEP on June 21, 1977 | IR found the chemical NALCOOL 8376 (used to control scale, corrosion, and deposits in the cooling water distribution) contained zinc. The chemical kept zinc levels in the spray pond at 1.5 mg/L therefore removing NALCOOL 8376 from use reduced the violation of zinc to 0.5 mg/L. There was an inspection by the DEP on March 2, 1977. A letter from the DEP to IR on March 2, 1977 informed IR of the zinc violation in the effluent to the Lopatcong Creek. The cooling water recycling system was under construction, and the effluent was being tested daily to assure zinc levels remained below 0.5 mg/L. |
| **13** | Unknown amount of waste oil | Prior to February 10, 1979 | East end of #17 into the storm sewer and then to the spray pond | Internal letter to and from the facilities manager. | Clean up with sorbent material, oil skimmer, and a pump by IR personnel to prevent the oil from making it to the Lopatcong Creek. |
| **14** | Sludge | Prior to August 7, 1980 | Concrete Weir (pit) | Internal memo from manager of engineering to powerhouse | IR requested cleaning the sludge out of the pit and narrow pit beside the weir and dispose of it in the High Point Dumpster. Leave a covered container near the weir for periodic cleaning. A NJDEP inspector noted the sludge in the pit beside the concrete weir during the site visit and added it to the report. |
| **15** | Unknown amount of diesel fuel | Prior to January 18, 1982 | Between building #9 and #11 | IR internal memo to the Manager of Engineering. | IR would investigate the leak when the ground thawed. |
| **16** | #1 oil of unknown amount | Prior to 1983 | East of building #11 | Phillipsburg Facility Liquid Storage Tank Information. | The tank was removed from service by IR. |
| **17** | Unknown amount of waste oil and cutting oils from 2 USTs | Prior to January 1985 | 2 tank excavations of old tanks on east of building #17 | Memo from Tellus to IR Facilities Engineer. | IR hired Advanced Environmental Technologies to remove the tanks. Due to bad weather no soil was excavated. Then O'Brien & Gere were hired to excavate the contaminated soil ( 650 cubic yards of soil was removed). |
| **18** | Unknown amount of gasoline | Prior to May 1985 | North of building #21 | Underground Storage Tank Investigation O'Brien & Gere. | The two tanks were removed from service by IR in May 1985, the excavation of the tank, contaminated soil and soil borings was conducted in 1986. |
| **19** | 10 to 15 gallons of # 6 fuel oil | May 31, 1985 | Pipe line from oil tank #6 to the Powerhouse in diked area | Memo to file documenting the spill and inspection of clean up. | Spill was cleaned with sorbent material and stored in 55-gallon drums by IR personnel. |
| **20** | Unknown amount of waste oil from Tank D (#33) | Prior to March 12, 1986 | Off the SW corner of building # 253 | Tank excavation and removal report from O'Brien & Gere to Facilities Engineering Manager at IR. | O'Brien & Gere excavated the oil tank and the visibly contaminated soil from around the tank. No visible leaks in the tank were noted. Post excavation samples showed the contaminated soil had been removed. Nearby catch basin was excavated to remove contaminated soils. Two post excavation samples were collected, which reported concentrations of petroleum hydrocarbons of 4,780 ppm & 3,560 ppm. |
| **21** | Unknown amount pickling and parkerizing operations solution | Prior to September 1986 | Building #91 ID'ed as "cesspool" on sanitary sewer plans | Letter from Tellus to IR Manager of Facilities. | There was an inspection of the sanitary and storm sewer for building #91. At the time of the inspection it was discovered there was a cistern (or septic tank unclear) installed at bedrock collecting everything from the building, including solvents from the dilution tanks. |

**Notes:**
Release Map ID corresponds to the approximate location of the release documented Figure 4.

**TABLE 5**
**Summary of Historical Releases with Potential to Impact Groundwater**
Former Ingersoll Rand Facility
Phillipsburg, New Jersey

| Release Map ID (Figure 4) | Concern | Date of Original Incident | Location | Document Referenced During File Review | Comments |
|---|---|---|---|---|---|
| **22** | 1-2 gallons of diesel fuel | Prior to April 30, 1987 | IRTO parking area | Short report from Tellus to NJDEP on behalf of IR. | The 10,000 gallon diesel tank was removed from the parking area in IRTO. During the excavation 1-2 gallons of fuel was observed in the soil around the fill pipe and removed. The post-excavation soil samples came back below standards. |
| **23** | Sulfuric Acid | Prior to September 30,1987 | Spray pond pH control point (pump house) | Notes hand written by Bill Bremen & Verar Risk Assessment | The tank was removed from service when the leak was found. |
| **24** | Unknown amount of PCBs form used and unused equipment. | Prior to September 30,1987 | Across Foundry | Notes hand written by Bill Bremen & Verar Risk Assessment | All identified PCB-contaminated material was removed from the site prior to 9/30/87. |
| **25** | Unknown amount of #2 fuel oil | Prior to October 12, 1987 | Between building #9 and #11 | Underground Tank Removal report by Tellus. | The tank was sitting on a concrete slab that was also removed due to the odor. 247 cubic yards of soil were removed and only 12 cubic yards of soil were contaminated. |
| **26** | 100 to 150 gallons of Lindo Cure | May 6, 1988 | West end of building #57 | Internal letter concerning the spill and the insurance inspector for Matlock the company responsible for the spill | Spill was cleaned with sorbent material and stored in 55-gallon drums by IR personnel. The spill occurred during delivery of the Lindo Cure and sprayed the driver. Lindo Cure was used in conjunction with sand to form the molds for the machinery parts. |
| **27** | Unknown amount of waste oil | Prior to September 1991 | Inverse Pond on the east side of the plant | Memo from Tellus to IR Facilities Engineer. | Tellus drained the upper inverse pond and inspected the liner condition. The report mentions numerous cracks in the gunite liner and bedrock coming up through the pond bottom on the west side. |
| **28** | 5 gallons #2 fuel oil | August 24, 1994 | 25 feet NW of Transformer Yard and 100 feet East of RW-4 | Spill and discharge reporting form Case #94-8-24-1125-41 | Surface was cleaned with sorbent, contaminated soil was removed, and line was repaired by IR personnel. Post excavation samples collected by Tellus. |
| **29** | 5 gallons #2 fuel oil | Prior to September 28, 1994 | 80 feet NE of RW-1 | Spill and discharge reporting form Case #94-9-28-0911-04 | Surface was cleaned with sorbent, contaminated soil was removed, and line was repaired by IR personnel. Post excavation samples collected by Tellus. |
| **30** | Unknown amount of fuel oil #6 | Prior to August 25, 1994 | The fuel line connecting the facilities storage tank to the boilers | Memo from Tellus to Waste Management of PA and numerous lab packets from Laboratory Resources. | IR found the #6 oil line leaking, and an adjacent steam line contained asbestos. Both were cleaned up by IR. |
| **31** | <1.0 gallon of transformer oil | July 20, 1995 | Leak in pipe line 30 feet south of building #66 | Spill and discharge reporting form Case #95-7-20-1441-19 | Surface was cleaned with sorbent, contaminated soil was removed, and line was repaired by IR personnel. Post excavation samples collected by Tellus. |
| **32** | ~ 5 gallons of cutting oil | October 30, 1996 | While loading a piece of machinery the trough spilled onto the ground surface | Spill and discharge reporting form Case #96-10-30-1500-30 | Surface was cleaned with sorbent, 2 cubic yards of contaminated soil were removed, and post excavation samples collected by Tellus. |
| **33** | ~ 1 gallon of diesel fuel | November 25, 1996 | North of building #5 and east of building #20 | Spill and discharge reporting form Case #96-11-25-111-43 | Surface was cleaned with sorbent, contaminated soil was removed, and post excavation samples collected by Tellus. Tank of refrigerator truck was overfilled with diesel fuel. |

**Notes:**
Release Map ID corresponds to the approximate location of the release documented Figure 4.

**TABLE 5**
**Summary of Historical Releases with Potential to Impact Groundwater**
Former Ingersoll Rand Facility
Phillipsburg, New Jersey

| Release Map ID (Figure 4) | Concern | Date of Original Incident | Location | Document Referenced During File Review | Comments |
|---|---|---|---|---|---|
| **34** | ~32 gallons #2 fuel oil | March 25, 1997 | Leak in pipeline at RW-8A | Internal correspondence concerning RW8A discharge report. | Surface was cleaned with sorbent, contaminated soil was removed, and line was repaired by IR personnel. Post excavation samples collected by Tellus. |
| **35** | ~2 gallons of oil mixture | June 13, 1997 | Just south of pump house, building #28 | Internal correspondence concerning spray pond discharge report. | Surface was cleaned with sorbent, 1 cubic yard of contaminated soil was removed, and post excavation sample by Tellus. Source of oil mixture is unknown. |
| **36** | 5 gallons of ethylene glycol | October 16, 1997 | Northeastern side of building #20 | Spill and discharge reporting form Case #97-10-16-1203-53 | Surface was cleaned with sorbent, and leaky valve was repaired. During retrofit of a valve in a mechanical room, the valve broke causing ethylene glycol to be released from the valve. The discharge that wasn't retained by the absorbent material went into the storm sewer drains. |
| **37** | Unknown amount of oil | Prior to February 21, 1976 | Sand fill area of the Site | Hand Written notes in the Landfill files | |
| **38** | Unknown amount of Quench Oil | Prior to 1996 | East side of former building #14 | 1996 ENSR UST Closure and Site Investigation Report | One of the two 10,000 gallon tanks were removed in 1996 and was found to have large and small holes around the tank. Soil results report saturated soil to bedrock in the area of the old tank. |
| **39** | Unknown amount of #2 fuel oil and core oil | Prior to March 1987 | South of Building #101 and East of Building #4 | Contaminated Soil Excavation submitted by Tellus, June 1987 | In 1987 IR excavated two USTs to 15 feet bgs and collected post-excavation samples for TPHC. Tellus was brought in to complete the excavation of the contaminated soil. The final excavation varied in depth from 16 feet to 25 feet, reaching bedrock in some places. All post-excavation sample results were less than state regulations. |

**Notes:**
Release Map ID corresponds to the approximate location of the release documented Figure 4.

**TABLE 6**
**Summary of Proposed Semi-Annual Groundwater Sampling for 2005**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| WELL ID | DTW | DTB | Analysis | Sample Method* | PDB Deployment Depths | Sampling Depth for LF and Conventional |
|---|---|---|---|---|---|---|
| MW01 | 94.53 | 122 | VO+10, PP Metals | Conventional | -- | Just below water |
| MW02A | 95.64 | 132.76 | VO+10 | PDB | 120, 134 | -- |
| MW03 | 79.32 | 128.62 | VO+10, PP Metals, MNA | PDB, Low Flow | 115 | 115 |
| MW04 | 88.97 | 125 | VO+10, PP Metals, MNA | PDB, Low Flow | 96, 108, 120 | 108 |
| MW06 | 110.03 | 195 | VO+10, MNA | PDB | 110, 145, 187 | 145 |
| MW11 | 76.6 | 198.45 | VO+10 | PDB | 100', 150', 190' | -- |
| MW12 | 90 | 157 | VO+10, PP Metals, MNA | PDB, Low Flow | 110, 126, 174.5 | 127 |
| MW13 | 96.15 | 191.1 | VO+10 | PDB | 157, 189 | -- |
| MW15 | 94.77 | 128 | VO+10 | Conventional | -- | Just below water |
| MW16 | 104 | 200 | VO+10, PP Metals, MNA | PDB, Low Flow | 130, 155, 190 | 155 |
| MW18 | 82.78 | 92 | VO+10, MNA | PDB | 90 | 90 |
| MW19 | 93.29 | 150 | VO+10 | PDB | 135, 147 | -- |
| MW20 | 70.12 | 136.9 | VO+10, MNA | PDB | 134 | 134 |
| MW24 | 100.7 | 149 | VO+10 | PDB | 145 | -- |
| MW26 | 65.05 | 149.7 | VO+10, PP Metals | PDB, Low Flow | 145, 133 | 145 |
| MW27 | 86.5 | 140 | VO+10, PP Metals | PDB, Low Flow | 137 | 137 |
| MW30 | 57.85 | 78 | VO+10, PP Metals, MNA | PDB, Low Flow | 75 | 75 |
| MW32 | 118.11 | 130 | VO+10 | PDB | 118, 129 | -- |
| MW33A | 105.97 | 125 | VO+10, MNA | PDB | 107, 120 | 107 |
| MW34 | 103.11 | 123 | VO+10, PP Metals, MNA | PDB, Low Flow | 108, 113, 120 | 113 |
| MW35 | 108.81 | 137 | VO+10, PP Metals, MNA | PDB, Low Flow | 122, 128 | 122 |
| MW36 | 98.4 | 146 | PP Metals | Low Flow | -- | 125 |
| MW37 | 58 | 100 | VO+10, MNA | PDB | 60, 86, 98 | 86 |
| MW38 | -- | -- | MNA | Low Flow | -- | -- |
| MW39 | 73.28 | 35 | PP Metals | Low Flow | -- | 133 |
| MW42 | 75.75 | 123 | MNA | Low Flow | -- | 118 |
| MW47 | 95.6 | 151 | VO+10, MNA | PDB | 136.5 | 136.5 |
| MW48 | 97.31 | 143.8 | VO+10 | PDB | 132 | -- |
| MW49 | 2.48 | 56 | VO+10, PP Metals, MNA | PDB, Low Flow | 54 | 54 |
| MW50 | 91.1 | 164.3 | VO+10, PP Metals | PDB, Low Flow | 160 | 160 |
| MW51A | 90 | 137 | VO+10, PP Metals, MNA | PDB, Low Flow | 135 | 135 |
| MW52 | 98.5 | 173 | VO+10, PP Metals | PDB, Low Flow | 109, 170 | 109 |
| MW53 | 122.23 | 143 | VO+10, PP Metals, MNA | PDB, Low Flow | 127, 140 | 127 |
| MW54 | 91.5 | 123.43 | VO+10, PP Metals | PDB, Low Flow | 120 | 120 |
| RW09 | 66.36 | 196 | VO+10, PP Metals, MNA | PDB, Low Flow | 90, 118, 147, 160, 188 | 119 |
| RW10 | 91.78 | 173 | VO+10 | PDB | 170 | -- |
| RW11 | 90 | 175 | VO+10, PP Metals | PDB, Low Flow | 115, 170 | 120 |
| RW13 | 90.2 | 167 | VO+10, PP Metals | Conventional | -- | Just below water |
| RW14 | 115 | 170 | VO+10 | PDB | 165 | -- |
| RW15 | 11.58 | 170 | VO+10 | PDB | 113, 135, 156 | -- |
| RW16 | 116.07 | 147 | VO+10, MNA | PDB | 121, 141.5 | 121 |
| TH36 | 105 | 117 | VO+10, PP Metals | PDB, Low Flow | 110 | 110 |
| THWLS | 114 | 127 | VO+10 | PDB | 110 | -- |

**Notes:**

DTW = Depth to Water; DTB = Depth to Bottom; PDB = Passive Diffusion Bag; LF = Low flow.

MW-01 will be sampled conventionally due to the size of the water column, around 25 feet.

MW-15 will be sampled conventionally due to the poor condition of the well. Once the well is upgraded PDBs will be used to sample MW-15.

RW-13 will be sampled conventionally due to historic results. Previous PDB samples have been reported non-detect, only the conventional results reported a detection of PCE.

PDB = Passive Diffusion Bag Sampling.

*Sample Method includes PDB sampling; PDB, Low Flow indicates the PDBs will be collected for VOC analysis and Low Flow sampling will be conducted for metals analysis; Conventional indicates that standard purging and sampling methods will be used.

MW-38 will be redrilled to 150 feet below top of casing and if ready will be added to the October 2005 sampling event.

MNA - Monitoring Natural Attenuation Parameters: carbonate/bicarbonate alkalinity, nitrate, ammonia, sulfate, sulfide, iron speciation (Fe+2, Fe+3), chloride, ethane, ethane, methane, hydrogen gas, dissolved oxygen, oxygen-reduction potential, and microbiological activity (plate count).

PP Metals will not be collected during the October 2005 sampling event.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **MW04A** | | | | | | **MW04B** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 347429 | 383772 | 423938 | 463778 | 517912 | 569962 | 347430 | 383773 | 423939 | 463779 | 517913 | 569963 |
| **Depth** | | | 107 | 96 | 96 | 96 | 96 | 96 | 120 | 108 | 108 | 108 | 108 | 108 |
| **Sample Date** | | | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 |
| **Sample Time** | | | 11:00 | 8:40 | 9:00 | 9:50 | 9:30 | 8:45 | 11:05 | 8:45 | 9:05 | 9:55 | 9:35 | 8:50 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 1.2 | 1 | 1.4 | 0.8 | 1.7 | 0.5 | 1.2 | 1 | 1.5 | 0.8 | 1.8 | (0.3) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | 3.3 | 3 | (0.2) U | 1.9 | 1 | 1.2 | 3.1 | 3.2 | 1.2 | 2 | 1.1 | 1.3 |
| 1,1-Dichloroethylene | 75-35-4 | 2 | 0.8 | 0.9 | (0.4) U | 0.9 | (0.4) U | 0.6 | 0.9 | 0.8 | (0.4) U | 0.9 | (0.4) U | 0.6 |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.40) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.40) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.40) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.40) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.50) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.50) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | **89** | **100** | 0.6 | **70** | 0.9 | 69 | **87** | **110** | 1.3 | **82** | 1.1 | **76** |
| Methylene Chloride | 75-09-2 | 3 | (0.90) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.90) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | 0.7 | 0.6 | (0.2) U | 0.9 | (0.2) U | 0.4 | 0.5 | 0.5 | (0.2) U | 1.2 | (0.2) U | 0.5 |
| Tetrachloroethene | 127-18-4 | 1 | **8.1** | **7.6** | (0.3) U | **15** | (0.3) U | **7.7** | **7.9** | **7.9** | 0.5 | **18** | (0.3) U | **8.1** |
| Trichloroethylene | 79-01-6 | 1 | **32** | **31** | (0.2) U | **21** | 0.5 | **19** | **31** | **32** | 0.5 | **24** | 0.6 | **20** |
| Vinyl Chloride | 75-01-4 | 5 | **26** | **43** | (0.5) U | **28** | (0.5) U | **33** | **26** | **47** | (0.5) U | **34** | (0.5) U | **37** |
| Total VOCs | -- | -- | 161.1 | 187.1 | 2 | 138.5 | 4.1 | 131.4 | 157.6 | 202.4 | 5 | 162.9 | 4.6 | 143.5 |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | 4.2 | ND | ND | ND | ND | ND | 4.6 | ND |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **MW04C** | | | | | **MW06A** | | | | **MW06B** | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 383774 | 423940 | 463780 | 517914 | 569964 | 347434 | 383784 | 517926 | 569975 | 347435 | 383785 | 517927 | 569976 |
| **Depth** | | | 120 | 120 | 120 | 120 | 120 | 110 | 110 | 110 | 110 | 140 | 145 | 145 | 145 |
| **Sample Date** | | | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 04/29/02 | 10/15/02 | 04/06/04 | 10/04/04 | 04/29/02 | 10/15/02 | 04/06/04 | 10/04/04 |
| **Sample Time** | | | 8:50 | 9:10 | 10:00 | 9:40 | 8:55 | 11:45 | 9:35 | 11:35 | 11:10 | 11:50 | 9:40 | 11:40 | 11:15 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 1 | 1.6 | 0.8 | 1.2 | 0.5 | **57** | **55** | **41** | **43** | **55** | **60** | **42** | **43** |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | 3.4 | 1.7 | 2.1 | 1.8 | 1.2 | 19 | 21 | 13 | 11 | 18 | 23 | 14 | 12 |
| 1,1-Dichloroethylene | 75-35-4 | 2 | 0.8 | (0.4) U | 0.9 | (0.4) U | 0.6 | **10** | **4.2** | **4.3** | **4.3** | **9.3** | **4.8** | **4.3** | **4.4** |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.40) U | (0.4) U | (0.3) U | (0.4) U | (0.40) U | (0.4) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.40) U | (0.4) U | (0.2) U | (0.4) U | (0.40) U | (0.4) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.2) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.50) U | (0.5) U | (0.5) U | (0.4) U | (0.50) U | (0.5) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | **120** | 12 | **84** | 19 | **78** | (0.3) U | (0.3) U | (0.2) U | (0.4) U | (0.3) U | (0.3) U | (0.2) U | (0.4) U |
| Methylene Chloride | 75-09-2 | 3 | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.90) U | (0.9) U | (0.8) U | (0.9) U | (0.90) U | (0.9) U | (0.8) U | (0.9) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | 0.6 | (0.2) U | 1.1 | (0.2) U | 0.5 | (0.20) U | (0.2) U | (0.2) U | (0.3) U | (0.20) U | (0.2) U | (0.2) U | (0.3) U |
| Tetrachloroethene | 127-18-4 | 1 | **7.5** | **4** | **16** | **4.2** | **7.8** | 0.5 | **1** | **1** | 0.8 | 0.5 | 0.6 | 0.7 | 0.7 |
| Trichloroethylene | 79-01-6 | 1 | **33** | **4.9** | **23** | **6.1** | **21** | **4.9** | **4.4** | **6** | **5.6** | **4.6** | **4.8** | **5.9** | **5.6** |
| Vinyl Chloride | 75-01-4 | 5 | **49** | (0.5) U | **34** | 3.6 | **39** | (0.3) U | (0.3) U | (0.5) U | (0.4) U | (0.3) U | (0.3) U | (0.5) U | (0.4) U |
| Total VOCs | -- | -- | 215.3 | 24.2 | 161.9 | 35.9 | 148.6 | 91.4 | 85.6 | 65.3 | 64.7 | 87.4 | 93.2 | 66.9 | 65.7 |
| Total TICs | -- | 100/500 | ND | ND | ND | 4.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **MW06C** | | | | **MW15A** | **MW15B** | **MW16A** | | | | | **MW16P** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 347436 | 383786 | 517928 | 569977 | 383791 | 383792 | 383808 | 423953 | 463792 | 517923 | 569956 | 463795 |
| **Depth** | | | 185 | 187 | 187 | 187 | 120 | 135 | 130 | 130 | 130 | 130 | 130 | 130 |
| **Sample Date** | | | 04/29/02 | 10/15/02 | 04/06/04 | 10/04/04 | 10/15/02 | 10/15/02 | 10/16/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 09/23/03 |
| **Sample Time** | | | 11:55 | 9:45 | 11:45 | 11:20 | 11:30 | 11:35 | 8:25 | 11:05 | 12:00 | 11:05 | 10:30 | 12:15 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 25 | **43** | 26 | 16 | 3.2 | 2.9 | 7.8 | 6.9 | 7.6 | 6.9 | 5.3 | 7.3 |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | 6.3 | 16 | 7.8 | 4.1 | 5 | 5.3 | 6.1 | 6.6 | 6.1 | 6.5 | 4.5 | 5.9 |
| 1,1-Dichloroethylene | 75-35-4 | 2 | **5.3** | **4.5** | **3** | 1.7 | 1 | 1.1 | **3.6** | **4** | **4.2** | **4** | **3.8** | **4.2** |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.40) U | (0.4) U | (0.3) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.3) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.40) U | (0.4) U | (0.2) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.2) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.3) U | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U |
| Chloroethane | 75-00-3 | 100 | (0.50) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | (0.3) U | (0.3) U | (0.2) U | (0.4) U | 5.8 | 5.7 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.2) U |
| Methylene Chloride | 75-09-2 | 3 | (0.90) U | (0.9) U | (0.8) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.8) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.20) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U |
| Tetrachloroethene | 127-18-4 | 1 | 0.3 | 0.6 | 0.6 | (0.4) U | 0.3 | (0.2) U | **2.4** | **1** | **1.3** | 0.6 | 0.9 | **1.4** |
| Trichloroethylene | 79-01-6 | 1 | **2.6** | **3.8** | **4** | **2.1** | **1.2** | **1.2** | 0.7 | (0.2) U | 0.6 | 0.3 | 0.4 | 0.6 |
| Vinyl Chloride | 75-01-4 | 5 | (0.3) U | (0.3) U | (0.5) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U |
| Total VOCs | -- | -- | 39.5 | 67.9 | 41.4 | 23.9 | 16.5 | 16.2 | 20.6 | 18.5 | 19.8 | 18.3 | 14.9 | 19.4 |
| Total TICs | -- | 100/500 | ND | ND | ND | 7.7 | ND | ND | ND | ND | ND | 3.7 | ND | ND |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **MW16B** | | | | | **MW16C** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 383809 | 423954 | 463793 | 517924 | 569957 | 383810 | 423955 | 463794 | 517925 | 569958 |
| **Depth** | | | 155 | 155 | 155 | 155 | 155 | 190 | 190 | 190 | 190 | 190 |
| **Sample Date** | | | 10/16/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 10/16/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 |
| **Sample Time** | | | 8:30 | 11:10 | 12:05 | 11:10 | 10:35 | 8:35 | 11:15 | 12:10 | 11:15 | 10:40 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 5.8 | 2.8 | 7.6 | 6.5 | 5.6 | 4 | 4.8 | 4.8 | 6.2 | 4.4 |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | 2.5 | 3.1 | 5.4 | 6 | 4 | (0.3) U | 1.4 | 3.7 | 3.1 | 3.3 |
| 1,1-Dichloroethylene | 75-35-4 | 2 | **2.5** | **2.2** | **3.8** | **4** | **3.4** | 1.7 | 1.5 | **2.7** | 1.7 | **2.4** |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | (0.3) U | (0.2) U | 0.3 | (0.2) U | (0.4) U | (0.3) U | (0.2) U | (0.2) U | 0.9 | 0.4 |
| Methylene Chloride | 75-09-2 | 3 | (0.9) U | 2.7 | (0.8) U | (0.8) U | (0.9) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Tetrachloroethene | 127-18-4 | 1 | 0.7 | (0.3) U | **1.9** | 0.5 | **1.5** | 0.5 | 0.5 | 0.7 | **3.1** | **1.2** |
| Trichloroethylene | 79-01-6 | 1 | 0.4 | (0.2) U | 0.7 | 0.4 | 0.7 | (0.1) U | (0.2) U | 0.4 | **1.6** | 0.7 |
| Vinyl Chloride | 75-01-4 | 5 | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| Total VOCs | -- | -- | 11.9 | 10.8 | 19.7 | 17.4 | 15.2 | 6.2 | 8.2 | 12.3 | 16.6 | 12.4 |
| Total TICs | -- | 100/500 | ND | 5.7 | ND | 3.2 | ND | ND | ND | ND | ND | ND |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **MW32A** | | | | | | **MW32B** | | | | | | **MW32P** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 347447 | 383787 | 423958 | 463790 | 517931 | 569978 | 347448 | 383788 | 423959 | 463791 | 517932 | 569979 | 423978 |
| **Depth** | | | 118 | 118 | 118 | 118 | 118 | 118 | 127 | 129 | 129 | 129 | 129 | 129 | 129 |
| **Sample Date** | | | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 04/23/03 |
| **Sample Time** | | | 14:45 | 11:00 | 11:45 | 11:35 | 12:25 | 11:30 | 14:50 | 11:05 | 11:50 | 11:40 | 12:30 | 11:40 | 11:55 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 7.4 | 7.6 | 3.1 | 4.5 | 4.1 | 4.7 | 8.5 | 8 | 3.5 | 4.7 | 4.1 | 4.9 | 3.2 |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | 13 | 12 | 5.4 | 7.3 | 6.2 | 8.8 | 14 | 13 | 5.5 | 7.6 | 6.6 | 8.8 | 5.3 |
| 1,1-Dichloroethylene | 75-35-4 | 2 | **3** | **2.5** | 1.1 | 1.9 | 1.6 | 1.8 | **3.1** | **2.9** | 1.2 | **2** | 1.6 | **2** | 1.1 |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.40) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.40) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.3) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.40) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.40) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.2) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U |
| Chloroethane | 75-00-3 | 100 | (0.50) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.50) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | 4 | 3.7 | 2 | 3.8 | 2.7 | 2.5 | 4.4 | 4.5 | 2.4 | 3.7 | 2.6 | 2.6 | 2 |
| Methylene Chloride | 75-09-2 | 3 | (0.90) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.90) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.8) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.20) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.20) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U |
| Tetrachloroethene | 127-18-4 | 1 | 0.6 | 0.6 | 0.5 | 0.5 | 0.6 | 0.5 | 0.6 | 0.7 | 0.3 | 0.7 | 0.6 | 0.5 | 0.5 |
| Trichloroethylene | 79-01-6 | 1 | **2.4** | **2.1** | **1** | **1.7** | **1.8** | **1.7** | **2.5** | **2** | **1.2** | **1.7** | **1.8** | **1.8** | 0.9 |
| Vinyl Chloride | 75-01-4 | 5 | (0.3) U | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.3) U | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U |
| Total VOCs | -- | -- | 30.4 | 28.5 | 13.1 | 19.7 | 17 | 20 | 33.1 | 31.1 | 14.1 | 20.4 | 17.3 | 20.6 | 13 |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **MW33AA** | | | | | | **MW33AB** | | | | | **MW33AP** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 347441 | 383780 | 423949 | 463786 | 517920 | 569952 | 383781 | 423950 | 463787 | 517921 | 569953 | 347442 | 517922 | 569954 |
| **Depth** | | | 120 | 107 | 107 | 107 | 107 | 107 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 107 |
| **Sample Date** | | | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 04/29/02 | 04/06/04 | 10/04/04 |
| **Sample Time** | | | 13:40 | 9:50 | 10:30 | 11:05 | 10:35 | 10:10 | 9:55 | 10:35 | 11:10 | 10:40 | 10:10 | 13:45 | 10:45 | 10:20 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 3.5 | 7.5 | 4.9 | 5.4 | 1.4 | 3.5 | 5.9 | 3 | 3.3 | 1.2 | 2 | 3.4 | 1.4 | 3.4 |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | 1.1 | 2 | (0.2) U | 1.2 | (0.2) U | 0.6 | 1.7 | (0.2) U | 0.9 | (0.2) U | 0.5 | 1.1 | (0.2) U | 0.5 |
| 1,1-Dichloroethylene | 75-35-4 | 2 | 1.9 | **5.1** | **2.9** | **3.1** | 1 | **2.1** | **3.7** | 1.5 | 1.7 | 0.7 | 0.9 | 1.5 | 1.1 | 1.9 |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.40) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.40) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.40) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.40) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U | (0.2) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.50) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.50) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | (0.3) U | (0.3) U | (0.2) U | 0.5 | (0.2) U | (0.4) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.3) U | (0.2) U | (0.4) U |
| Methylene Chloride | 75-09-2 | 3 | (0.90) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.90) U | (0.8) U | (0.9) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.20) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.20) U | (0.2) U | (0.3) U |
| Tetrachloroethene | 127-18-4 | 1 | **1.3** | **4.1** | **3.7** | **2.9** | 0.5 | **1.7** | **3.8** | **2.1** | **2.6** | 0.9 | **1.7** | **1.4** | 0.5 | **1.8** |
| Trichloroethylene | 79-01-6 | 1 | **3.2** | **9.4** | **8** | **6.5** | **2.2** | **4.7** | **7.3** | **4** | **3.6** | **1.4** | **2.8** | **3.1** | **2.3** | **4.6** |
| Vinyl Chloride | 75-01-4 | 5 | (0.3) U | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.3) U | (0.5) U | (0.4) U |
| Total VOCs | -- | -- | 11 | 28.1 | 19.5 | 19.6 | 5.1 | 12.6 | 22.4 | 10.6 | 12.1 | 4.2 | 7.9 | 10.5 | 5.3 | 12.2 |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **MW34A** | | | | | | **MW34B** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 347437 | 383777 | 423946 | 463783 | 517917 | 569972 | 347438 | 383778 | 423947 | 463784 | 517918 | 569973 |
| **Depth** | | | 108 | 108 | 108 | 108 | 108 | 108 | 113 | 113 | 113 | 113 | 113 | 118 |
| **Sample Date** | | | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 |
| **Sample Time** | | | 12:05 | 9:30 | 10:10 | 10:45 | 10:15 | 9:45 | 12:10 | 9:35 | 10:15 | 10:50 | 10:20 | 9:48 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 1.7 | 3.8 | 2.6 | 3.1 | 3 | 1.7 | 4.6 | 4.4 | 4.6 | 3.1 | 3 | 1.7 |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | 0.9 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| 1,1-Dichloroethylene | 75-35-4 | 2 | (0.3) U | 0.9 | (0.4) U | 0.9 | 0.8 | (0.3) U | 1.9 | 1.1 | 0.6 | 0.9 | 0.7 | (0.3) U |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.40) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.40) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.40) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.40) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.50) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.50) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | 1.2 | 2.3 | 0.5 | 0.4 | 0.9 | (0.4) U | 7.6 | 2.4 | 5.3 | 0.8 | 1.9 | (0.4) U |
| Methylene Chloride | 75-09-2 | 3 | (0.90) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.90) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.20) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.20) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Tetrachloroethene | 127-18-4 | 1 | 0.6 | **3.1** | 0.5 | **1** | **1.2** | 0.4 | **2.5** | **4.1** | **4.2** | **1.4** | **1.2** | 0.5 |
| Trichloroethylene | 79-01-6 | 1 | **2.3** | **4.2** | **1.8** | **2.4** | **3.2** | **1.3** | **7.7** | **4.4** | **7.6** | **2.8** | **3.2** | **1.4** |
| Vinyl Chloride | 75-01-4 | 5 | (0.3) U | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.3) U | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| Total VOCs | -- | -- | 5.8 | 14.3 | 5.4 | 7.8 | 9.1 | 3.4 | 25.2 | 16.4 | 22.3 | 9 | 10 | 3.6 |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 3.4 | ND |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **MW34C** | | | | | **MW35A** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 383779 | 423948 | 463785 | 517919 | 569974 | 347439 | 383775 | 423944 | 463781 | 517915 | 569968 |
| **Depth** | | | 120 | 120 | 120 | 120 | 120 | 122 | 122 | 122 | 122 | 122 | 122 |
| **Sample Date** | | | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 |
| **Sample Time** | | | 9:40 | 10:20 | 10:55 | 10:25 | 9:50 | 12:25 | 9:10 | 9:55 | 10:25 | 9:55 | 9:40 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 5 | 3.2 | 4.1 | 3.1 | 1.7 | **82** | **140** | **150** | **140** | **100** | **93** |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.7) U | (0.7) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | 26 | 41 | **60** | **50** | 34 | 21 |
| 1,1-Dichloroethylene | 75-35-4 | 2 | 1 | (0.4) U | 0.8 | 0.9 | 0.4 | **16** | **10** | **7.4** | **8.2** | **6.2** | **6.6** |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.40) U | (0.4) U | (0.5) U | (0.5) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.40) U | (0.4) U | (0.5) U | (0.5) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.4) U | (0.2) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.50) U | (0.5) U | (0.9) U | (0.9) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | 5.1 | 2.2 | 2.9 | 2.2 | 0.8 | 1.2 | 1.1 | (0.5) U | 1.2 | 1.2 | 0.4 |
| Methylene Chloride | 75-09-2 | 3 | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.90) U | (0.9) U | (1.6) U | (1.6) U | (0.8) U | (0.9) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.20) U | (0.2) U | (0.5) U | (0.5) U | (0.2) U | (0.3) U |
| Tetrachloroethene | 127-18-4 | 1 | **5.7** | **1.6** | **3.2** | **1.6** | **1.2** | **1.4** | **4.8** | **3.4** | **4.3** | **2.2** | **2.2** |
| Trichloroethylene | 79-01-6 | 1 | **6.5** | **3.4** | **4.9** | **3.8** | **2.4** | **11** | **14** | **14** | **14** | **9** | **8.4** |
| Vinyl Chloride | 75-01-4 | 5 | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.3) U | (0.3) U | (1.1) U | (1.1) U | (0.5) U | (0.4) U |
| Total VOCs | -- | -- | 23.3 | 10.4 | 15.9 | 11.6 | 6.5 | 137.6 | 210.9 | 234.8 | 217.7 | 152.6 | 131.6 |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 4 | ND |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **MW35B** | | | | | | **MW37A** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 347440 | 383776 | 423945 | 463782 | 517916 | 569969 | 383769 | 423941 | 463775 | 517908 | 569965 |
| **Depth** | | | 128 | 128 | 128 | 128 | 128 | 128 | 60 | 60 | 60 | 60 | 60 |
| **Sample Date** | | | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 |
| **Sample Time** | | | 12:30 | 9:15 | 10:00 | 10:30 | 10:00 | 9:35 | 8:10 | 9:15 | 9:05 | 9:00 | 9:30 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | **82** | **81** | **88** | **150** | **71** | **53** | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | 25 | 22 | 26 | 49 | 21 | 10 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| 1,1-Dichloroethylene | 75-35-4 | 2 | **16** | **7.5** | **5.7** | **9.5** | **4.3** | **4.4** | (0.3) U | (0.4) U | (0.4) U | (0.4) U | (0.3) U |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.40) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.40) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | 1.2 | 1.3 | **2** | 1.8 | 0.8 |
| Chloroethane | 75-00-3 | 100 | (0.50) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | 1.3 | 1.2 | 0.7 | 1.2 | 1.3 | (0.4) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| Methylene Chloride | 75-09-2 | 3 | (0.90) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.20) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Tetrachloroethene | 127-18-4 | 1 | **2.6** | **3.1** | **2.6** | **6.2** | **2.5** | **1.3** | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U |
| Trichloroethylene | 79-01-6 | 1 | **12** | **9.9** | **9.2** | **12** | **7.1** | **5.9** | **17** | **13** | **19** | **17** | **11** |
| Vinyl Chloride | 75-01-4 | 5 | (0.3) U | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| Total VOCs | -- | -- | 138.9 | 124.7 | 132.2 | 227.9 | 107.2 | 74.6 | 18.2 | 14.3 | 21 | 18.8 | 11.8 |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 4.2 | ND |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **MW37B** | | | | | **MW37C** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 383770 | 423942 | 463776 | 517909 | 569966 | 383771 | 423943 | 463777 | 517910 | 569967 |
| **Depth** | | | 86 | 86 | 86 | 86 | 86 | 98 | 98 | 98 | 98 | 98 |
| **Sample Date** | | | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 |
| **Sample Time** | | | 8:15 | 9:20 | 9:10 | 9:05 | 9:32 | 8:20 | 9:25 | 9:15 | 9:10 | 9:35 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| 1,1-Dichloroethylene | 75-35-4 | 2 | (0.3) U | (0.4) U | (0.4) U | (0.4) U | (0.3) U | (0.3) U | (0.4) U | (0.4) U | (0.4) U | (0.3) U |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | **6.2** | **4.6** | **4.4** | 1.8 | 0.7 | **6.5** | **5.1** | **3.7** | 1.8 | **2.5** |
| Chloroethane | 75-00-3 | 100 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| Methylene Chloride | 75-09-2 | 3 | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Tetrachloroethene | 127-18-4 | 1 | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U |
| Trichloroethylene | 79-01-6 | 1 | **62** | **48** | **40** | **18** | **11** | **64** | **53** | **34** | **19** | **25** |
| Vinyl Chloride | 75-01-4 | 5 | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| Total VOCs | -- | -- | 68.2 | 52.6 | 44.4 | 19.8 | 11.7 | 70.5 | 58.1 | 37.7 | 20.8 | 27.5 |
| Total TICs | -- | 100/500 | ND | ND | ND | 5.4 | ND | ND | ND | ND | 4.9 | ND |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **RW09A** | | | | | | **RW09B** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 347413 | 383798 | 423960 | 463805 | 517948 | 569992 | 347414 | 383799 | 423961 | 463806 | 517949 | 569993 |
| **Depth** | | | 118 | 90 | 90 | 90 | 90 | 90 | 147 | 118 | 118 | 118 | 118 | 118 |
| **Sample Date** | | | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 |
| **Sample Time** | | | 12:00 | 14:25 | 12:10 | 14:35 | 15:15 | 15:15 | 12:05 | 14:30 | 12:15 | 14:40 | 15:20 | 15:20 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | (0.50) U | (1.3) U | (0.3) U | (0.2) U | (0.2) U | (0.3) U | (0.50) U | (1.3) U | (0.8) U | (0.2) U | (0.2) U | (0.3) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.60) U | (1.4) U | (0.7) U | (0.3) U | (0.3) U | (0.3) U | (0.60) U | (1.4) U | (1.7) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | (0.50) U | (1.4) U | (0.5) U | (0.2) U | (0.2) U | (0.4) U | (0.50) U | (1.4) U | (1.2) U | (0.2) U | (0.2) U | (0.4) U |
| 1,1-Dichloroethylene | 75-35-4 | 2 | 0.7 | (1.4) U | (0.9) U | 0.7 | 0.5 | 0.4 | (0.60) U | (1.4) U | **(2.2) U** | 1 | 0.8 | 0.5 |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.70) U | (1.8) U | (0.5) U | (0.3) U | (0.3) U | (0.4) U | (0.70) U | (1.8) U | (1.3) U | (0.3) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.70) U | **(1.8) U** | (0.5) U | (0.2) U | (0.2) U | (0.4) U | (0.70) U | **(1.8) U** | **(1.2) U** | (0.2) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.60) U | (1.5) U | (0.4) U | (0.2) U | (0.2) U | (0.3) U | (0.60) U | (1.5) U | (1) U | (0.2) U | (0.2) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (1.0) U | (2.4) U | (0.9) U | (0.5) U | (0.5) U | (0.4) U | (1.0) U | (2.4) U | (2.3) U | (0.5) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | **310** | **290** | **250** | **96** | **110** | **120** | **260** | **420** | **320** | **160** | **190** | **140** |
| Methylene Chloride | 75-09-2 | 3 | (1.8) U | **(4.4) U** | (1.6) U | (0.8) U | (0.8) U | (0.9) U | (1.8) U | **(4.4) U** | **(4) U** | (0.8) U | (0.8) U | (0.9) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | 0.6 | (1.2) U | (0.5) U | 0.7 | 0.5 | (0.3) U | 0.8 | (1.2) U | (1.2) U | 0.8 | 0.8 | 0.4 |
| Tetrachloroethene | 127-18-4 | 1 | **3.4** | **(1.2) U** | **2** | **1** | 0.5 | 0.4 | **2.6** | **(1.2) U** | **1.9** | **1.7** | **1** | 0.5 |
| Trichloroethylene | 79-01-6 | 1 | **11** | (0.6) U | **4** | **1.3** | **1.3** | **1** | **7.6** | (0.6) U | **4.4** | **2.7** | **2.6** | **1.4** |
| Vinyl Chloride | 75-01-4 | 5 | **77** | **84** | **56** | **52** | **50** | **63** | **71** | **94** | **70** | **65** | **66** | **69** |
| Total VOCs | -- | -- | 402.7 | 374 | 312 | 151.7 | 162.8 | 184.8 | 342 | 514 | 396.3 | 231.2 | 261.2 | 211.8 |
| Total TICs | -- | 100/500 | ND | ND | ND | 3.2 | ND | 19.8 | ND | ND | ND | ND | ND | 11 |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **RW09C** | | | | | | **RW09D** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 347415 | 383800 | 423962 | 463807 | 517950 | 569994 | 347416 | 383801 | 423963 | 463808 | 517951 | 569995 |
| **Depth** | | | 160 | 147 | 147 | 147 | 147 | 147 | 188 | 160 | 160 | 160 | 160 | 160 |
| **Sample Date** | | | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 |
| **Sample Time** | | | 12:10 | 14:35 | 12:20 | 14:45 | 15:25 | 15:22 | 12:15 | 14:40 | 12:25 | 14:50 | 15:30 | 15:25 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | (0.3) U | (1.3) U | (0.8) U | (0.2) U | (0.2) U | (0.3) U | (1.3) U | (1.3) U | (0.3) U | (0.8) U | (0.2) U | (0.3) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (1.4) U | (1.7) U | (0.3) U | (0.3) U | (0.3) U | (1.4) U | (1.4) U | (0.7) U | (1.7) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | (0.3) U | (1.4) U | (1.2) U | (0.2) U | (0.2) U | (0.4) U | (1.4) U | (1.4) U | (0.5) U | (1.2) U | (0.2) U | (0.4) U |
| 1,1-Dichloroethylene | 75-35-4 | 2 | 0.4 | (1.4) U | **(2.2) U** | 0.8 | 0.6 | 0.4 | (1.4) U | (1.4) U | (0.9) U | **(2.2) U** | 0.6 | (0.3) U |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.40) U | (1.8) U | (1.3) U | (0.3) U | (0.3) U | (0.4) U | (1.8) U | (1.8) U | (0.5) U | (1.3) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.40) U | **(1.8) U** | **(1.2) U** | (0.2) U | (0.2) U | (0.4) U | **(1.8) U** | **(1.8) U** | (0.5) U | **(1.2) U** | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (1.5) U | (1) U | (0.2) U | (0.2) U | (0.3) U | (1.5) U | (1.5) U | (0.4) U | (1) U | (0.2) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.50) U | (2.4) U | (2.3) U | (0.5) U | (0.5) U | (0.4) U | (2.4) U | (2.4) U | (0.9) U | (2.3) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | **140** | **390** | **300** | **140** | **150** | **130** | 27 | **140** | 59 | 44 | **140** | 30 |
| Methylene Chloride | 75-09-2 | 3 | (0.90) U | **(4.4) U** | **(4) U** | (0.8) U | (0.8) U | (0.9) U | **(4.4) U** | **(4.4) U** | (1.6) U | **(4) U** | (0.8) U | (0.9) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | 0.8 | (1.2) U | (1.2) U | 0.9 | 0.6 | 0.4 | (1.2) U | (1.2) U | (0.5) U | (1.2) U | 0.8 | (0.3) U |
| Tetrachloroethene | 127-18-4 | 1 | 0.3 | **(1.2) U** | **1.6** | **1.3** | 0.6 | (0.4) U | **(1.2) U** | **(1.2) U** | **1.3** | **(1.6) U** | (0.3) U | (0.4) U |
| Trichloroethylene | 79-01-6 | 1 | **2.1** | (0.6) U | **6.2** | **3** | **1.5** | **1.2** | (0.60) U | (0.6) U | 0.7 | (0.9) U | 0.5 | (0.4) U |
| Vinyl Chloride | 75-01-4 | 5 | **180** | **110** | **78** | **72** | **85** | **72** | **330** | **350** | **300** | **280** | **120** | **150** |
| Total VOCs | -- | -- | 323.6 | 500 | 385.8 | 218 | 238.3 | 204 | 357 | 490 | 361 | 324 | 261.9 | 180 |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | ND | 11.7 | ND | ND | ND | ND | ND | ND |

**NOTES:**

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PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

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**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **RW09E** | | | | | **RW11A** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 383802 | 423964 | 463809 | 517952 | 569996 | 383803 | 423972 | 463796 | 517935 | 569982 |
| **Depth** | | | 193 | 188 | 188 | 188 | 188 | 115 | 115 | 115 | 115 | 115 |
| **Sample Date** | | | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 10/16/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 |
| **Sample Time** | | | 14:45 | 12:30 | 14:55 | 15:35 | 15:28 | 7:35 | 15:45 | 12:25 | 14:00 | 13:25 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | (0.5) U | (0.3) U | (0.8) U | (0.2) U | (0.3) U | 0.7 | (0.2) U | 0.4 | 0.3 | (0.3) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.6) U | (0.7) U | (1.7) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | (0.5) U | (0.5) U | (1.2) U | (0.2) U | (0.4) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| 1,1-Dichloroethylene | 75-35-4 | 2 | (0.6) U | **3.1** | **(2.2) U** | 0.5 | (0.3) U | (0.3) U | (0.4) U | (0.4) U | (0.4) U | (0.3) U |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.7) U | (0.5) U | (1.3) U | (0.3) U | (0.4) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.7) U | (0.5) U | **(1.2) U** | (0.2) U | (0.4) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.6) U | (0.4) U | (1) U | (0.2) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (1) U | (0.9) U | (2.3) U | (0.5) U | (0.4) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | **75** | **320** | (1.2) U | **130** | 0.7 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| Methylene Chloride | 75-09-2 | 3 | (1.8) U | (1.6) U | **(4) U** | (0.8) U | (0.9) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.5) U | 1 | (1.2) U | 0.6 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Tetrachloroethene | 127-18-4 | 1 | **1.4** | **1.9** | **(1.6) U** | (0.3) U | (0.4) U | **1.9** | **1.2** | **1.3** | **1.1** | **1** |
| Trichloroethylene | 79-01-6 | 1 | **1.7** | **2.6** | (0.9) U | 0.6 | (0.4) U | (0.1) U | (0.2) U | 0.3 | 0.3 | (0.4) U |
| Vinyl Chloride | 75-01-4 | 5 | **200** | **350** | **380** | **110** | **160** | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| Total VOCs | -- | -- | 278.1 | 678.6 | 380 | 241.7 | 160.7 | 2.6 | 1.2 | 2 | 1.7 | 1 |
| Total TICs | -- | 100/500 | 12.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

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Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

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**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **RW11B** | | | | | **RW13A** | | **RW13B** | | **RW14A** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 383803 | 423972 | 463796 | 517935 | 569982 | 383806 | 423951 | 383807 | 423952 | 383789 | 423956 | 463788 | 517929 | 569970 |
| **Depth** | | | 170 | 170 | 170 | 170 | 170 | 115 | 115 | 165 | 165 | 118 | 118 | 118 | 118 | 118 |
| **Sample Date** | | | 10/16/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 10/16/02 | 04/23/03 | 10/16/02 | 04/23/03 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 |
| **Sample Time** | | | 7:40 | 15:50 | 12:30 | 14:05 | 11:35 | 8:10 | 10:50 | 8:15 | 10:55 | 11:10 | 11:30 | 11:25 | 12:15 | 11:25 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | (0.3) U | 0.3 | 0.3 | (0.2) U | (0.3) U | 0.4 | 0.5 | 0.4 | 0.4 | 7 | 2 | 1.5 | 1.2 | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.3) U | (0.2) U | (0.3) U | (0.2) U | 12 | 6.7 | 5.7 | 4.2 | 3.5 |
| 1,1-Dichloroethylene | 75-35-4 | 2 | 0.7 | (0.4) U | 0.8 | 0.7 | 0.6 | (0.3) U | (0.4) U | (0.3) U | (0.4) U | **3** | 0.9 | 1.3 | 0.8 | 0.8 |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.4) U | (0.3) U | (0.4) U | (0.3) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.4) U | (0.2) U | (0.4) U | (0.2) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U | (0.2) U | (0.3) U | (0.2) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.3) U | (0.2) U | (0.3) U | (0.2) U | 3.8 | 2.2 | 2.2 | 1.4 | 1 |
| Methylene Chloride | 75-09-2 | 3 | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.9) U | (0.8) U | (0.9) U | (0.8) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Tetrachloroethene | 127-18-4 | 1 | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.2) U | (0.3) U | (0.2) U | (0.3) U | 0.4 | (0.3) U | (0.3) U | (0.3) U | (0.4) U |
| Trichloroethylene | 79-01-6 | 1 | (0.1) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.1) U | (0.2) U | (0.1) U | (0.2) U | **2.1** | 0.8 | 0.8 | 0.7 | 0.7 |
| Vinyl Chloride | 75-01-4 | 5 | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.3) U | (0.5) U | (0.3) U | (0.5) U | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| Total VOCs | -- | -- | 0.7 | 0.3 | 1.1 | 0.7 | 0.6 | 0.4 | 0.5 | 0.4 | 0.4 | 28.3 | 12.6 | 11.5 | 8.3 | 7 |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **RW14B** | | | | | **RW15A** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 383790 | 423957 | 463789 | 517930 | 569971 | 347427 | 383795 | 423967 | 463798 | 517941 | RW15A |
| **Depth** | | | 155 | 165 | 165 | 165 | 165 | 113 | 113 | 113 | 113 | 113 | 113 |
| **Sample Date** | | | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 |
| **Sample Time** | | | 11:15 | 11:35 | 11:30 | 12:20 | 11:35 | 10:30 | 13:55 | 14:10 | 13:35 | 14:35 | 13:40 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 6.7 | 2.8 | 4 | 3.5 | 4.2 | 1 | 2.6 | 1.8 | 1.5 | 1.2 | 0.8 |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | 12 | 4.9 | 7 | 6.9 | 8.5 | 3.6 | 3.5 | 0.9 | 0.7 | 0.6 | (0.4) U |
| 1,1-Dichloroethylene | 75-35-4 | 2 | **2.6** | 0.9 | 1.9 | 1.7 | 1.8 | (0.3) U | (0.3) U | (0.4) U | 0.6 | (0.4) U | (0.3) U |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.40) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.40) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.50) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | 4.2 | 2.1 | 3.6 | 2.4 | 2.4 | 7.2 | 58 | 12 | 7.6 | 4 | 3.5 |
| Methylene Chloride | 75-09-2 | 3 | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.90) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.20) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Tetrachloroethene | 127-18-4 | 1 | 0.3 | (0.3) U | 0.4 | (0.3) U | (0.4) U | 0.7 | **2.5** | **7.9** | **9.6** | **7.1** | **4.5** |
| Trichloroethylene | 79-01-6 | 1 | **2** | 0.8 | **1.5** | **1.5** | **1.7** | **3.1** | **12** | **5.7** | **4.1** | **2.9** | **1.7** |
| Vinyl Chloride | 75-01-4 | 5 | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | **7.3** | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| Total VOCs | -- | -- | 27.8 | 11.5 | 18.4 | 16 | 18.6 | 22.9 | 78.6 | 28.3 | 24.1 | 15.8 | 10.5 |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **RW15B** | | | | | | **RW15C** | | | | | | **RW15D** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 347408 | 383796 | 423968 | 463799 | 517942 | 569985 | 347409 | 383797 | 423969 | 463800 | 517943 | 569986 | 347410 |
| **Depth** | | | 128 | 135 | 135 | 135 | 135 | 135 | 142 | 156 | 156 | 155 | 155 | 156 | 156 |
| **Sample Date** | | | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 04/29/02 |
| **Sample Time** | | | 10:35 | 14:00 | 14:15 | 13:40 | 14:40 | 13:45 | 10:40 | 14:05 | 14:20 | 13:45 | 14:45 | 13:50 | 10:45 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 1 | 1.3 | 1.8 | 1.6 | 1 | 0.9 | 1 | 1.4 | 1.8 | 1.8 | 1.1 | 0.8 | 0.9 |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | 3.8 | 3.6 | (0.2) U | 0.8 | (0.2) U | 0.4 | 3.9 | 3.5 | 1 | 0.8 | 0.7 | 0.5 | 3.6 |
| 1,1-Dichloroethylene | 75-35-4 | 2 | (0.3) U | (0.3) U | (0.4) U | 0.5 | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | 0.6 | (0.4) U | (0.3) U | (0.3) U |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.40) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.40) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.40) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.40) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.40) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.40) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.50) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.50) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.50) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | 8 | 12 | 13 | 8.9 | 4.1 | 4.8 | 8.2 | 15 | 12 | 9 | 4.3 | 5 | 7.7 |
| Methylene Chloride | 75-09-2 | 3 | (0.90) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.90) U | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.90) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.20) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.20) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.20) U |
| Tetrachloroethene | 127-18-4 | 1 | 0.9 | **2.7** | **6.5** | **7.4** | **3.3** | **2.8** | 0.7 | **2.3** | **5.3** | **4.9** | **3.5** | **2.5** | 0.8 |
| Trichloroethylene | 79-01-6 | 1 | **3.4** | **5.6** | **5.4** | **4.5** | **2.7** | **2.4** | **3.3** | **5.8** | **4.9** | **4.2** | **2.8** | **2.4** | **3.2** |
| Vinyl Chloride | 75-01-4 | 5 | **7.5** | 4.7 | (0.5) U | (0.5) U | (0.5) U | (0.4) U | **6.8** | 2.8 | (0.5) U | (0.5) U | (0.5) U | (0.4) U | **7.6** |
| Total VOCs | -- | -- | 24.6 | 29.9 | 26.7 | 23.7 | 11.1 | 11.3 | 23.9 | 30.8 | 25 | 21.3 | 12.4 | 11.2 | 23.8 |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **RW16A** | | | | | | **RW16B** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 347411 | 383793 | 423970 | 463803 | 517944 | 569987 | 347412 | 383794 | 423971 | 463804 | 517945 | 569988 |
| **Depth** | | | 121 | 121 | 121 | 121 | 121 | 121 | 141.5 | 141.5 | 141.5 | 141.5 | 141.5 | 141.5 |
| **Sample Date** | | | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 04/29/02 | 10/15/02 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 |
| **Sample Time** | | | 11:35 | 13:15 | 14:35 | 14:15 | 14:55 | 13:55 | 11:40 | 13:20 | 14:40 | 14:20 | 15:05 | 14:00 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | **96** | **310** | **66** | **110** | **290** | **68** | **88** | **400** | **51** | **110** | **170** | **78** |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (2.8) U | **8.1** | **(6.8) U** | **(3.4) U** | **5.2** | (2.8) U | (2.8) U | **7.8** | **(8.5) U** | **(6.8) U** | **(3.4) U** | (2.8) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | **460** | **600** | **310** | **310** | **360** | **220** | **440** | **620** | **140** | **190** | **560** | **250** |
| 1,1-Dichloroethylene | 75-35-4 | 2 | **14** | **33** | **70** | **16** | **26** | **9.8** | **12** | **40** | **55** | **(8.6) U** | **18** | **7.2** |
| 1,2-Dichloroethane | 107-06-2 | 2 | **18** | **25** | **48** | **24** | (0.5) U | **15** | **18** | **25** | **44** | **26** | **10** | **14** |
| 1,2-Dichloropropane | 78-87-5 | 1 | **(3.5) U** | **(3.5) U** | **(4.6) U** | **(2.3) U** | (0.5) U | **(3.7) U** | **(3.5) U** | **(3.5) U** | **(5.8) U** | **(4.6) U** | **(2.3) U** | **(3.7) U** |
| Carbon tetrachloride | 56-23-5 | 2 | **(3.0) U** | **(3) U** | **(3.8) U** | (1.9) U | (0.4) U | **(3) U** | **(3.0) U** | **(3) U** | **(4.8) U** | **(3.8) U** | (1.9) U | **(3) U** |
| Chloroethane | 75-00-3 | 100 | **1300** | **970** | **2600** | **1200** | **390** | **1100** | **1200** | **950** | **2600** | **2800** | **280** | **1000** |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | (3.1) U | 16 | 36 | 5.7 | 18 | (3.5) U | (3.1) U | 16 | 27 | (4.8) U | 8.4 | (3.5) U |
| Methylene Chloride | 75-09-2 | 3 | **(8.8) U** | **(8.8) U** | **(16) U** | **(8.1) U** | (1.6) U | **(9.1) U** | **(8.8) U** | **(8.8) U** | **(20) U** | **(16) U** | **(8.1) U** | **(9.1) U** |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (2.3) U | (2.3) U | (5) U | (2.5) U | (0.5) U | (3.3) U | (2.3) U | (2.3) U | (6.2) U | (5) U | (2.5) U | (3.3) U |
| Tetrachloroethene | 127-18-4 | 1 | **(2.4) U** | **(2.4) U** | **(6.2) U** | **(3.1) U** | **2.5** | **(3.6) U** | **(2.4) U** | **(2.4) U** | **(7.8) U** | **(6.2) U** | **(3.1) U** | **(3.6) U** |
| Trichloroethylene | 79-01-6 | 1 | **(1.2) U** | **(1.2) U** | **(3.6) U** | **(1.8) U** | **7.4** | **(4) U** | **(1.2) U** | **(1.2) U** | **(4.5) U** | **(3.6) U** | **11** | **(4) U** |
| Vinyl Chloride | 75-01-4 | 5 | **19** | (2.9) U | **(11) U** | **24** | **21** | **15** | **20** | (2.9) U | **49** | **(11) U** | **34** | **14** |
| Total VOCs | -- | -- | 1907 | 1962.1 | 3130 | 1689.7 | 1120.1 | 1427.8 | 1778 | 2058.8 | 2966 | 3126 | 1091.4 | 1363.2 |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | 9.5 | ND | ND | 40 | ND | ND | ND | ND |

**NOTES:**

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PDB = Passive Diffusion Bag.

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Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 7**
**Summary of Historical Groundwater Analytical Results: PDB (VOC)**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

| **Field ID** | | | **TH36A** | | | | | **TH36P** | | | **THWLSA** | | | | **THWLSB** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 383805 | 423974 | 463810 | 517946 | 569989 | 383811 | 463811 | 517947 | 423965 | 463801 | 517933 | 569990 | 423966 | 463802 | 517934 |
| **Depth** | | | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 123 | 123 | 123 |
| **Sample Date** | | | 10/16/02 | 04/23/03 | 09/23/03 | 04/06/04 | 04-Oct-04 | 10/16/02 | 09/23/03 | 04/06/04 | 04/23/03 | 09/23/03 | 04/06/04 | 10/04/04 | 04/23/03 | 09/23/03 | 04/06/04 |
| **Sample Time** | | | 8:50 | 16:20 | 15:05 | 15:00 | 14:30 | 8:55 | 15:10 | 15:50 | 13:50 | 14:00 | 12:45 | 14:52 | 13:55 | 14:05 | 12:50 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 1.6 | 2.4 | 2.4 | 2 | 2.5 | 1.7 | 2.2 | 2 | **86** | **120** | **140** | **31** | **58** | **35** | **120** |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.7) U | (1.7) U | 1.1 | (0.6) U | (1.7) U | (0.7) U | 1.2 |
| 1,1-Dichloroethane | 75-34-3 | 50 | 1.9 | 5.4 | 4.3 | 1.9 | 4 | 2.2 | 4.1 | 1.9 | **260** | **280** | **280** | **120** | **250** | **230** | **310** |
| 1,1-Dichloroethylene | 75-35-4 | 2 | 0.4 | (0.4) U | (0.4) U | (0.4) U | (0.3) U | 0.4 | (0.4) U | 0.5 | **12** | **19** | **23** | **6.4** | **16** | **14** | **23** |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.4) U | (0.3) U | (0.3) U | 1.4 | 1.6 | (0.5) U | (0.7) U | (1.3) U | **2.4** | (0.5) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.4) U | (0.2) U | (0.2) U | (0.5) U | **(1.2) U** | (0.5) U | (0.7) U | **(1.2) U** | (0.5) U | (0.5) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.4) U | (1) U | (0.4) U | (0.6) U | (1) U | (0.4) U | (0.4) U |
| Chloroethane | 75-00-3 | 100 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U | (0.5) U | (0.5) U | 81 | 94 | 64 | 22 | **100** | 87 | 51 |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | 1.2 | 0.9 | 1.6 | 2.8 | (0.4) U | 1.1 | 1.6 | 2.9 | 4.6 | 6.2 | 5.3 | 1.4 | 5.8 | 6.5 | 4.7 |
| Methylene Chloride | 75-09-2 | 3 | (0.9) U | (0.8) U | (0.8) U | (0.8) U | (0.9) U | (0.9) U | (0.8) U | (0.8) U | (1.6) U | **(4) U** | (1.6) U | (1.8) U | **(4) U** | (1.6) U | (1.6) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.5) U | (1.2) U | (0.5) U | (0.7) U | (1.2) U | (0.5) U | (0.5) U |
| Tetrachloroethene | 127-18-4 | 1 | 0.6 | 0.4 | 0.7 | **1** | 0.4 | 0.7 | 0.6 | **1.2** | (0.6) U | **(1.6) U** | (0.6) U | (0.7) U | **(1.6) U** | (0.6) U | (0.6) U |
| Trichloroethylene | 79-01-6 | 1 | 0.5 | 0.4 | 0.6 | **1** | (0.4) U | 0.5 | 0.5 | **1** | **2.7** | **4.4** | **4.8** | (0.8) U | **2.7** | **2.6** | **4.6** |
| Vinyl Chloride | 75-01-4 | 5 | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.3) U | (0.5) U | (0.5) U | 4.7 | **14** | **11** | 4.3 | **16** | **26** | **14** |
| Total VOCs | -- | -- | 6.2 | 9.5 | 9.6 | 8.7 | 6.9 | 6.6 | 9 | 9.5 | 452.4 | 539.2 | 529.2 | 185.1 | 448.5 | 403.5 | 528.5 |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 8**
**Summary of Historical Groundwater Analytical Results: Conventional Sampling (VOC)**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Field ID** | | | **MW2A** | | | | | **MW2AP** | **MW04** | **MW06** | | | **MW10** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 348228 | 424612 | 465533 | 522751 | 576532 | 522753 | 348654 | 349141 | 424934 | 465853 | 387209 |
| **Sample Date** | | | 5/2/2002 | 4/25/2003 | 9/25/2003 | 4/23/2004 | 10/21/2004 | 4/23/2004 | 5/6/2002 | 5/7/2002 | 4/28/2003 | 9/29/2003 | 10/30/2002 |
| **Sample Time** | | | 10:20 | 10:15 | 15:20 | 12:15 | 13:45 | 12:20 | 12:10 | 13:25 | 11:40 | 16:10 | 13:35 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 25 | 19 | 12 | 8.4 | 5.1 | 8.6 | 1.2 | 17 | **140** | **80** | (0.3) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.2) U | 3.4 | 4.3 | 49 | 26 | (0.3) U |
| 1,1-Dichloroethylene | 75-35-4 | 2 | **4.6** | **2.1** | 1.4 | 1.2 | 0.6 | 1.5 | 0.7 | **3** | **7.4** | **4.7** | (0.3) U |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.3) U | (0.3) U | (0.2) U | (0.3) U | (0.4) U | (0.2) U | (0.4) U | (0.4) U | (0.3) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.2) U | (0.4) U | (0.4) U | (0.2) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.2) U | **97** | (0.3) U | (0.2) U | (0.2) U | (0.3) U |
| trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U | 0.5 | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Tetrachloroethene | 127-18-4 | 1 | 0.9 | 0.8 | 0.5 | 0.6 | (0.4) U | 0.6 | **14** | 0.4 | **3** | **2** | (0.2) U |
| Trichloroethylene | 79-01-6 | 1 | 0.6 | 0.6 | 0.4 | 0.4 | (0.4) U | 0.4 | **31** | **1.9** | **12** | **6.6** | (0.1) U |
| Vinyl Chloride | 75-01-4 | 5 | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U | **34** | (0.3) U | (0.5) U | (0.5) U | (0.3) U |
| Total VOCs | -- | -- | 31.1 | 22.5 | 14.3 | 10.6 | 5.7 | 11.1 | 181.8 | 26.6 | 211.4 | 119.3 | ND |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | ND | ND | ND | 6.6 | ND | ND | 3.6 |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 8**
**Summary of Historical Groundwater Analytical Results: Conventional Sampling (VOC)**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Field ID** | | | **MW12** | **MW15** | | | | | **MW16** | **MW18** | **MW20** | **MW26** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 426050 | 349626 | 424614 | 468969 | 518880 | 574575 | 348496 | 384921 | 571862 | 426124 | 520957 | 572346 |
| **Sample Date** | | | 5/2/2003 | 5/10/2002 | 4/25/2003 | 10/6/2003 | 4/9/2004 | 10/18/2004 | 5/3/2002 | 10/21/2002 | 10/7/2004 | 5/5/2003 | 4/16/2004 | 10/11/2004 |
| **Sample Time** | | | 13:30 | 11:15 | 15:10 | 11:15 | 12:15 | 15:30 | 14:45 | 14:15 | | 11:45 | 14:45 | 15:25 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | (0.2) U | 3.8 | 2.8 | 1.7 | 2.6 | 3.5 | 7.1 | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.3) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | (0.2) U | 5 | 3.2 | 1.8 | 3.5 | 5.8 | 6.2 | (0.4) U | (0.4) U | (0.2) U | (0.2) U | (0.4) U |
| 1,1-Dichloroethylene | 75-35-4 | 2 | (0.4) U | 1.3 | 0.7 | (0.4) U | 0.7 | 1.2 | **2.9** | (0.3) U | (0.3) U | (0.4) U | (0.4) U | (0.3) U |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.3) U | (0.4) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.3) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.2) U | (0.4) U | (0.2) U | (0.2) U | (0.2) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.2) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.2) U | (0.3) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U | (0.5) U | (0.4) U | (0.5) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | (0.2) U | 5.7 | 3.3 | 1.4 | 2.8 | 3.9 | 0.5 | (0.3) U | (0.4) U | (0.2) U | (0.2) U | (0.4) U |
| trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U | (0.2) U | (0.3) U | (0.2) U | (0.2) U | (0.3) U |
| Tetrachloroethene | 127-18-4 | 1 | (0.3) U | **1.2** | 0.6 | (0.3) U | 0.5 | 0.9 | **8.2** | (0.2) U | (0.4) U | (0.3) U | (0.3) U | (0.4) U |
| Trichloroethylene | 79-01-6 | 1 | (0.2) U | **1.5** | 0.8 | 0.4 | 0.8 | **1** | **1.3** | (0.1) U | (0.4) U | (0.1) U | (0.1) U | (0.4) U |
| Vinyl Chloride | 75-01-4 | 5 | (0.5) U | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U | (0.3) U | (0.3) U | (0.4) U | (0.3) U | (0.3) U | (0.4) U |
| Total VOCs | -- | -- | ND | 18.5 | 11.4 | 5.3 | 10.9 | 16.3 | 26.2 | ND | ND | ND | ND | ND |
| Total TICs | -- | 100/500 | 83 | ND | ND | ND | ND | ND | ND | 26.8 | 5 | 40.5 | 65 | 53.7 |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

VOCs = Volatile Organic Compounds.

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CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

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**TABLE 8**
**Summary of Historical Groundwater Analytical Results: Conventional Sampling (VOC)**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Field ID** | | | **MW32** | | **MW33A** | **MW34** | **MW35** | **MW36** | | **MW37** | **MW47** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 349145 | 349146 | 348225 | 348226 | 348229 | 348655 | 385635 | 347681 | 445900 | 472403 | 574004 |
| **Sample Date** | | | 5/8/2002 | 5/8/2002 | 5/1/2002 | 5/1/2002 | 5/2/2002 | 5/6/02 | 10/23/02 | 4/30/2002 | 7/25/2003 | 10/17/2003 | 10/13/2004 |
| **Sample Time** | | | 10:30 | 15:20 | 10:30 | 14:30 | 12:40 | 15:15 | 14:45 | 11:20 | 10:40 | 14:35 | 10:50 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 8.1 | 7.6 | 4.3 | 4.2 | **70** | (0.3) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.3) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | 14 | 14 | (0.3) U | (0.3) U | 19 | (0.3) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.4) U |
| 1,1-Dichloroethylene | 75-35-4 | 2 | **2.1** | 1.5 | **2.1** | 1.2 | **12** | (0.3) U | (0.3) U | (0.3) U | (0.4) U | (0.4) U | (0.3) U |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.3) U | (0.3) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.2) U | (0.2) U | (0.4) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | **4.6** | (0.2) U | (0.2) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | 3.9 | 3.8 | (0.3) U | 6.1 | 1.4 | (0.3) U | (0.3) U | (0.3) U | (0.2) U | (0.2) U | (0.4) U |
| trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.3) U |
| Tetrachloroethene | 127-18-4 | 1 | **1.4** | **1.3** | **3.6** | **6.5** | **3.6** | (0.2) U | (0.2) U | (0.20) U | (0.3) U | (0.3) U | (0.4) U |
| Trichloroethylene | 79-01-6 | 1 | **2.4** | **2.1** | **3.8** | **7.1** | **9.2** | (0.1) U | (0.1) U | **42** | (0.2) U | (0.2) U | (0.4) U |
| Vinyl Chloride | 75-01-4 | 5 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.5) U | (0.5) U | (0.4) U |
| Total VOCs | -- | -- | 31.9 | 30.3 | 13.8 | 25.1 | 115.2 | ND | ND | 47.2 | ND | ND | ND |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | ND | 6.4 | 4.9 | ND | 142.2 | 36.6 | 69.5 |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 8**
**Summary of Historical Groundwater Analytical Results: Conventional Sampling (VOC)**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Field ID** | | | **RW03** | **RW11** | **RW13** | **RW14** | **RW15** | **TH36** | **THby4** | **THWLS** |
|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 386958 | 349137 | 348495 | 349625 | 387208 | 349616 | 387210 | 386607 |
| **Sample Date** | | | 10/29/2002 | 5/8/2002 | 5/3/2002 | 5/10/2002 | 10/30/2002 | 5/9/2002 | 10/30/2002 | 10/28/2002 |
| **Sample Time** | | | 12:05 | 14:10 | 15:18 | 9:30 | 8:40 | 13:55 | 11:00 | 10:35 |
| **VOCs via EPA Method 624[1]** | **CAS_RN** | **GWQS** | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | (0.3) U | (0.3) U | 2.8 | 5.1 | 2.1 | 2.3 | (0.3) U | 5.5 |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | (0.3) U | (0.3) U | 1.5 | 8.9 | 1.2 | 2.3 | (0.3) U | **140** |
| 1,1-Dichloroethylene | 75-35-4 | 2 | 0.3 | (0.3) U | 0.8 | (0.3) U | 0.4 | 0.6 | (0.3) U | **4.4** |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.7) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.7) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.6) U |
| Chloroethane | 75-00-3 | 100 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | 35 |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | (0.3) U | (0.3) U | (0.3) U | 1.8 | 28 | 2.1 | (0.3) U | 1.5 |
| trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.5) U |
| Tetrachloroethene | 127-18-4 | 1 | (0.2) U | **4.9** | **1.2** | 0.9 | **4.9** | **2.5** | (0.2) U | (0.5) U |
| Trichloroethylene | 79-01-6 | 1 | (0.1) U | (0.10) U | (0.10) U | **1.5** | **9** | 0.9 | (0.1) U | (0.2) U |
| Vinyl Chloride | 75-01-4 | 5 | 1.1 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | 1.1 | **20** |
| Total VOCs | -- | -- | ND | 4.9 | 6.3 | 18.2 | 45.6 | 11.9 | ND | 206.4 |
| Total TICs | -- | 100/500 | 62.8 | ND | ND | ND | ND | ND | 6.5 | 8.4 |

**NOTES:**

All results are reported in micrograms per liter (µg/L).

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

[1] The analytes presented include only these for which at least on analytical results reported a concen tration in excess of the NJDEP Groundwater Quailty Standards (GWQS).

TICs = Tentatively Identified Compounds.

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL) shown in parenthesis.

ND = Not Detected.

**Bold** indicates that the concentration exceeds the NJDEP GWQS.

**TABLE 9**
**Summary Historical of Groundwater Analytical Results: Conventional/Low Flow Sampling (Priorty Pollutant Metals)**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Field ID** | | | **MW01** | | **MW2A** | **MW03** | | **MW04** | | | | | **MW04Dis** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 347679 | 572350 | 348228 | 348653 | 574008 | 348654 | 424610 | 471921 | 522746 | 570691 | 424618 | 471922 | 522754 |
| **Sample Date** | | | 4/30/2002 | 10/12/2004 | 5/2/2002 | 5/6/2002 | 10/14/2004 | 5/6/2002 | 4/24/2003 | 10/13/2003 | 4/22/2004 | 10/6/2004 | 4/24/2003 | 10/13/2003 | 4/22/2004 |
| **Sample Time** | | | 10:00 | 15:25 | 10:20 | 10:00 | 10:20 | 12:10 | 10:40 | 15:20 | 10:10 | 10:34 | 10:40 | 15:20 | 10:10 |
| **PP-Metals (via 200.7)** | **CAS_RN** | **GWQS** | | | | | | | | | | | | | |
| Antimony | 7440-36-0 | 20 | -- | (3.9) U | -- | -- | (5.8) U | -- | -- | -- | -- | (3.9) U | -- | -- | -- |
| Arsenic | 7440-38-2 | 8 | (3.4) U | (3.5) U | (6.4) U | (3.4) U | (3.2) U | (3.4) U | (3.4) U | (3.4) U | (3.6) U | (3.5) U | (3.4) U | (3.4) U | (3.6) U |
| Beryllium | 7440-41-7 | 20 | -- | (0.1) U | -- | -- | (0.3) U | -- | -- | -- | -- | (0.1) U | -- | -- | -- |
| Cadmium | 7440-43-9 | 4 | -- | (0.4) U | -- | -- | (0.4) U | -- | -- | -- | -- | (0.4) U | -- | -- | -- |
| Chromium | 7440-47-3 | 100 | 5.4 | 3.1 | (3.2) U | (2.8) U | 4.4 | (2.8) U | -- | -- | -- | (2.8) U | -- | -- | -- |
| Copper | 7440-50-8 | 1000 | -- | (3.1) U | -- | -- | 4 | -- | -- | -- | -- | 5 | -- | -- | -- |
| Lead | 7439-92-1 | 10 | (2.2) U | (2.2) U | (4.6) U | (2.2) U | (2.6) U | (2.2) U | -- | (2.2) U | -- | (2.2) U | -- | (2.2) U | -- |
| Mercury | 7439-97-6 | 2 | -- | (0.1) U | -- | -- | (0.1) U | -- | -- | -- | -- | (0.1) U | -- | -- | -- |
| Nickel | 7440-02-0 | 100 | -- | (3.9) U | -- | -- | 3.8 | -- | -- | -- | -- | (3.9) U | -- | -- | -- |
| Selenium | 7782-49-2 | 50 | -- | (4.7) U | -- | -- | (4.2) U | -- | -- | -- | -- | (4.7) U | -- | -- | -- |
| Silver | 7440-22-4 | NA | -- | (0.8) U | -- | -- | (1.4) U | -- | -- | -- | -- | (0.8) U | -- | -- | -- |
| Thallium | 7440-28-0 | 10 | -- | (4.4) U | -- | -- | (4.7) U | -- | -- | -- | -- | (4.4) U | -- | -- | -- |
| Zinc | 7440-66-6 | 5000 | -- | 13.6 | -- | -- | 7.2 | -- | -- | -- | -- | 6.3 | -- | -- | -- |

| **Field ID** | | | **MW06** | **MW12** | **MW13** | **MW16** | **MW26** | **MW27** | **MW27P** | **MW30** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 349141 | 576534 | 349622 | 574010 | 572346 | 574012 | 574013 | 349618 | 386198 | 425479 | 468970 | 520952 | 574005 |
| **Sample Date** | | | 5/7/2002 | 10/22/2004 | 5/9/2002 | 10/15/2004 | 10/11/2004 | 10/15/2004 | 10/15/2004 | 5/10/2002 | 10/24/2002 | 4/29/2003 | 10/6/2003 | 4/15/2004 | 10/13/2004 |
| **Sample Time** | | | 13:25 | 9:30 | 12:45 | 11:42 | 15:25 | 15:15 | 15:20 | 8:50 | 9:15 | 12:10 | 14:15 | 10:10 | 13:30 |
| **PP-Metals (via 200.7)** | **CAS_RN** | **GWQS** | | | | | | | | | | | | | |
| Antimony | 7440-36-0 | 20 | -- | (5.8) U | -- | (5.8) U | (3.9) U | 6 | (5.8) U | -- | -- | -- | -- | -- | (5.8) U |
| Arsenic | 7440-38-2 | 8 | (3.4) U | (3.2) U | (3.4) U | (3.2) U | 6.7 | (3.2) U | (3.2) U | 6.8 | **10.6** | (3.4) U | (3.4) U | (3.6) U | (3.2) U |
| Beryllium | 7440-41-7 | 20 | -- | (0.3) U | -- | (0.3) U | (0.1) U | (0.3) U | (0.3) U | -- | -- | -- | -- | -- | (0.3) U |
| Cadmium | 7440-43-9 | 4 | -- | (0.4) U | -- | (0.4) U | (0.4) U | (0.4) U | (0.4) U | -- | -- | -- | -- | -- | (0.4) U |
| Chromium | 7440-47-3 | 100 | (2.8) U | (1.6) U | 4.6 | (1.6) U | (2.8) U | 2.8 | 2.4 | 13.7 | -- | -- | -- | -- | 2.3 |
| Copper | 7440-50-8 | 1000 | -- | (3.7) U | -- | (3.7) U | (3.1) U | (3.7) U | (3.7) U | -- | -- | -- | -- | -- | 3.8 |
| Lead | 7439-92-1 | 10 | (2.2) U | (2.6) U | (2.2) U | (2.6) U | (2.2) U | (2.6) U | (2.6) U | **13.2** | **18.2** | (2.2) U | (2.2) U | (2.1) U | (2.6) U |
| Mercury | 7439-97-6 | 2 | -- | (0.1) U | -- | (0.1) U | (0.1) U | (0.1) U | (0.1) U | -- | -- | -- | -- | -- | (0.1) U |
| Nickel | 7440-02-0 | 100 | -- | (2.4) U | -- | (2.4) U | (3.9) U | 3 | 2.7 | -- | -- | -- | -- | -- | 2.7 |
| Selenium | 7782-49-2 | 50 | -- | (4.2) U | -- | (4.2) U | (4.7) U | (4.2) U | (4.2) U | -- | -- | -- | -- | -- | (4.2) U |
| Silver | 7440-22-4 | NA | -- | (1.4) U | -- | (1.4) U | (0.8) U | (1.4) U | (1.4) U | -- | -- | -- | -- | -- | (1.4) U |
| Thallium | 7440-28-0 | 10 | -- | (4.7) U | -- | (4.7) U | (4.4) U | (4.7) U | (4.7) U | -- | -- | -- | -- | -- | (4.7) U |
| Zinc | 7440-66-6 | 5000 | -- | (5.8) U | -- | 7.2 | 7.5 | 9.7 | 8.6 | -- | -- | -- | -- | -- | 12.3 |

**NOTES:**
All results are reported in micrograms per liter (µg/L).
CAS_RN = Chemical Abstracts Service Registry Number.
Sample IDs ending in "P" indicate that it is a duplicate sample.
NJDEP GWQS = New Jersey Department of Environmental Protection Groundwater Quality Standards.
U - Indicates that the analyte was not detected at the Method Detection Limit shown in parentheses.
**Bold** indicates that the concentration exceeds the NJDEP GWQS.
-- Indicates that analysis was not requested for the given analyte.

**TABLE 9**
**Summary Historical of Groundwater Analytical Results: Conventional/Low Flow Sampling (Priorty Pollutant Metals)**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| Field ID | | | MW30P | | | MW30Dis | | | MW30PDis | | MW31 | MW31P | MW33A | MW34 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 425480 | 468971 | 574006 | 425489 | 468977 | 520959 | 425490 | 468978 | 349613 | 349614 | 348225 | 348226 | 576530 |
| **Sample Date** | | | 4/29/2003 | 10/6/2003 | 10/13/2004 | 4/29/2003 | 10/6/2003 | 4/15/2004 | 4/29/2003 | 10/6/2003 | 5/9/2002 | 5/9/2002 | 5/1/2002 | 5/1/2002 | 10/20/2004 |
| **Sample Time** | | | 12:15 | 14:20 | 13:35 | 12:10 | 14:15 | 10:10 | 12:15 | 14:20 | 11:00 | 11:05 | 10:30 | 14:30 | 15:00 |
| **PP-Metals (via 200.7)** | **CAS_RN** | **GWQS** | | | | | | | | | | | | | |
| Antimony | 7440-36-0 | 20 | -- | -- | (5.8) U | -- | -- | -- | -- | -- | -- | -- | -- | -- | (5.8) U |
| Arsenic | 7440-38-2 | 8 | (3.4) U | (3.4) U | (3.2) U | (3.4) U | (3.4) U | (3.6) U | (3.4) U | (3.4) U | (3.4) U | (3.4) U | (6.4) U | (6.4) U | (3.2) U |
| Beryllium | 7440-41-7 | 20 | -- | -- | (0.3) U | -- | -- | -- | -- | -- | -- | -- | -- | -- | (0.3) U |
| Cadmium | 7440-43-9 | 4 | -- | -- | (0.4) U | -- | -- | -- | -- | -- | -- | -- | -- | -- | (0.4) U |
| Chromium | 7440-47-3 | 100 | -- | -- | 2 | -- | -- | -- | -- | -- | (2.8) U | (2.8) U | 7 | 6.2 | 2.7 |
| Copper | 7440-50-8 | 1000 | -- | -- | (3.7) U | -- | -- | -- | -- | -- | -- | -- | -- | -- | (3.7) U |
| Lead | 7439-92-1 | 10 | (2.2) U | (2.2) U | (2.6) U | (2.2) U | (2.2) U | (2.1) U | (2.2) U | (2.2) U | (2.2) U | (2.2) U | 4.6 | 6.1 | (2.6) U |
| Mercury | 7439-97-6 | 2 | -- | -- | (0.1) U | -- | -- | -- | -- | -- | -- | -- | -- | -- | (0.1) U |
| Nickel | 7440-02-0 | 100 | -- | -- | 2.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | (2.4) U |
| Selenium | 7782-49-2 | 50 | -- | -- | (4.2) U | -- | -- | -- | -- | -- | -- | -- | -- | -- | (4.2) U |
| Silver | 7440-22-4 | NA | -- | -- | (1.4) U | -- | -- | -- | -- | -- | -- | -- | -- | -- | (1.4) U |
| Thallium | 7440-28-0 | 10 | -- | -- | (4.7) U | -- | -- | -- | -- | -- | -- | -- | -- | -- | (4.7) U |
| Zinc | 7440-66-6 | 5000 | -- | -- | 9.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6 |

| Field ID | | | MW35 | MW36 | | | | | | MW36Diss | | | MW38 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 348229 | 348655 | 385635 | 424617 | 471923 | 522747 | 570694 | 424620 | 471924 | 522755 | 347682 |
| **Sample Date** | | | 5/2/2002 | 5/6/2002 | 10/23/2002 | 4/24/2003 | 10/13/2003 | 4/22/2004 | 10/6/2004 | 4/25/2003 | 10/13/2003 | 4/22/2004 | 4/30/2002 |
| **Sample Time** | | | 12:40 | 15:15 | 14:45 | 15:20 | 12:35 | 12:30 | 13:00 | 15:20 | 12:35 | 12:30 | 14:45 |
| **PP-Metals (via 200.7)** | **CAS_RN** | **GWQS** | | | | | | | | | | | |
| Antimony | 7440-36-0 | 20 | -- | -- | -- | -- | -- | -- | (3.9) U | -- | -- | -- | -- |
| Arsenic | 7440-38-2 | 8 | (6.4) U | **14.8** | **23.3** | 4 | (3.4) U | (3.6) U | (3.5) U | (3.4) U | (3.4) U | (3.6) U | (3.4) U |
| Beryllium | 7440-41-7 | 20 | -- | -- | -- | -- | -- | -- | (0.1) U | -- | -- | -- | -- |
| Cadmium | 7440-43-9 | 4 | -- | -- | -- | -- | -- | -- | (0.4) U | -- | -- | -- | -- |
| Chromium | 7440-47-3 | 100 | 3.8 | 29.8 | -- | -- | -- | -- | (2.8) U | -- | -- | -- | 6.4 |
| Copper | 7440-50-8 | 1000 | -- | -- | -- | -- | -- | -- | (3.1) U | -- | -- | -- | -- |
| Lead | 7439-92-1 | 10 | (4.6) U | **51.2** | **97.6** | **13.5** | (2.2) U | 2.6 | (2.2) U | (2.2) U | (2.2) U | (2.1) U | (2.2) U |
| Mercury | 7439-97-6 | 2 | -- | -- | -- | -- | -- | -- | (0.1) U | -- | -- | -- | -- |
| Nickel | 7440-02-0 | 100 | -- | -- | -- | -- | -- | -- | (3.9) U | -- | -- | -- | -- |
| Selenium | 7782-49-2 | 50 | -- | -- | -- | -- | -- | -- | (4.7) U | -- | -- | -- | -- |
| Silver | 7440-22-4 | NA | -- | -- | -- | -- | -- | -- | (0.8) U | -- | -- | -- | -- |
| Thallium | 7440-28-0 | 10 | -- | -- | -- | -- | -- | -- | (4.4) U | -- | -- | -- | -- |
| Zinc | 7440-66-6 | 5000 | -- | -- | -- | -- | -- | -- | 10.7 | -- | -- | -- | -- |

**NOTES:**
All results are reported in micrograms per liter (µg/L).
CAS_RN = Chemical Abstracts Service Registry Number.
Sample IDs ending in "P" indicate that it is a duplicate sample.
NJDEP GWQS = New Jersey Department of Environmental Protection Groundwater Quality Standards.
U - Indicates that the analyte was not detected at the Method Detection Limit shown in parentheses.
**Bold** indicates that the concentration exceeds the NJDEP GWQS.
-- Indicates that analysis was not requested for the given analyte.

**TABLE 9**
**Summary Historical of Groundwater Analytical Results: Conventional/Low Flow Sampling (Priorty Pollutant Metals)**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Field ID** | | | **MW39** | | | | | | **MW39P** | **MW39Diss** | | | **MW40** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 349144 | 386199 | 424613 | 471925 | 522748 | 576536 | 386204 | 424619 | 471926 | 522756 | 201708 |
| **Sample Date** | | | 5/8/2002 | 10/24/2002 | 4/25/2003 | 10/13/2003 | 4/22/2004 | 10/22/2004 | 10/24/2002 | 4/24/2003 | 10/13/2003 | 4/22/2004 | 5/2/2000 |
| **Sample Time** | | | 15:20 | 12:00 | 12:10 | 16:20 | 13:30 | 13:00 | 12:05 | 12:10 | 16:20 | 13:30 | |
| **PP-Metals (via 200.7)** | **CAS_RN** | **GWQS** | | | | | | | | | | | |
| Antimony | 7440-36-0 | 20 | -- | -- | -- | -- | -- | (5.8) U | -- | -- | -- | -- | (4.5) U |
| Arsenic | 7440-38-2 | 8 | **13.5** | **13.9** | **12.1** | (3.4) U | (3.6) U | (3.2) U | **12.6** | (3.4) U | (3.4) U | (3.6) U | (3.6) U |
| Beryllium | 7440-41-7 | 20 | -- | -- | -- | -- | -- | (0.3) U | -- | -- | -- | -- | (0.2) U |
| Cadmium | 7440-43-9 | 4 | -- | -- | -- | -- | -- | (0.4) U | -- | -- | -- | -- | (0.4) U |
| Chromium | 7440-47-3 | 100 | **155** | 95.6 | -- | -- | -- | 21.3 | 86.1 | -- | -- | -- | (1.1) U |
| Copper | 7440-50-8 | 1000 | -- | -- | -- | -- | -- | (3.7) U | -- | -- | -- | -- | 2.9 |
| Lead | 7439-92-1 | 10 | **114** | **157** | **132** | 9.5 | (2.1) U | (2.6) U | **166** | (2.2) U | (2.2) U | (2.1) U | (2.1) U |
| Mercury | 7439-97-6 | 2 | -- | -- | -- | -- | -- | (0.1) U | -- | -- | -- | -- | (0.1) U |
| Nickel | 7440-02-0 | 100 | -- | -- | -- | -- | -- | 15.6 | -- | -- | -- | -- | 3.3 |
| Selenium | 7782-49-2 | 50 | -- | -- | -- | -- | -- | (4.2) U | -- | -- | -- | -- | (4.5) U |
| Silver | 7440-22-4 | NA | -- | -- | -- | -- | -- | (1.4) U | -- | -- | -- | -- | (1.1) U |
| Thallium | 7440-28-0 | 10 | -- | -- | -- | -- | -- | (4.7) U | -- | -- | -- | -- | (4.1) U |
| Zinc | 7440-66-6 | 5000 | -- | -- | -- | -- | -- | 13 | -- | -- | -- | -- | 8.5 |

| **Field ID** | | | **MW41** | **MW42** | **MW43A** | **MW44** | **MW45** | **MW 49** | **MW50** | **MW54** | | **MW54dis** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 201709 | 201710 | 210711 | 210712 | 210713 | 571867 | 570692 | 521873 | 574574 | 521884 |
| **Sample Date** | | | 5/2/2000 | 5/2/2000 | 5/2/2000 | 5/2/2000 | 5/2/2000 | 10/8/2004 | 10/6/2004 | 4/19/2004 | 10/18/2004 | 4/19/2004 |
| **Sample Time** | | | | | | | | 15:40 | 16:20 | 17:30 | 14:40 | 17:30 |
| **PP-Metals (via 200.7)** | **CAS_RN** | **GWQS** | | | | | | | | | | |
| Antimony | 7440-36-0 | 20 | (4.5) U | (4.5) U | (4.5) U | (4.5) U | (4.5) U | (3.9) U | (3.9) U | (3.9) U | (5.8) U | (3.9) U |
| Arsenic | 7440-38-2 | 8 | (3.6) U | (3.6) U | (3.6) U | (3.6) U | (3.6) U | (3.5) U | (3.5) U | (3.4) U | (3.2) U | (3.4) U |
| Beryllium | 7440-41-7 | 20 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.1) U | (0.1) U | (0.1) U | (0.3) U | (0.1) U |
| Cadmium | 7440-43-9 | 4 | (0.4) U | 0.71 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Chromium | 7440-47-3 | 100 | 1.9 | 4.9 | 4.4 | 7.1 | 7.4 | (2.8) U | 3.8 | (2.8) U | (1.6) U | (2.8) U |
| Copper | 7440-50-8 | 1000 | 4.1 | (2.7) U | (2.7) U | (2.7) U | 10.7 | 6.4 | 9.4 | (2.1) U | (3.7) U | (2.1) U |
| Lead | 7439-92-1 | 10 | (2.1) U | (2.1) U | (2.1) U | (2.1) U | 3.3 | (2.2) U | (2.2) U | (2.2) U | (2.6) U | (2.2) U |
| Mercury | 7439-97-6 | 2 | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U |
| Nickel | 7440-02-0 | 100 | (1.4) U | 2.8 | 2.3 | 1.7 | 10.3 | 12.9 | (3.9) U | (3.9) U | (2.4) U | (3.9) U |
| Selenium | 7782-49-2 | 50 | (4.5) U | (4.5) U | (4.5) U | (4.5) U | (4.5) U | (4.7) U | (4.7) U | (3.9) U | (4.2) U | (3.9) U |
| Silver | 7440-22-4 | NA | (1.1) U | 4.6 | (1.1) U | 2.6 | (1.1) U | (0.8) U | (0.8) U | (0.7) U | (1.4) U | (0.7) U |
| Thallium | 7440-28-0 | 10 | (4.1) U | (4.1) U | (4.1) U | (4.1) U | (4.1) U | (4.4) U | (4.4) U | (4.4) U | (4.7) U | (4.4) U |
| Zinc | 7440-66-6 | 5000 | 6.1 | 7.3 | 15.1 | 13.1 | 23.3 | 6.7 | 7.1 | 11.5 | 8.9 B | 11.6 |

**NOTES:**
All results are reported in micrograms per liter (µg/L).
CAS_RN = Chemical Abstracts Service Registry Number.
Sample IDs ending in "P" indicate that it is a duplicate sample.
NJDEP GWQS = New Jersey Department of Environmental Protection Groundwater Quality Standards.
U - Indicates that the analyte was not detected at the Method Detection Limit shown in parentheses.
**Bold** indicates that the concentration exceeds the NJDEP GWQS.
-- Indicates that analysis was not requested for the given analyte.

**TABLE 9**
**Summary Historical of Groundwater Analytical Results: Conventional/Low Flow Sampling (Priorty Pollutant Metals)**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

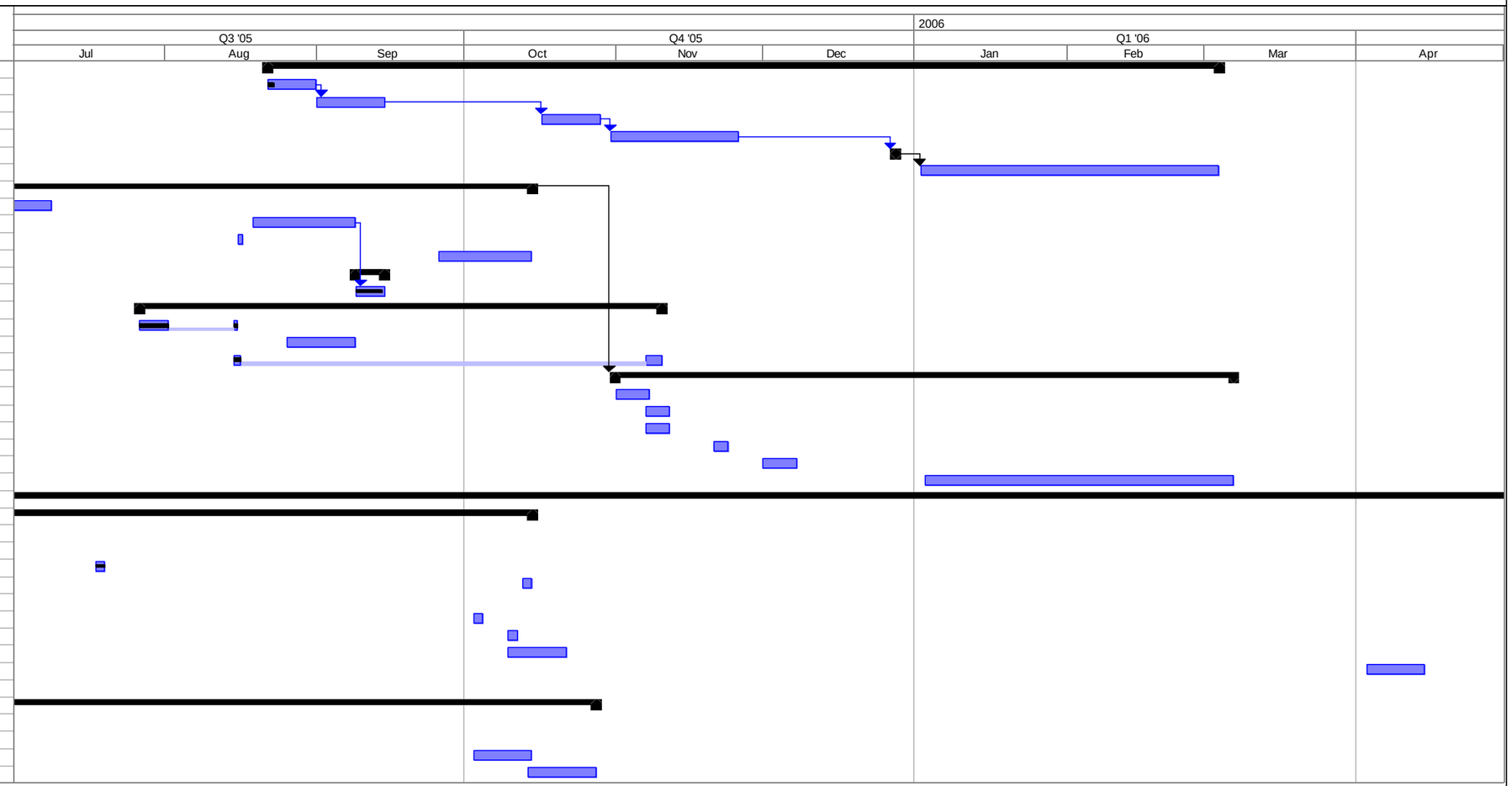
| **Field ID** | | | **RW09** | | | | **RW09Dis** | | | **RW11** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 425485 | 465536 | 520956 | 574578 | 425491 | 465557 | 520962 | 349137 | 385633 | 424936 | 465535 | 518879 | 574577 |
| **Sample Date** | | | 4/30/2003 | 9/26/2003 | 4/15/2004 | 10/19/2004 | 4/30/2003 | 9/26/2003 | 4/15/2004 | 5/8/2002 | 10/23/2002 | 4/28/2003 | 9/26/2003 | 4/9/2004 | 10/19/2004 |
| **Sample Time** | | | 15:00 | 11:20 | 14:55 | 11:40 | 15:00 | 11:20 | 14:55 | 14:10 | 10:13 | 16:10 | 10:05 | 10:10 | 9:25 |
| **PP-Metals (via 200.7)** | **CAS_RN** | **GWQS** | | | | | | | | | | | | | |
| Antimony | 7440-36-0 | 20 | -- | -- | -- | (5.8) U | -- | -- | -- | -- | -- | -- | -- | -- | (5.8) U |
| Arsenic | 7440-38-2 | 8 | (3.4) U | (3.2) U | 3.9 | (3.2) U | 3.7 | (3.2) U | (3.6) U | (3.4) U | -- | -- | -- | -- | (3.2) U |
| Beryllium | 7440-41-7 | 20 | -- | -- | -- | (0.3) U | -- | -- | -- | -- | -- | -- | -- | -- | (0.3) U |
| Cadmium | 7440-43-9 | 4 | -- | -- | -- | (0.4) U | -- | -- | -- | -- | -- | -- | -- | -- | (0.4) U |
| Chromium | 7440-47-3 | 100 | -- | -- | -- | (1.6) U | -- | -- | -- | **118** | **125** | 84.5 | **108** | 38.3 | 68.7 |
| Copper | 7440-50-8 | 1000 | -- | -- | -- | (3.7) U | -- | -- | -- | **--** | **--** | -- | -- | -- | (3.7) U |
| Lead | 7439-92-1 | 10 | (2.2) U | (2.3) U | (2.1) U | (2.6) U | (2.2) U | (2.3) U | (2.1) U | (2.2) U | -- | -- | -- | -- | (2.6) U |
| Mercury | 7439-97-6 | 2 | -- | -- | -- | (0.1) U | -- | -- | -- | -- | -- | -- | -- | -- | (0.1) U |
| Nickel | 7440-02-0 | 100 | -- | -- | -- | (2.4) U | -- | -- | -- | -- | -- | -- | -- | -- | (2.4) U |
| Selenium | 7782-49-2 | 50 | -- | -- | -- | (4.2) U | -- | -- | -- | -- | -- | -- | -- | -- | (4.2) U |
| Silver | 7440-22-4 | NA | -- | -- | -- | (1.4) U | -- | -- | -- | -- | -- | -- | -- | -- | (1.4) U |
| Thallium | 7440-28-0 | 10 | -- | -- | -- | (4.7) U | -- | -- | -- | -- | -- | -- | -- | -- | (4.7) U |
| Zinc | 7440-66-6 | 5000 | -- | -- | -- | 82 | -- | -- | -- | -- | -- | -- | -- | -- | 17.4 B |

| **Field ID** | | | **RW11Dis** | | | **RW13** | **TH36** | | | | | | **TH36Dis** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 424939 | 465556 | 518884 | 576529 | 349616 | 386201 | 425478 | 471935 | 520953 | 574580 | 425488 | 471936 | 520960 |
| **Sample Date** | | | 4/28/2003 | 9/26/2003 | 4/9/2004 | 10/20/2004 | 5/9/2002 | 10/24/2002 | 4/29/2003 | 10/15/2003 | 4/15/2004 | 10/19/2004 | 4/29/2003 | 10/15/2003 | 4/15/2004 |
| **Sample Time** | | | 16:10 | 10:05 | 10:10 | 11:40 | 13:55 | 16:55 | 10:20 | 16:15 | 13:00 | 14:40 | 10:20 | 16:15 | 13:00 |
| **PP-Metals (via 200.7)** | **CAS_RN** | **GWQS** | | | | | | | | | | | | | |
| Antimony | 7440-36-0 | 20 | -- | -- | -- | (5.8) U | -- | -- | -- | -- | -- | (5.8) U | -- | -- | -- |
| Arsenic | 7440-38-2 | 8 | -- | -- | -- | (3.2) U | **38.7** | 5 | 4.7 | (3.4) U | (3.6) U | (3.2) U | (3.4) U | (3.4) U | (3.6) U |
| Beryllium | 7440-41-7 | 20 | -- | -- | -- | (0.3) U | -- | -- | -- | -- | -- | (0.3) U | -- | -- | -- |
| Cadmium | 7440-43-9 | 4 | -- | -- | -- | (0.4) U | -- | -- | -- | -- | -- | (0.4) U | -- | -- | -- |
| Chromium | 7440-47-3 | 100 | 84.2 | 93.2 | 30.3 | 9.9 | 20.8 | -- | -- | -- | -- | 12.1 | -- | -- | -- |
| Copper | 7440-50-8 | 1000 | -- | -- | -- | (3.7) U | | -- | -- | -- | -- | (3.7) U | -- | -- | -- |
| Lead | 7439-92-1 | 10 | -- | -- | -- | (2.6) U | **51.4** | 7.2 | 5.3 | (2.2) U | (2.1) U | (2.6) U | (2.2) U | (2.2) U | (2.1) U |
| Mercury | 7439-97-6 | 2 | -- | -- | -- | (0.1) U | -- | -- | -- | -- | -- | (0.1) U | -- | -- | -- |
| Nickel | 7440-02-0 | 100 | -- | -- | -- | 3.2 | -- | -- | -- | -- | -- | 9.4 B | -- | -- | -- |
| Selenium | 7782-49-2 | 50 | -- | -- | -- | (4.2) U | -- | -- | -- | -- | -- | (4.2) U | -- | -- | -- |
| Silver | 7440-22-4 | NA | -- | -- | -- | (1.4) U | -- | -- | -- | -- | -- | (1.4) U | -- | -- | -- |
| Thallium | 7440-28-0 | 10 | -- | -- | -- | (4.7) U | -- | -- | -- | -- | -- | (4.7) U | -- | -- | -- |
| Zinc | 7440-66-6 | 5000 | -- | -- | -- | 9.5 | -- | -- | -- | -- | -- | 9.1 B | -- | -- | -- |

**NOTES:**
All results are reported in micrograms per liter (µg/L).
CAS_RN = Chemical Abstracts Service Registry Number.
Sample IDs ending in "P" indicate that it is a duplicate sample.
NJDEP GWQS = New Jersey Department of Environmental Protection Groundwater Quality Standards.
U - Indicates that the analyte was not detected at the Method Detection Limit shown in parentheses.
**Bold** indicates that the concentration exceeds the NJDEP GWQS.
-- Indicates that analysis was not requested for the given analyte.

# TABLE 10
## Schedule of Proposed Groundwater Activities
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

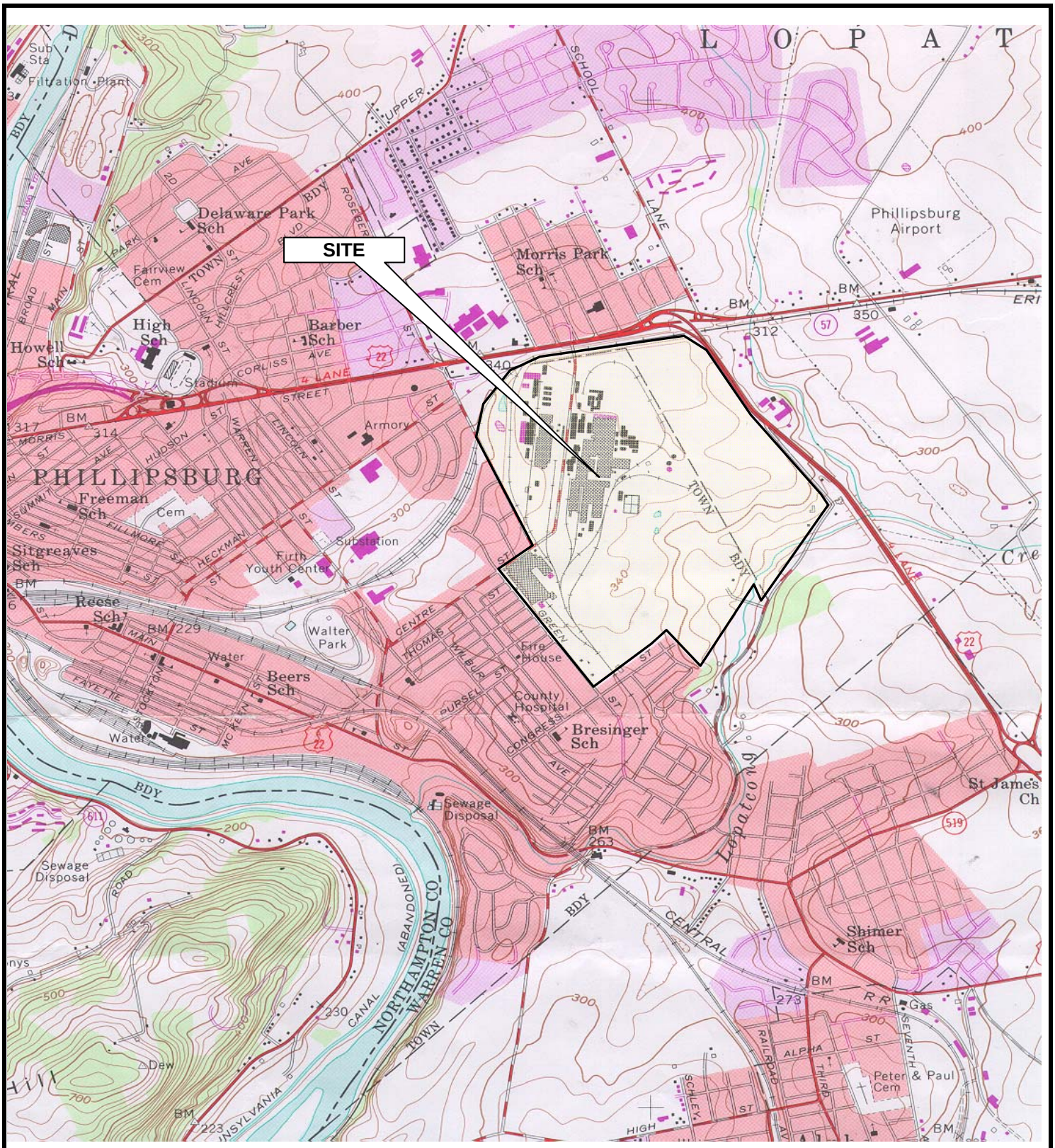
| ID | % Complete | Task Name |
|---|---|---|
| 1 | **1%** | **Offsite Delineation** |
| 2 | 15% | Obtain information from local authority and water utility |
| 3 | 0% | Mail access request letters for sampling |
| 4 | 0% | Off-site potable well sampling |
| 5 | 0% | Assessment of Analytical Data |
| 6 | 0% | NJDEP submittal |
| 7 | 0% | Additional activities (as needed) |
| 8 | **54%** | **Well Retrofitting** |
| 9 | 80% | Analysis of priority wells and BWA approval |
| 10 | 0% | Redrilling needed for partial collapses |
| 11 | 0% | Geophysical investigation |
| 12 | 0% | Final construction with 25' screened interval |
| 13 | **80%** | **Geophysical Investigation** |
| 14 | 80% | Up to 10 new wells |
| 15 | **33%** | **Additional Aquifer Characterization** |
| 16 | 100% | Salt Slug Testing |
| 17 | 0% | Aquifer Stress Testing |
| 18 | 32% | Packer Testing |
| 19 | **0%** | **Deep Well Installation** |
| 20 | 0% | Begin drilling |
| 21 | 0% | Geophysical investigation (as needed) |
| 22 | 0% | Targeted sampling |
| 23 | 0% | Final construction |
| 24 | 0% | Decision on additional deep well installation |
| 25 | 0% | Additional well installation |
| 26 | **39%** | **Semi Annual GW Sampling** |
| 27 | **75%** | **Quarterly gauging** |
| 28 | 100% | Quarterly Gauging 1 |
| 29 | 100% | Quarterly Gauging 2 |
| 30 | 100% | Quarterly Gauging 3 |
| 31 | 0% | Quarterly Gauging 4 |
| 32 | 100% | PDB and PP Metals Sampling |
| 33 | 0% | PDB deployment |
| 34 | 0% | PDB sampling |
| 35 | 0% | MNA sampling |
| 36 | 0% | 2nd round MNA sampling with PDB sampling |
| 37 | 0% | Preliminary remedial determination |
| 38 | **9%** | **Potal Well Conversion** |
| 39 | 100% | Down hole investigation of current conditions at WW-2 and WW-3 |
| 40 | 100% | Geophysical investigation and sampling of WW-2 |
| 41 | 0% | Clearing of WW-3 |
| 42 | 0% | Complete investigation of WW-3 |




Date: Tue 8/23/05

Task | Milestone | Rolled Up Task | Rolled Up Progress | External Tasks | Group By Summary
Progress | Summary | Rolled Up Milestone | Split | Project Summary | Deadline

FIGURES




Source:
USGS 7.5' Topographic
Quadrangle - Easton, NJ-PA
1954 - Photorevised 1981

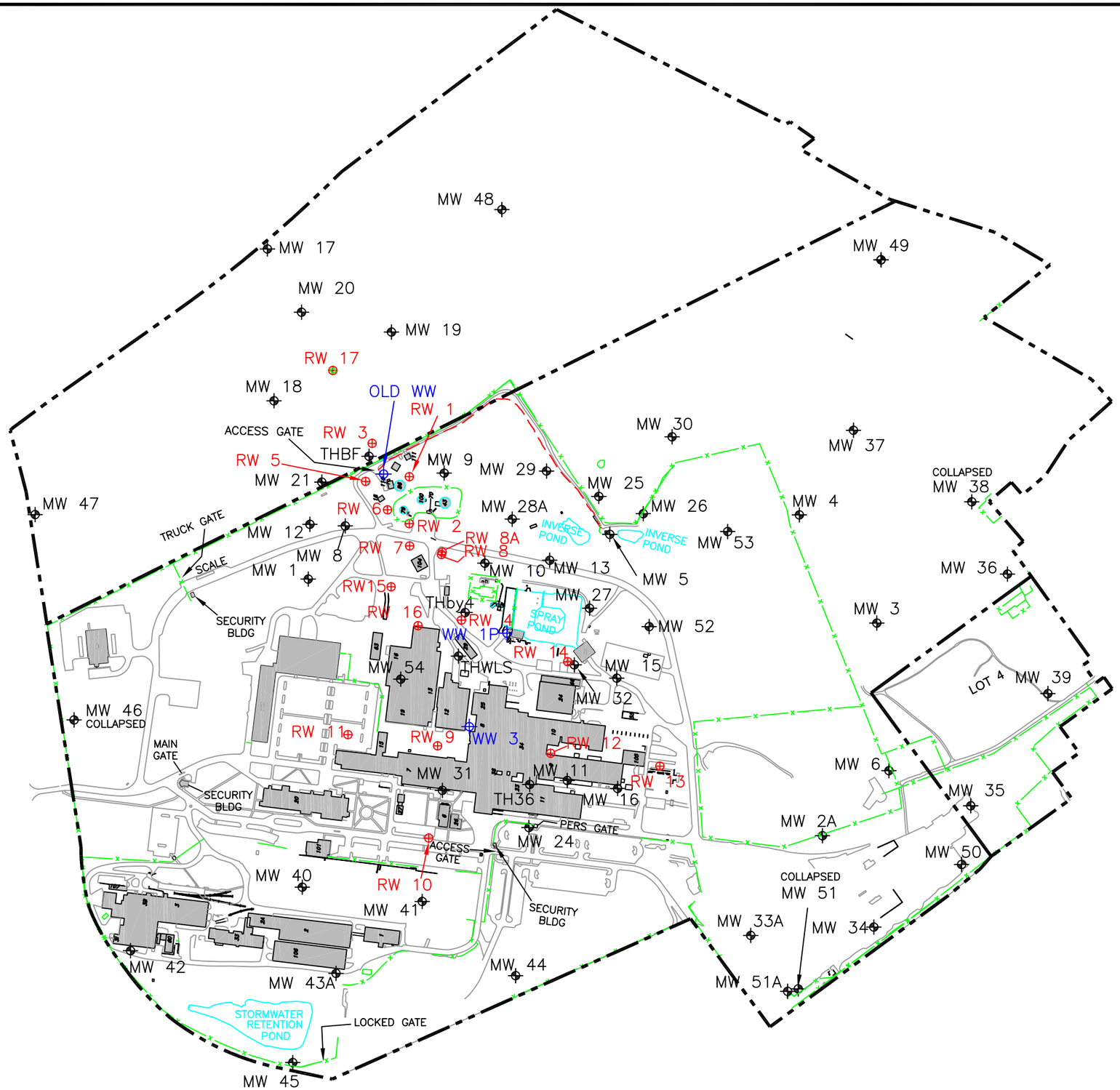
Client:
**Ingersoll Rand Company**
Design/Review: GM/CV
Scale: 1:24,000
Date: 4/14/05

**FIGURE 1**
**Site Location Map**
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Project No.: 03710-167

ENSR INTERNATIONAL

J:\Projects\Ingersoll Rand\03710-167\ACO\Groundwater\GWWP\site-loc.xls




## LEGEND

- Monitoring Well
- Recovery Well
- Production Well
- Pond
- Fenceline
- Property Boundary

## NOTES:

LOCATIONS OF BASEMAP AND STRUCTURES SHOWN ARE BASED ON SURVEYED MAP IN STATE PLANE NAD83, FEET

PROPERTY LINES SHOWN HEREON ARE BASED ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND CO.," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1590–G, DATED AUGUST 15, 2003; AND ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND COMPANY," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1147–G, DATED FEBRUARY 7, 1992, LAST REVISED JUNE 15, 1992.

MAPPED WELL LOCATIONS ARE APPROXIMATE.

500 250 0 500

Scale in Feet

| REVISIONS | | | |
|---|---|---|---|
| NO.: | DESCRIPTION: | DATE: | BY: |

DESIGNED BY: GM
DRAWN BY: jk
CHECKED BY:
APPROVED BY:

ENSR INTERNATIONAL
20 NEW ENGLAND AVENUE
PISCATAWAY, NEW JERSEY 08854
PHONE: (732) 981–0200
FAX: (732) 981–0116
WEB: HTTP://WWW.ENSR.COM

# SITE PLAN WITH MONITORING & RECOVERY WELL LOCATIONS

INGERSOLL RAND COMPANY
PHILLIPSBURG, NEW JERSEY

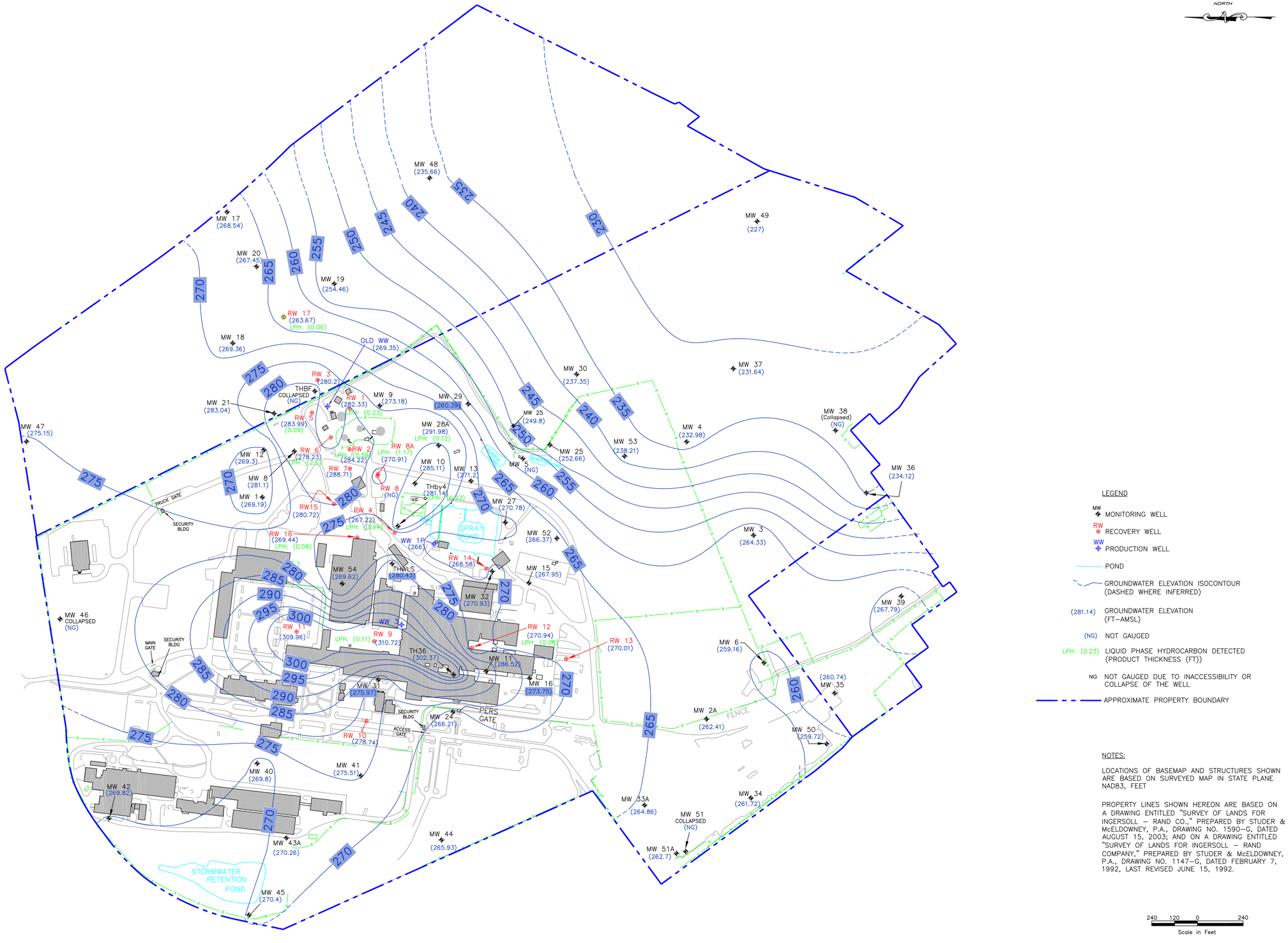
PROJECT NUMBER: 03710–167
DATE: 05/11/05
SCALE: AS SHOWN

FIGURE NUMBER: 2

SHEET NUMBER: 1 of 1

J:\Project\Ingersoll Rand\03710–167\CADD\GW 2005\Site Plan (3).dwg

Piscataway on 'dcPiscataway(J):Project/Ingersoll Rand/03710–167/Cadd/GW 2005/Site Plan (3)




LEGEND

MW — MONITORING WELL

RW — RECOVERY WELL

WW — PRODUCTION WELL

POND

GROUNDWATER ELEVATION ISOCONTOUR (DASHED WHERE INFERRED)

(281.14) GROUNDWATER ELEVATION (FT-AMSL)

(NG) NOT GAUGED

LPH: (0.23) LIQUID PHASE HYDROCARBON DETECTED (PRODUCT THICKNESS (FT))

NG NOT GAUGED DUE TO INACCESSIBILITY OR COLLAPSE OF THE WELL

APPROXIMATE PROPERTY BOUNDARY

NOTES:

LOCATIONS OF BASEMAP AND STRUCTURES SHOWN ARE BASED ON SURVEYED MAP IN STATE PLANE NAD83, FEET

PROPERTY LINES SHOWN HEREON ARE BASED ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND CO.," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1590-G, DATED AUGUST 15, 2003; AND ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND COMPANY," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1147-G, DATED FEBRUARY 7, 1992, LAST REVISED JUNE 15, 1992.

REVISIONS

| NO.: | DESCRIPTION: | DATE: | BY: |
|---|---|---|---|

DESIGNED BY: GMc
DRAWN BY: /JK
CHECKED BY:
APPROVED BY:

ENSR INTERNATIONAL
20 NEW ENGLAND AVENUE
PISCATAWAY, NEW JERSEY 08854
PHONE: (732) 981-0200
FAX: (732) 981-0116
WEB: HTTP://WWW.ENSR.COM

# GROUNDWATER ELEVATION MAP JANUARY 10, 2005

FORMER INGERSOLL RAND COMPANY
PHILLIPSBURG, NEW JERSEY

PROJECT NUMBER: 03710-167
DATE: 05/11/05
SCALE: AS SHOWN

FIGURE NUMBER: 3

SHEET NUMBER: 1 of 1

J:\Project\Ingersoll Rand\03710-167\CADD\GW 2005\Site GWC Jan 2005.dwg

NORTH

WELL ID
DUPLICATE SAMPLE
ANALYTE
SAMPLE DATE
SAMPLE METHOD
PDB SAMPLE DEPTH (Ft)

| MW2A | 1,1 DCE | | | | | |
|---|---|---|---|---|---|---|
| Date | May-02 | Oct-02 | Apr-03 | Oct-03 | Apr-04 | Oct-04 |
| Conv | **4.6** | - | **2.1** | 1.4 | 1.2/1.5 | 0.6 |
| 112 | - | 1.7/1.9 | - | - | - | - |

RESULTS IN ug/L:
**BOLD** INDICATES EXCEEDANCE OF NJDEP GWQS
— = NOT SAMPLED

| Analyte: | | GWQS |
|---|---|---|
| CEth | Chloroethane | 100 |
| CT | Carbon Tetrachloride | 2 |
| 1,1-DCA | 1,1 -Dichloroethane | 50 |
| 1,2-DCA | 1,2-Dichloroethane | 2 |
| 1,1-DCE | 1,1-Dichloroethene | 2 |
| c-1,2-DCE | cis-1,2-Dichloroethene | 70 |
| TCA | 1,1,1 - Trichloroethane | 30 |
| 1,1,2-TCA | 1,1,2 -Trichloroethane | 3 |
| TCE | Trichloroethylene | 1 |
| PCE | Tetrachloroethene | 1 |
| VC | Vinyl Chloride | 5 |

## Legend

- Landfill
- Pond
- Property Boundary
- Fenceline
- Monitoring Well
- Recovery Well
- Production Well
- Former Building Outline and ID
- 17 Current Building Outline and ID
- Area of Product Impact
- (0.12) January 2005 Product Thickness (ft)
- 37 Spill Location*

NOTES:

LOCATIONS OF BASEMAP AND STRUCTURES SHOWN ARE BASED ON SURVEYED MAP IN STATE PLANE NAD83, FEET

PROPERTY LINES SHOWN HEREON ARE BASED ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND CO.," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1590–G, DATED AUGUST 15, 2003; AND ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND COMPANY," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1147–G, DATED FEBRUARY 7, 1992, LAST REVISED JUNE 15, 1992.

*SPILL LOCATIONS ARE ESTIMATED BASED ON THE HISTORICAL INFORMATION AVAILABLE.

| RW16 | TCA | | | | | | 1,1,2 TCA | | | | | | 1,1 DCA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| 121 | **96** | **310** | **66** | **110** | **290** | **68** | (2.8) U | **8.1** | **(6.8) U** | **(3.4) U** | **5.2** | (2.8) U | **460** | **600** | **310** | **310** | **360** | **220** |
| 141.5 | **88** | **400** | **51** | **110** | **170** | **78** | (2.8) U | **7.8** | **(8.5) U** | **(6.8) U** | **(3.4) U** | (2.8) U | **440** | **620** | **140** | **190** | **560** | **250** |

| | 1,1 DCE | | | | | | 1,2 DCA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| 121 | **14** | **33** | **70** | **16** | **26** | **9.8** | **18** | **25** | **48** | **24** | (0.5) U | **15** |
| 141.5 | **12** | **40** | **55** | **(8.6) U** | **18** | **7.2** | **18** | **25** | **44** | **26** | **10** | **14** |

| | CEth | | | | | | PCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| 121 | **1300** | **970** | **2600** | **1200** | **390** | **1100** | **(2.4) U** | **(2.4) U** | **(6.2) U** | **(3.1) U** | **2.5** | **(3.6) U** |
| 141.5 | **1200** | **950** | **2600** | **2800** | **280** | **1000** | **(2.4) U** | **(2.4) U** | **(7.8) U** | **(8.2) U** | **(3.1) U** | **(3.6) U** |

| | TCE | | | | | | VC | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| 121 | **(1.2) U** | **(1.2) U** | **(3.6) U** | **(1.8) U** | **7.4** | **(4) U** | **19** | (2.9) U | **(11) U** | **24** | **21** | **15** |
| 141.5 | **(1.2) U** | **(1.2) U** | **(4.5) U** | **(3.6) U** | **11** | **(4) U** | **20** | (2.9) U | **49** | **(11) U** | **34** | **14** |

| RW14 | 1,1 DCE | | | | | | TCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | May-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | May-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| Conv | (0.3) U | - | - | - | - | - | **1.5** | - | - | - | - | - |
| 118 | - | **3** | 0.9 | 1.3 | 0.8 | 0.8 | - | **2.1** | 0.8 | 0.8 | 0.7 | 0.7 |
| 155 | - | **2.6** | - | - | - | - | - | **2** | - | - | - | - |
| 165 | - | - | 0.9 | 1.9 | 1.7 | 1.8 | - | - | 0.8 | **1.5** | **1.5** | **1.7** |

| MW22 | 1,1 DCE | | | | | | PCE | | | | | | TCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| conv | **2.1/1.5** | - | - | - | - | - | **1.4/1.3** | - | - | - | - | - | **2.4/2.1** | - | - | - | - | - |
| 118 | **3** | **2.5** | 1.1 | 1.9 | 1.6 | 1.8 | 0.6 | 0.6 | 0.5 | 0.5 | 0.6 | 0.5 | **2.4** | **2.1** | **1** | **1.7** | **1.8** | **1.2** |
| 127 | **3.1** | - | - | - | - | - | 0.6 | - | - | - | - | - | **2.5** | - | - | - | - | - |
| 129 | - | **2.9** | 1.2/1.1 | **2** | 1.6 | **2** | - | 0.7 | 0.3/0.5 | 0.7 | 0.6 | 0.5 | - | **2** | **1.2/0.9** | **1.7** | **1.8** | **1.8** |

| RW15 | PCE | | | | | | TCE | | | | | | VC | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| Conv | - | **4.9** | - | - | - | - | - | **9** | - | - | - | - | - | (0.3) U | - | - | - | - |
| 113 | 0.7 | **2.5** | **7.9** | **9.6** | **7.1** | - | **3.1** | **12** | **5.7** | **4.1** | **2.9** | 1.7 | **7.3** | (0.3) U | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| 128 | 0.9 | - | - | - | - | - | **3.4** | - | - | - | - | - | 7.5 | - | - | - | - | - |
| 135 | - | **2.7** | **6.5** | **7.4** | **3.3** | **2.8** | - | **5.6** | **5.4** | **4.5** | **2.7** | **2.4** | - | 4.7 | (0.5) U | (0.5) U | (0.5) U | (0.4) U |
| 142 | 0.7 | - | - | - | - | - | **3.3** | - | - | - | - | - | **6.8** | - | - | - | - | - |
| 155 | - | - | - | **4.9** | **3.5** | - | - | - | - | **4.2** | **2.8** | - | - | - | - | (0.5) U | (0.5) U | - |
| 156 | 0.8 | **2.3** | **5.3** | - | - | **2.5** | **3.2** | **5.8** | **4.9** | - | - | **2.4** | **7.6** | 2.8 | (0.5) U | - | - | (0.4) U |

| MW37 | CT | | | | | | TCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| Conv | **4.6** | - | - | - | - | - | **42** | - | - | - | - | - |
| 60 | - | 1.2 | 1.3 | **2** | 1.8 | 0.8 | - | **17** | **13** | **19** | **17** | **11** |
| 86 | - | **6.2** | **4.6** | **4.4** | 1.8 | 0.7 | - | **62** | **40** | **40** | **18** | **11** |
| 98 | - | **6.5** | **5.1** | **3.7** | 1.8 | **2.5** | - | **64** | **53** | **34** | **19** | **25** |

| MW4 | cis-1,2-DCE | | | | | | PCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | May-02 | Oct-02 | Apr-03 | Oct-03 | Apr-04 | Oct-04 | May-02 | Oct-02 | Apr-03 | Oct-03 | Apr-04 | Oct-04 |
| Conv | **97** | - | - | - | - | - | **14** | - | - | - | - | - |
| 96 | - | **100** | 0.6 | **70** | 0.9 | **69** | - | **7.6** | (0.3) U | **15** | (0.3) U | **7.7** |
| 107 | **89** | - | - | - | - | - | **8.1** | - | - | - | - | - |
| 108 | - | **110** | 1.3 | **82** | 1.1 | **76** | - | **7.9** | 0.5 | **18** | (0.3) U | **8.1** |
| 120 | **87** | **120** | 12 | **84** | 19 | **78** | **7.9** | **7.5** | **4** | **16** | **4.2** | **7.8** |

| | TCE | | | | | | VC | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | May-02 | Oct-02 | Apr-03 | Oct-03 | Apr-04 | Oct-04 | May-02 | Oct-02 | Apr-03 | Oct-03 | Apr-04 | Oct-04 |
| Conv | **31** | | | | | | **34** | | | | | |
| 96 | - | **31** | (0.2) U | **21** | 0.5 | **19** | - | **43** | (0.5) U | **28** | (0.5) U | **33** |
| 107 | **32** | - | - | - | - | - | **26** | - | - | - | - | - |
| 108 | - | **32** | 0.5 | **24** | 0.6 | **20** | - | **47** | (0.5) U | **34** | (0.5) U | **37** |
| 120 | **31** | **33** | **4.9** | **23** | **6.1** | **21** | **26** | **49** | (0.5) U | **34** | 3.6 | **39** |

| MW06 | TCA | | | | | | 1,1 DCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | May-02 | Oct-02 | Apr-03 | Sep-03 | Apr-04 | Oct-04 | May-02 | Oct-02 | Apr-03 | Sep-03 | Apr-04 | Oct-04 |
| Conv | 17 | - | **140** | **80** | - | - | **3** | - | **7.4** | **4.7** | - | - |
| 110 | **57** | **55** | - | - | - | - | **10** | **4.2** | - | - | **4.3** | **4.3** |
| 140 | **55** | - | - | - | - | - | **9.3** | - | - | - | - | - |
| 145 | - | **60** | - | - | **42** | **43** | - | **4.8** | - | - | **4.3** | **4.4** |
| 185 | 25 | - | - | - | - | - | **5.3** | - | - | - | - | - |
| 187 | - | **43** | - | - | 26 | 16 | - | **4.5** | - | - | **3** | 1.7 |

| | PCE | | | | | | TCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | May-02 | Oct-02 | Apr-03 | Sep-03 | Apr-04 | Oct-04 | May-02 | Oct-02 | Apr-03 | Sep-03 | Apr-04 | Oct-04 |
| Conv | 0.4 | - | **3** | **2** | - | - | **1.9** | - | **12** | **6.6** | - | - |
| 110 | 0.5 | **1** | - | - | **1** | 0.8 | **4.9** | **4.4** | - | - | **6** | **5.6** |
| 140 | 0.5 | - | - | - | - | - | **4.6** | - | - | - | - | - |
| 145 | - | 0.6 | - | - | 0.7 | 0.7 | - | **4.8** | - | - | **5.9** | **5.6** |
| 185 | 0.3 | - | - | - | - | - | **2.6** | - | - | - | - | - |
| 187 | - | 0.6 | - | - | 0.6 | (0.4) U | - | **3.8** | - | - | **4** | **2.1** |

| MW15 | PCE | | | | | | TCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Oct-03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Oct-03 | Apr-04 | Oct-04 |
| Conv | **1.2** | - | 0.6 | (0.3) U | 0.5 | 0.9 | **1.5** | - | 0.8 | 0.4 | 0.8 | **1** |
| 120 | - | 0.3 | - | - | - | - | - | **1.2** | - | - | - | - |
| 135 | - | (0.2) U | - | - | - | - | - | **1.2** | - | - | - | - |

| RW13 | PCE | | |
|---|---|---|---|
| Date | May-02 | Oct-02 | Apr-03 |
| Conv | **1.2** | | |
| 115 | - | (0.2) U | (0.2) U |
| 165 | - | (0.3) U | (0.3) U |

| MW2A | 1,1 DCE | | | | | |
|---|---|---|---|---|---|---|
| Date | May-02 | Oct-02 | Apr-03 | Oct-03 | Apr-04 | Oct-04 |
| Conv | **4.6** | - | **2.1** | 1.4 | 1.2/1.5 | 0.6 |
| 112 | - | 1.7/1.9 | - | - | - | - |

| MW25 | TCA | | | | | | 1,1 DCA | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| Conv | **70** | - | - | - | - | - | 19 | - | - | - | - | - |
| 122 | **82** | **140** | **150** | **140** | **100** | **93** | 26 | 41 | **60** | **50** | 34 | 21 |
| 128 | **82** | **81** | **88** | **150** | **71** | **53** | 25 | 22 | 26 | 49 | 21 | 10 |

| | 1,1 DCE | | | | | | PCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| Conv | **12** | - | - | - | - | - | **3.6** | - | - | - | - | - |
| 122 | **16** | **10** | **7.4** | **8.2** | **6.2** | **6.6** | **1.4** | **4.8** | **3.4** | **4.3** | **2.2** | **2.2** |
| 128 | **16** | **7.5** | **5.7** | **9.5** | **4.3** | **4.4** | **2.6** | **3.1** | **2.6** | **6.2** | **2.5** | **1.3** |

| | TCE | | | | | |
|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| Conv | **9.2** | - | - | - | - | - |
| 122 | **11** | **14** | **14** | **14** | **9** | **8.4** |
| 128 | **12** | **9.9** | **9.2** | **12** | **7.1** | **5.9** |

| THWLS | TCA | | | | | | 1,1 DCA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| Conv | 5.5 | - | - | - | - | **140** | - | - | - | - |
| 110 | - | **86** | **120** | **140** | **31** | - | **260** | **280** | **200** | **120** |
| 123 | - | **50** | **35** | **120** | - | - | **250** | **230** | **310** | - |

| | 1,1 DCE | | | | | | 1,2 DCA | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| Conv | **4.4** | - | - | - | - | (0.7) U | - | - | - | - |
| 110 | - | **12** | **19** | **23** | **6.4** | - | 1.4 | 1.6 | (0.5) U | (0.7) U |
| 123 | - | **16** | **14** | **23** | - | - | (1.3) U | **2.4** | (0.5) U | - |

| | CEth | | | | | | TCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| Conv | 35 | - | - | - | - | (0.2) U | - | - | - | - |
| 110 | - | 81 | 94 | **64** | **22** | - | **2.7** | **4.4** | **4.8** | (0.8) U |
| 123 | - | **100** | 87 | 51 | - | - | **2.7** | **2.6** | **4.6** | - |

| | VC | | | | |
|---|---|---|---|---|---|
| Date | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| Conv | **20** | - | - | - | - |
| 110 | - | 4.7 | **14** | **11** | 4.3 |
| 123 | - | **16** | **26** | **14** | - |

| RW11 | PCE | | | | | |
|---|---|---|---|---|---|---|
| Date | May-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| Conv | **4.9** | | | | | |
| 115 | - | **1.9** | **1.2** | **1.3** | **1.1** | **1** |
| 170 | - | (0.2) U | (0.3) U | (0.3) U | (0.3) U | (0.4) U |

| | PCE | | | | | | TCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| 90 | 0.7 | (1.4) U | (0.9) U | 0.7 | 0.5 | 0.4 | - | **290** | **250** | **96** | **110** | **120** |
| 118 | - | (1.4) U | **(2.2) U** | 1 | 0.8 | 0.5 | **310** | **420** | **320** | **160** | **190** | **140** |
| 147 | (0.6) U | (1.4) U | **(2.2) U** | 0.8 | 0.6 | 0.4 | **260** | **390** | **300** | **140** | **150** | **130** |
| 160 | 0.4 | (1.4) U | (0.9) U | **(2.2) U** | 0.6 | (0.3) U | **140** | **140** | 59 | 44 | **140** | 30 |
| 188 | (1.4) U | - | **3.1** | **(2.2) U** | 0.5 | (0.3) U | 27 | - | **320** | (1.2) U | **130** | 0.7 |
| 193 | - | (0.6) U | - | - | - | - | - | **75** | - | - | - | - |

| | PCE | | | | | | TCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| 90 | - | **84** | **56** | **52** | **50** | **53** | | | | | | |
| 118 | **77** | **94** | **70** | **65** | **66** | **69** | | | | | | |
| 147 | **71** | **110** | **78** | **72** | **85** | **72** | | | | | | |
| 160 | **180** | **350** | **300** | **280** | **120** | **150** | | | | | | |
| 188 | **330** | | **350** | **380** | **110** | **160** | | | | | | |
| 193 | - | **200** | - | - | - | - | | | | | | |

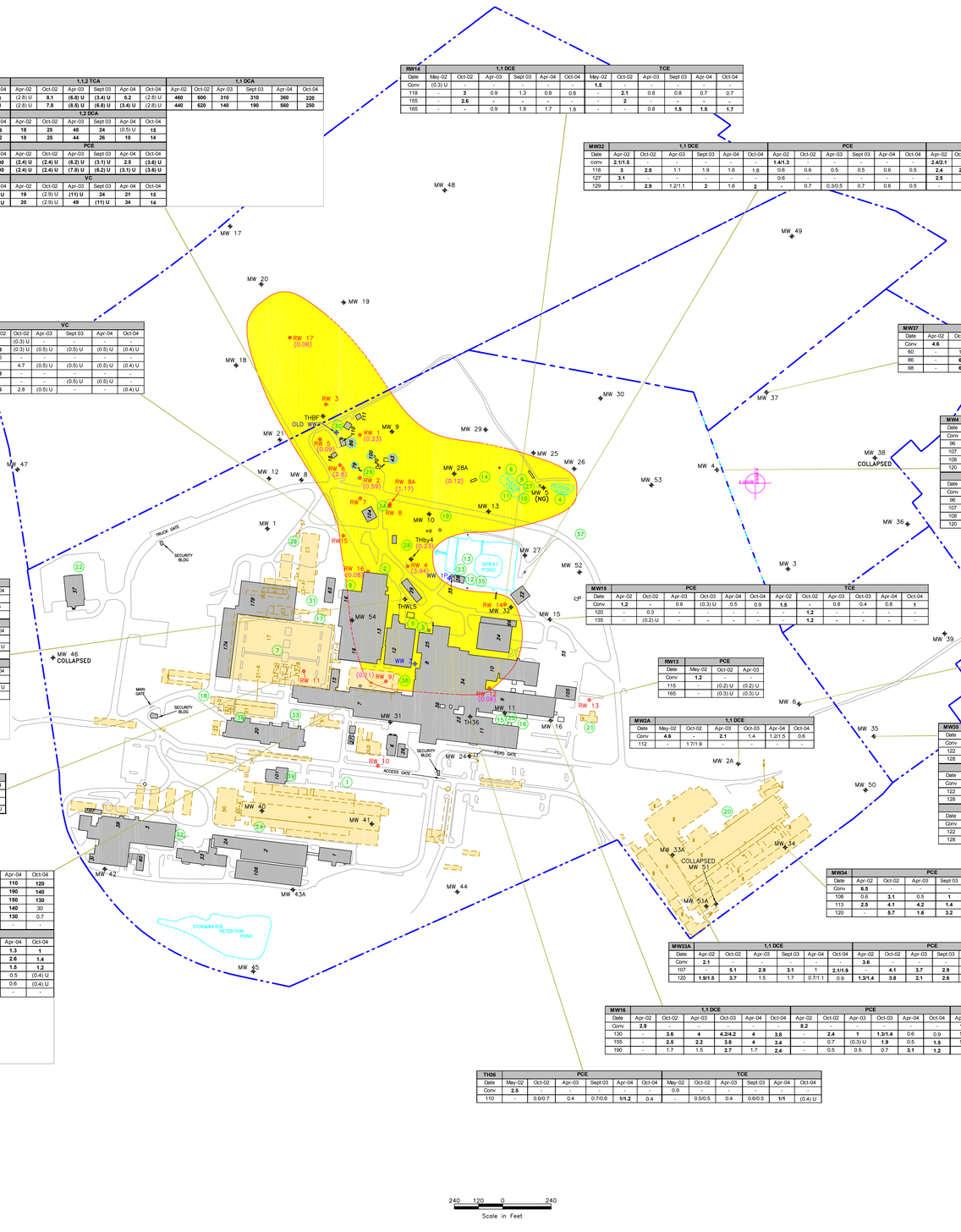
| | VC | | | | | |
|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| 90 | - | **0.9** | - | - | - | - |
| 118 | **1.7** | **1.1** | - | - | - | - |
| 147 | **1.1** | **1.1** | - | - | - | - |
| 160 | **1.1** | **1.1** | - | - | - | - |
| 188 | **1.1** | **1.1** | - | - | - | - |
| 193 | - | **1.1** | - | - | - | - |

| MW34 | PCE | | | | | | TCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| Conv | **6.5** | - | - | - | - | - | **7.1** | - | - | - | - | - |
| 108 | 0.6 | **3.1** | 0.5 | **1** | **1.2** | 0.4 | **2.3** | **4.2** | **1.8** | **2.4** | **3.2** | **1.3** |
| 113 | **2.5** | **4.1** | **4.2** | **1.4** | **1.2** | 0.5 | **7.7** | **4.4** | **7.6** | **2.8** | **3.2** | **1.4** |
| 120 | - | **5.7** | **1.6** | **3.2** | **1.6** | **1.2** | - | **6.5** | **3.4** | **4.9** | **3.8** | **2.4** |

| MW33A | 1,1 DCE | | | | | | PCE | | | | | | TCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| Conv | **2.1** | | | | - | | **3.6** | | | | | | **3.8** | - | - | | | |
| 107 | - | **5.1** | **2.9** | **3.1** | 1 | **2.1/1.9** | - | **4.1** | **3.7** | **2.9** | 0.5 | **1.7/1.8** | - | **9.4** | **8** | **6.5** | **2.2** | **4.7/4.6** |
| 120 | **1.9/1.5** | **3.7** | 1.5 | 1.7 | 0.7/1.1 | 0.9 | **1.3/1.4** | **3.8** | **2.1** | **2.6** | 0.9/0.5 | **1.7** | **3.2/3.1** | **7.3** | **4** | **3.6** | **1.4/2.3** | **2.8** |

| MW16 | 1,1 DCE | | | | | | PCE | | | | | | TCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-02 | Oct-02 | Apr-03 | Oct-03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Oct-03 | Apr-04 | Oct-04 | Apr-02 | Oct-02 | Apr-03 | Oct-03 | Apr-04 | Oct-04 |
| Conv | **2.9** | - | - | - | - | - | **8.2** | - | - | - | - | - | - | - | - | - | - | - |
| 130 | - | **3.6** | **4** | **4.2/4.2** | **4** | **3.8** | - | **2.4** | **1** | **1.3/1.4** | 0.6 | 0.9 | 130 | (0.3) U | (0.5) U | (0.5)U | (0.5) U | (0.4) U |
| 155 | - | **2.5** | **2.2** | **3.8** | **4** | **3.4** | - | 0.7 | (0.3) U | **1.9** | 0.5 | **1.5** | 155 | 0.4 | (0.2) U | 0.7 | 0.4 | 0.7 |
| 190 | - | 1.7 | 1.5 | **2.7** | 1.7 | **2.4** | - | 0.5 | 0.5 | 0.7 | **3.1** | **1.2** | - | (0.1) U | (0.2) U | 0.4 | **1.6** | 0.7 |

| TH36 | PCE | | | | | | TCE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | May-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 | May-02 | Oct-02 | Apr-03 | Sept 03 | Apr-04 | Oct-04 |
| Conv | **2.5** | - | - | - | - | - | | | | | | |
| 110 | - | 0.6/0.7 | 0.4 | 0.7/0.6 | **1/1.2** | 0.4 | - | 0.5/0.5 | 0.4 | 0.6/0.5 | **1/1** | (0.4) U |




## SUMMARY OF SPILL INFORMATION

| Map ID | Concern | Date of original incident | Location |
|---|---|---|---|
| 1 | ~ 20,000 gallons of #2 fuel oil | 1940's | East side of building #4 |
| 2 | 200,000 to 250,000 gallons #2 fuel oil | 1943-1944 | East end of building #13 |
| 3 | 50,000 to 60,000 gallons of #2 fuel oil | 1950's | Leak in pipeline at the east end of building #8A |
| 4 | Unknown contaminate | Prior to September 11, 1967 | Inverse Ponds had high alkalinity and became amber in color |
| 5 | Unknown amount of fuel oil #2 | Prior to 1970 | East of building #12 UST |
| 6 | Unknown amount of waste oil | Prior to July 31, 1970 | Inverse Ponds |
| 7 | Unknown amounts of mineral oil, cutting oils, lubrication oils, greases, etc. | Prior to May 4, 1971 | All of Drill Division |
| 8 | Unknown amounts of cutting oil and caustic wash (est. thousands of gallons) | Prior to August 19, 1975 | Inverse Ponds |
| 9 | ~1 55 gallon drum of bright red oil | September 1 & 2, 1975 | Building #16 |
| 10 | 100+ gallons of synthetic lubricating oil | February 25, 1976 | Inverse Ponds |
| 11 | Unknown amount of oil | Prior to April 28, 1976 | Inverse Ponds |
| 12 | Zinc | Prior to May 27, 1977 | Spray pond |
| 13 | Unknown amount of waste oil | Prior to February 10, 1979 | East end of #17 into the storm sewer and then to the spray pond |
| 14 | Sludge | Prior to August 7, 1980 | Concrete Weir (pit) |
| 15 | Unknown amount of diesel fuel | Prior to January 18, 1982 | Betw een building #9 and #11 |
| 16 | #1 oil of unknown amount | Prior to 1983 | East of building #11 |
| 17 | Unknown amount of waste oil and cutting oils from 2 USTs | Prior to January 1985 | 2 tank excavations of old tanks on east of building #17 |
| 18 | Unknown amount of gasoline | Prior to May 1985 | North of building #21 |
| 19 | 10 to 15 gallons of # 6 fuel oil | May 31, 1985 | Pipe line from oil tank #6 to the Pow erhouse in diked area |
| 20 | Unknown amount of waste oil from Tank D (#33) | Prior to March 12, 1986 | Off the SW corner of building # 253 |
| 21 | Unknown amount pickling and parkerizing operations solution | Prior to September 1986 | Building #91 Ð?ed as "cesspool" on sanitary sew er plans |
| 22 | 1-2 gallons of diesel fuel | Prior to April 30, 1987 | RTO parking area |
| 23 | Sulfuric Acid | Prior to September 30,1987 | Spray pond pH control point (pump house) |
| 24 | Unknown amount of PCBs form used and unused equipment. | Prior to September 30,1987 | Across Foundry |
| 25 | Unknown amount of #2 fuel oil | Prior to October 12, 1987 | Betw een building #9 and #11 |
| 26 | 100 to 150 gallons of Lindo Cure | May 6, 1988 | West end of building #57 |
| 27 | Unknown amount of waste oil | Prior to September 1991 | Inverse Pond on the east side of the plant |
| 28 | 5 gallons #2 fuel oil | August 24, 1994 | 25 feet NW of Transformer Yard and 100 feet East of RW-4 |
| 29 | Unknown amount of fuel oil #6 | Prior to August 25, 1994 | The fuel line connecting the facilities storage tank to the boilers |
| 30 | 5 gallons #2 fuel oil | Prior to September 28, 1994 | 80 feet NE of RW-1 |
| 31 | <1.0 gallon of transformer oil | July 20, 1995 | Leak in pipe line 30 feet south of building #66 |
| 32 | ~ 5 gallons of cutting oil | October 30, 1996 | While loading a piece of machinery the trough spilled onto the ground surface |
| 33 | ~ 1 gallon of diesel fuel | November 25, 1996 | North of building #5 and east of building #20 |
| 34 | ~32 gallons #2 fuel oil | March 25, 1997 | Leak in pipeline at RW-8A |
| 35 | ~2 gallons of oil mixture | June 13, 1997 | Just south of pump house, building #28 |
| 36 | 5 gallons of ethylene glycol | October 16, 1997 | Northeastern side of building #20 |
| 37 | Unknow n Amount of oil | Prior to February 21, 1975 | Old dump area of plant sand fill. |
| 38 | Unknow n amount of Quench Oil | Prior to 1996 | East side of former building #14 |
| 39 | Unknow n amount of #2 fuel oil and core oil | Prior to March 1987 | South of building #101 and East of building #4 |

| REVISIONS | | | |
|---|---|---|---|
| NO. | DESCRIPTION: | DATE: | BY: |

DESIGNED BY: CMG
DRAWN BY: JK
CHECKED BY:
APPROVED BY:


ENSR INTERNATIONAL
20 NEW ENGLAND AVENUE
PISCATAWAY, NEW JERSEY 08854
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# HISTORICAL RELEASE SUMMARY
# HISTORICAL GROUNDWATER RESULTS

INGERSOLL RAND COMPANY
PHILLIPSBURG, NEW JERSEY

PROJECT NUMBER: 03710-167
DATE: 05/11/05
SCALE: AS SHOWN

DRAWING NUMBER: 4

SHEET NUMBER: 1 of 1

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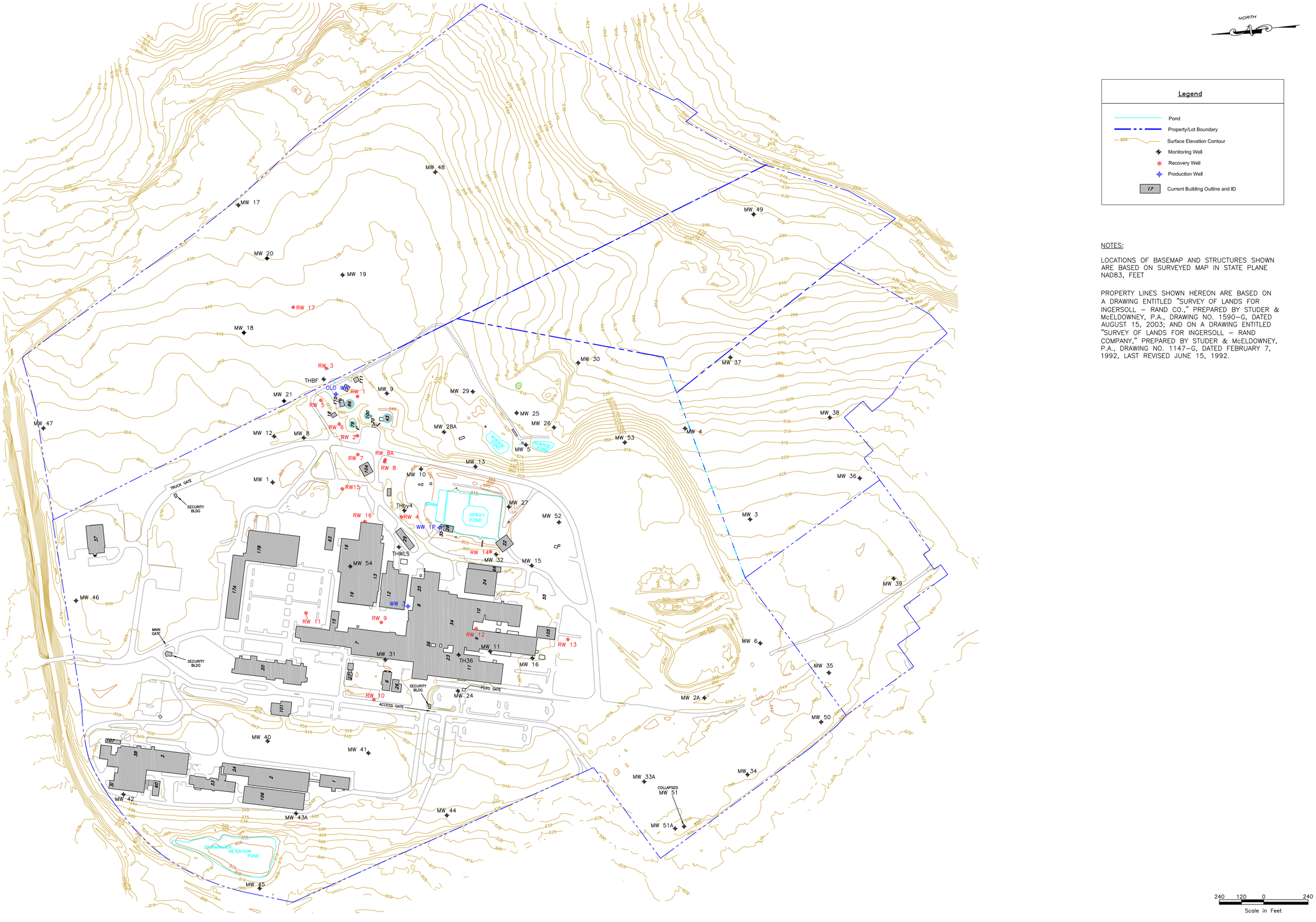



## Legend

- Pond
- Property/Lot Boundary
- Surface Elevation Contour
- Monitoring Well
- Recovery Well
- Production Well
- Current Building Outline and ID

NOTES:

LOCATIONS OF BASEMAP AND STRUCTURES SHOWN ARE BASED ON SURVEYED MAP IN STATE PLANE NAD83, FEET

PROPERTY LINES SHOWN HEREON ARE BASED ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND CO.," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1590–G, DATED AUGUST 15, 2003; AND ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND COMPANY," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1147–G, DATED FEBRUARY 7, 1992, LAST REVISED JUNE 15, 1992.

| REVISIONS | | | |
|---|---|---|---|
| NO.: | DESCRIPTION: | DATE: | BY: |

DESIGNED BY: GMi
DRAWN BY: /jk
CHECKED BY:
APPROVED BY:

ENSR INTERNATIONAL
20 NEW ENGLAND AVENUE
PISCATAWAY, NEW JERSEY 08854
PHONE: (732) 981–0200
FAX: (732) 981–0116
WEB: HTTP://WWW.ENSR.COM

# SURFACE ELEVATION CONTOUR MAP

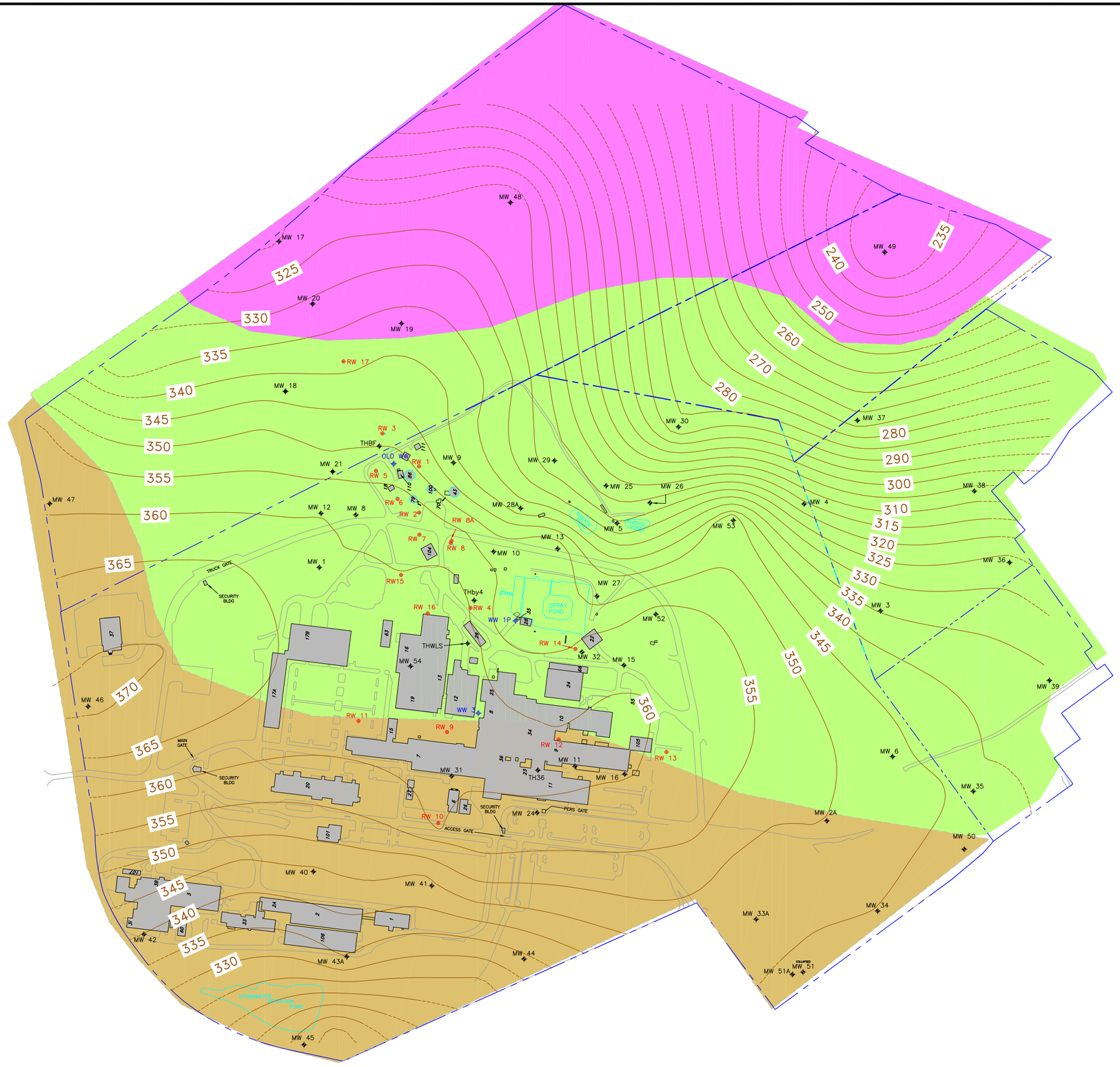
FORMER INGERSOLL RAND COMPANY
PHILLIPSBURG, NEW JERSEY

SCALE: AS SHOWN
DATE: 05/11/05
PROJECT NUMBER: 03710–167

FIGURE NUMBER: 5

SHEET NUMBER: 1 of 1

J:\Project\Ingersoll Rand\03710-167\CADD\GW 2005\Surf Ele Contour.dwg




## Legend

- POND
- PROPERTY BOUNDARY
- BEDROCK ELEVATION CONTOUR (DASHED WHERE INFERRED)
- MONITORING WELL
- RECOVERY WELL
- PRODUCTION WELL
- 17 CURRENT BUILDING OUTLINE AND ID
- EPLER FORMATION - LIMESTONE/DOLOMITE
- RICKENBACH FORMATION - DOLOMITE
- ALLENTOWN FORMATION - DOLOMITE

NOTES:

LOCATIONS OF BASEMAP AND STRUCTURES SHOWN ARE BASED ON SURVEYED MAP IN STATE PLANE NAD83, FEET

PROPERTY LINES SHOWN HEREON ARE BASED ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND CO.," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1590–G, DATED AUGUST 15, 2003; AND ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND COMPANY," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1147–G, DATED FEBRUARY 7, 1992, LAST REVISED JUNE 15, 1992.

BEDROCK GEOLOGY SOURCE: NJDEP GIS RESOURCE CD–ROM SERIES 1 VOLUME 3 (1996)

240 120 0 240
Scale in Feet

| REVISIONS | | | |
|---|---|---|---|
| NO.: | DESCRIPTION: | DATE: | BY: |

DESIGNED BY: GM
DRAWN BY: /jk
CHECKED BY:
APPROVED BY:

ENSR INTERNATIONAL
20 NEW ENGLAND AVENUE
PISCATAWAY, NEW JERSEY 08854
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FAX: (732) 981–0116
WEB: HTTP://WWW.ENSR.COM

# BEDROCK ELEVATION CONTOUR FEBRUARY 2005

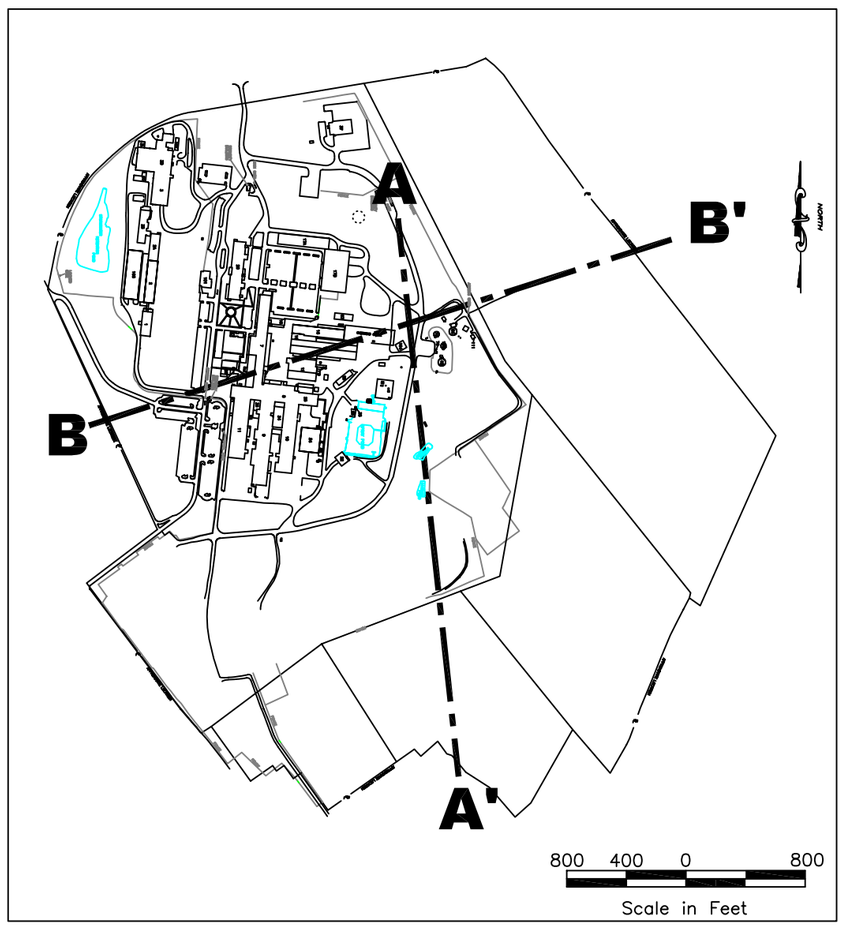
FORMER INGERSOLL RAND COMPANY
PHILLIPSBURG, NEW JERSEY

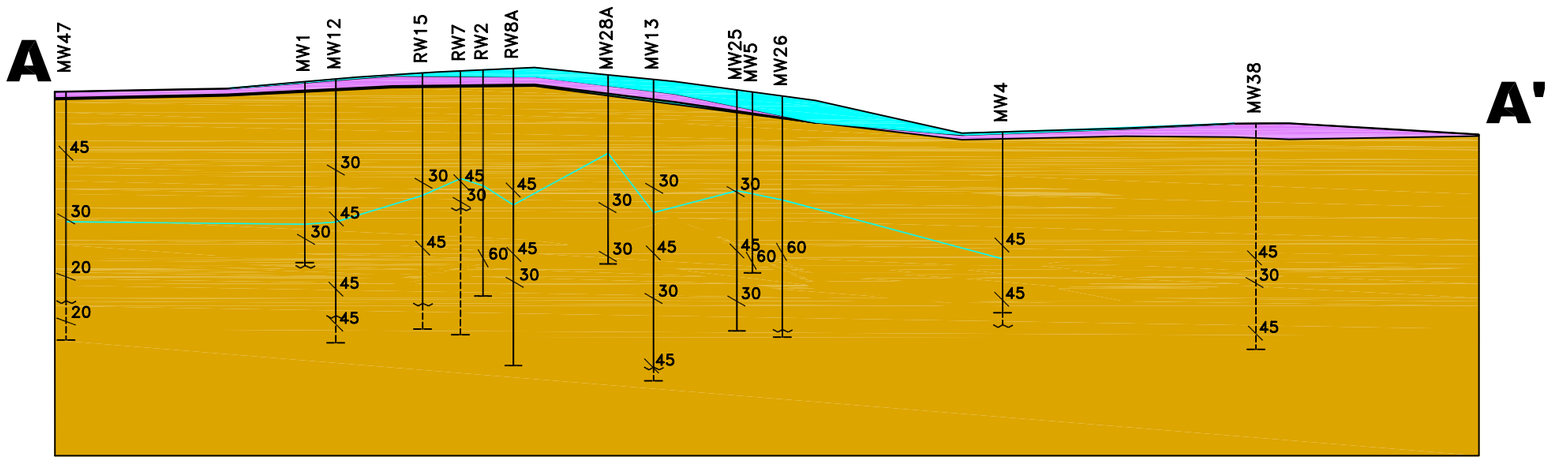
SCALE: AS SHOWN
DATE: 05/12/05
PROJECT NUMBER: 03710–167

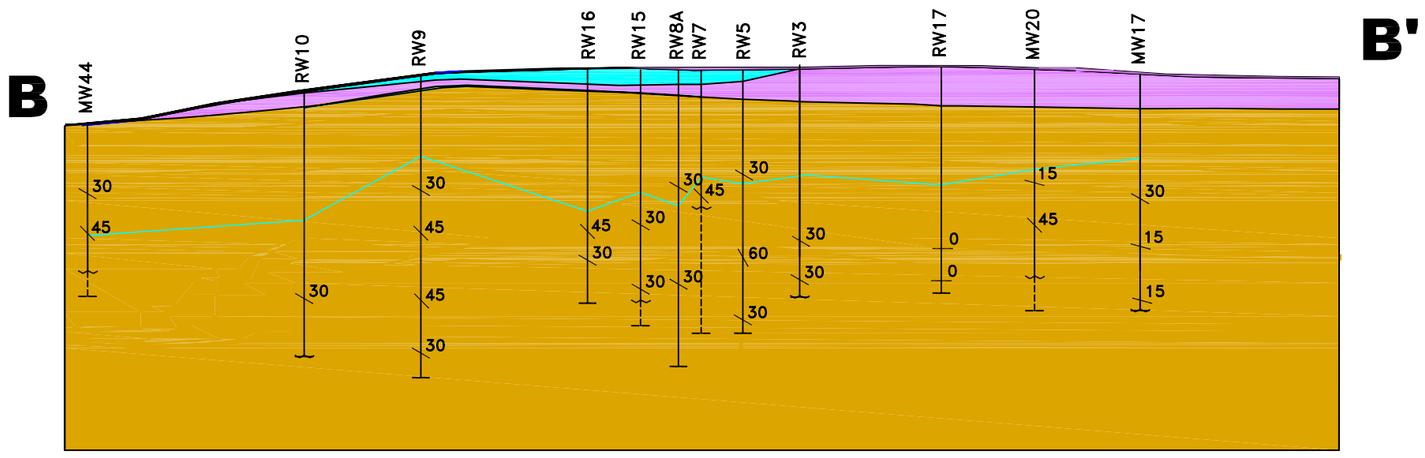
FIGURE NUMBER: 6

SHEET NUMBER: 1 of 1

J:\Project\Ingersoll Rand\03710–167\CADD\Feb05.br contour.dwg




Legend

- Fracture and Angle to Nearest 5°
- Fill
- Native Overburden
- Bedrock
- Collapsed Portion of Well
- Original Well Depth More Shallow Than Most Recent Well Depth
- Groundwater Table

NOTES:

CROSS-SECTIONS WERE GENERATED USING ENSR'S INTERPRETED GEOLOGIC DATABASE AND EVS® VERSION 5.75.

WELLS LOCATIONS ARE APPROXIMATE.

FRACTURE PROJECTIONS DISPLAY APPARENT FRACTURE DIP ANGLES ADJUSTED TO THE VIEWING PLANE OF THE CROSS-SECTIONS, AND ARE NOT TRUE DIP ANGLES.

**HORIZONTAL SCALE**
Scale in Feet
0 250 500 1000

**VERTICAL SCALE**
Scale In Feet
0 50 100

J:\Project\Ingersoll Rand\03710-167\CADD\GW 2005\X-Section Fractures.dwg

FIGURE NUMBER: 7

SHEET NUMBER: 1 of 1

# GEOLOGIC CROSS SECTIONS WITH SELECT FRACTURE PROJECTIONS

FORMER INGERSOLL RAND FACILITY
PHILLIPSBURG, NEW JERSEY

| SCALE: | DATE: | PROJECT NUMBER: |
|---|---|---|
| AS SHOWN | 05/12/05 | 03710-167 |

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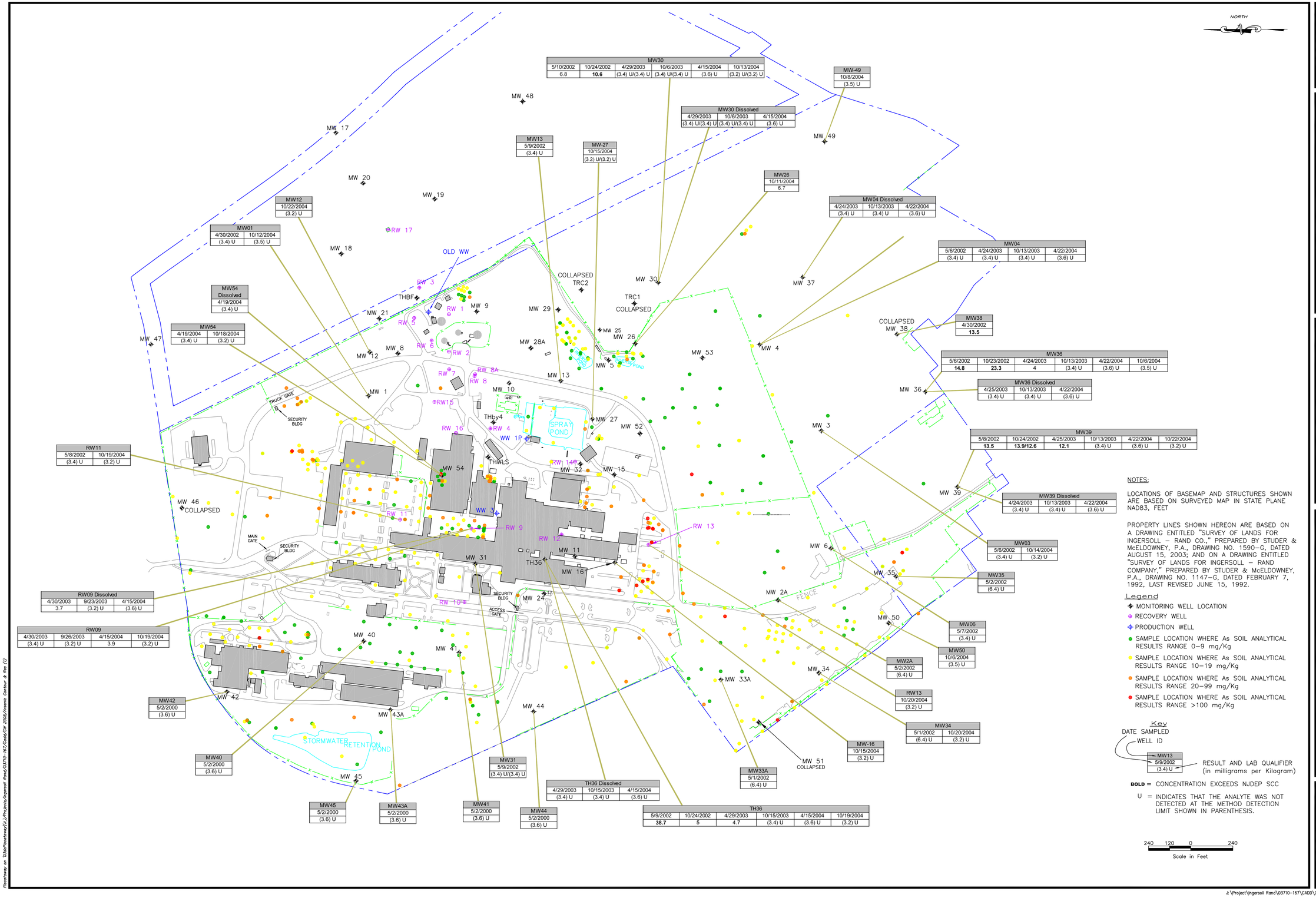
DESIGNED BY: SMcC
DRAWN BY: GM/jk
CHECKED BY:
APPROVED BY:

REVISIONS

| NO.: | DESCRIPTION: | DATE: | BY: |
|---|---|---|---|




NOTES:

LOCATIONS OF BASEMAP AND STRUCTURES SHOWN ARE BASED ON SURVEYED MAP IN STATE PLANE NAD83, FEET

PROPERTY LINES SHOWN HEREON ARE BASED ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND CO.," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1590–G, DATED AUGUST 15, 2003; AND ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND COMPANY," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1147–G, DATED FEBRUARY 7, 1992, LAST REVISED JUNE 15, 1992.

Legend

- MONITORING WELL LOCATION
- RECOVERY WELL
- PRODUCTION WELL
- SAMPLE LOCATION WHERE As SOIL ANALYTICAL RESULTS RANGE 0–9 mg/Kg
- SAMPLE LOCATION WHERE As SOIL ANALYTICAL RESULTS RANGE 10–19 mg/Kg
- SAMPLE LOCATION WHERE As SOIL ANALYTICAL RESULTS RANGE 20–99 mg/Kg
- SAMPLE LOCATION WHERE As SOIL ANALYTICAL RESULTS RANGE >100 mg/Kg

Key

DATE SAMPLED
WELL ID
MW13 | 5/9/2002 | (3.4) U — RESULT AND LAB QUALIFIER (in milligrams per Kilogram)

**BOLD** = CONCENTRATION EXCEEDS NJDEP SCC

U = INDICATES THAT THE ANALYTE WAS NOT DETECTED AT THE METHOD DETECTION LIMIT SHOWN IN PARENTHESIS.

| NO: | DESCRIPTION: | DATE: | BY: |
|---|---|---|---|
| | | | |

REVISIONS

DESIGNED BY: GMC
DRAWN BY: JK
CHECKED BY:
APPROVED BY:

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# ARSENIC CONCENTRATIONS IN SOIL AND GROUNDWATER

FORMER INGERSOLL RAND COMPANY
PHILLIPSBURG, NEW JERSEY

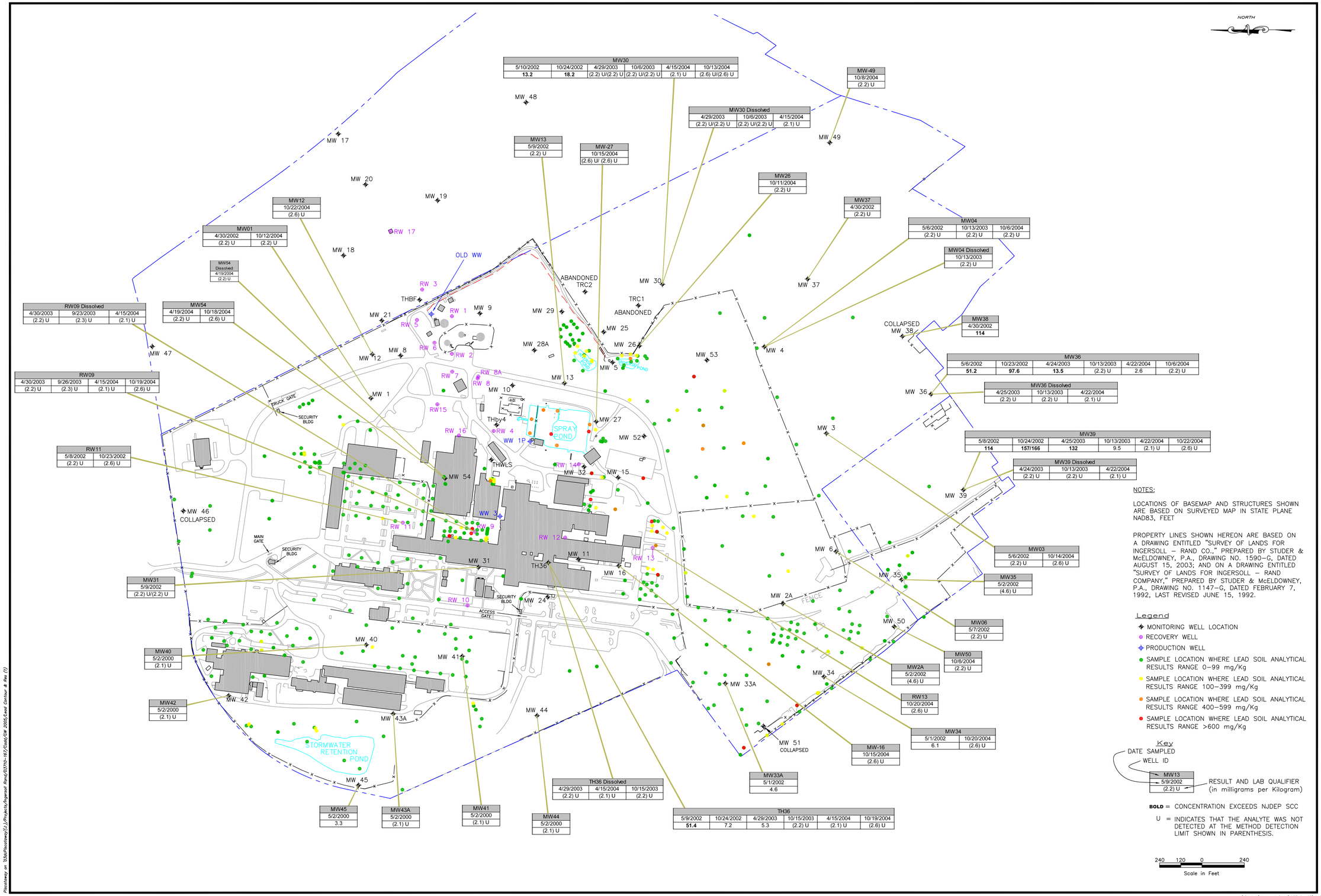
PROJECT NUMBER: 03710–167
DATE: 05/13/05
SCALE: AS SHOWN

FIGURE NUMBER: 8

SHEET NUMBER: 1 of 1

J:\Project\Ingersoll Rand\03710-167\CADD\GW 2005\Arsenic Contour & Res (1).dwg

Plototmey on 13:Sol\Plototmey(1.)\Projects\Ingersoll Rand\03710-167\Field\GW 2005\Arsenic Contour & Res (1)




NOTES:

LOCATIONS OF BASEMAP AND STRUCTURES SHOWN ARE BASED ON SURVEYED MAP IN STATE PLANE NAD83, FEET

PROPERTY LINES SHOWN HEREON ARE BASED ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND CO.," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1590–G, DATED AUGUST 15, 2003; AND ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND COMPANY," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1147–G, DATED FEBRUARY 7, 1992, LAST REVISED JUNE 15, 1992.

Legend

- MONITORING WELL LOCATION
- RECOVERY WELL
- PRODUCTION WELL
- SAMPLE LOCATION WHERE LEAD SOIL ANALYTICAL RESULTS RANGE 0–99 mg/Kg
- SAMPLE LOCATION WHERE LEAD SOIL ANALYTICAL RESULTS RANGE 100–399 mg/Kg
- SAMPLE LOCATION WHERE LEAD SOIL ANALYTICAL RESULTS RANGE 400–599 mg/Kg
- SAMPLE LOCATION WHERE LEAD SOIL ANALYTICAL RESULTS RANGE >600 mg/Kg

Key

DATE SAMPLED
WELL ID

| MW13 |
|---|
| 5/9/2002 |
| (2.2) U |

RESULT AND LAB QUALIFIER (in milligrams per Kilogram)

**BOLD** = CONCENTRATION EXCEEDS NJDEP SCC

U = INDICATES THAT THE ANALYTE WAS NOT DETECTED AT THE METHOD DETECTION LIMIT SHOWN IN PARENTHESIS.

240 120 0 240
Scale in Feet

| REVISIONS | | | |
|---|---|---|---|
| NO. | DESCRIPTION: | DATE: | BY: |

DESIGNED BY: GMc
DRAWN BY: JK
CHECKED BY:
APPROVED BY:

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# LEAD CONCENTRATIONS

FORMER INGERSOLL RAND COMPANY
PHILLIPSBURG, NEW JERSEY

SCALE: AS SHOWN
DATE: 05/13/05
PROJECT NUMBER: 03710-167

FIGURE NUMBER: 9

SHEET NUMBER: 1 of 1

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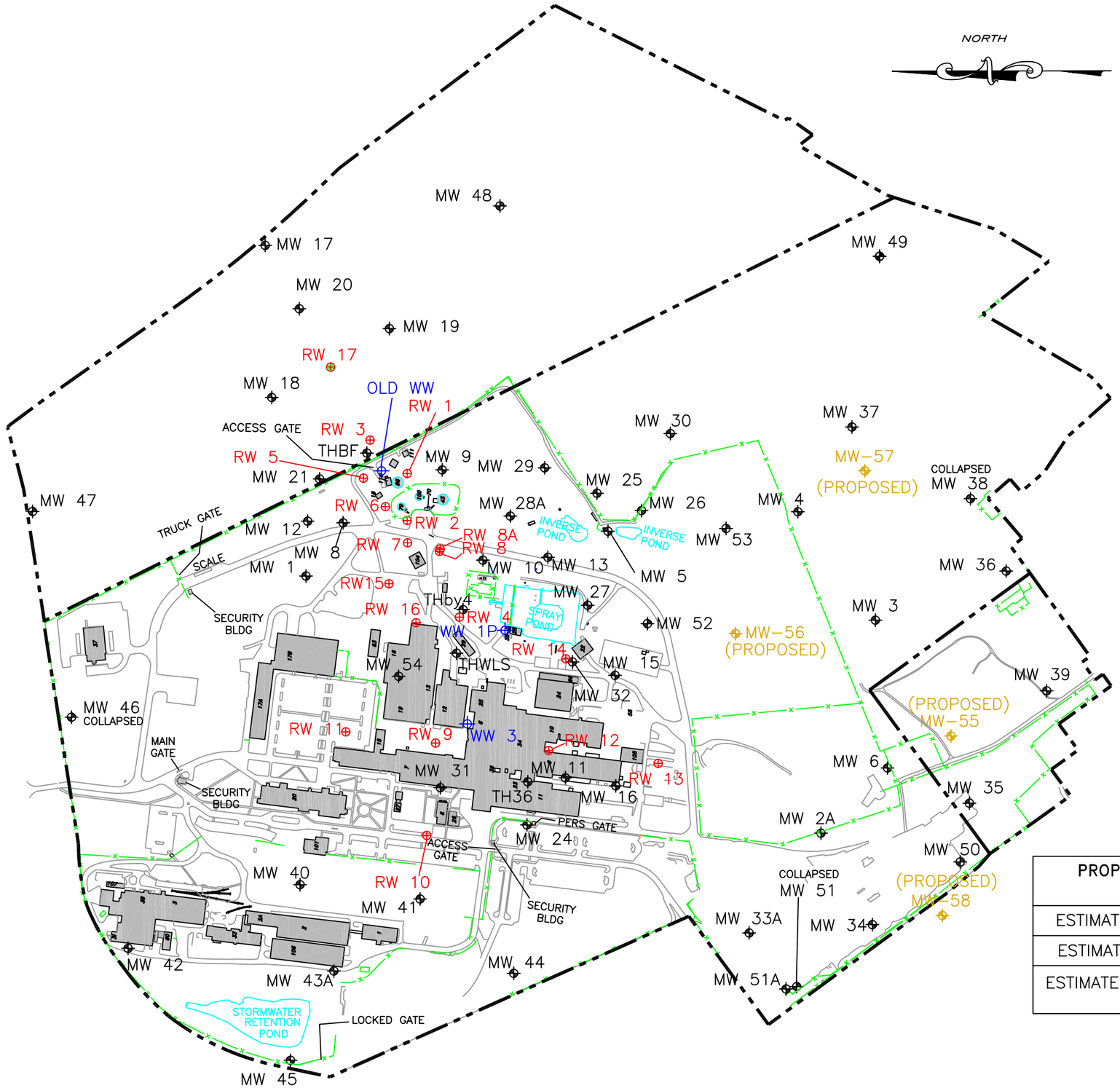
Rieckhoff on "J:\Rieckhoff\J:\Projects\Ingersoll Rand\03710-167\Cadd\GW 2005\Lead Contour & Res (1)




## LEGEND

- Landfill
- MW — Monitoring Well
- MW — Proposed Well Location
- RW — Recovery Well
- WW — Production Well
- Pond
- Fenceline
- Approximate Property Boundary

## NOTES:

LOCATIONS OF BASEMAP AND STRUCTURES SHOWN ARE BASED ON SURVEYED MAP IN STATE PLANE NAD83, FEET

PROPERTY LINES SHOWN HEREON ARE BASED ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND CO.," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1590–G, DATED AUGUST 15, 2003; AND ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL – RAND COMPANY," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1147–G, DATED FEBRUARY 7, 1992, LAST REVISED JUNE 15, 1992.

MAPPED WELL LOCATIONS ARE APPROXIMATE.

MW–58 LOCATION TO BE DETERMINED.

| PROPOSED WELL LOCATION CONSTRUCTION | MW–55 | MW–56 | MW–57 |
|---|---|---|---|
| ESTIMATED SURFACE ELEVATION | 345' | 359' | 299' |
| ESTIMATED COMPLETION DEPTH | 500' to 700' | | |
| ESTIMATED LEGENTH OF SLOTTED STEELCASING | 25' | 25' | 25' |

500 250 0 500

Scale in Feet

| REVISIONS | | | |
|---|---|---|---|
| NO.: | DESCRIPTION: | DATE: | BY: |

DESIGNED BY: GW
DRAWN BY: /jk
CHECKED BY:
APPROVED BY:

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# PROPOSED DEEP WELL LOCATIONS

FORMER INGERSOLL RAND COMPANY
PHILLIPSBURG, NEW JERSEY

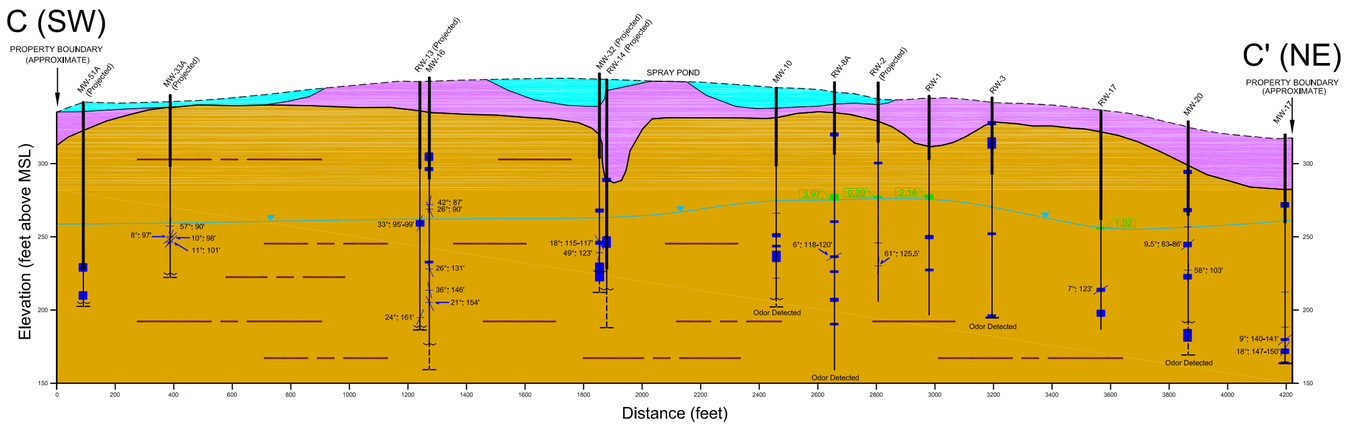
SCALE: AS SHOWN
DATE: 05/13/05
PROJECT NUMBER: 03710–162

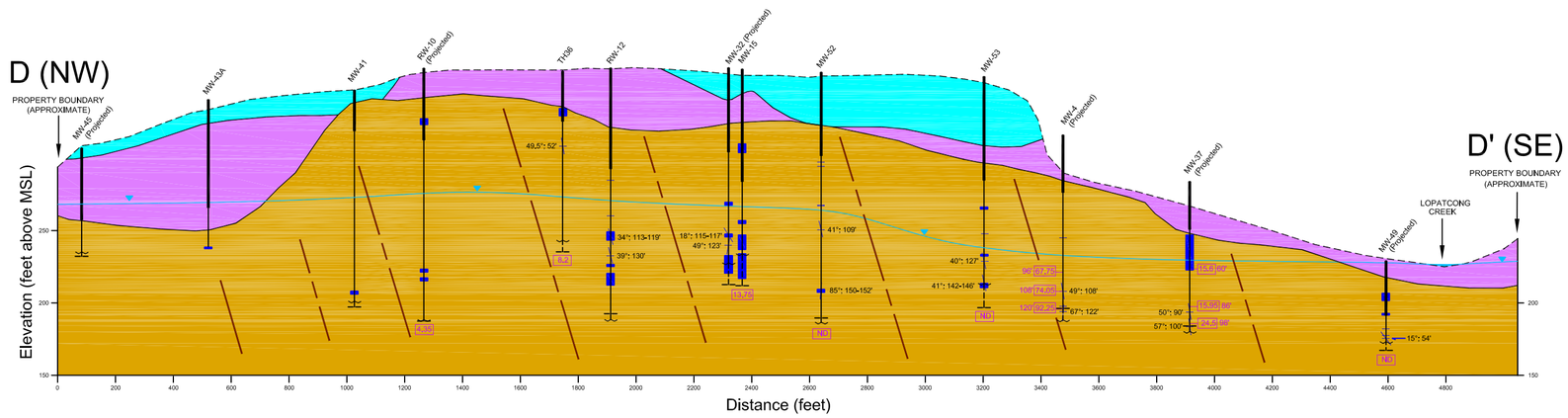
FIGURE NUMBER: 10

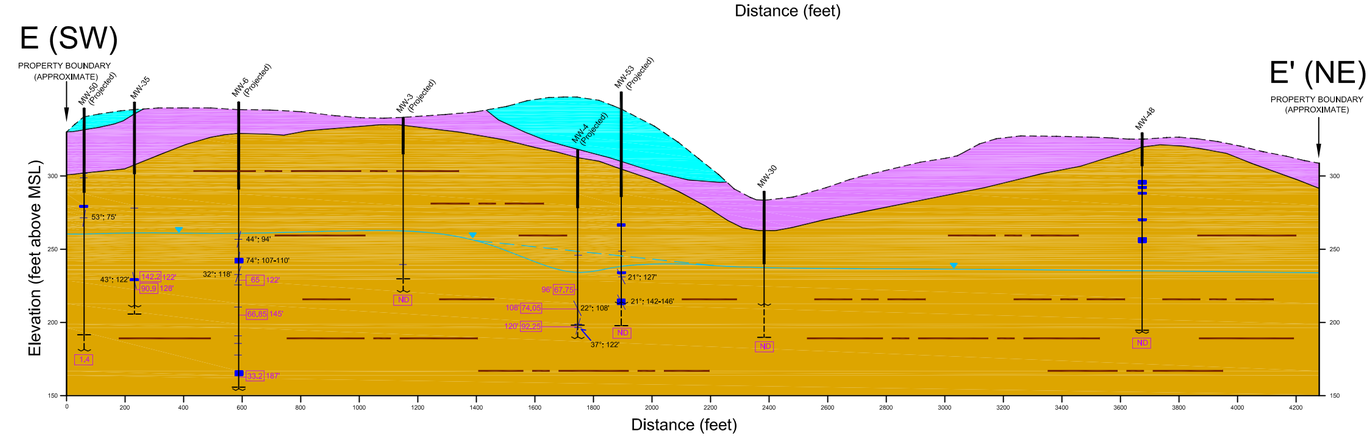
SHEET NUMBER: 1 of 1

J:\Project\Ingersoll Rand\03710–167\CADD\GW 2005\Prop Dp Well Loc(2004).dwg

Piscataway on 'dcPiscataway'(J:)/Project/Ingersoll Rand/03710–162/Cadd/Prop Dp Well Loc (2004)




Legend:

- Casing
- Open borehole
- Fracture zone or void
- Fracture; angle and depth indicated
- Collapsed portion of well
- Original well depth more shallow than most recent well depth
- Thickness of free product; average thickness for 2003 & 2004
- CVOC concentration (ug/l); average concentration for 2003 & 2004; Value under well indicates conventional sample; PDB samples indicated by depth in feet
- Water level (feet above msl); C-C' shows average of 2003 & 2004 measurements; D-D' & E-E' show average of 2004 measurements
- Estimated water level along cross-section line adjusted for projection of MW-4 and MW-53.
- General fracture orientation
- Fill
- Native overburden
- Bedrock

Notes:

1. Cross sections were generated from driller's geologic logs, borehole geophysical data and ENSR's interpreted geologic database.

2. Well locations are approximate.

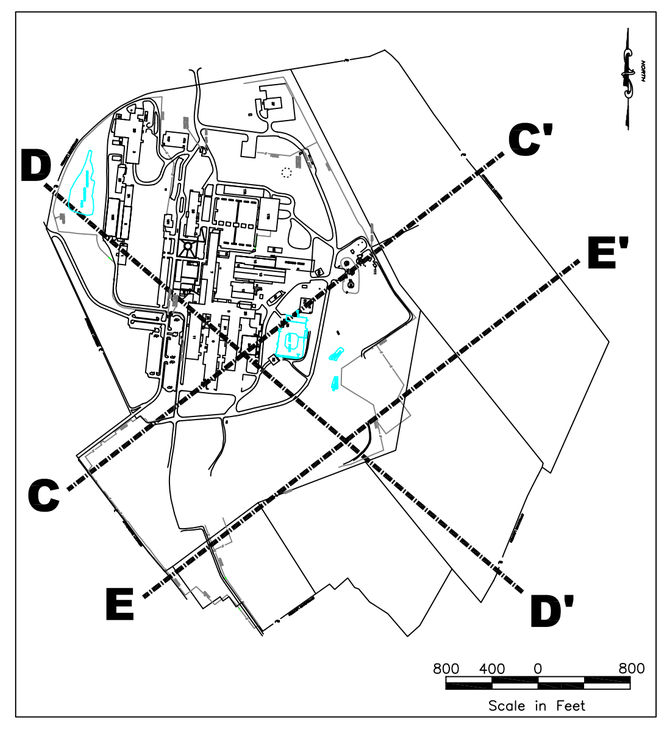
3. Fracture projections display apparent fracture dip angles adjusted to the viewing plane of the cross section and are not true dip angles. Fracture dips are also corrected to reflect the 5:1 vertical exaggeration.

4. MW-51A is a perforated steel casing from 115-140 feet below ground surface.

5. PDB - Passive Diffusion Bag

**HORIZONTAL SCALE**
Scale in Feet
0 200 400 800

**VERTICAL SCALE**
Scale In Feet
0 40 80




| REVISIONS | | | |
|---|---|---|---|
| NO.: | DESCRIPTION: | DATE: | BY: |

| DESIGNED BY: | DRAWN BY: | CHECKED BY: | APPROVED BY: |
|---|---|---|---|
| GM | PS\lc | | |

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# GEOLOGIC CROSS SECTIONS WITH SELECT FRACTURE PROJECTIONS

FORMER INGERSOLL-RAND FACILITY
PHILLIPSBURG, NEW JERSEY

| SCALE: | DATE: | PROJECT NUMBER: |
|---|---|---|
| AS SHOWN | 08/17/05 | 03710-167 |

FIGURE NUMBER: **11**

SHEET NUMBER: **1 of 1**

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Piscataway on '03dcPiscataway'(J)-Project/Ingersoll Rand/03710-167/CADD/GW 2005/IR xsec CDE(1)

# APPENDICES

# APPENDIX A

**Summary of Analytical Results for October 2004**

**APPENDIX A**
**Summary of October 2004 Analytical Results: PDB Sampling (VOC)**
Former Ingersoll-Rand
Phillipsburg, New Jersey

| **Field ID** | | | **MW04A** | **MW04B** | **MW04C** | **MW06A** | **MW06B** | **MW06C** | **MW12A** | **MW12B** | **MW16A** | **MW16AA** | **MW16B** | **MW16C** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 569962 | 569963 | 569964 | 569975 | 569976 | 569977 | 569980 | 569981 | 569956 | 569959 | 569957 | 569958 |
| **Depth** | | | 96 | 108 | 120 | 110 | 145 | 187 | 110 | 126 | 130 | 130 | 155 | 190 |
| **Sample Date** | | | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 |
| **Sample Time** | | | 8:45 | 8:50 | 8:55 | 11:10 | 11:15 | 11:20 | 11:45 | 11:50 | 10:30 | 10:50 | 10:35 | 10:40 |
| **Volatile Organic Compounds (via EPA Method 624)** | | | | | | | | | | | | | | |
| | **CAS_RN** | **GWQS** | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 0.5 | (0.3) U | 0.5 | **43** | **43** | 16 | (0.3) U | (0.3) U | 5.3 | 5.6 | 5.6 | 4.4 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | 1.2 | 1.3 | 1.2 | 11 | 12 | 4.1 | (0.4) U | (0.4) U | 4.5 | 4.5 | 4 | 3.3 |
| 1,1-Dichloroethylene | 75-35-4 | 2 | 0.6 | 0.6 | 0.6 | **4.3** | **4.4** | 1.7 | (0.3) U | (0.3) U | **3.8** | **3.7** | **3.4** | **2.4** |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| 2-Chloroethyl Vinyl Ether | 110-75-8 | 100 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Benzene | 71-43-2 | 1 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromodichloromethane | 75-27-4 | 1 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromoform | 75-25-2 | 4 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromomethane | 74-83-9 | 10 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Chlorobenzene | 108-90-7 | 50 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Chloroform | 67-66-3 | 6 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Chloromethane | 74-87-3 | 30 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | 69 | **76** | **78** | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | 0.4 |
| cis-1,3-Dichloropropene | 10061-01-5 | NA | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Dibromochloromethane | 124-48-1 | 10 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U |
| Ethylbenzene | 100-41-4 | 700 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Methylene Chloride | 75-09-2 | 3 | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U |
| Tetrachloroethene | 127-18-4 | 1 | **7.7** | **8.1** | **7.8** | 0.8 | 0.7 | (0.4) U | (0.4) U | (0.4) U | 0.9 | 0.9 | **1.5** | **1.2** |
| Toluene | 108-88-3 | 1000 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | 1.1 | 0.5 | (0.3) U | (0.3) U | 0.5 | 0.6 | 0.7 | 1.8 |
| Total Xylenes | 1330-20-7 | 1000 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | 0.4 | 0.5 | 0.5 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| trans-1,3-Dichloropropene | 10061-02-6 | NA | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Trichloroethylene | 79-01-6 | 1 | **19** | **20** | **21** | **5.6** | **5.6** | **2.1** | (0.4) U | (0.4) U | 0.4 | 0.5 | 0.7 | 0.7 |
| Trichlorofluoromethane | 75-69-4 | 2000 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Vinyl Chloride | 75-01-4 | 5 | **33** | **37** | **39** | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Total VOCs | -- | -- | 131.4 | 143.5 | 148.6 | 64.7 | 66.8 | 24.4 | ND | ND | 15.4 | 15.8 | 15.9 | 14.2 |
| Total Tics | -- | 100/500 | ND | ND | ND | ND | ND | 7.7 | ND | ND | ND | ND | ND | ND |

**NOTES:**
All results are reported in micrograms per liter (µg/L).
CAS_RN = Chemical Abstracts Service Registry Number.
Sample IDs ending in "P" indicate that it is a duplicate sample.
NJDEP GWQS = New Jersey Department of Environmental Protection
Limit shown in parentheses.
**Bold** indicates that the concentration exceeds the NJDEP GWQS.
-- Indicates that the analyte was not analyzed for.

**APPENDIX A**
**Summary of October 2004 Analytical Results: PDB Sampling (VOC)**
Former Ingersoll-Rand
Phillipsburg, New Jersey

| **Field ID** | | | **MW32A** | **MW32B** | **MW33AA** | **MW33AB** | **MW33APA** | **MW34A** | **MW34B** | **MW34C** | **MW35A** | **MW35B** | **MW37A** | **MW37B** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 569978 | 569979 | 569952 | 569953 | 569954 | 569972 | 569973 | 569974 | 569968 | 569969 | 569965 | 569966 |
| **Depth** | | | 118 | 129 | 107 | 120 | 107 | 108 | 118 | 120 | 122 | 128 | 60 | 86 |
| **Sample Date** | | | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 |
| **Sample Time** | | | 11:30 | 11:40 | 10:10 | 10:10 | 10:20 | 9:45 | 9:48 | 9:50 | 9:40 | 9:35 | 9:30 | 9:32 |
| **Volatile Organic Compounds (via EPA Method 624)** | | | | | | | | | | | | | | |
| | **CAS_RN** | **GWQS** | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 4.7 | 4.9 | 3.5 | 2 | 3.4 | 1.7 | 1.7 | 1.7 | **93** | **53** | (0.3) U | (0.3) U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | 8.8 | 8.8 | 0.6 | 0.5 | 0.5 | (0.4) U | (0.4) U | (0.4) U | 21 | 10 | (0.4) U | (0.4) U |
| 1,1-Dichloroethylene | 75-35-4 | 2 | 1.8 | **2** | **2.1** | 0.9 | 1.9 | (0.3) U | (0.3) U | 0.4 | **6.6** | **4.4** | (0.3) U | (0.3) U |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| 2-Chloroethyl Vinyl Ether | 110-75-8 | 100 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Benzene | 71-43-2 | 1 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromodichloromethane | 75-27-4 | 1 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromoform | 75-25-2 | 4 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromomethane | 74-83-9 | 10 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | 0.8 | 0.7 |
| Chlorobenzene | 108-90-7 | 50 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Chloroform | 67-66-3 | 6 | 0.4 | 0.4 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Chloromethane | 74-87-3 | 30 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | 2.5 | 2.6 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | 0.8 | 0.4 | (0.4) U | (0.4) U | (0.4) U |
| cis-1,3-Dichloropropene | 10061-01-5 | NA | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Dibromochloromethane | 124-48-1 | 10 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U |
| Ethylbenzene | 100-41-4 | 700 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Methylene Chloride | 75-09-2 | 3 | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U |
| Tetrachloroethene | 127-18-4 | 1 | 0.5 | 0.5 | **1.7** | **1.7** | **1.8** | 0.4 | 0.5 | **1.2** | **2.2** | **1.3** | (0.4) U | (0.4) U |
| Toluene | 108-88-3 | 1000 | 0.5 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | 0.3 | (0.3) U |
| Total Xylenes | 1330-20-7 | 1000 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| trans-1,3-Dichloropropene | 10061-02-6 | NA | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Trichloroethylene | 79-01-6 | 1 | **1.7** | **1.8** | **4.7** | **2.8** | **4.6** | **1.3** | **1.4** | **2.4** | **8.4** | **5.9** | **11** | **11** |
| Trichlorofluoromethane | 75-69-4 | 2000 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Vinyl Chloride | 75-01-4 | 5 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Total VOCs | -- | -- | 2ND.9 | 21 | 12.6 | 7.9 | 12.2 | 3.4 | 3.6 | 6.5 | 131.6 | 74.6 | 12.1 | 11.7 |
| Total Tics | -- | 100/500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**NOTES:**
All results are reported in micrograms per liter (µg/L).
CAS_RN = Chemical Abstracts Service Registry Number.
Sample IDs ending in "P" indicate that it is a duplicate sample.
NJDEP GWQS = New Jersey Department of Environmental Protection
Limit shown in parentheses.
**Bold** indicates that the concentration exceeds the NJDEP GWQS.
-- Indicates that the analyte was not analyzed for.

**APPENDIX A**
**Summary of October 2004 Analytical Results: PDB Sampling (VOC)**
Former Ingersoll-Rand
Phillipsburg, New Jersey

| **Field ID** | | | **MW37C** | **RW09A** | **RW09B** | **RW09C** | **RW09D** | **RW09E** | **RW11A** | **RW11B** | **RW14A** | **RW14B** | **RW15A** | **RW15B** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 569967 | 569992 | 569993 | 569994 | 569995 | 569996 | 569982 | 569983 | 569970 | 569971 | 569984 | 569985 |
| **Depth** | | | 98 | 90 | 118 | 147 | 160 | 188 | 115 | 170 | 118 | 165 | 113 | 135 |
| **Sample Date** | | | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 |
| **Sample Time** | | | 9:35 | 15:15 | 15:20 | 15:22 | 15:25 | 15:28 | 13:25 | 13:30 | 11:25 | 11:35 | 13:40 | 13:45 |
| **Volatile Organic Compounds (via EPA Method 624)** | | | | | | | | | | | | | | |
| | **CAS_RN** | **GWQS** | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | 1 | 4.2 | 0.8 | 0.9 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | 3.5 | 8.5 | (0.4) U | 0.4 |
| 1,1-Dichloroethylene | 75-35-4 | 2 | (0.3) U | 0.4 | 0.5 | 0.4 | (0.3) U | (0.3) U | (0.3) U | 0.6 | 0.8 | 1.8 | (0.3) U | (0.3) U |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| 2-Chloroethyl Vinyl Ether | 110-75-8 | 100 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Benzene | 71-43-2 | 1 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromodichloromethane | 75-27-4 | 1 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromoform | 75-25-2 | 4 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromomethane | 74-83-9 | 10 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Carbon tetrachloride | 56-23-5 | 2 | 2.5 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Chlorobenzene | 108-90-7 | 50 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Chloroform | 67-66-3 | 6 | 0.4 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | 0.3 | (0.3) U | (0.3) U |
| Chloromethane | 74-87-3 | 30 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | (0.4) U | **120** | **140** | **130** | 30 | 0.7 | (0.4) U | (0.4) U | 1 | 2.4 | 3.5 | 4.8 |
| cis-1,3-Dichloropropene | 10061-01-5 | NA | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Dibromochloromethane | 124-48-1 | 10 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U |
| Ethylbenzene | 100-41-4 | 700 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Methylene Chloride | 75-09-2 | 3 | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U |
| Tetrachloroethene | 127-18-4 | 1 | (0.4) U | 0.4 | 0.5 | (0.4) U | (0.4) U | (0.4) U | **1** | (0.4) U | (0.4) U | (0.4) U | **4.5** | **2.8** |
| Toluene | 108-88-3 | 1000 | (0.3) U | 0.4 | (0.3) U | (0.3) U | 0.5 | (0.3) U | 0.9 | 1.2 | 0.5 | 0.8 | (0.3) U | 0.9 |
| Total Xylenes | 1330-20-7 | 1000 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.3) U | (0.3) U | 0.4 | 0.4 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| trans-1,3-Dichloropropene | 10061-02-6 | NA | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Trichloroethylene | 79-01-6 | 1 | **25** | **1** | **1.4** | **1.2** | (0.4) U | (0.4) U | (0.4) U | (0.4) U | 0.7 | **1.7** | **1.7** | **2.4** |
| Trichlorofluoromethane | 75-69-4 | 2000 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Vinyl Chloride | 75-01-4 | 5 | (0.4) U | 63 | 69 | 72 | 150 | 160 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Total VOCs | -- | -- | 27.9 | 185.2 | 211.8 | 2ND4 | 18ND.5 | 16ND.7 | 1.9 | 1.8 | 7.5 | 19.7 | 1ND.5 | 12.2 |
| Total Tics | -- | 100/500 | ND | 19.8 | 11 | 11.7 | ND | ND | ND | ND | ND | ND | ND | ND |

**NOTES:**
All results are reported in micrograms per liter (µg/L).
CAS_RN = Chemical Abstracts Service Registry Number.
Sample IDs ending in "P" indicate that it is a duplicate sample.
NJDEP GWQS = New Jersey Department of Environmental Protection
Limit shown in parentheses.
**Bold** indicates that the concentration exceeds the NJDEP GWQS.
-- Indicates that the analyte was not analyzed for.

**APPENDIX A**
**Summary of October 2004 Analytical Results: PDB Sampling (VOC)**
Former Ingersoll-Rand
Phillipsburg, New Jersey

| **Field ID** | | | **RW15C** | **RW16A** | **RW16B** | **TH36A** | **THWLSA** |
|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 569986 | 569987 | 569988 | 569989 | 569990 |
| **Depth** | | | 156 | 121 | 141.5 | 110 | 110 |
| **Sample Date** | | | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 | 10/4/2004 |
| **Sample Time** | | | 13:50 | 13:55 | 14:00 | 14:30 | 14:52 |
| **Volatile Organic Compounds (via EPA Method 624)** | | | | | | | |
| | **CAS_RN** | **GWQS** | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | 0.8 | **68** | **78** | 2.5 | **31** |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1 | (0.5) U | **(4.6) U** | **(4.6) U** | (0.5) U | (0.9) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (2.8) U | (2.8) U | (0.3) U | (0.6) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | 0.5 | **220** | **250** | 4 | **120** |
| 1,1-Dichloroethylene | 75-35-4 | 2 | (0.3) U | **9.8** | **7.2** | (0.3) U | **6.4** |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | **15** | **14** | (0.4) U | (0.7) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | **(3.7) U** | **(3.7) U** | (0.4) U | (0.7) U |
| 2-Chloroethyl Vinyl Ether | 110-75-8 | 100 | (0.4) U | (3.6) U | (3.6) U | (0.4) U | (0.7) U |
| Benzene | 71-43-2 | 1 | (0.3) U | **(3.1) U** | **(3.1) U** | (0.3) U | (0.6) U |
| Bromodichloromethane | 75-27-4 | 1 | (0.3) U | **(2.9) U** | **(2.9) U** | (0.3) U | (0.6) U |
| Bromoform | 75-25-2 | 4 | (0.3) U | (2.7) U | (2.7) U | (0.3) U | (0.5) U |
| Bromomethane | 74-83-9 | 10 | (0.3) U | (3.3) U | (3.3) U | (0.3) U | (0.7) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | **(3) U** | **(3) U** | (0.3) U | (0.6) U |
| Chlorobenzene | 108-90-7 | 50 | (0.3) U | (2.6) U | (2.6) U | (0.3) U | (0.5) U |
| Chloroethane | 75-00-3 | 100 | (0.4) U | **1100** | **1000** | (0.4) U | 22 |
| Chloroform | 67-66-3 | 6 | (0.3) U | (3.4) U | (3.4) U | (0.3) U | (0.7) U |
| Chloromethane | 74-87-3 | 30 | (0.4) U | (3.8) U | (3.8) U | (0.4) U | (0.8) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | 5 | (3.5) U | (3.5) U | (0.4) U | 1.4 |
| cis-1,3-Dichloropropene | 10061-01-5 | NA | (0.3) U | (2.7) U | (2.7) U | (0.3) U | (0.5) U |
| Dibromochloromethane | 124-48-1 | 10 | (0.2) U | (2.1) U | (2.1) U | (0.2) U | (0.4) U |
| Ethylbenzene | 100-41-4 | 700 | (0.3) U | (3.3) U | (3.3) U | (0.3) U | (0.7) U |
| Methylene Chloride | 75-09-2 | 3 | (0.9) U | **(9.1) U** | **(9.1) U** | (0.9) U | (1.8) U |
| Tetrachloroethene | 127-18-4 | 1 | **2.5** | **(3.6) U** | **(3.6) U** | 0.4 | (0.7) U |
| Toluene | 108-88-3 | 1000 | 0.8 | (2.7) U | 3 | (0.3) U | (0.5) U |
| Total Xylenes | 1330-20-7 | 1000 | (0.2) U | (1.8) U | (1.8) U | (0.2) U | (0.4) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.3) U | (3.3) U | (3.3) U | (0.3) U | (0.7) U |
| trans-1,3-Dichloropropene | 10061-02-6 | NA | (0.4) U | (3.5) U | (3.5) U | (0.4) U | (0.7) U |
| Trichloroethylene | 79-01-6 | 1 | **2.4** | **(4) U** | **(4) U** | (0.4) U | (0.8) U |
| Trichlorofluoromethane | 75-69-4 | 2000 | (0.4) U | (3.5) U | (3.5) U | (0.4) U | (0.7) U |
| Vinyl Chloride | 75-01-4 | 5 | (0.4) U | **15** | **14** | (0.4) U | 4.3 |
| Total VOCs | -- | -- | 12 | 1427.8 | 1366.2 | 6.9 | 185.1 |
| Total Tics | -- | 100/500 | ND | ND | ND | ND | ND |

**NOTES:**
All results are reported in micrograms per liter (µg/L).
CAS_RN = Chemical Abstracts Service Registry Number.
Sample IDs ending in "P" indicate that it is a duplicate sample.
NJDEP GWQS = New Jersey Department of Environmental Protection
Limit shown in parentheses.
**Bold** indicates that the concentration exceeds the NJDEP GWQS.
-- Indicates that the analyte was not analyzed for.

**APPENDIX A**
**Summary of October 2004 Analytical Results: Conventional Sampling (VOC)**
Former Ingersoll-Rand
Phillipsburg, New Jersey

| **Field ID** | | | **MW01** | **MW02A** | **MW03** | **MW13** | **MW15** | **MW18** | **MW19** | **MW20** | **MW24** | **MW26** | **MW27** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 572350 | 576532 | 574008 | 574009 | 574575 | 570693 | 571861 | 571862 | 572349 | 572346 | 574012 |
| **Depth** | | | 100 | 130 | 80 | 105 | 100 | 90 | 90 | 85 | 100 | 90 | 85 |
| **Sample Date** | | | 10/12/2004 | 10/21/2004 | 10/14/2004 | 10/14/2004 | 10/18/2004 | 10/6/2004 | 10/7/2004 | 10/7/2004 | 10/12/2004 | 10/11/2004 | 10/15/2004 |
| **Sample Time** | | | 15:25 | 13:45 | 10:20 | 16:24 | 15:30 | 15:30 | 11:40 | 15:15 | 12:00 | 15:25 | 15:15 |
| **Volatile Organic Compounds (via EPA Method 624)** | | | | | | | | | | | | | |
| | **CAS_RN** | **GWQS** | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | (0.3) U | 5.1 | (0.3) U | (0.3) U | 3.5 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | 5.8 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| 1,1-Dichloroethylene | 75-35-4 | 2 | (0.3) U | 0.6 | (0.3) U | (0.3) U | 1.2 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| 2-Chloroethyl Vinyl Ether | 110-75-8 | 100 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Benzene | 71-43-2 | 1 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromodichloromethane | 75-27-4 | 1 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromoform | 75-25-2 | 4 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromomethane | 74-83-9 | 10 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Chlorobenzene | 108-90-7 | 50 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Chloroform | 67-66-3 | 6 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | 0.3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Chloromethane | 74-87-3 | 30 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | 3.9 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| cis-1,3-Dichloropropene | 10061-01-5 | NA | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Dibromochloromethane | 124-48-1 | 10 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U |
| Ethylbenzene | 100-41-4 | 700 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Methylene Chloride | 75-09-2 | 3 | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U |
| Tetrachloroethene | 127-18-4 | 1 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | 0.9 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Toluene | 108-88-3 | 1000 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Total Xylenes | 1330-20-7 | 1000 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| trans-1,3-Dichloropropene | 10061-02-6 | NA | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Trichloroethylene | 79-01-6 | 1 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | **1** | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Trichlorofluoromethane | 75-69-4 | 2000 | (0.4) U | 1.2 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Vinyl Chloride | 75-01-4 | 5 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Total VOCs | -- | -- | ND | 6.9 | ND | ND | 16.6 | ND | ND | ND | ND | ND | ND |
| Total TICs | -- | 100/500 | ND | ND | ND | ND | ND | ND | ND | 5 | ND | 53.7 | ND |

**NOTES:**
All results are reported in micrograms per liter (µg/L).
CAS_RN = Chemical Abstracts Service Registry Number.
Sample IDs ending in "P" indicate that it is a duplicate sample.
NJDEP GWQS = New Jersey Department of Environmental Protection
Limit shown in parentheses.
**Bold** indicates that the concentration exceeds the NJDEP GWQS.
-- Indicates that the analyte was not analyzed for.

**APPENDIX A**
**Summary of October 2004 Analytical Results: Conventional Sampling (VOC)**
Former Ingersoll-Rand
Phillipsburg, New Jersey

| **Field ID** | | | **MW27P** | **MW30** | **MW30P** | **MW47** | **MW48** | **MW49** | **MW50** | **MW52** | **MW53** | **MW54** | **RW10** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 574013 | 574005 | 574006 | 574004 | 571863 | 571867 | 570692 | 571865 | 571866 | 574574 | 570689 |
| **Depth** | | | 85 | 60 | 60 | 105 | 117 | 6 | 95 | 100 | 125 | 115 | 150 |
| **Sample Date** | | | 10/15/2004 | 10/13/2004 | 10/13/2004 | 10/13/2004 | 10/7/2004 | 10/8/2004 | 10/6/2004 | 10/8/2004 | 10/8/2004 | 10/18/2004 | 10/5/2004 |
| **Sample Time** | | | 15:20 | 13:30 | 13:35 | 10:50 | 15:35 | 15:40 | 16:20 | 10:55 | 14:10 | 14:40 | 16:00 |
| **Volatile Organic Compounds (via EPA Method 624)** | | | | | | | | | | | | | |
| | **CAS_RN** | **GWQS** | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 30 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | 1.4 | (0.3) U | (0.3) U | 1.7 | 4.1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1 | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U | (0.5) U |
| 1,1,2-Trichloroethane | 79-00-5 | 3 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| 1,1-Dichloroethane | 75-34-3 | 50 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | 0.8 | (0.4) U |
| 1,1-Dichloroethylene | 75-35-4 | 2 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | 0.4 | 0.6 |
| 1,2-Dichloroethane | 107-06-2 | 2 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| 1,2-Dichloropropane | 78-87-5 | 1 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| 2-Chloroethyl Vinyl Ether | 110-75-8 | 100 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Benzene | 71-43-2 | 1 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromodichloromethane | 75-27-4 | 1 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromoform | 75-25-2 | 4 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Bromomethane | 74-83-9 | 10 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Carbon tetrachloride | 56-23-5 | 2 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Chlorobenzene | 108-90-7 | 50 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Chloroethane | 75-00-3 | 100 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Chloroform | 67-66-3 | 6 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Chloromethane | 74-87-3 | 30 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| cis-1,2-Dichloroethene | 156-59-2 | 70 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| cis-1,3-Dichloropropene | 10061-01-5 | NA | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Dibromochloromethane | 124-48-1 | 10 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U |
| Ethylbenzene | 100-41-4 | 700 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Methylene Chloride | 75-09-2 | 3 | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U | (0.9) U |
| Tetrachloroethene | 127-18-4 | 1 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Toluene | 108-88-3 | 1000 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Total Xylenes | 1330-20-7 | 1000 | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U | (0.2) U |
| Trans-1,2-Dichloroethene | 156-60-5 | 100 | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| trans-1,3-Dichloropropene | 10061-02-6 | NA | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Trichloroethylene | 79-01-6 | 1 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Trichlorofluoromethane | 75-69-4 | 2000 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Vinyl Chloride | 75-01-4 | 5 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Total VOCs | -- | -- | ND | ND | ND | ND | ND | ND | 1.4 | ND | ND | 2.9 | 4.7 |
| Total TICs | -- | 100/500 | ND | ND | ND | 69.5 | ND | ND | ND | ND | ND | ND | ND |

**NOTES:**
All results are reported in micrograms per liter (µg/L).
CAS_RN = Chemical Abstracts Service Registry Number.
Sample IDs ending in "P" indicate that it is a duplicate sample.
NJDEP GWQS = New Jersey Department of Environmental Protection
Limit shown in parentheses.
**Bold** indicates that the concentration exceeds the NJDEP GWQS.
-- Indicates that the analyte was not analyzed for.

**APPENDIX A**
**Summary of October 2004 Analytical Results: Metals**
Former Ingersoll-Rand
Phillipsburg, New Jersey

| **Field ID** | | | **MW01** | **MW03** | **MW04** | **MW12** | **MW16** | **MW26** | **MW27** | **MW27P** | **MW30** | **MW30P** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 572350 | 574008 | 570691 | 576534 | 574010 | 572346 | 574012 | 574013 | 574005 | 574006 |
| **Depth** | | | 100 | 80 | 95 | 127 | 150 | 90 | 85 | 85 | 60 | 60 |
| **Sample Date** | | | 10/12/2004 | 10/14/2004 | 10/6/2004 | 10/22/2004 | 10/15/2004 | 10/11/2004 | 10/15/2004 | 10/15/2004 | 10/13/2004 | 10/13/2004 |
| **Sample Time** | | | 15:25 | 10:20 | 10:34 | 9:30 | 11:42 | 15:25 | 15:15 | 15:20 | 13:30 | 13:35 |
| **Metals (Via EPA 200.7, 245.1)** | | | | | | | | | | | | |
| | CAS_RN | GWQS | | | | | | | | | | |
| Antimony | 7440-36-0 | 20 | (3.9) U | (5.8) U | (3.9) U | (5.8) U | (5.8) U | (3.9) U | 6 | (5.8) U | (5.8) U | (5.8) U |
| Arsenic | 7440-38-2 | 8 | (3.5) U | (3.2) U | (3.5) U | (3.2) U | (3.2) U | 6.7 | (3.2) U | (3.2) U | (3.2) U | (3.2) U |
| Beryllium | 7440-41-7 | 20 | (0.1) U | (0.3) U | (0.1) U | (0.3) U | (0.3) U | (0.1) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Cadmium | 7440-43-9 | 4 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Chromium | 7440-47-3 | 100 | 3.1 | 4.4 | (2.8) U | (1.6) U | (1.6) U | (2.8) U | 2.8 | 2.4 | 2.3 | 2 |
| Copper | 7440-50-8 | 1000 | (3.1) U | 4 | 5 | (3.7) U | (3.7) U | (3.1) U | (3.7) U | (3.7) U | 3.8 | (3.7) U |
| Lead | 7439-92-1 | 10 | (2.2) U | (2.6) U | (2.2) U | (2.6) U | (2.6) U | (2.2) U | (2.6) U | (2.6) U | (2.6) U | (2.6) U |
| Mercury | 7439-97-6 | 2 | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U |
| Nickel | 7440-02-0 | 100 | (3.9) U | 3.8 | (3.9) U | (2.4) U | (2.4) U | (3.9) U | 3 | 2.7 | 2.7 | 2.6 |
| Selenium | 7782-49-2 | 50 | (4.7) U | (4.2) U | (4.7) U | (4.2) U | (4.2) U | (4.7) U | (4.2) U | (4.2) U | (4.2) U | (4.2) U |
| Silver | 7440-22-4 | NA | (0.8) U | (1.4) U | (0.8) U | (1.4) U | (1.4) U | (0.8) U | (1.4) U | (1.4) U | (1.4) U | (1.4) U |
| Thallium | 7440-28-0 | 10 | (4.4) U | (4.7) U | (4.4) U | (4.7) U | (4.7) U | (4.4) U | (4.7) U | (4.7) U | (4.7) U | (4.7) U |
| Zinc | 7440-66-6 | 5000 | 13.6 | 7.2 | 6.3 | (5.8) U | 7.2 | 7.5 | 9.7 | 8.6 | 12.3 | 9.5 |

**NOTES:**
All results are reported in micrograms per liter (µg/L).
CAS_RN = Chemical Abstracts Service Registry Number.
Sample IDs ending in "P" indicate that it is a duplicate sample.
NJDEP GWQS = New Jersey Department of Environmental
Detection Limit shown in parentheses.
**Bold** indicates that the concentration exceeds the NJDEP
-- Indicates that the analyte was not analyzed for.

**APPENDIX A**
**Summary of October 2004 Analytical Results: Metals**
Former Ingersoll-Rand
Phillipsburg, New Jersey

| **Field ID** | | | **MW34** | **MW36** | **MW39** | **MW49** | **MW50** | **MW54** | **RW09** | **RW11** | **RW13** | **TH36** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID** | | | 576530 | 570694 | 576536 | 571867 | 570692 | 574574 | 574578 | 574577 | 576529 | 574580 |
| **Depth** | | | 100 | 110 | 133 | 6 | 95 | 115 | 119 | 120 | 130 | 110 |
| **Sample Date** | | | 10/20/2004 | 10/6/2004 | 10/22/2004 | 10/8/2004 | 10/6/2004 | 10/18/2004 | 10/19/2004 | 10/19/2004 | 10/20/2004 | 10/19/2004 |
| **Sample Time** | | | 15:00 | 13:00 | 13:00 | 15:40 | 16:20 | 14:40 | 11:40 | 9:25 | 11:40 | 14:40 |
| **Metals (Via EPA 200.7, 245.1)** | | | | | | | | | | | | |
| | CAS_RN | GWQS | | | | | | | | | | |
| Antimony | 7440-36-0 | 20 | (5.8) U | (3.9) U | (5.8) U | (3.9) U | (3.9) U | (5.8) U | (5.8) U | (5.8) U | (5.8) U | (5.8) U |
| Arsenic | 7440-38-2 | 8 | (3.2) U | (3.5) U | (3.2) U | (3.5) U | (3.5) U | (3.2) U | (3.2) U | (3.2) U | (3.2) U | (3.2) U |
| Beryllium | 7440-41-7 | 20 | (0.3) U | (0.1) U | (0.3) U | (0.1) U | (0.1) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U | (0.3) U |
| Cadmium | 7440-43-9 | 4 | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U | (0.4) U |
| Chromium | 7440-47-3 | 100 | 2.7 | (2.8) U | 21.3 | (2.8) U | 3.8 | (1.6) U | (1.6) U | 68.7 | 9.9 | 12.1 |
| Copper | 7440-50-8 | 1000 | (3.7) U | (3.1) U | (3.7) U | 6.4 | 9.4 | (3.7) U | (3.7) U | (3.7) U | (3.7) U | (3.7) U |
| Lead | 7439-92-1 | 10 | (2.6) U | (2.2) U | (2.6) U | (2.2) U | (2.2) U | (2.6) U | (2.6) U | (2.6) U | (2.6) U | (2.6) U |
| Mercury | 7439-97-6 | 2 | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U | (0.1) U |
| Nickel | 7440-02-0 | 100 | (2.4) U | (3.9) U | 15.6 | 12.9 | (3.9) U | (2.4) U | (2.4) U | (2.4) U | 3.2 | 9.4 B |
| Selenium | 7782-49-2 | 50 | (4.2) U | (4.7) U | (4.2) U | (4.7) U | (4.7) U | (4.2) U | (4.2) U | (4.2) U | (4.2) U | (4.2) U |
| Silver | 7440-22-4 | NA | (1.4) U | (0.8) U | (1.4) U | (0.8) U | (0.8) U | (1.4) U | (1.4) U | (1.4) U | (1.4) U | (1.4) U |
| Thallium | 7440-28-0 | 10 | (4.7) U | (4.4) U | (4.7) U | (4.4) U | (4.4) U | (4.7) U | (4.7) U | (4.7) U | (4.7) U | (4.7) U |
| Zinc | 7440-66-6 | 5000 | 6 | 10.7 | 13 | 6.7 | 7.1 | 8.9 B | 82 | 17.4 B | 9.5 | 9.1 B |

**NOTES:**
All results are reported in micrograms per liter (µg/L).
CAS_RN = Chemical Abstracts Service Registry Number.
Sample IDs ending in "P" indicate that it is a duplicate sample.
NJDEP GWQS = New Jersey Department of Environmental
Detection Limit shown in parentheses.
**Bold** indicates that the concentration exceeds the NJDEP
-- Indicates that the analyte was not analyzed for.

# APPENDIX B

**Revised Groundwater Logs, Tables, and Monitoring Well Information**

# Groundwater Purging and Sampling Field Log

**Well ID #:** MW 15

**Date:** 4/25/2003



**Site Location**: Ingersoll Rand - Phillipsburg, New Jersey

**Street Address**: 301 Memorial Parkway **City**: Phillipsburg **State**: NJ

**Client Name**: Ingersoll Rand **Project Number**: 03710-156-210

Technicians: G. Mattes & J. Baratta

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

**Well Data and Volume Calculations**

| | | | | | |
|---|---|---|---|---|---|
| Well Diameter (in): | 6 | inches | Volume of Standing Water (gal): | 71.66 | gallons |
| Depth to Water (ft): | 101.25 | feet | | | |
| Depth to Bottom (ft): | 150 | feet | Minimum Volume to be Purged (gal): | 214.99 | gallons |
| Height of Water Column (ft): | 48.75 | feet | | | |

**Purging and Sampling Details**

| | | | |
|---|---|---|---|
| Purging Method: | Conventional - 3" Grudfos Pump | | |
| Purge Times: | 14:29 | to | 14:51 |
| Sampling Time: | 15:10 | | |
| Analytical Parameters: | VO+10 | | |

| | Before Purge | Before Sampling | Notes: |
|---|---|---|---|
| **Time** | 14:29 | 15:10 | |
| **Depth to Water (ft.)** | 101.25 | 101.78 | |
| **pH (SU)** | 6.15 | 6.06 | |
| **Temp. ($^oC$)** | 17.70 | 17.00 | |
| **DO (mg/l)** | Error | 17.91 | |
| **Cond. (S/cm)** | 0.859 | 0.840 | |
| **Turbidity (Ntu)** | 55.9 | 8.2 | |
| **ORP (mV)** | 143 | 121 | |
| **Est. Purge Vol. (gal.)** | ~110 gal | | |
| **Average Purge Rate (gal/min.)** | ~5.0 gal/min | | |
| **PID (ppm)** | ND | ND | |

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

# Groundwater Purging and Sampling Field Log

**Well ID #:** MW 19

**Date:** 5/2/2003



**Site Location**: Ingersoll Rand - Phillipsburg, New Jersey

**Street Address**: 301 Memorial Parkway **City**: Phillipsburg **State**: NJ

**Client Name**: Ingersoll Rand **Project Number**: 03710-156-210

Technicians: G. Mattes & J. Baratta

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

**Well Data and Volume Calculations**

| | | | | |
|---|---|---|---|---|
| Well Diameter (in): | 8 | inches | Volume of Standing Water (gal): | 142 gallons |
| Depth to Water (ft): | 95.65 | feet | | |
| Depth to Bottom (ft): | 150 | feet | Minimum Volume to be Purged (gal): | 426 gallons |
| Height of Water Column (ft): | 54.35 | feet | | |

**Purging and Sampling Details**

| | |
|---|---|
| Purging Method: | Conventional - 3" Grudfos Pump |
| Purge Times: | 9:35 to 10:37 |
| Sampling Time: | 11:10 |
| Analytical Parameters: | VO+10 |

| | Before Purge | Before Sampling | Notes: |
|---|---|---|---|
| **Time** | 09:35 | 11:10 | |
| **Depth to Water (ft.)** | 95.65 | 95.74 | |
| **pH (SU)** | 3.76 | 5.29 | |
| **Temp. ($^oC$)** | 17.06 | 20.94 | |
| **DO (mg/l)** | 8.76 | 9.23 | |
| **Cond. (S/cm)** | 0.999 | 0.999 | |
| **Turbidity (Ntu)** | 0.0 | 0.0 | |
| **ORP (mV)** | 248 | 170 | |
| **Est. Purge Vol. (gal.)** | ~540 gal | | |
| **Average Purge Rate (gal/min.)** | ~7.5 gal/min | | |
| **PID (ppm)** | ND | ND | |

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

# Groundwater Purging and Sampling Field Log

**Well ID #:** MW 47

**Date:** 7/25/2003



**Site Location**: Ingersoll Rand - Phillipsburg, New Jersey

**Street Address**: 301 Memorial Parkway **City**: Phillipsburg **State**: NJ

**Client Name**: Ingersoll Rand **Project Number**: 03710-156-230

Technicians: G. Mattes & F. Jan

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes Odor No

**Well Data and Volume Calculations**

| | | | | |
|---|---|---|---|---|
| Well Diameter (in): | 6 | inches | Volume of Standing Water (gal): | 104 gallons |
| Depth to Water (ft): | 94.57 | feet | | |
| Depth to Bottom (ft): | 165 | feet | Minimum Volume to be Purged (gal): | 311 gallons |
| Height of Water Column (ft): | 70.43 | feet | | |

**Purging and Sampling Details**

| | | | |
|---|---|---|---|
| Purging Method: | Conventional - 2" Grudfos Pump | | |
| Purge Times: | 08:18/09:01 | to | 08:55/10:30 |
| Sampling Time: | 10:40 | | |
| Analytical Parameters: | VO+10 | | |

| | Before Purge | Before Sampling |
|---|---|---|
| **Time** | 08:18 | 10:40 |
| **Depth to Water (ft.)** | 94.57 | 97.00 |
| **pH (SU)** | 6.14 | 7.47 |
| **Temp. ($^oC$)** | 15.78 | 17.01 |
| **DO (mg/l)** | 9.25 | 11.64 |
| **Cond. (S/cm)** | 0.764 | 0.789 |
| **Turbidity (Ntu)** | 33.5 | 199.0 |
| **ORP (mV)** | 226 | 142 |
| **Est. Purge Vol. (gal.)** | ~109 gal | |
| **Average Purge Rate (gal/min.)** | ~0.5 gal/min | |
| **PID (ppm)** | ND | ND |

**Notes:** DTB feels like 148', but I'm not positive and will stick with 165' as previously gauged during geophysical survey. Gasoline like odor observed on all equipment retreived from the well.

At 08:21 DTW = 95.72 At 08:29 DTW = 96.95 At 08:31 DTW = 96.85

At 08:55 turned the pump off, connected more tubing, and lowered the pump to 131'.

Flow rate adjusted to 1 gal/min when the pump was turned back on at 09:01, DTW = 95.15.

At 09:04 DTW = 97.60 At 09:09 DTW = 98.75 At 09:30 DTW = 99.75

At 09:50 DTW 99.95

11:10 used the interface probe on MW47 and detected no product, but still had strong odor of gasoline.

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

# Groundwater Purging and Sampling Field Log

**Well ID #:** MW 48

**Date:** 7/24/2003



**Site Location**: Ingersoll Rand - Phillipsburg, New Jersey

**Street Address**: 301 Memorial Parkway **City**: Phillipsburg **State**: NJ

**Client Name**: Ingersoll Rand **Project Number**: 03710-156-230

Technicians: G. Mattes & F. Jan

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

**Well Data and Volume Calculations**

| | | | | |
|---|---|---|---|---|
| Well Diameter (in): | 6 | inches | Volume of Standing Water (gal): | 59.8 gallons |
| Depth to Water (ft): | 94.35 | feet | | |
| Depth to Bottom (ft): | 135 | feet | Minimum Volume to be Purged (gal): | 179.3 gallons |
| Height of Water Column (ft): | 40.65 | feet | | |

**Purging and Sampling Details**

| | | | |
|---|---|---|---|
| Purging Method: | Conventional - 2" Grudfos Pump | | |
| Purge Times: | 14:25 | to | 16:30 |
| Sampling Time: | 16:40 | | |
| Analytical Parameters: | VO+10 | | |

| | Before Purge | Before Sampling | Notes: |
|---|---|---|---|
| **Time** | 14:25 | 16:40 | At 14:28 DTW = 95.45' |
| **Depth to Water (ft.)** | 94.35 | 100.99 | At 14:30 DTW = 95.55' |
| **pH (SU)** | 7.71 | 7.47 | At 14:36 DTW = 95.82' |
| **Temp. ($^oC$)** | 17.70 | 17.59 | At 14:44 DTW = 96.15' |
| **DO (mg/l)** | 12.10 | 12.71 | At 14:48 DTW = 96.65' |
| **Cond. (S/cm)** | 0.626 | 0.641 | At 15:00 DTW = 98.3' |
| **Turbidity (Ntu)** | 167.0 | 741.0 | At 15:10 DTW = 100.00' |
| **ORP (mV)** | 180 | 172 | At 15:26 DTW = 100.65' |
| **Est. Purge Vol. (gal.)** | ~63 gal | | At 15:47 DTW = 101.05' |
| **Average Purge Rate (gal/min.)** | ~0.5 gal/min | | At 16:15 DTW = 101.65' |
| **PID (ppm)** | ND | ND | |

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

# Groundwater Purging and Sampling Field Log

**Well ID #:** MW 50

**Date:** 7/22/2003



**Site Location**: Ingersoll Rand - Phillipsburg, New Jersey

**Street Address**: 301 Memorial Parkway **City**: Phillipsburg **State**: NJ

**Client Name**: Ingersoll Rand **Project Number**: 03710-156-230

Technicians: G. Mattes & J. Senchisen

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

**Well Data and Volume Calculations**

| | | | | | |
|---|---|---|---|---|---|
| Well Diameter (in): | 6 | inches | Volume of Standing Water (gal): | 93.9 | gallons |
| Depth to Water (ft): | 91.13 | feet | | | |
| Depth to Bottom (ft): | 155 | feet | Minimum Volume to be Purged (gal): | 281.7 | gallons |
| Height of Water Column (ft): | 63.87 | feet | | | |

**Purging and Sampling Details**

| | | | |
|---|---|---|---|
| Purging Method: | Conventional - 2" Grudfos Pump | | |
| Purge Times: | 11:46 | to | 13:11 |
| Sampling Time: | 13:35 | | |
| Analytical Parameters: | VO+10 | | |

| | Before Purge | Before Sampling |
|---|---|---|
| **Time** | 11:46 | 13:35 |
| **Depth to Water (ft.)** | 91.10 | 126.90 |
| **pH (SU)** | 6.82 | 6.78 |
| **Temp. ($^oC$)** | 21.07 | 19.88 |
| **DO (mg/l)** | 6.65 | 7.97 |
| **Cond. (S/cm)** | 0.941 | 0.969 |
| **Turbidity (Ntu)** | 71.1 | 333.0 |
| **ORP (mV)** | 89 | 164 |
| **Est. Purge Vol. (gal.)** | ~120 gal | |
| **Average Purge Rate (gal/min.)** | ~2.0 gal/min | |
| **PID (ppm)** | ND | ND |

**Notes:** Draw down is continous about 1.5" per minute. Pump depth equals 140'.

At 12:23 DTW = 118.55'

At 12:42 DTW = 125.27'

At 13:03 DTW = 116.00'

While attempting to recheck DTW the pump stopped. Used a second water level meter to gauge DTW, but the probe would not pass 91'. Then the pump was removed from the well. While removing the pump, there were sounds of debris falling within the well, different sound then water falling. Then regauged to 99'. As the probe was 30' into the well, again the sound of debris falling was observed. A 12" weighted bailer was lowered into the well and came up dry. A 3' weighted bailer was lowered into the well and was submerged in water, DTW = 126.9'. After sampling depth to bottom was recored as 165' with water at 128'.

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

**Table 3A/B**
**SAMPLE SUMMARY: OCTOBER 2002 April 2003**
Former Ingersoll Rand Facility
Phillipsburg, New Jersey

| Sample ID | Date | Time | Sample Type | Duplicate | Sample Depth(1) | Lab Job No. | Analysis | Non Conformance |
|---|---|---|---|---|---|---|---|---|
| MW02AA | 10/15/02 | 10:10 | PDB | N | 112 | B707 | VO+10 | (2) |
| MW02AP | 10/15/02 | 10:15 | PDB | N | 112 | B707 | VO+10 | (2) |
| MW04A | 10/15/02 | 8:40 | PDB | N | 96 | B707 | VO+10 | (2) |
| MW04B | 10/15/02 | 8:45 | PDB | N | 108 | B707 | VO+10 | (2) |
| MW04C | 10/15/02 | 8:50 | PDB | N | 120 | B707 | VO+10 | (2) |
| MW06A | 10/15/02 | 9:35 | PDB | N | 110 | B707 | VO+10 | (2) |
| MW06B | 10/15/02 | 9:40 | PDB | N | 145 | B707 | VO+10 | (2) |
| MW06C | 10/15/02 | 9:45 | PDB | N | 187 | B707 | VO+10 | (2) |
| MW15A | 10/15/02 | 11:30 | PDB | N | 120 | B707 | VO+10 | (2) |
| MW15B | 10/15/02 | 11:35 | PDB | N | 135 | B707 | VO+10 | (2) |
| MW32A | 10/15/02 | 11:00 | PDB | N | 118 | B707 | VO+10 | (2) |
| MW32B | 10/15/02 | 11:05 | PDB | N | 129 | B707 | VO+10 | (2) |
| MW33AA | 10/15/02 | 9:50 | PDB | N | 107 | B707 | VO+10 | (2) |
| MW33AB | 10/15/02 | 9:55 | PDB | N | 120 | B707 | VO+10 | (2) |
| MW34A | 10/15/02 | 9:30 | PDB | N | 108 | B707 | VO+10 | (2) |
| MW34B | 10/15/02 | 9:35 | PDB | N | 113 | B707 | VO+10 | (2) |
| MW34C | 10/15/02 | 9:40 | PDB | N | 120 | B707 | VO+10 | (2) |
| MW35A | 10/15/02 | 9:10 | PDB | N | 128 | B707 | VO+10 | (2) |
| MW35B | 10/15/02 | 9:15 | PDB | N | 137 | B707 | VO+10 | (2) |
| MW37A | 10/15/02 | 8:10 | PDB | N | 60 | B707 | VO+10 | (2) |
| MW37B | 10/15/02 | 8:15 | PDB | N | 86 | B707 | VO+10 | (2) |
| MW37C | 10/15/02 | 8:20 | PDB | N | 98 | B707 | VO+10 | (2) |
| RW09A | 10/15/02 | 14:25 | PDB | N | 90 | B707 | VO+10 | (2) |
| RW09B | 10/15/02 | 14:30 | PDB | N | 118 | B707 | VO+10 | (2) |
| RW09C | 10/15/02 | 14:35 | PDB | N | 147 | B707 | VO+10 | (2) |
| RW09D | 10/15/02 | 14:40 | PDB | N | 170 | B707 | VO+10 | (2) |
| RW09E | 10/15/02 | 14:45 | PDB | N | 193 | B707 | VO+10 | (2) |
| RW14A | 10/15/02 | 11:10 | PDB | N | 118 | B707 | VO+10 | (2) |
| RW14B | 10/15/02 | 11:15 | PDB | N | 155 | B707 | VO+10 | (2) |
| RW15A | 10/15/02 | 13:55 | PDB | N | 113 | B707 | VO+10 | (2) |
| RW15B | 10/15/02 | 14:00 | PDB | N | 135 | B707 | VO+10 | (2) |
| RW15C | 10/15/02 | 14:05 | PDB | N | 156 | B707 | VO+10 | (2) |
| RW16A | 10/15/02 | 13:15 | PDB | N | 120 | B707 | VO+10 | (2) |

**Notes:**

(1) - Sample Depths are reported in feet below top of well casing. For conventional samples, depth refers to the static water level gauged prior to purging.
For Passive Diffusion Bag samples, the sample depth reported is the PDB deployment depth.

(2) - Samples delivered on April 30, 2003 reported a cooler temperature of 9 $^{o}$C.

(3) -Methylene Chloride (1.5 ug/L) was detected in the trip blank. 1,1-Dichloroethane (7.1 ug/L), Toluene (0.2 ug/L), and TIC (29 ug/L) were detected in the field blank. The cooler had a reported temperature of 11 $^{o}$C.

Conv. = Samples were collected via conventional methods.

PDB = Samples were collected a Passive Diffusion Bag sampler.

LF = Samples were collected via Low Flow purging methods.

VO+10 = Volitile Organic Compounds with a 10 forward library search via EPA Method 624

TPHC = Total Petroleum Hydrocarbons via EPA Method 418.1

TCE = Trichloroethylene

QL = Quality Control Limits

MS = Matrix Spike

Arsenic, chromium, and lead were analyzed via EPA Methods 6010B and 200.7.

**Table 3A/B**
**SAMPLE SUMMARY: OCTOBER 2002 April 2003**
Former Ingersoll Rand Facility
Phillipsburg, New Jersey

| Sample ID | Date | Time | Sample Type | Duplicate | Sample Depth(1) | Lab Job No. | Analysis | Non Conformance |
|---|---|---|---|---|---|---|---|---|
| RW16B | 10/15/02 | 13:20 | PDB | N | 141.5 | B707 | VO+10 | (2) |
| MW16A | 10/16/02 | 8:25 | PDB | N | 130 | B707 | VO+10 | (2) |
| MW16B | 10/16/02 | 8:30 | PDB | N | 155 | B707 | VO+10 | (2) |
| MW16C | 10/16/02 | 8:35 | PDB | N | 190 | B707 | VO+10 | (2) |
| RW11A | 10/16/02 | 7:35 | PDB | N | 115 | B707 | VO+10 | (2) |
| RW11B | 10/16/02 | 7:40 | PDB | N | 170 | B707 | VO+10 | (2) |
| RW13A | 10/16/02 | 8:10 | PDB | N | 115 | B707 | VO+10 | (2) |
| RW13B | 10/16/02 | 8:15 | PDB | N | 165 | B707 | VO+10 | (2) |
| TH36A | 10/16/02 | 8:50 | PDB | N | 110 | B707 | VO+10 | (2) |
| TH36P | 10/16/02 | 8:55 | PDB | Y | 110 | B707 | VO+10 | (2) |
| MW-18 | 10/21/02 | 14:15 | Conv. | N | 95.6 | B887 | VO+10 | --- |
| MW-20 | 10/21/02 | 12:55 | Conv. | N | 104.3 | B887 | VO+10 | --- |
| MW13 | 10/22/02 | 13:25 | Conv. | N | 107.5 | C019 | VO+10 | --- |
| MW19 | 10/22/02 | 10:10 | Conv. | N | 104.3 | C019 | VO+10 | --- |
| MW03 | 10/23/02 | 12:50 | Conv. | N | 91 | C019 | VO+10 | --- |
| MW36 | 10/23/02 | 14:45 | Conv. | N | 104.2 | C019 | VO+10, Arsenic, and Lead | --- |
| RW11 | 10/23/02 | 10:13 | Conv. | N | 64.8 | C019 | Chromium | --- |
| MW30 | 10/24/02 | 9:15 | Conv. | N | 60 | C100 | Arsenic and Lead | --- |
| MW39 | 10/24/02 | 12:00 | Conv. | N | 93.5 | C100 | VO+10, Arsenic, Chromium, and Lead | --- |
| MW39P | 10/24/02 | 12:05 | Conv. | Y | 93.5 | C100 | VO+10, Arsenic, Chromium, and Lead | --- |
| RW10 | 10/24/02 | 15:30 | Conv. | N | 104.2 | C100 | VO+10 | --- |
| TH36 | 10/24/02 | 16:55 | Conv. | N | 67.1 | C100 | Arsenic and Lead | --- |
| MW-27 | 10/28/02 | 12:10 | LF | N | 110 | C161 | VO+10 | --- |
| THWLS | 10/28/02 | 10:35 | LF | N | 118 | C161 | VO+10 | --- |
| MW08 | 10/29/02 | 14:45 | LF | N | 136 | C227 | VO+10 | --- |
| MW25 | 10/29/02 | 9:40 | LF | N | 110 | C227 | VO+10 | --- |
| RW03 | 10/29/02 | 12:05 | LF | N | 150 | C227 | VO+10 | --- |
| MW10 | 10/30/02 | 13:35 | LF | N | 94 | C266 | VO+10 | --- |
| RW15 | 10/30/02 | 8:40 | LF | N | 113 | C266 | VO+10 | --- |
| THby4 | 10/30/02 | 11:00 | LF | N | 120 | C266 | VO+10 | --- |
| MW04A | 4/23/2003 | 9:00 | PDB | N | 96 | I079 | VO+10 | (3) |
| MW04B | 4/23/2003 | 9:05 | PDB | N | 108 | I079 | VO+10 | (3) |
| MW04C | 4/23/2003 | 9:10 | PDB | N | 120 | I079 | VO+10 | (3) |

**Notes:**

(1) - Sample Depths are reported in feet below top of well casing. For conventional samples, depth refers to the static water level gauged prior to purging.
For Passive Diffusion Bag samples, the sample depth reported is the PDB deployment depth.

(2) - Samples delivered on April 30, 2003 reported a cooler temperature of 9 $^{o}$C.

(3) -Methylene Chloride (1.5 ug/L) was detected in the trip blank. 1,1-Dichloroethane (7.1 ug/L), Toluene (0.2 ug/L), and TIC (29 ug/L) were detected in the field blank. The cooler had a reported temperature of 11 $^{o}$C.

Conv. = Samples were collected via conventional methods.

PDB = Samples were collected a Passive Diffusion Bag sampler.

LF = Samples were collected via Low Flow purging methods.

VO+10 = Volitile Organic Compounds with a 10 forward library search via EPA Method 624

TPHC = Total Petroleum Hydrocarbons via EPA Method 418.1

TCE = Trichloroethylene

QL = Quality Control Limits

MS = Matrix Spike

Arsenic, chromium, and lead were analyzed via EPA Methods 6010B and 200.7.

**Table 3A/B**
**SAMPLE SUMMARY: OCTOBER 2002 April 2003**
Former Ingersoll Rand Facility
Phillipsburg, New Jersey

| Sample ID | Date | Time | Sample Type | Duplicate | Sample Depth(1) | Lab Job No. | Analysis | Non Conformance |
|---|---|---|---|---|---|---|---|---|
| MW16A | 4/23/2003 | 11:05 | PDB | N | 130 | I079 | VO+10 | (3) |
| MW16B | 4/23/2003 | 11:10 | PDB | N | 155 | I079 | VO+10 | (3) |
| MW16C | 4/23/2003 | 11:15 | PDB | N | 190 | I079 | VO+10 | (3) |
| MW32A | 4/23/2003 | 11:45 | PDB | N | 118 | I079 | VO+10 | (3) |
| MW32B | 4/23/2003 | 11:50 | PDB | N | 129 | I079 | VO+10 | (3) |
| MW32P | 4/23/2003 | 11:55 | PDB | Y | 129 | I079 | VO+10 | (3) |
| MW33AA | 4/23/2003 | 10:30 | PDB | N | 107 | I079 | VO+10 | (3) |
| MW33AB | 4/23/2003 | 10:35 | PDB | N | 120 | I079 | VO+10 | (3) |
| MW34A | 4/23/2003 | 10:10 | PDB | N | 108 | I079 | VO+10 | (3) |
| MW34B | 4/23/2003 | 10:15 | PDB | N | 113 | I079 | VO+10 | (3) |
| MW34C | 4/23/2003 | 10:20 | PDB | N | 120 | I079 | VO+10 | (3) |
| MW35A | 4/23/2003 | 9:55 | PDB | N | 122 | I079 | VO+10 | (3) |
| MW35B | 4/23/2003 | 10:00 | PDB | N | 128 | I079 | VO+10 | (3) |
| MW37A | 4/23/2003 | 9:15 | PDB | N | 60 | I079 | VO+10 | (3) |
| MW37B | 4/23/2003 | 9:20 | PDB | N | 86 | I079 | VO+10 | (3) |
| MW37C | 4/23/2003 | 9:25 | PDB | N | 98 | I079 | VO+10 | (3) |
| RW09A | 4/23/2003 | 12:10 | PDB | N | 90 | I079 | VO+10 | (3) |
| RW09B | 4/23/2003 | 12:15 | PDB | N | 118 | I079 | VO+10 | (3) |
| RW09C | 4/23/2003 | 12:20 | PDB | N | 147 | I079 | VO+10 | (3) |
| RW09D | 4/23/2003 | 12:25 | PDB | N | 160 | I079 | VO+10 | (3) |
| RW09E | 4/23/2003 | 12:30 | PDB | N | 188 | I079 | VO+10 | (3) |
| RW11A | 4/23/2003 | 15:45 | PDB | N | 115 | I079 | VO+10 | (3) |
| RW11B | 4/23/2003 | 15:50 | PDB | N | 170 | I079 | VO+10 | (3) |
| RW13A | 4/23/2003 | 10:50 | PDB | N | 115 | I079 | VO+10 | (3) |
| RW13B | 4/23/2003 | 10:55 | PDB | N | 165 | I079 | VO+10 | (3) |
| RW14A | 4/23/2003 | 11:30 | PDB | N | 118 | I079 | VO+10 | (3) |
| RW14B | 4/23/2003 | 11:35 | PDB | N | 165 | I079 | VO+10 | (3) |
| RW15A | 4/23/2003 | 14:10 | PDB | N | 113 | I079 | VO+10 | (3) |
| RW15B | 4/23/2003 | 14:15 | PDB | N | 135 | I079 | VO+10 | (3) |
| RW15C | 4/23/2003 | 14:20 | PDB | N | 156 | I079 | VO+10 | (3) |
| RW16A | 4/23/2003 | 14:35 | PDB | N | 121 | I079 | VO+10 | (3) |
| RW16B | 4/23/2003 | 14:40 | PDB | N | 141.5 | I079 | VO+10 | (3) |

**Notes:**

(1) - Sample Depths are reported in feet below top of well casing. For conventional samples, depth refers to the static water level gauged prior to purging.
For Passive Diffusion Bag samples, the sample depth reported is the PDB deployment depth.

(2) - Samples delivered on April 30, 2003 reported a cooler temperature of 9 $^{o}$C.

(3) -Methylene Chloride (1.5 ug/L) was detected in the trip blank. 1,1-Dichloroethane (7.1 ug/L), Toluene (0.2 ug/L), and TIC (29 ug/L) were detected in the field blank. The cooler had a reported temperature of 11 $^{o}$C.

Conv. = Samples were collected via conventional methods.

PDB = Samples were collected a Passive Diffusion Bag sampler.

LF = Samples were collected via Low Flow purging methods.

VO+10 = Volitile Organic Compounds with a 10 forward library search via EPA Method 624

TPHC = Total Petroleum Hydrocarbons via EPA Method 418.1

TCE = Trichloroethylene

QL = Quality Control Limits

MS = Matrix Spike

Arsenic, chromium, and lead were analyzed via EPA Methods 6010B and 200.7.

**Table 3A/B**
**SAMPLE SUMMARY: OCTOBER 2002 April 2003**
Former Ingersoll Rand Facility
Phillipsburg, New Jersey

| Sample ID | Date | Time | Sample Type | Duplicate | Sample Depth(1) | Lab Job No. | Analysis | Non Conformance |
|---|---|---|---|---|---|---|---|---|
| TH36A | 4/23/2003 | 16:20 | PDB | N | 110 | I079 | VO+10 | (3) |
| TH36P | 4/23/2003 | 16:25 | PDB | Y | 110 | I079 | VO+10 | (3) |
| THWLSA | 4/23/2003 | 13:50 | PDB | N | 110 | I079 | VO+10 | (3) |
| THWLSB | 4/23/2003 | 13:55 | PDB | N | 123 | I079 | VO+10 | (3) |
| MW04 | 4/24/2003 | 10:40 | Conv. | N | 85.8 | I179 | Arsenic Total and Dissolved | --- |
| MW36 | 4/24/2003 | 15:20 | Conv. | N | 99 | I179 | Arsenic and Lead, Total and Dissolved | --- |
| MW02A | 4/25/2003 | 10:15 | Conv. | N | 95.9 | I179 | VO+10 | --- |
| MW15 | 4/25/2003 | 15:10 | Conv. | N | 101.3 | I179 | VO+10 | --- |
| MW39 | 4/25/2003 | 12:10 | Conv. | N | 76 | I179 | VO+10 | --- |
| MW06 | 4/28/2003 | 11:40 | Conv. | N | 96.6 | I225 | VO+10 | --- |
| RW10 | 4/28/2003 | 14:40 | Conv. | N | 86.4 | I225 | VO+10 | --- |
| RW11 | 4/28/2003 | 16:10 | LF | N | 120 | I225 | Chromium, Total and Dissolved | --- |
| MW01 | 4/29/2003 | 15:30 | Conv. | N | 101.8 | I319 | VO+10 | (2) |
| MW30 | 4/29/2003 | 12:10 | Conv. | N | 56.6 | I319 | VO+10, Arsenic Total and Dissolved | (2) |
| MW30P | 4/29/2003 | 12:15 | Conv. | Y | 56.6 | I319 | VO+10, Arsenic and Lead, Total and Dissolved | (2) |
| TH36 | 4/29/2003 | 10:20 | Conv. | N | 63.6 | I319 | Arsenic and Lead, Total and Dissolved | (2) |
| MW18 | 4/30/2003 | 10:15 | Conv. | N | 85.8 | I319 | VO+10 | (2) |
| MW20 | 4/30/2003 | 13:55 | Conv. | N | 33.3 | I319 | VO+10 | (2) |
| RW09 | 4/30/2003 | 15:00 | LF | N | 119 | I319 | Arsenic and Lead, Total and Dissolved | --- |
| MW13 | 5/1/2003 | 16:20 | Conv. | N | 98.2 | I428 | VO+10 | --- |
| MW24 | 5/1/2003 | 11:20 | Conv. | N | 163.2 | I428 | VO+10 | --- |
| MW27 | 5/1/2003 | 12:50 | Conv. | N | 89.1 | I428 | VO+10 | --- |
| MW12 | 5/2/2003 | 13:30 | Conv. | N | 102.2 | I428 | VO+10 | --- |
| MW19 | 5/2/2003 | 11:10 | Conv. | N | 95.7 | I428 | VO+10 | --- |
| MW26 | 5/5/2003 | 11:45 | Conv. | N | 65.5 | I445 | VO+10 | --- |
| MW50 | 7/22/2003 | 13:35 | Conv. | N | 91.1 | L530 | VO+10 | --- |
| MW52 | 7/23/2003 | 15:15 | Conv. | N | 97.7 | L530 | VO+10, TPHC | --- |
| MW53 | 7/23/2003 | 10:40 | Conv. | N | 118.9 | L530 | VO+10, TPHC | --- |
| MW53P | 7/23/2003 | 10:45 | Conv. | Y | 118.9 | L530 | VO+10 | --- |
| MW46 | 7/24/2003 | 9:45 | Conv. | N | 108.5 | L530 | VO+10 | --- |
| MW48 | 7/24/2003 | 16:40 | Conv. | N | 94.4 | L530 | VO+10 | --- |
| MW49 | 7/24/2003 | 12:45 | Conv. | N | 3.7 | L530 | VO+10 | --- |
| MW47 | 7/25/2003 | 10:40 | Conv. | N | 94.6 | L530 | VO+10 | --- |

**Notes:**

(1) - Sample Depths are reported in feet below top of well casing. For conventional samples, depth refers to the static water level gauged prior to purging.
For Passive Diffusion Bag samples, the sample depth reported is the PDB deployment depth.

(2) - Samples delivered on April 30, 2003 reported a cooler temperature of 9 $^{o}$C.

(3) -Methylene Chloride (1.5 ug/L) was detected in the trip blank. 1,1-Dichloroethane (7.1 ug/L), Toluene (0.2 ug/L), and TIC (29 ug/L) were detected in the field blank. The cooler had a reported temperature of 11 $^{o}$C.

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VO+10 = Volitile Organic Compounds with a 10 forward library search via EPA Method 624

TPHC = Total Petroleum Hydrocarbons via EPA Method 418.1

TCE = Trichloroethylene

QL = Quality Control Limits

MS = Matrix Spike

Arsenic, chromium, and lead were analyzed via EPA Methods 6010B and 200.7.

# Groundwater Purging and Sampling Field Log

**Well ID #:** MW-8

**Date:** 10/29/2002



Site Location: IR-Phillipsburg

Street Address: 301 Memorial Parkway City: Phillipsburg State: NJ

Client Name: Ingersoll Rand Project Number: 03710-153-2.11

**NJDEP Laboratory Certification #: 12995**

Technician: G. Mattes/E.Egan

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

**Well Data and Volume Calculations**

| | | | | |
|---|---|---|---|---|
| Well Diameter (in): | 6 inches | Volume of Standing Water (gal): | NA | gallons |
| Depth to Water (ft): | 92.75 feet | | | |
| Depth to Bottom (ft): | NA feet | Minimum Volume to be Purged (gal): | NA | gallons |
| Height of Water Column (ft): | NA feet | | | |

**Purging and Sampling Details**

| | |
|---|---|
| Purging Method: | Low-Flow w/Grundfos Pump |
| Purge Times: | 14:21 to 14:39 |
| Sampling Time: | 14:45 |
| Analytical Parameters: | VO +10 |

| | Before Purge | During Purge | | | | | | | Before Sampling |
|---|---|---|---|---|---|---|---|---|---|
| **Time** | 14:21 | 14:24 | 14:27 | 14:30 | 14:33 | 14:36 | 14:39 | | |
| **Depth to Water (ft.)** | 94.97 | 94.97 | 94.97 | 94.97 | 94.97 | 94.97 | 94.97 | | |
| **pH (SU)** | 4.28 | 4.28 | 4.29 | 4.28 | 4.28 | 4.28 | 4.28 | | |
| **Temp. (oC)** | 13.3 | 13.5 | 13.9 | 14.1 | 14.0 | 14.1 | 14.1 | | |
| **DO (mg/l)** | 10.97 | 9.89 | 8.20 | 6.47 | 6.23 | 3.93 | 5.56 | | |
| **Cond. (S/cm)** | 0.591 | 0.592 | 0.591 | 0.590 | 0.590 | 0.590 | 0.590 | | |
| **Turbidity (Ntu)** | 329 | 328 | 326 | 331 | 334 | 332 | 335 | | |
| **ORP (mV)** | -16 | -17 | -17 | -18 | -18 | -18 | -18 | | |
| **Est. Purge Vol. (gal.)** | | | | | | | | Total of 9 gallons | |
| **Purge Rate (L/min.)** | 2 L/min | 2 L/min | 2 L/min | 2 L/min | 2 L/min | 2 L/min | 2 L/min | | |
| **PID (ppm)** | NA | NA | NA | NA | NA | NA | NA | | |
| **Notes:** | Pump set @ 136' 14:45 purge H2O clear | | | | | | | | |

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

# Groundwater Purging and Sampling Field Log

**Well ID #:MW-10**

**Date: 10/30/2002**



Site Location: IR-Phillipsburg

Street Address: 301 Memorial Parkway City: Phillipsburg State: NJ

Client Name: Ingersoll Rand Project Number: 03710-153-2.11

**NJDEP Laboratory Certification #: 12995**

Technician: G. Mattes/E.Egan

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

**Well Data and Volume Calculations**

| | | | | |
|---|---|---|---|---|
| Well Diameter (in): | 6 inches | Volume of Standing Water (gal): | NA | gallons |
| Depth to Water (ft): | 94 feet | | | |
| Depth to Product (ft): | NA feet | Minimum Volume to be Purged (gal): | NA | gallons |
| Height of Water Column (ft): | NA feet | | | |

**Purging and Sampling Details**

| | |
|---|---|
| Purging Method: | Low-Flow w/Grundfos Pump |
| Purge Times: | 13:16 to 13:31 |
| Sampling Time: | 13:35 |
| Analytical Parameters: | Vo+6 |

| | Before Purge | During Purge | | | | | | | Before Sampling |
|---|---|---|---|---|---|---|---|---|---|
| **Time** | 13:16 | 13:19 | 13:22 | 13:25 | 13:28 | | | | 13:31 |
| **Depth to Water (ft.)** | 94' | 94' | 94' | 94' | 94' | | | | 94' |
| **pH (SU)** | 4.42 | 4.40 | 4.39 | 4.39 | 4.45 | | | | 4.47 |
| **Temp. (oC)** | 14.2 | 15.1 | 15.5 | 15.6 | 15.7 | | | | 15.7 |
| **DO (mg/l)** | 6.64 | 4.81 | 3.88 | 3.42 | 3.03 | | | | 2.92 |
| **Cond. (S/cm)** | 0.94 | 0.93 | 0.93 | 0.92 | 0.92 | | | | 0.92 |
| **Turbidity (Ntu)** | 226.0 | 230 | 242 | 248 | 257 | | | | 248 |
| **ORP (mV)** | -43 | -45 | -46 | -47 | -48 | | | | -48 |
| **Est. Purge Vol. (gal.)** | | | | | | | | | |
| **Purge Rate (L/min.)** | .34min | .34min | .34min | .34min | .34min | | | | |
| **PID (ppm)** | | | | | | | | | |
| **Notes:** | 94' approx. DTW due to broken interface probe-13:35 sample collected | | | | | | | | |

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

# Groundwater Purging and Sampling Field Log

**Well ID #:** MW-25

**Date:** 10/29/2002



Site Location: IR-Phillipsburg

Street Address: 301 Memorial Parkway City: Phillipsburg State: NJ

Client Name: Ingersoll Rand Project Number: 03710-153-2.11

**NJDEP Laboratory Certification #: 12995**

Technician: G. Mattes/E.Egan

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

**Well Data and Volume Calculations**

| | | | | |
|---|---|---|---|---|
| Well Diameter (in): | 6 inches | Volume of Standing Water (gal): | NA | gallons |
| Depth to Water (ft): | 67.06 feet | | | |
| Depth to Bottom (ft): | 117 feet | Minimum Volume to be Purged (gal): | NA | gallons |
| Height of Water Column (ft): | NA feet | | | |

**Purging and Sampling Details**

| | |
|---|---|
| Purging Method: | Low-Flow w/Grundfos Pump |
| Purge Times: | 9:18 to 9:33 |
| Sampling Time: | 9:40 |
| Analytical Parameters: | VO +10 |

| | Before Purge | During Purge | | | | | | | Before Sampling |
|---|---|---|---|---|---|---|---|---|---|
| **Time** | | 9:10 | | 9:18 | 9:21 | 9:24 | 9:27 | | 9:33 |
| **Depth to Water (ft.)** | | 82.70 | Water Level Dropped to 102.7'. Lower pump to 110'. | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 |
| **pH (SU)** | | 4.43 | | 4.41 | 4.39 | 4.38 | 4.36 | 4.38 | 4.39 |
| **Temp. (oC)** | | 14.80 | | 14.7 | 14.5 | 13.8 | 13.0 | 13.1 | 14.1 |
| **DO (mg/l)** | | 8.12 | | 3.42 | 3.27 | 3.26 | 3.20 | 3.19 | 2.90 |
| **Cond. (S/cm)** | | 0.767 | | 0.766 | 0.768 | 0.776 | 0.787 | 0.771 | 0.772 |
| **Turbidity (Ntu)** | | 203.00 | | 196.0 | 207.0 | 221.0 | 243.0 | 189.0 | 190.0 |
| **ORP (mV)** | | -35 | | -37 | -36 | -36 | -35 | -38 | -39 |
| **Est. Purge Vol. (gal.)** | | | | | | | | Total of 2.8 gallons | |
| **Purge Rate (L/min.)** | | 700ml/min | | 200 mL/min | 200 mL/min | 200 mL/min | 200 mL/min | 200 mL/min | 200 mL/min |
| **PID (ppm)** | | NA | | NA | NA | NA | NA | NA | NA |
| **Notes:** | 9:40 sample MW-25 collected. Flow-200ml/min end purge @ 9:34 | | | | | | | | |

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

# Groundwater Purging and Sampling Field Log

**Well ID #:** MW-27

**Date:** 10/28/2002



Site Location: IR-Phillipsburg

Street Address: 301 Memorial Parkway City: Phillipsburg State: NJ

Client Name: Ingersoll Rand Project Number: 03710-153-2.11

**NJDEP Laboratory Certification #: 12995**

Technician: G. Mattes/E.Egan

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

**Well Data and Volume Calculations**

| | | | | |
|---|---|---|---|---|
| Well Diameter (in): | 6 inches | Volume of Standing Water (gal): | NA | gallons |
| Depth to Water (ft): | 98.24 feet | | | |
| Depth to Bottom (ft): | 140 feet | Minimum Volume to be Purged (gal): | NA | gallons |
| Height of Water Column (ft): | NA feet | | | |

**Purging and Sampling Details**

| | |
|---|---|
| Purging Method: | Low-Flow w/Grundfos Pump |
| Purge Times: | 10:13 to 10:28 |
| Sampling Time: | 10:35 |
| Analytical Parameters: | VO +10 |

| | Before Purge | During Purge | | | | | | | Before Sampling |
|---|---|---|---|---|---|---|---|---|---|
| **Time** | | 10:13 | 10:16 | 10:19 | 10:22 | 10:25 | 10:28 | | |
| **Depth to Water (ft.)** | | | | | | | | | |
| **pH (SU)** | | 4.27 | 4.28 | 4.28 | 4.29 | 4.29 | 4.30 | | |
| **Temp. (oC)** | | 13.06 | 14.10 | 14.50 | 14.70 | 14.70 | 14.80 | | |
| **DO (mg/l)** | | 9.86 | 6.33 | 5.33 | 4.67 | 4.51 | 4.26 | | |
| **Cond. (S/cm)** | | 0.700 | 0.698 | 0.696 | 0.695 | 0.694 | 0.693 | | |
| **Turbidity (Ntu)** | | 96.30 | 94.80 | 94.70 | 95.00 | 96.60 | 95.00 | | |
| **ORP (mV)** | | 11.00 | 11.00 | 11.00 | 10.00 | 10.00 | 10.00 | | |
| **Est. Purge Vol. (gal.)** | | | | | | | | Total of 2 gallons | |
| **Purge Rate (L/min.)** | | 1 L/min | 1 L/min | 1 L/min | 1 L/min | 1 L/min | 1 L/min | | |
| **PID (ppm)** | | NA | NA | NA | NA | NA | NA | | |
| **Notes:** | DTW = 98.21 at sampling @ 10:37 10:35 collect sample @ 2 gal Pump set @ 110 ft | | | | | | | | |

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

# Groundwater Purging and Sampling Field Log

**Well ID #:** Th by 4

**Date:** 10/29/2002



Site Location: IR-Phillipsburg

Street Address: 301 Memorial Parkway City: Phillipsburg State: NJ

Client Name: Ingersoll Rand Project Number: 03710-153-2.11

**NJDEP Laboratory Certification #: 12995**

Technician: G. Mattes/E.Egan

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

**Well Data and Volume Calculations**

| | | | | |
|---|---|---|---|---|
| Well Diameter (in): | 6 inches | Volume of Standing Water (gal): | NA | gallons |
| Depth to Water (ft): | 110/111 feet | | | |
| Depth to Bottom (ft): | NA feet | Minimum Volume to be Purged (gal): | NA | gallons |
| Height of Water Column (ft): | NA feet | | | |

**Purging and Sampling Details**

| | |
|---|---|
| Purging Method: | Low-Flow w/Grundfos Pump |
| Purge Times: | 10:27 to 10:54 |
| Sampling Time: | 11:00 |
| Analytical Parameters: | VO +10 |

| | Before Purge | During Purge | | | | | | | Before Sampling |
|---|---|---|---|---|---|---|---|---|---|
| **Time** | 10:27 | 10:30 | 10:33 | 10:36 | 10:39 | 10:42 | 10:45 | | |
| **Depth to Water (ft.)** | 110/111 | 110/111 | 110/111 | 110/111 | 110/111 | 110/111 | 110/111 | 110/111 | |
| **pH (SU)** | 4.65 | 4.59 | 4.53 | 4.50 | 4.48 | 4.47 | 4.47 | 4.44 | |
| **Temp. (oC)** | 13.4 | 15.2 | 15.3 | 15.2 | 15.3 | 15.4 | 15.3 | 15.20 | |
| **DO (mg/l)** | 9.71 | 5.62 | 4.18 | 3.54 | 3.07 | 2.86 | 2.70 | 2.38 | |
| **Cond. (S/cm)** | 1.74 | 1.73 | 1.70 | 1.68 | 1.65 | 1.63 | 1.62 | 1.59 | |
| **Turbidity (Ntu)** | 412 | 341 | 318 | 328 | 304 | 3411 | 290 | 283 | |
| **ORP (mV)** | -64 | -67 | -65 | -63 | -61 | -60 | -60 | -57.00 | |
| **Est. Purge Vol. (gal.)** | | | | | | | | | |
| **Purge Rate (L/min.)** | 1.9L/min | 1.9L/min | 1.9L/min | 1.9L/min | 1.9L/min | 1.9L/min | 1.9L/min | 1.9L/min | |
| **PID (ppm)** | NA | NA | NA | NA | NA | NA | NA | NA | |
| **Notes:** | Pump set @ 120' | | | | | | | | |

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

# Groundwater Purging and Sampling Field Log

**Well ID #:** Th by 4

**Date:** 10/29/2002



Site Location: IR-Phillipsburg

Street Address: 301 Memorial Parkway City: Phillipsburg State: NJ

Client Name: Ingersoll Rand Project Number: 03710-153-2.11

**NJDEP Laboratory Certification #: 12995**

Technician: G. Mattes/E.Egan

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

**Well Data and Volume Calculations**

| | | | | |
|---|---|---|---|---|
| Well Diameter (in): | 6 inches | Volume of Standing Water (gal): | NA | gallons |
| Depth to Water (ft): | 110/111 feet | | | |
| Depth to Bottom (ft): | NA feet | Minimum Volume to be Purged (gal): | NA | gallons |
| Height of Water Column (ft): | NA feet | | | |

**Purging and Sampling Details**

| | |
|---|---|
| Purging Method: | Low-Flow w/Grundfos Pump |
| Purge Times: | 10:27 to 10:54 |
| Sampling Time: | 11:00 |
| Analytical Parameters: | VO +10 |

| | Before Purge | During Purge | | | | | | | Before Sampling |
|---|---|---|---|---|---|---|---|---|---|
| **Time** | | 14:21 | | | | | | | 10:54 |
| **Depth to Water (ft.)** | | 110 | | | | | | | 110 |
| **pH (SU)** | | 4.64 | | | | | | | 4.43 |
| **Temp. (oC)** | | 15.3 | | | | | | | 15.2 |
| **DO (mg/l)** | | 2.33 | | | | | | | 2.27 |
| **Cond. (S/cm)** | | 1.58 | | | | | | | 1.57 |
| **Turbidity (Ntu)** | | 309 | | | | | | | 287 |
| **ORP (mV)** | | -57 | | | | | | | -56 |
| **Est. Purge Vol. (gal.)** | | | | | | | | Total of 10 galllons | |
| **Purge Rate (L/min.)** | | 1.9L/min | | | | | | | 1.9L/min |
| **PID (ppm)** | | NA | | | | | | | NA |
| **Notes:** | Pump set @ 120' | | | | | | | | |

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

# Groundwater Purging and Sampling Field Log

**Well ID #: THWLS**

**Date: 10/28/2002**



Site Location: IR-Phillipsburg

Street Address: 301 Memorial Parkway City: Phillipsburg State: NJ

Client Name: Ingersoll Rand Project Number: 03710-153-2.11

**NJDEP Laboratory Certification #: 12995**

Technician: G. Mattes/E.Egan

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

**Well Data and Volume Calculations**

| | | | | |
|---|---|---|---|---|
| Well Diameter (in): | 6 inches | Volume of Standing Water (gal): | NA | gallons |
| Depth to Water (ft): | 110.02 feet | | | |
| Depth to Bottom (ft): | NA feet | Minimum Volume to be Purged (gal): | NA | gallons |
| Height of Water Column (ft): | NA feet | | | |

**Purging and Sampling Details**

| | |
|---|---|
| Purging Method: | Low-Flow w/Grundfos Pump |
| Purge Times: | 11:49 to 12:03 |
| Sampling Time: | 12:10 |
| Analytical Parameters: | VO+10 |

| | Before Purge | During Purge | | | | | | | Before Sampling |
|---|---|---|---|---|---|---|---|---|---|
| **Time** | | 11:49 | 11:52 | 11:55 | 11:58 | 12:01 | 12:03 | | |
| **Depth to Water (ft.)** | | 112.62 | 112.62 | 112.62 | 112.62 | 112.62 | 112.62 | | |
| **pH (SU)** | | 4.67 | 4.65 | 4.67 | 4.67 | 4.61 | 4.65 | | |
| **Temp. (oC)** | | 13.70 | 16.80 | 18.70 | 18.70 | 17.70 | 17.50 | | |
| **DO (mg/l)** | | 7.22 | 5.47 | 4.30 | 4.00 | 4.10 | 4.11 | | |
| **Cond. (S/cm)** | | 0.946 | 0.947 | 0.948 | 0.946 | 0.969 | 0.971 | | |
| **Turbidity (Ntu)** | | 578 | 599 | 601 | 572 | 524 | 517 | | |
| **ORP (mV)** | | -48 | -51 | -56 | -56 | -51 | -52 | | |
| **Est. Purge Vol. (gal.)** | | | | | | | | total of 7 gallons | |
| **Purge Rate (L/min.)** | | 1 L/min | 1 L/min | 1 L/min | 1 L/min | 1 L/min | 1 L/min | | |
| **PID (ppm)** | | NA | NA | NA | NA | NA | NA | | |
| **Notes:** | Petroleum-like odor present. Pump set at 118 ft. | | | | | | | | |

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

# Groundwater Purging and Sampling Field Log

**Well ID #:** RW-3

**Date:** 10/29/2002



Site Location: IR-Phillipsburg

Street Address: 301 Memorial Parkway City: Phillipsburg State: NJ

Client Name: Ingersoll Rand Project Number: 03710-153-2.11

**NJDEP Laboratory Certification #: 12995**

Technician: G. Mattes/E.Egan

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

**Well Data and Volume Calculations**

| | | | | |
|---|---|---|---|---|
| Well Diameter (in): | 6 inches | Volume of Standing Water (gal): | NA | gallons |
| Depth to Water (ft): | 91.99 feet | | | |
| Depth to Bottom (ft): | 117 feet | Minimum Volume to be Purged (gal): | NA | gallons |
| Height of Water Column (ft): | NA feet | | | |

**Purging and Sampling Details**

| | | | |
|---|---|---|---|
| Purging Method: | Low-Flow w/Grundfos Pump | | |
| Purge Times: | 11:39 | to | 11:57 |
| Sampling Time: | 16:55 | | 12:05 |
| Analytical Parameters: | VO +10 | | |

| | Before Purge | During Purge | | | | | | | Before Sampling |
|---|---|---|---|---|---|---|---|---|---|
| **Time** | 11:39 | 11:42 | 11:45 | 11:48 | 11:51 | 11:54 | 11:57 | | |
| **Depth to Water (ft.)** | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | | |
| **pH (SU)** | 4.27 | 4.27 | 4.27 | 4.26 | 4.26 | 4.26 | 4.27 | | |
| **Temp. (oC)** | 12.3 | 12.2 | 12.2 | 12.2 | 12.3 | 12.3 | 12.3 | | |
| **DO (mg/l)** | 5.29 | 4.74 | 4.69 | 4.30 | 4.28 | 4.19 | 4.10 | | |
| **Cond. (S/cm)** | 0.779 | 0.779 | 0.779 | 0.778 | 0.779 | 0.778 | 0.779 | | |
| **Turbidity (Ntu)** | 839.1 | 630.0 | 630.0 | 999.0 | 999.0 | 957.0 | 980.0 | | |
| **ORP (mV)** | -25 | -25 | -25 | -25 | -25 | -25 | -25 | | |
| **Est. Purge Vol. (gal.)** | | | | | | | | | Total = 9 gal |
| **Purge Rate (L/min.)** | 800ml/min | 800ml/min | 800ml/min | 800ml/min | 800ml/min | 800ml/min | 800ml/min | | |
| **PID (ppm)** | NA | NA | NA | NA | NA | NA | NA | | |
| **Notes:** | Total of 9 gal purged, very turbid/sediment water Sample coll. @ 12:05 to be analyzed for VO+10 Pump set at 150' | | | | | | | | |

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

# Groundwater Purging and Sampling Field Log

**Well ID #: RW-15**

**Date: 10/29/2002**



Site Location: IR-Phillipsburg

Street Address: 301 Memorial Parkway City: Phillipsburg State: NJ

Client Name: Ingersoll Rand Project Number: 03710-153-2.11

**NJDEP Laboratory Certification #: 12995**

Technician: G. Mattes/E.Egan

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

**Well Data and Volume Calculations**

| | | | | |
|---|---|---|---|---|
| Well Diameter (in): | 6 inches | Volume of Standing Water (gal): | NA | gallons |
| Depth to Water (ft): | 102.43 feet | | | |
| Depth to Product (ft): | 102.42 feet | Minimum Volume to be Purged (gal): | NA | gallons |
| Height of Water Column (ft): | NA feet | | | |

**Purging and Sampling Details**

| | |
|---|---|
| Purging Method: | Low-Flow w/Grundfos Pump |
| Purge Times: | 8:15 to 8:36 |
| Sampling Time: | 8:40 |
| Analytical Parameters: | VO +10 |

| | Before Purge | During Purge | | | | | | | Before Sampling |
|---|---|---|---|---|---|---|---|---|---|
| **Time** | | 8:17 | 8:20 | 8:23 | 8:26 | 8:29 | 8:32 | 0.36 | |
| **Depth to Water (ft.)** | | 103.09 | 103.09 | 103.09 | 103.09 | 103.09 | 103.09 | 103.09 | |
| **pH (SU)** | | 4.44 | 4.46 | 4.46 | 4.45 | 4.43 | 4.42 | 4.41 | |
| **Temp. (oC)** | | 12.5 | 15.0 | 15.7 | 16.0 | 15.9 | 16.0 | 16.0 | |
| **DO (mg/l)** | | 6.46 | 5.71 | 5.23 | 4.92 | 4.46 | 4.15 | 4.10 | |
| **Cond. (S/cm)** | | 1.02 | 0.99 | 1.03 | 1.02 | 1.03 | 1.03 | 1.03 | |
| **Turbidity (Ntu)** | | 214 | 195 | 191 | 189 | 185 | 185 | 185 | |
| **ORP (mV)** | | -11 | -13 | -15 | -17 | -18 | -19 | -20.00 | |
| **Est. Purge Vol. (gal.)** | | | | | | | | | ~ 5 gal |
| **Purge Rate (L/min.)** | | .8 L/min | .8 L/min | .8 L/min | .8 L/min | .8 L/min | .8 L/min | .8 L/min | |
| **PID (ppm)** | | | | | | | | | |
| **Notes:** | Purge Water-orange w/particles. Pump set at 113 ft. | | | | | | | | |

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

# Groundwater Purging and Sampling Field Log

**Well ID #: RW 09**

**Date: 4/30/2003**



Site Location: IR-Phillipsburg

Street Address: 301 Memorial Parkway City: Phillipsburg State: NJ

**Client Name**: Ingersoll Rand **Project Number**: 03710-156-210

**NJDEP Laboratory Certification #: 12995**

Technicians: G. Mattes & J. Baratta

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

**Well Data and Volume Calculations**

| | | | | |
|---|---|---|---|---|
| Well Diameter (in): | 8 inches | Volume of Standing Water (gal): | NA | gallons |
| Depth to Water (ft): | 57.8 feet | | | |
| Depth to Bottom (ft): | 200 feet | Minimum Volume to be Purged (gal): | NA | gallons |
| Height of Water Column (ft): | 142.2 feet | | | |

**Purging and Sampling Details**

| | |
|---|---|
| Purging Method: | Low flow 2" grunfos |
| Purge Times: | 14:30 to 14:50 |
| Sampling Time: | 15:00 |
| Analytical Parameters: | Arsenic and Lead, Total and Dissolved |

| | During Purge | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Time** | 14:35 | 14:38 | 14:41 | 14:44 | 14:47 | 14:50 | | | |
| **Depth to Water (ft.)** | 57.80 | 57.80 | 57.80 | 57.80 | 57.80 | 57.80 | | | |
| **pH (SU)** | 6.05 | 6.22 | 6.21 | 6.25 | 6.28 | 6.29 | | | |
| **Temp. (oC)** | 17.59 | 17.93 | 18.49 | 19.64 | 18.81 | 18.74 | | | |
| **DO (mg/l)** | 1.64 | 1.22 | 0.94 | 0.95 | 0.90 | 0.87 | | | |
| **Cond. (S/cm)** | 0.632 | 0.631 | 0.633 | 0.630 | 0.632 | 0.629 | | | |
| **Turbidity (Ntu)** | 12.8 | 13.7 | 16.2 | 0.0 | 0.0 | 0.0 | | | |
| **ORP (mV)** | -43.00 | -152 | -159 | -162 | -164 | -164 | | | |
| **Est. Purge Vol. (gal.)** | | | | | | | | total of 8 gallons | |
| **Purge Rate (L/min.)** | 2 L/min | 2 L/min | 2 L/min | 2 L/min | 2 L/min | 2 L/min | | | |
| **PID (ppm)** | NA | NA | NA | NA | NA | NA | | | |
| **Notes:** | Depth to product 57.6; Pump set at 119 feet. | | | | | | | | |

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

# Groundwater Purging and Sampling Field Log

**Well ID #: RW11**

**Date: 4/28/2003**



Site Location: IR-Phillipsburg

Street Address: 301 Memorial Parkway City: Phillipsburg State: NJ

**Client Name**: Ingersoll Rand **Project Number**: 03710-156-210

**NJDEP Laboratory Certification #: 12995**

Technicians: G. Mattes & J. Baratta

**SITE OBSERVATIONS (circle)**

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

**Well Data and Volume Calculations**

| | | | | |
|---|---|---|---|---|
| Well Diameter (in): | 8 inches | Volume of Standing Water (gal): | NA | gallons |
| Depth to Water (ft): | 60.9 feet | | | |
| Depth to Bottom (ft): | 175 feet | Minimum Volume to be Purged (gal): | NA | gallons |
| Height of Water Column (ft): | 114.1 feet | | | |

**Purging and Sampling Details**

| | |
|---|---|
| Purging Method: | Low flow 2" grunfos |
| Purge Times: | 15:20 to 15:55 |
| Sampling Time: | 16:10 |
| Analytical Parameters: | Chromium, Total and Dissolved |

| | During Purge | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Time** | 15:25 | 15:30 | 15:35 | 15:40 | 15:45 | 15:50 | 15:55 | | |
| **Depth to Water (ft.)** | 78.35 | 78.35 | 78.35 | 78.35 | 78.35 | 78.35 | 78.35 | | |
| **pH (SU)** | 7.51 | 7.55 | 7.61 | 7.65 | 7.68 | 7.68 | 7.70 | | |
| **Temp. (oC)** | 17.29 | 18.34 | 18.52 | 18.78 | 18.83 | 19.03 | 19.05 | | |
| **DO (mg/l)** | 3.73 | 3.21 | 3.96 | 4.22 | 4.19 | 4.10 | 4.17 | | |
| **Cond. (S/cm)** | 0.610 | 0.625 | 0.626 | 0.627 | 0.627 | 0.627 | 0.624 | | |
| **Turbidity (Ntu)** | 28.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| **ORP (mV)** | 89.00 | 76 | 68 | 64 | 63 | 63 | 63 | | |
| **Est. Purge Vol. (gal.)** | | | | | | | | total of 18 gallons | |
| **Purge Rate (L/min.)** | 2 L/min | 2 L/min | 2 L/min | 2 L/min | 2 L/min | 2 L/min | 2 L/min | | |
| **PID (ppm)** | NA | NA | NA | NA | NA | NA | NA | | |
| **Notes:** | Petroleum-like odor present; Pump set at 120 feet. | | | | | | | | |

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

Name of Owner: INGERSOLL RAND

Name of Facility: SAME

Location: 942 MEMORIAL PARKWAY, PHILLIPSBURG, NJ 08865

UST Registration No.: NA BUST case No.: NJD - 002 - 395 - 382

CERTIFICATION

Well Permit Number: 2 4 - 0 0 0 4 2 - 6 4 0 Owner's Well Number MW53

Well Completion Date: 7/3/03 Lithologic Log: Attach

| | |
|---|---|
| Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot): | - 3.50 |
| Total Depth of Well to the nearest 1/2 foot: | 160' below grade |
| Depth to Top of Screen (or Top of Open Hole) From Top of Casing (one-hundredth of a foot): | 75.5' |
| Screen Length (or length of open hole) in feet: | open hole 88' |
| Screen or Slot Size: | N/A |
| Screen or Slot Material: | N/A |
| Casing Material: (PVC, Steel or Other-Specify): | 6" steel 19 lb. |
| Casing Diameter (inches): | 6" |
| Static Water Level From Top of Casing at the Time of Installation (one-hundredth of a foot): | 119.85' |
| Yield (gallons per minute): | 5 |
| Development Technique (specify): | air water |
| Length of Time Well is Developed/Pumped or Bailed: | Hours Minutes |

Authentication

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Technical Certification:

CARMINE DeCORSO Carmine DeCorso

Name (Type or Print) Signature

JD1210 Seal

Certification or License No.

Certification by Executive Officer or Duly Authorized Representative:

CARMINE DeCORSO Carmine DeCorso 7/23/03

Name (Type or Print) Signature Date

Title: Drilling Supervisor

## MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

Name of Owner: INGERSOLL RAND

Name of Facility: SAME

Location: 942 MEMORIAL PARKWAY, PHILLIPSBURG, NJ 08865

UST Registration No.: NA BUST case No.: NJD 002 395 382

### CERTIFICATION

Well Permit Number: 2 4 - 0 0 0 4 2 639 Owner's Well Number MW#52

Well Completion Date: 6/24/03 Lithologic Log: Attach

| | |
|---|---|
| Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot): | - 2.05 |
| Total Depth of Well to the nearest 1/2 foot: | 170' below grade |
| Depth to Top of Screen (or Top of Open Hole) From Top of Casing (one-hundredth of a foot): | 60.05' |
| Screen Length (or length of open hole) in feet: | open hole 112' |
| Screen or Slot Size: | NA |
| Screen or Slot Material: | NA |
| Casing Material: (PVC, Steel or Other-Specify): | 6" steel 19 lb. |
| Casing Diameter (inches): | 6" |
| Static Water Level From Top of Casing at the Time of Installation (one-hundredth of a foot): | 97.61 |
| Yield (gallons per minute): | 5 |
| Development Technique (specify): | air water injection |
| Length of Time Well is Developed/Pumped or Bailed: | 1 Hours Minutes |

### Authentication

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Technical Certification:

Carmine DeCorso Carmine DeCorso

Name (Type or Print) Signature

JD 1210

Certification or License No.

Seal

Certification by Executive Officer or Duly Authorized Representative:

Carmine DeCorso Carmine DeCorso 7-23-03

Name (Type or Print) Signature Date

Title: Drilling Supervisor

| | | | |
|---|---|---|---|
| Client: | Ingersoll Rand Company | Location: | Phillipsburg, NJ facility |
| Project: | IR Phillipsburg geology | Project # | 03710-153 |
| Well Depth: | 140.00 Feet | State Plane | X: 305901<br>Y: 678700 |

ENSR INTERNATIONAL

**MW40**

| Depth | Lithologic Description | Symbol |
|---|---|---|
| 0 | FILL: Fill; foundry sand, concrete and rebar | |
| | DOLOMITE: Dolomite | |
| -20 | DOLOMITE: Fractured dolomite | |
| | DOLOMITE: Dolomite | |
| -40 | | |
| -60 | | |
| -80 | | |
| -100 | | |
| -120 | DOLOMITE: Dolomite | |
| | DOLOMITE: Dolomite | |
| | DOLOMITE: Dolomite seam | |
| -140 | DOLOMITE: Dolomite | |

Notes:

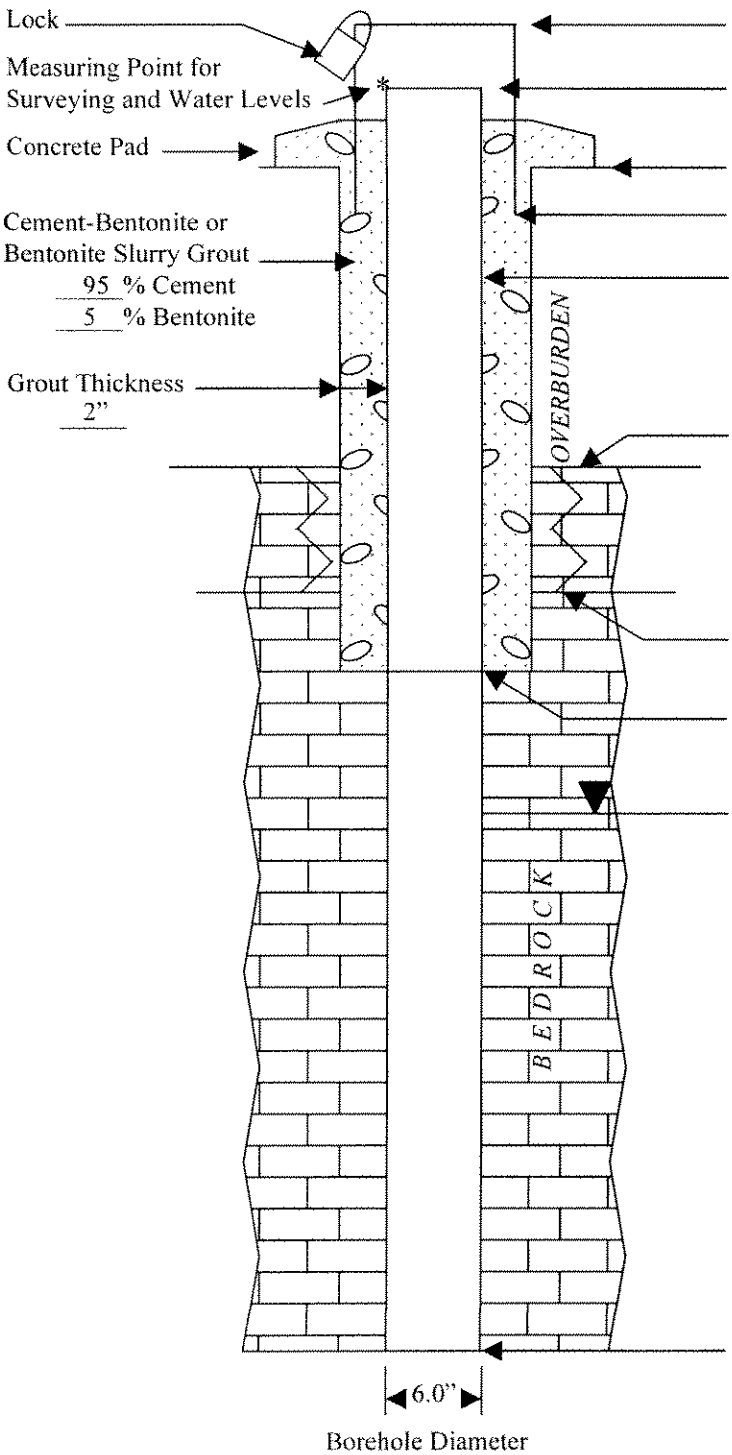
Project No.: 3710-121-200 Client: Ingersoll-Rand Site: Phillipsburg, NJ

**WELL NO.:MW-40**

Well Location: AOC-17 (former iron foundry), northern end, 942 Memorial Parkway Date Installed: 1/5 to 1/6/00

Contractor: J/R Drilling Method: Air Rotary Geologist: M. Haulenbeek

# MONITORING WELL CONSTRUCTION DETAIL




| | Depth from G.S. (feet) | Elevation |
|---|---|---|
| Top of Steel Guard pipe | | |
| Top of Riser Pipe | -2.93 | 347.85' |
| Ground Surface (G.S.) | 0.00 | 344.92' |
| Bottom of Steel Guard pipe | | |
| Riser Pipe<br>Length 35'<br>Inside Diameter (ID) 6.0"<br>Type of Material Steel | | |
| Weatherd Bedrock Surface | 15 | 332.85' |
| Competent Bedrock Surface | 25 | 322.85' |
| Bottom of Riser Pipe | 35 | 312.85' |
| Stabilized Water Level | 93.79 | 254.06' |
| Bottom of Borehole | 140 | 207.85' |

* Describe Measuring Point:

Approved:

Signature Date

ENSR

## MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

**Name of Owner:** Ingersoll-Rand

**Name of Facility:** Ingersoll-Dresser Pump Company

**Location:** 924 Memorial Parkway, Phillipsburg, NJ

**UST Registration No.:** _____ **BUST case No.:** ____ - ____ - ____ - _____

### CERTIFICATION

**Well Permit Number:** 2438016 **Owner's Well Number:** MW-40

**Well Completion Date:** January 5, 2000 **Lithologic Log:** See Attached

| | |
|---|---|
| **Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):** | 2.93' |
| **Total Depth of Well to the nearest 1/2 foot:** | 140' |
| **Depth to Top of Screen (or Top of Open Hole) From Top of Casing (one-hundredth of a foot):** | 35' |
| **Screen Length (or length of open hole) in feet:** | 105' |
| **Screen or Slot Size:** | Not Applicable |
| **Screen or Slot Material:** | Not Applicable |
| **Casing Material: (PVC, Steel or Other-Specify):** | Steel |
| **Casing Diameter (inches):** | 6" |
| **Static Water Level From Top of Casing at the Time of Installation (one-hundredth of a foot):** | 93.79' |
| **Yield (gallons per minute):** | 10 gpm |
| **Development Technique (specify):** | Compressed Air |
| **Length of Time Well is Developed/Pumped or Bailed:** | 1 **Hours** **Minutes** |

### Authentication

**I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.**

**Technical Certification:**

James Capasso _____

**Name (Type or Print)** **Signature**

AIPG #9214

**Certification or License No.**

**Seal**

**Certification by Executive Officer or Duly Authorized Representative:**

_____ _____ _____

**Name (Type or Print)** **Signature** **Date**

**Title:** _____

## Monitoring Well Certification Form B - Location Certification

Name of Owner: Ingersoll-Dresser Pump Company

Name of Facility: Phillipsburg Plant
Location: 942 Memorial Parkway, Phillipsburg, N.J.08865

Case Number:

### Land Surveyor's Certification

Well Number: 2438016
(This number must be permanently affixed to the well casing)

Owners Well Number (As Shown on application or plans):MW-40

Geographic Coordinate NAD 83 (to the nearest 1/10 of a second):
Longitude West 75 10 17.8 W Latitude North 40 41 41.5 N

New Jersey State Plane Coordinates NAD 83 to the nearest 10 feet:

North 678740 East 305905
Corpscom = 678745.03 305903.47

Elevation of top of inner Casing (cap off) at
reference mark (nearest 0.01'): 347.85

Source of elevation datum (benchmark, number/description and elevation/datum. If on-site datum is used, identify here, assume datum if 100', and give approximate actual elevation.) ONSITE LANDFILL MON-1
(NAD 83) E 306827.12', N 677018.88' HEIGHT (NAVD 88) 358.47'

Significant observations and notes: NONE

## AUTHENTICATION

I certify under the penally of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on the inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Seal

Kenneth D Reigle 4/30/2000

NJ Professional Land Surveyor's Signature DATE

Kenneth D. Reigle 27484

Professional Land Surveyor' Name and License Number

| | | | |
|---|---|---|---|
| Client: | Ingersoll Rand Company | Location: | Phillipsburg, NJ facility |
| Project: | IR Phillipsburg geology | Project # | 03710-153 |
| Well Depth: | 150.00 Feet | State Plane | X: 305828<br>Y: 678189 |

ENSR INTERNATIONAL

**MW41**

| Depth | Lithologic Description | Symbol |
|---|---|---|
| 0 | FILL: Fill clay | |
| | FILL: Concrete | |
| -20 | DOLOMITE: Dolomite | |
| -40 | | |
| -60 | | |
| -80 | | |
| -100 | | |
| -120 | | |
| -140 | DOLOMITE: Dolomite seam | |
| | DOLOMITE: Dolomite | |

Notes:

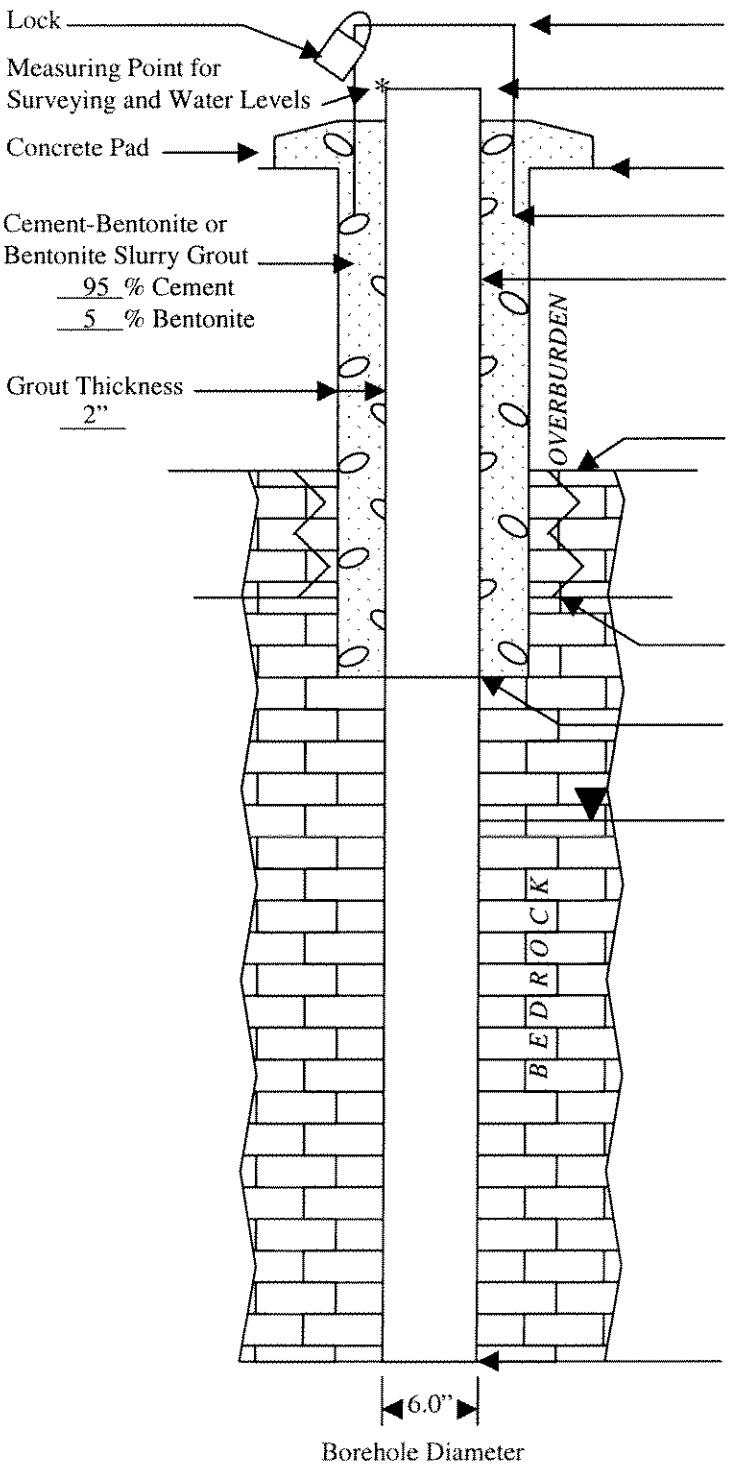
Project No.: 3710-121-200 Client: Ingersoll-Rand Site: Phillipsburg, NJ

**WELL NO.: MW-41**

Well Location: AOC-17 (former iron foundry), southern end, 942 Memorial Parkway Date Installed: 1/3 to 1/4/00

Contractor: J/R Drilling Method: Air Rotary Geologist: M. Haulenbeek

# MONITORING WELL CONSTRUCTION DETAIL




| | Depth from G.S. (feet) | Elevation |
|---|---|---|
| Top of Steel Guard pipe | | |
| Top of Riser Pipe | -2.96 | 347.91' |
| Ground Surface (G.S.) | 0.00 | 344.95' |
| Bottom of Steel Guard pipe | | |
| Riser Pipe<br>Length: 30'<br>Inside Diameter (ID): 6.0"<br>Type of Material: Steel | | |
| Weatherd Bedrock Surface | 15 | 332.91' |
| Competent Bedrock Surface | 17 | 330.91' |
| Bottom of Riser Pipe | 30 | 317.91' |
| Stabilized Water Level | 89.49 | 258.42' |
| Bottom of Borehole | 150 | 197.91' |

* Describe Measuring Point:

Approved:

Signature Date

ENSR

## MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

**Name of Owner:** Ingersoll-Rand

**Name of Facility:** Ingersoll-Dresser Pump Company

**Location:** 924 Memorial Parkway, Phillipsburg, NJ

**UST Registration No.:** _____ **BUST case No.:** ____ - ____ - ____ - _____

### CERTIFICATION

**Well Permit Number:** 2438015 **Owner's Well Number:** MW-41

**Well Completion Date:** January 3, 2000 **Lithologic Log:** See Attached

| | |
|---|---|
| **Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):** | 2.96' |
| **Total Depth of Well to the nearest 1/2 foot:** | 150' |
| **Depth to Top of Screen (or Top of Open Hole) From Top of Casing (one-hundredth of a foot):** | 30' |
| **Screen Length (or length of open hole) in feet:** | 120' |
| **Screen or Slot Size:** | Not Applicable |
| **Screen or Slot Material:** | Not Applicable |
| **Casing Material: (PVC, Steel or Other-Specify):** | Steel |
| **Casing Diameter (inches):** | 6" |
| **Static Water Level From Top of Casing at the Time of Installation (one-hundredth of a foot):** | 89.49' |
| **Yield (gallons per minute):** | 2.5 gpm |
| **Development Technique (specify):** | Compressed Air |
| **Length of Time Well is Developed/Pumped or Bailed:** | 1 Hours Minutes |

### Authentication

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

**Technical Certification:**

James Capasso _____

**Name (Type or Print)** **Signature**

AIPG #9214

**Certification or License No.** **Seal**

**Certification by Executive Officer or Duly Authorized Representative:**

_____ _____ _____

**Name (Type or Print)** **Signature** **Date**

**Title:** _____

## Monitoring Well Certification Form B - Location Certification

Name of Owner: Ingersoll-Dresser Pump Company

Name of Facility: Phillipsburg Plant
Location: 942 Memorial Parkway, Phillipsburg, N.J.08865

Case Number:

### Land Surveyor's Certification

Well Number: 2438015
(This number must be permanently affixed to the well casing)

Owners Well Number (As Shown on application or plans):MW-41

Geographic Coordinate NAD 83 (to the nearest 1/10 of a second):
Longitude West 75 10 18.7 W Latitude North 40 41 36.1 N

New Jersey State Plane Coordinates NAD 83 to the nearest 10 feet:

North 678202 East 305832
678199.12 305829.97
Copscom

Elevation of top of inner Casing (cap off) at
reference mark (nearest 0.01'): 347.90

Source of elevation datum (benchmark, number/description and elevation/datum. If on-site datum is used, identify here, assume datum if 100', and give approximate actual elevation.) ONSITE LANDFILL MON-1
(NAD 83) E 306827.12', N 677018.88' HEIGHT (NAVD 88) 358.47'

Significant observations and notes: NONE

### AUTHENTICATION

I certify under the penally of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on the inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Seal

4/30/2000

NJ Professional Land Surveyor's Signature DATE

Kenneth D. Reigle 27484

Professional Land Surveyor Name and License Number

| | | | |
|---|---|---|---|
| Client: | Ingersoll Rand Company | Location: | Phillipsburg, NJ facility |
| Project: | IR Phillipsburg geology | Project # | 03710-153 |
| Well Depth: | 125.00 Feet | State Plane | X: 305526<br>Y: 679491 |

ENSR INTERNATIONAL

# MW42

| Depth | Lithologic Description | Symbol |
|---|---|---|
| 0 | FILL: Clay and foundry sand | |
| | CLAY: Brown-yellow Clay | |
| -20 | DOLOMITE: Fractured dolomite and onverburden | |
| -40 | DOLOMITE: Dolomite | |
| -60 | | |
| -80 | | |
| -100 | | |
| -120 | DOLOMITE: Dolomite seam | |

Notes:

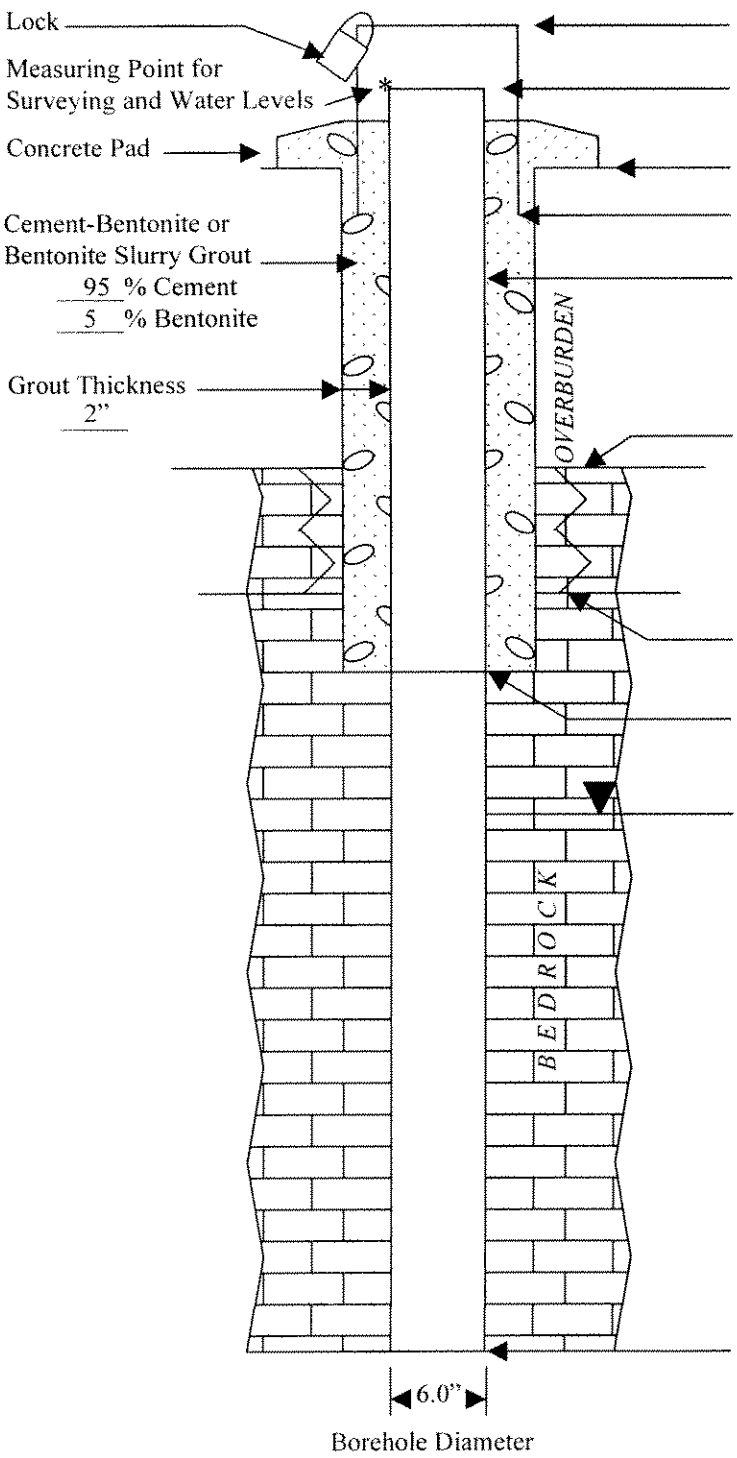
Project No.: 3710-121-200 Client: Ingersoll-Rand Site: Phillipsburg, NJ

**WELL NO.:MW-42**

Well Location: Storm water retention pond area, east of Building. 38, 942 Memorial Parkway Date Installed: 12/2199

Contractor: J/R Drilling Method: Air Rotary Geologist: M. Haulenbeek

# MONITORING WELL CONSTRUCTION DETAIL




| | Depth from G.S. (feet) | Elevation |
|---|---|---|
| Top of Steel Guard pipe | | |
| Top of Riser Pipe | -3.24 | 345.57' |
| Ground Surface (G.S.) | 0.00 | 342.33' |
| Bottom of Steel Guard pipe | | |
| Riser Pipe<br>Length 30'<br>Inside Diameter (ID) 6.0"<br>Type of Material Steel | | |
| Weatherd Bedrock Surface | 7 | 338.57' |
| Competent Bedrock Surface | 21 | 324.57' |
| Bottom of Riser Pipe | 30 | 315.57' |
| Stabilized Water Level | 91.36 | 254.21' |
| Bottom of Borehole | 125 | 220.57' |

* Describe Measuring Point:

Approved:

Signature Date

ENSR

## MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

**Name of Owner:** Ingersoll-Rand

**Name of Facility:** Ingersoll-Dresser Pump Company

**Location:** 924 Memorial Parkway, Phillipsburg, NJ

**UST Registration No.:** _____ **BUST case No.:** ____ - ____ - ____ - _____

### CERTIFICATION

**Well Permit Number:** 2438014 **Owner's Well Number:** MW-42

**Well Completion Date:** December 21, 1999 **Lithologic Log:** See Attached

| | |
|---|---|
| **Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):** | 3.24' |
| **Total Depth of Well to the nearest 1/2 foot:** | 125' |
| **Depth to Top of Screen (or Top of Open Hole) From Top of Casing (one-hundredth of a foot):** | 30' |
| **Screen Length (or length of open hole) in feet:** | 95' |
| **Screen or Slot Size:** | Not Applicable |
| **Screen or Slot Material:** | Not Applicable |
| **Casing Material: (PVC, Steel or Other-Specify):** | Steel |
| **Casing Diameter (inches):** | 6" |
| **Static Water Level From Top of Casing at the Time of Installation (one-hundredth of a foot):** | 91.36' |
| **Yield (gallons per minute):** | 15 gpm |
| **Development Technique (specify):** | Compressed Air |
| **Length of Time Well is Developed/Pumped or Bailed:** | 1 **Hours** **Minutes** |

### Authentication

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

**Technical Certification:**

James Capasso _____

**Name (Type or Print)** **Signature**

AIPG #9214 **Seal**

**Certification or License No.**

**Certification by Executive Officer or Duly Authorized Representative:**

_____ _____ _____

**Name (Type or Print)** **Signature** **Date**

**Title:** _____

## Monitoring Well Certification Form B - Location Certification

Name of Owner: Ingersoll-Dresser Pump Company

Name of Facility: Phillipsburg Plant
Location: 942 Memorial Parkway, Phillipsburg, N.J.08865

Case Number:

### Land Surveyor's Certification

Well Number: 2438014
(This number must be permanently affixed to the well casing)

Owners Well Number (As Shown on application or plans):MW-42

Geographic Coordinate NAD 83 (to the nearest 1/10 of a second):
Longitude West 75 10 21.9 W Latitude North 40 41 49.3 N

New Jersey State Plane Coordinates NAD 83 to the nearest 10 feet:

Corpscom North 679535 East 305595
679536.77 305593.72

Elevation of top of inner Casing (cap off) at
reference mark (nearest 0.01'): 345.57

Source of elevation datum (benchmark, number/description and elevation/datum. If on-site datum is used, identify here, assume datum if 100', and give approximate actual elevation.) ONSITE LANDFILL MON-1
(NAD 83) E 306827.12', N 677018.88' HEIGHT (NAVD 88) 358.47'

Significant observations and notes: NONE

### AUTHENTICATION

I certify under the penally of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on the inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Seal

Kenneth D. Reigle 4/30/2000
NJ Professional Land Surveyor's Signature DATE

Kenneth D. Reigle 27484

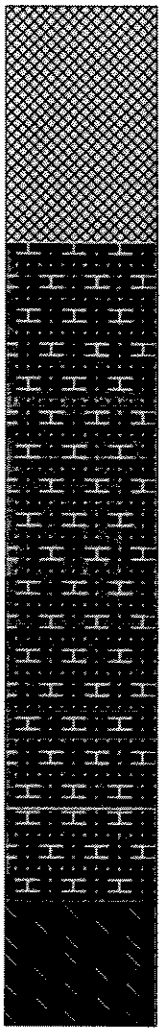
Professional Land Surveyor Name and License Number

| | | | |
|---|---|---|---|
| Client: | Ingersoll Rand Company | Location: | Phillipsburg, NJ facility |
| Project: | IR Phillipsburg geology | Project # | 03710-153 |
| Well Depth: | 103.00 Feet | State Plane | X: 305443<br>Y: 678554 |

ENSR INTERNATIONAL

# MW43A

| Depth | Lithologic Description | Symbol |
|---|---|---|
| 0 | FILL: Foundry sand | |
| -20 | SILTY CLAY: Yellow-brown clay and silt, some gravel | |
| -40 | | |
| -60 | | |
| -80 | SILTY CLAY: Brown clay and silt, some gravel | |
| -100 | DOLOMITE: Weathered dolomite | |
| | DOLOMITE: Dolomite | |
| | DOLOMITE: Very fractured dolomite | |



Notes:

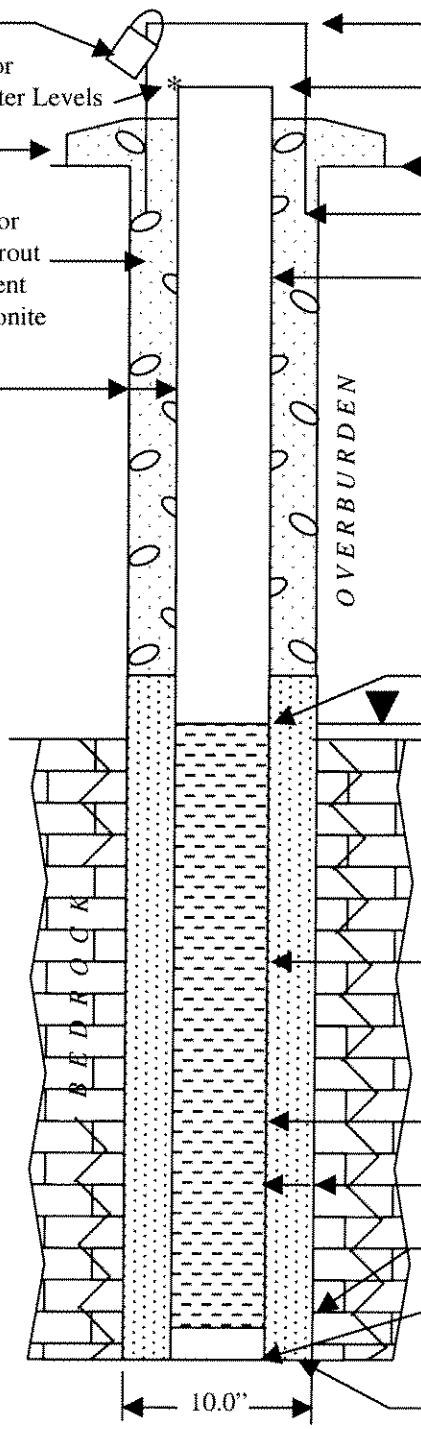
Project No.: 3710-121-200 Client: Ingersoll-Rand Site: Phillipsburg, NJ

**WELL NO.: MW-43A**

Well Location: Storm water retention pond area, east of Building. 106, 942 Memorial Parkway Date Installed: 1/24/00

Contractor: J/R Drilling Method: Air Rotary Geologist: M. Haulenbeek

# MONITORING WELL CONSTRUCTION DETAIL




Borehole Diameter

| | | Depth from G.S. (feet) | Elevation |
|---|---|---|---|
| Lock | | | |
| Measuring Point for Surveying and Water Levels | | | |
| Concrete Pad | | | |
| Cement-Bentonite or Bentonite Slurry Grout: 95 % Cement, 5 % Bentonite | | | |
| Grout Thickness 3" | | | |
| Top of Steel Guard pipe | | | |
| Top of Riser Pipe | | -2.68 | 341.15' |
| Ground Surface (G.S.) | | 0.00 | 338.47' |
| Bottom of Steel Guard pipe | | | |
| Riser Pipe | | | |
| Length | 78' | | |
| Inside Diameter (ID) | 4.0" | | |
| Type of Material | PVC | | |
| Bottom of Riser Pipe | | 78 | 263.15' |
| Stabilized Water Level | | 87.41 | 253.74' |
| Weatherd Bedrock Surface | | 90 | 251.15' |
| Screen: | | | |
| Length | 25' | | |
| Inside Diameter (ID) | 4" | | |
| Slot Size | 0.0200 | | |
| Type of Material | PVC | | |
| Type/Size of Sand | #2 | | |
| Sand Pack Thickness | 3" | | |
| Bottom of Screen | | | |
| Bottom of Tail Pipe: Length | 2.5" | | |
| Bottom of Borehole | | 103 | 238.15' |

* Describe Measuring Point:

Approved:

Signature Date

ENSR

## MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

**Name of Owner:** Ingersoll-Rand

**Name of Facility:** Ingersoll-Dresser Pump Company

**Location:** 924 Memorial Parkway, Phillipsburg, NJ

**UST Registration No.:** _____ **BUST case No.:** ____ - ____ - ____ - _____

### CERTIFICATION

**Well Permit Number:** 2438751 **Owner's Well Number:** MW-43A

**Well Completion Date:** January 24, 2000 **Lithologic Log:** See Attached

| | |
|---|---|
| **Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):** | 2.68' |
| **Total Depth of Well to the nearest 1/2 foot:** | 103' |
| **Depth to Top of Screen (or Top of Open Hole) From Top of Casing (one-hundredth of a foot):** | 78' |
| **Screen Length (or length of open hole) in feet:** | 25' |
| **Screen or Slot Size:** | 0.0200 |
| **Screen or Slot Material:** | PVC |
| **Casing Material: (PVC, Steel or Other-Specify):** | PVC |
| **Casing Diameter (inches):** | 4" |
| **Static Water Level From Top of Casing at the Time of Installation (one-hundredth of a foot):** | 87.41' |
| **Yield (gallons per minute):** | 2-3 gpm |
| **Development Technique (specify):** | Compressed Air |
| **Length of Time Well is Developed/Pumped or Bailed:** | 1 **Hours** **Minutes** |

### Authentication

**I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.**

**Technical Certification:**

James Capasso _____

**Name (Type or Print)** **Signature**

AIPG #9214

**Certification or License No.**

**Seal**

**Certification by Executive Officer or Duly Authorized Representative:**

_____ _____ _____

**Name (Type or Print)** **Signature** **Date**

**Title:** _____

## Monitoring Well Certification Form B - Location Certification

Name of Owner: Ingersoll-Dresser Pump Company

Name of Facility: Phillipsburg Plant
Location: 942 Memorial Parkway, Phillipsburg, N.J.08865

Case Number:

### Land Surveyor's Certification

Well Number: 2438751
(This number must be permanently affixed to the well casing)

Owners Well Number (As Shown on application or plans):MW-43A

Geographic Coordinate NAD 83 (to the nearest 1/10 of a second):
Longitude West 75 10 22.9 W Latitude North 40 41 40.1 N

New Jersey State Plane Coordinates NAD 83 to the nearest 10 feet:

North 678609 East 305504
678606.37 305509.57

Elevation of top of inner Casing (cap off) at
reference mark (nearest 0.01'): 341.15

Source of elevation datum (benchmark, number/description and elevation/datum. If on-site datum is used, identify here, assume datum if 100', and give approximate actual elevation.) ONSITE LANDFILL MON-1
(NAD 83) E 306827.12', N 677018.88' HEIGHT (NAVD 88) 358.47'

Significant observations and notes: NONE

### AUTHENTICATION

I certify under the penally of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on the inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Seal

4/30/2000

NJ Professional Land Surveyor's Signature DATE

Kenneth D. Reigle 27484

Professional Land Surveyor Name and License Number

| | | | |
|---|---|---|---|
| Client: | Ingersoll Rand Company | Location: | Phillipsburg, NJ facility |
| Project: | IR Phillipsburg geology | Project # | 03710-153 |
| Well Depth: | 115.00 Feet | State Plane | X: 305453<br>Y: 677804 |

ENSR INTERNATIONAL

**MW44**

| Depth | Lithologic Description | Symbol |
|---|---|---|
| 0 | FILL: Foundry sand | |
| -20 | CLAY: Brown-yellow Clay, little silt | |
| | DOLOMITE: Fractured dolomite | |
| | DOLOMITE: Dolomite | |
| -40 | DOLOMITE: Soft brown and gray weathered dolomite | |
| | DOLOMITE: Dolomite | |
| | DOLOMITE: Fractured dolomite | |
| | DOLOMITE: Dolomite | |
| -60 | DOLOMITE: Fractured dolomite | |
| -80 | DOLOMITE: Soft brown and gray weathered dolomite | |
| -100 | | |

Notes:

Project No.: 3710-121-200 Client: Ingersoll-Rand Site: Phillipsburg, NJ

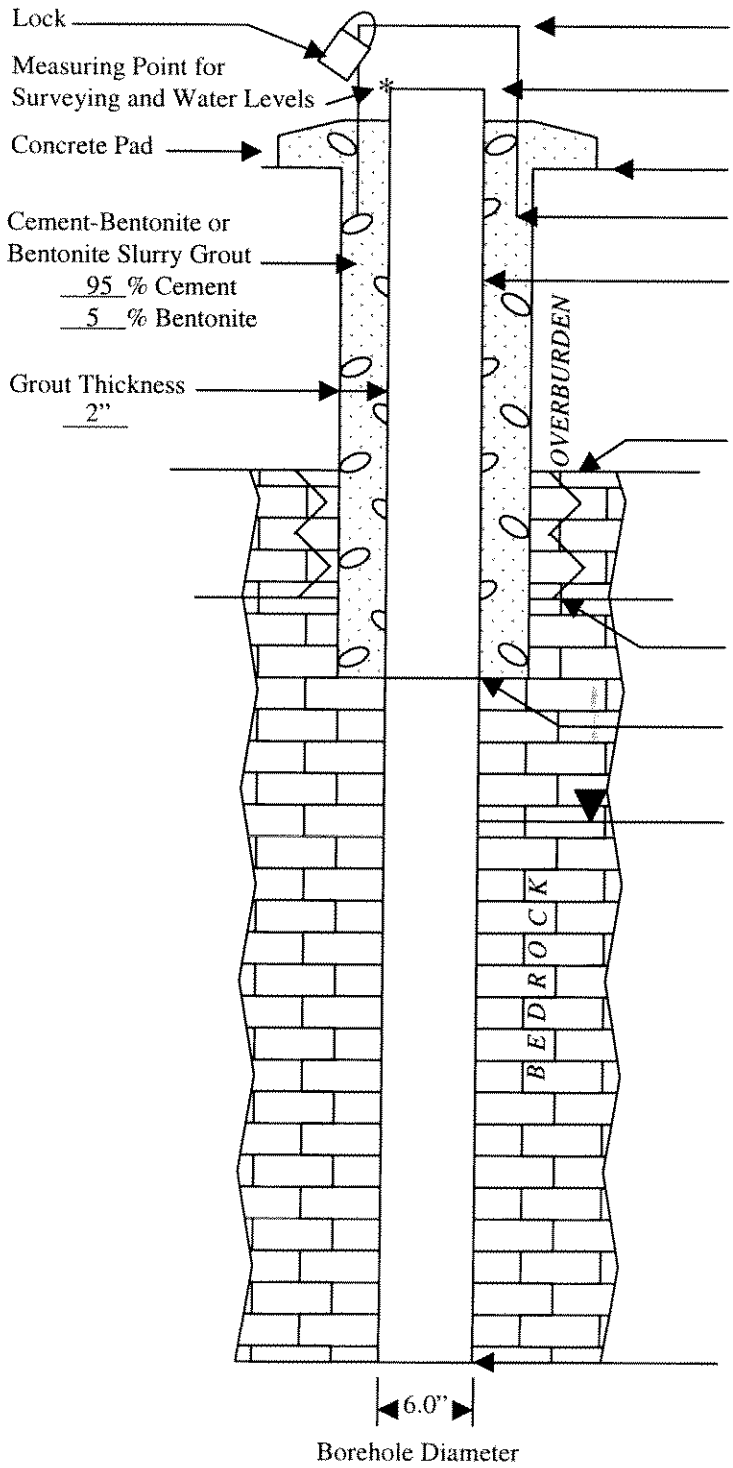
**WELL NO.: MW-44**

Well Location: South of storm water retention pond area, east of Building 11 , 942 Memorial Parkway

Date Installed: 1/20 to 1/24/00

Contractor: J/R Drilling Method: Air Rotary Geologist: M. Haulenbeek

# MONITORING WELL CONSTRUCTION DETAIL




| | Depth from G.S. (feet) | Elevation |
|---|---|---|
| Top of Steel Guard pipe | | |
| Top of Riser Pipe | -2.85 | 340.59' |
| Ground Surface (G.S.) | 0.00 | 337.47' |
| Bottom of Steel Guard pipe | | |
| Riser Pipe | | |
| Length: 40' | | |
| Inside Diameter (ID): 6.0" | | |
| Type of Material: Steel | | |
| Weatherd Bedrock Surface | 26 | 314.59' |
| Competent Bedrock Surface | 28 | 312.59' |
| Bottom of Riser Pipe | 40 | 300.59' |
| Stabilized Water Level | 87.83 | 252.76' |
| Bottom of Borehole | 115 | 225.76' |

* Describe Measuring Point:

Approved:

Signature Date

ENSR

## MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

**Name of Owner:** Ingersoll-Rand

**Name of Facility:** Ingersoll-Dresser Pump Company

**Location:** 924 Memorial Parkway, Phillipsburg, NJ

**UST Registration No.:** _____ **BUST case No.:** ____ - ____ - ____ - _____

### CERTIFICATION

**Well Permit Number:** 2438012 **Owner's Well Number:** MW-44

**Well Completion Date:** January 20, 2000 **Lithologic Log:** See Attached

| | |
|---|---|
| **Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):** | 2.85' |
| **Total Depth of Well to the nearest 1/2 foot:** | 115' |
| **Depth to Top of Screen (or Top of Open Hole) From Top of Casing (one-hundredth of a foot):** | 40' |
| **Screen Length (or length of open hole) in feet:** | 75' |
| **Screen or Slot Size:** | Not Applicable |
| **Screen or Slot Material:** | Not Applicable |
| **Casing Material: (PVC, Steel or Other-Specify):** | Steel |
| **Casing Diameter (inches):** | 6" |
| **Static Water Level From Top of Casing at the Time of Installation (one-hundredth of a foot):** | 87.83' |
| **Yield (gallons per minute):** | 5 gpm |
| **Development Technique (specify):** | Compressed Air |
| **Length of Time Well is Developed/Pumped or Bailed:** | 1 Hours Minutes |

### Authentication

**I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.**

**Technical Certification:**

James Capasso _____

**Name (Type or Print)** **Signature**

AIPG #9214

**Certification or License No.** **Seal**

**Certification by Executive Officer or Duly Authorized Representative:**

_____ _____ _____

**Name (Type or Print)** **Signature** **Date**

**Title:** _____

## Monitoring Well Certification Form B - Location Certification

Name of Owner: Ingersoll-Dresser Pump Company

Name of Facility: Phillipsburg Plant
Location: 942 Memorial Parkway, Phillipsburg, N.J.08865

Case Number:

### Land Surveyor's Certification

Well Number: 2438012
(This number must be permanently affixed to the well casing)

Owners Well Number (As Shown on application or plans):MW-44

Geographic Coordinate NAD 83 (to the nearest 1/10 of a second):
Longitude West 75 10 22.9 W Latitude North 40 41 31.8 N

New Jersey State Plane Coordinates NAD 83 to the nearest 10 feet:

North 677772 East 305503
Approx 677766.47 305503.14

Elevation of top of inner Casing (cap off) at
reference mark (nearest 0.01'): 340.59

Source of elevation datum (benchmark, number/description and elevation/datum. If on-site datum is used, identify here, assume datum if 100', and give approximate actual elevation.) ONSITE LANDFILL MON-1
(NAD 83) E 306827.12', N 677018.88' HEIGHT (NAVD 88) 358.47'

Significant observations and notes: NONE

### AUTHENTICATION

I certify under the penally of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on the inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Seal

4/30/2000

NJ Professional Land Surveyor's Signature DATE

Kenneth D. Reigle 27484

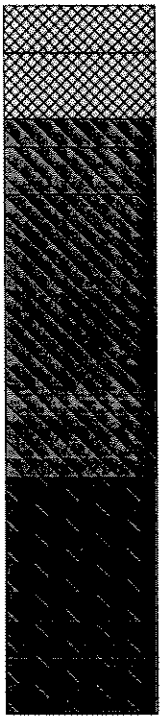
Professional Land Surveyor' Name and License Number

| | | | |
|---|---|---|---|
| Client: | Ingersoll Rand Company | Location: | Phillipsburg, NJ facility |
| Project: | IR Phillipsburg geology | Project # | 03710-153 |
| Well Depth: | 75.00 Feet | State Plane | X: 305078<br>Y: 678731 |

ENSR INTERNATIONAL

# MW45

| Depth | Lithologic Description | Symbol |
|---|---|---|
| 0 | FILL: Fill; construction sand, brick, foundry sand | |
| | FILL: Fill; foundry sand | |
| | CLAY: Brown clay, some gravel | |
| -20 | CLAY: Brown clay, some gravel | |
| | CLAY: Brown clay, some gravel | |
| -40 | | |
| | DOLOMITE: Weathered dolomite | |
| -60 | | |



Notes:

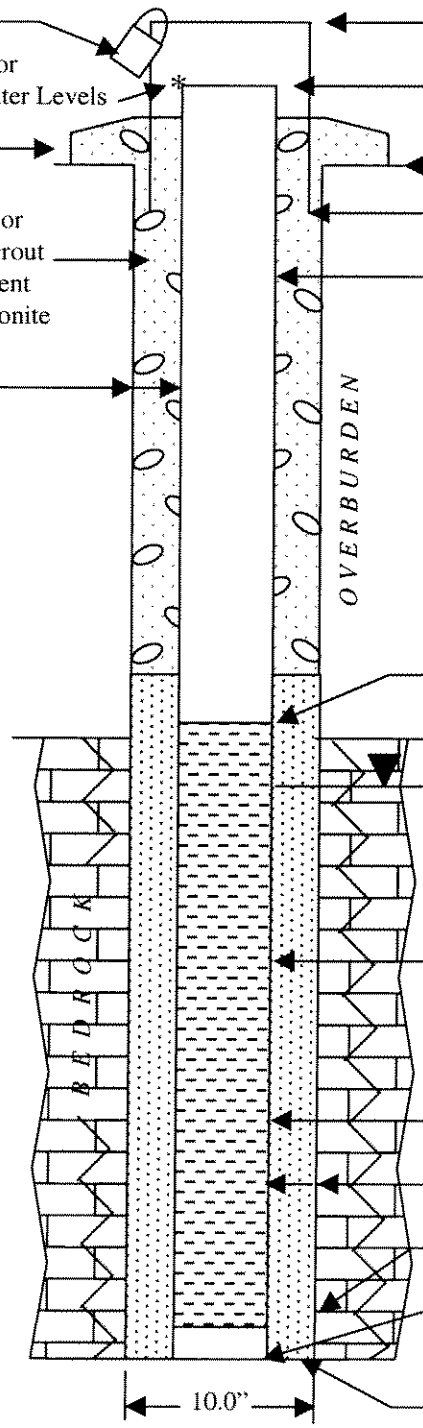
Project No.: 3710-121-200 Client: Ingersoll-Rand Site: Phillipsburg, NJ

**WELL NO.: MW-45**

Well Location: East of storm water retention pond, 942 Memorial Parkway Date Installed: 1/14/00

Contractor: J/R Drilling Method: Air Rotary Geologist: M. Haulenbeek

# MONITORING WELL CONSTRUCTION DETAIL




Borehole Diameter

| | | Depth from G.S. (feet) | Elevation |
|---|---|---|---|
| Lock | | | |
| Top of Steel Guard pipe | | | |
| Measuring Point for Surveying and Water Levels * | | | |
| Top of Riser Pipe | | -2.65 | 308.05' |
| Concrete Pad | | | |
| Ground Surface (G.S.) | | 0.00 | 305.40' |
| Cement-Bentonite or Bentonite Slurry Grout | | | |
| Bottom of Steel Guard pipe | | | |
| 95 % Cement | | | |
| 5 % Bentonite | | | |
| Riser Pipe | | | |
| Length | 50' | | |
| Inside Diameter (ID) | 4.0" | | |
| Type of Material | PVC | | |
| Grout Thickness 3" | | | |
| Bottom of Riser Pipe | | 50 | 258.05' |
| Weatherd Bedrock Surface | | 50 | 258.05' |
| Stabilized Water Level | | 54.18 | 253.87' |
| Screen: | | | |
| Length | 25' | | |
| Inside Diameter (ID) | 4" | | |
| Slot Size | 0.0200 | | |
| Type of Material | PVC | | |
| Type/Size of Sand | #2 | | |
| Sand Pack Thickness | 3" | | |
| Bottom of Screen | | | |
| Bottom of Tail Pipe: | | | |
| Length | 2.5" | | |
| Bottom of Borehole | | 75 | 233.05' |

* Describe Measuring Point:

Approved:

Signature Date

ENSR

## MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

**Name of Owner:** Ingersoll-Rand

**Name of Facility:** Ingersoll-Dresser Pump Company

**Location:** 924 Memorial Parkway, Phillipsburg, NJ

**UST Registration No.:** _____ **BUST case No.:** ____ - ____ - ____ - _____

### CERTIFICATION

**Well Permit Number:** 2438011 **Owner's Well Number:** MW-45

**Well Completion Date:** January 14, 2000 **Lithologic Log:** See Attached

| | |
|---|---|
| **Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):** | 2.65' |
| **Total Depth of Well to the nearest 1/2 foot:** | 75' |
| **Depth to Top of Screen (or Top of Open Hole) From Top of Casing (one-hundredth of a foot):** | 50' |
| **Screen Length (or length of open hole) in feet:** | 25' |
| **Screen or Slot Size:** | 0.0200 |
| **Screen or Slot Material:** | PVC |
| **Casing Material: (PVC, Steel or Other-Specify):** | PVC |
| **Casing Diameter (inches):** | 4" |
| **Static Water Level From Top of Casing at the Time of Installation (one-hundredth of a foot):** | 54.18' |
| **Yield (gallons per minute):** | Not Available |
| **Development Technique (specify):** | Compressed Air |
| **Length of Time Well is Developed/Pumped or Bailed:** | 1 **Hours** **Minutes** |

### Authentication

**I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.**

**Technical Certification:**

James Capasso J. R Capasso

**Name (Type or Print)** **Signature**

AIPG #9214 **Seal**

**Certification or License No.**

**Certification by Executive Officer or Duly Authorized Representative:**

_____ _____ _____

**Name (Type or Print)** **Signature** **Date**

**Title:** _____

## Monitoring Well Certification Form B - Location Certification

Name of Owner: Ingersoll-Dresser Pump Company

Name of Facility: Phillipsburg Plant
Location: 942 Memorial Parkway, Phillipsburg, N.J.08865

Case Number:

### Land Surveyor's Certification

Well Number: 2438011
(This number must be permanently affixed to the well casing)

Owners Well Number (As Shown on application or plans):MW-45

Geographic Coordinate NAD 83 (to the nearest 1/10 of a second):
Longitude West 75 10 27.9 W Latitude North 40 41 41.6 N

New Jersey State Plane Coordinates NAD 83 to the nearest 10 feet:

Copson

North 678766 East 305118
678761.12 305125.63

Elevation of top of inner Casing (cap off) at
reference mark (nearest 0.01'): 308.05

Source of elevation datum (benchmark, number/description and elevation/datum. If on-site datum is used, identify here, assume datum if 100', and give approximate actual elevation.) ONSITE LANDFILL MON-1
(NAD 83) E 306827.12', N 677018.88' HEIGHT (NAVD 88) 358.47'

Significant observations and notes: NONE

### AUTHENTICATION

I certify under the penally of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on the inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Seal

4/30/2000

NJ Professional Land Surveyor's Signature DATE

Kenneth D. Reigle 27484

Professional Land Surveyor' Name and License Number

# APPENDIX C

## Historical Soil Summary for Metals

**APPENDIX C**
**Sitewide Soils Metals Summary**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Sample ID** | | | 10-ND11SS1 | 10-ND13SS1 | 10-ND15SS1 | 10ND1SS1 | 10-ND21SS1 | 10-ND23SS1 | 10-ND31SS1 | 10-ND5-SS1 | 10-ND7-SS1 | 16-10 (2.0-2.5) | 16-10 (5.0-5.5) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 84791006 | 84791007 | 84791008 | 84791001 | 8483002 | 8483004 | 84791009 | 84791004 | 8483007 | 229993-012 | 229995-007 |
| **Date** | | | 10/29/1998 | 10/29/1998 | 10/29/1998 | 10/28/1998 | 10/29/1998 | 10/29/1998 | 10/28/1998 | 10/29/1998 | 10/29/1998 | 10/28/2003 | 10/28/2003 |
| **Depth** | | | 4-4.5 | 6.5-7 | 1.5-2 | 3-3.5 | 3.5-4 | 6-6.5 | 2.5-3 | 1.5-2 | 1.5-2 | 2.0-2.5 | 5.0-5.5 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | -- | -- | -- | 25.6 | 32.4 | -- | -- | -- | 26.1 | -- | -- |
| **Beryllium[1]** | 7440-41-7 | 2 | -- | -- | 2.09 | -- | -- | -- | -- | -- | -- | 12.8 | 4.7 |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | 961 | -- | -- | -- | -- | -- | 76300 | -- | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | 2.82 | -- | 2.95 | -- | 2.44 | 4.27 | 2.2 | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| **Sample ID** | | | 16-18 (2.0-2.5) | 16-18 (5.0-5.5) | 16-20 (2.0-2.5) | 16-23 (11.5-12.0) | 16-23 (6.0-6.5) | 16-23 (8.0-8.5) | 16-24 (2.0-2.5) | 16-26 (2.0-2.5) | 16-27 (2.0-2.5) | 16-31 (4.0-4.5) | 16-31 (6.0-6.5) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 229993-003 | 229993-005 | 230055-002 | 229995-006 | 229993-011 | 229995-005 | 23027-001 | 230055-001 | 229993-013 | 229993-002 | 229994-003 |
| **Date** | | | 10/27/2003 | 10/27/2003 | 10/29/2003 | 10/28/2003 | 10/28/2003 | 10/28/2003 | 11/3/2003 | 10/29/2003 | 10/28/2003 | 10/27/2003 | 10/27/2003 |
| **Depth** | | | 2.0-2.5 | 5.0-5.5 | 2.0-2.5 | 11.5-12.0 | 6.0-6.5 | 8.0-8.5 | 2.0-2.5 | 2.0-2.5 | 2.0-2.5 | 4.0-4.5 | 6.0-6.5 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | 20.9 N | -- | -- | -- | -- | -- | 23.5 N | -- | 20 N | 35.7 N | 35.6 |
| **Beryllium[1]** | 7440-41-7 | 2 | 3.2 | 2.8 | 2.6 | 2.2 | 2.3 | 2.7 | | 2.2 | 3.2 | -- | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**NOTES:**

All results are presented in milligrams per kilogram.

Depths are presented in feet below ground surface (bgs).

CAS-RN = Chemical Abstract Service Registry Number.

MSSCC = Most Stringent Soil Cleanup Criteria.

* - Indicates that the duplicate analysis was not within control limits.

B - Indicates that the analyte was detected at a concentration less than the MDL and is estimated.

*N - Indicates that the spiked recovery and the duplicate were not within control limits.

N - Indicates that the spiked sample recovery was not within control limits.

[1] Beryllium results are compared to an Alternative Remediation Criterion (ARC) of 16 mg/kg, established by NJDEP in their January 25, 2005 letter.

-- Indicates not sampled.

**APPENDIX C**
**Sitewide Soils Metals Summary**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Sample ID** | | | 16-10 (7.5-8.0) | 16-12 (4.0-4.5) | 16-13 (4.0-4.5) | 16-14 (2.0-2.5) | 16-17 (2.0-2.5) | 16-43 (2.0-2.5) | 16-43 (5.0-5.5) | 16-43 (9.5-10.0) | 16-5 (2.0-2.5) | 16-5 (5.0-5.5) | 16-9 (2.0-2.5) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 229995-008 | 230055-003 | 230055-005 | 230055-006 | 229993-006 | 231247-002 | 231248-003 | 231248-004 | 230110-006 | 230111-009 | 230156-007 |
| **Date** | | | 10/28/2003 | 10/29/2003 | 10/29/2003 | 10/29/2003 | 10/27/2003 | 12/2/2003 | 12/2/2003 | 12/2/2003 | 10/30/2003 | 10/30/2003 | 10/31/2003 |
| **Depth** | | | 7.5-8.0 | 4.0-4.5 | 4.0-4.5 | 2.0-2.5 | 2.0-2.5 | 2.0-2.5 | 5.0-5.5 | 9.5-10.0 | 2.0-2.5 | 5.0-5.5 | 2.0-2.5 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | -- | -- | -- | 32.7 | -- | -- | -- | -- | 20 | 25.9 | 20.3* |
| **Beryllium[1]** | 7440-41-7 | 2 | 3.2 | 2.6 | 2.8 | -- | -- | 2.4 | 3.3 N* | 4* | -- | -- | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | 16.5 N | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| **Sample ID** | | | 16-31 (7.5-8.0) | 16-32 (2.0-2.5) | 16-41 (2.0-2.5) | 16-41 (5.0-5.5) | 16-41 (7.5-8.0) | 3C-11 (0-0.5) | 3C-13 (0-0.5) | 3C-15 (0-0.5) | 3C-17 (2.0-2.5) | 3C-2 (0-0.5) | 3C-5A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 229994-004 | 229993-001 | 231247-005 | 231248-007 | 231248-008 | 395540 | 395548 | 395545 | 395553 | 395535 | 394798 |
| **Date** | | | 10/27/2003 | 10/27/2003 | 12/2/2003 | 12/2/2003 | 12/2/2003 | 12/6/2002 | 12/6/2002 | 12/6/2002 | 12/6/2002 | 12/6/2002 | 12/4/2002 |
| **Depth** | | | 7.5-8.0 | 2.0-2.5 | 2.0-2.5 | 5.0-5.5 | 7.5-8.0 | 0-0.5 | 0-0.5 | 0-0.5 | 2.0-2.5 | 0-0.5 | 0-0.5 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | 22.5 N | 23 N | 23.9 N | 26.9 N | 20 *N | 594 | 59.1 | 35.7 | 145 | 21.5 | 22.2 |
| **Beryllium[1]** | 7440-41-7 | 2 | -- | 2 | 4.3 | 9.5 N* | 9.9* | -- | -- | -- | -- | -- | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1910 |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1150 |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**NOTES:**

All results are presented in milligrams per kilogram.

Depths are presented in feet below ground surface (bgs).

CAS-RN = Chemical Abstract Service Registry Number.

MSSCC = Most Stringent Soil Cleanup Criteria.

* - Indicates that the duplicate analysis was not within control limits.

B - Indicates that the analyte was detected at a concentration less than the MDL and is estimated.

*N - Indicates that the spiked recovery and the duplicate were not within control limits.

N - Indicates that the spiked sample recovery was not within control limits.

[1] Beryllium results are compared to an Alternative Remediation Criterion (ARC) of 16 mg/kg, established by NJDEP in their January 25, 2005 letter.

-- Indicates not sampled.

**APPENDIX C**
**Sitewide Soils Metals Summary**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Sample ID** | | | 16-DN1 (15.5-16.0) | 16-DN1 (7.0-7.5) | 16-DN2 (7.0-7.5) | 17-3 (18.0-18.5) | 17-3 (19.5-20) | 17-7 (11.5-12.0) | 17-DW1 (5.0-5.5) | 17-DW2 (16.0-16.5) | 17-DW2 (18.5-19.0) | 36-SW3 (0-0.5) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 497681 | 497680 | 497683 | 230483-001 | 230483-002 | 230238-002 | 230635-001 | 230635-002 | 230636-002 | 498189 |
| **Date** | | | 1/30/2004 | 1/30/2004 | 1/30/2004 | 11/11/2003 | 11/11/2003 | 11/4/2003 | 11/14/2003 | 11/14/2003 | 11/14/2003 | 2/2/2004 |
| **Depth** | | | 15.5-16.0 | 7.0-7.5 | 7.0-7.5 | 18.0-18.5 | 19.5-20 | 11.5-12.0 | 5.0-5.5 | 16.0-16.5 | 18.5-19.0 | 0-0.5 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | -- | 21.2 | 23.5 | -- | -- | 3.2 | -- | -- | -- | 24.2 |
| **Beryllium[1]** | 7440-41-7 | 2 | 8.1 | 2.3 | | 6.2 | 6.7 | | 2.1 | 3.2 | 4.8 | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| **Sample ID** | | | 3CD-1 (0-0.5) | A17-35-A | A17-3-A | A17-7-A | A23-4 | A23-4-A | A29-1-B | A29-2-A | 3CD-1 (5.5-6) | 3CD-N1 (1-1.5) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 497660 | 93652002 | 93652007 | 93652005 | 357428 | 357429 | 256802 | 257518 | 497661 | 497664 |
| **Date** | | | 1/27/2004 | 9/14/1999 | 9/14/1999 | 9/14/1999 | 6/19/2002 | 6/19/2002 | 2/13/2001 | 2/14/2001 | 1/27/2004 | 1/30/2004 |
| **Depth** | | | 0-0.5 | 3.0-3.5 | 13.0-13.5 | 8.0-8.5 | 0-0.5 | 0-0.5 | 16.0-16.5 | 6.5-7.0 | 5.5-6 | 1.0-1.5 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | 484 | -- | -- | -- | -- | -- | -- | -- | 20.3 | 160 |
| **Beryllium[1]** | 7440-41-7 | 2 | -- | -- | 4.6 | 3.94 | -- | -- | -- | -- | -- | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | 1510 | 2140 | 1840 | 4130 | -- | -- |
| **Lead** | 7439-92-1 | 400 | 525 | -- | -- | -- | -- | -- | -- | 422 | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | 587 | 754 | 3910 | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | 2.24 | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | 2240 | -- | -- |

**NOTES:**

All results are presented in milligrams per kilogram.

Depths are presented in feet below ground surface (bgs).

CAS-RN = Chemical Abstract Service Registry Number.

MSSCC = Most Stringent Soil Cleanup Criteria.

* - Indicates that the duplicate analysis was not within control limits.

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N - Indicates that the spiked sample recovery was not within control limits.

[1] Beryllium results are compared to an Alternative Remediation Criterion (ARC) of 16 mg/kg, established by NJDEP in their January 25, 2005 letter.

-- Indicates not sampled.

**APPENDIX C**
**Sitewide Soils Metals Summary**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Sample ID** | | | 3CD-S3 (0-0.5) | 3D-12A | 3D-13A | 3D-15A | 3D-2A | 3D-7A | 3D-9 | 3F-4 | 3F-4 | 3F-4D (11.5-12) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 497657 | 394785 | 394782 | 394779 | 394792 | 394776 | 394788 | 230392-001 | 394519 | 230392-004 |
| **Date** | | | 1/27/2004 | 12/4/2002 | 12/4/2002 | 12/4/2002 | 12/4/2002 | 12/4/2002 | 12/4/2002 | 11/7/2003 | 12/3/2002 | 11/7/2003 |
| **Depth** | | | 0-0.5 | 0-0.5 | 0-0.5 | 0-0.5 | 0-0.5 | 0-0.5 | 1.5-2 | 11.5-12.0 | 9-9.5 | 11.5-12.0 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | 21.5 | 111 | 281 | 79.2 | 178 | 64 | 64.3 | 23.7*N | 21.3 | 20.4*N |
| **Beryllium[1]** | 7440-41-7 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | 3940 | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | 1240 | | 725 | -- | | | | |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | 1920 | -- | | | | |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| **Sample ID** | | | 3CD-N1 (19.0-19.5) | 3CD-N1 (5.5-6.0) | 3CD-N2 (2.0-2.5) | 3CD-N2 (5.5-6) | 3CD-S1 (21.5-22) | 3CD-S2 (0-0.5) | 3CD-S2 (5.5-6.0) | A29-3-A | 3CD-S3 (0-0.5) | 3D-12A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 497666 | 497665 | 497667 | 497668 | 497653 | 497654 | 497655 | 257512 | 497657 | 394785 |
| **Date** | | | 1/30/2004 | 1/30/2004 | 1/30/2004 | 1/30/2004 | 1/27/2004 | 1/27/2004 | 1/27/2004 | 2/14/2001 | 1/27/2004 | 12/4/2002 |
| **Depth** | | | 19.0-19.5 | 5.5-6.0 | 2.0-2.5 | 5.5-6.0 | 21.5-22 | 0-0.5 | 5.5-6.0 | 5.0-5.5 | 0-0.5 | 0-0.5 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | -- | 24.2 | 27.5 | 27.9 | 25.6 | 25.5 | 27 | -- | 21.5 | 111 |
| **Beryllium[1]** | 7440-41-7 | 2 | 3 | -- | -- | -- | 2.2 | -- | -- | -- | -- | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | -- | 563 | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | 633 | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**NOTES:**

All results are presented in milligrams per kilogram.

Depths are presented in feet below ground surface (bgs).

CAS-RN = Chemical Abstract Service Registry Number.

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N - Indicates that the spiked sample recovery was not within control limits.

[1] Beryllium results are compared to an Alternative Remediation Criterion (ARC) of 16 mg/kg, established by NJDEP in their January 25, 2005 letter.

-- Indicates not sampled.

**APPENDIX C**
**Sitewide Soils Metals Summary**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Sample ID** | | | 3F-4D (15.5-16) | A10-22-A | A10-31-2-A | A17-27-A | 3D-9 | 3F-4 | 3F-4 | 3F-4D (11.5-12) | 3F-4D (15.5-16) | A10-22-A | A10-31-2-A | A17-27-A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 230393-005 | 92522008 | 92496009 | 93652003 | 394788 | 230392-001 | 394519 | 230392-004 | 230393-005 | 92522008 | 92496009 | 93652003 |
| **Date** | | | 11/7/2003 | 6/21/1999 | 6/18/1999 | 9/14/1999 | 12/4/2002 | 11/7/2003 | 12/3/2002 | 11/7/2003 | 11/7/2003 | 6/21/1999 | 6/18/1999 | 9/14/1999 |
| **Depth** | | | 15.5-16.0 | 2.5-3.0 | 8.0-8.5 | 3.0-3.5 | 1.5-2 | 11.5-12.0 | 9-9.5 | 11.5-12.0 | 15.5-16.0 | 2.5-3.0 | 8.0-8.5 | 3.0-3.5 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | 38.1*N | -- | -- | -- | 64.3 | 23.7*N | 21.3 | 20.4*N | 38.1*N | -- | -- | -- |
| **Beryllium[1]** | 7440-41-7 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | | 605 | 5900 | -- | -- | -- | -- | -- | -- | 605 | 5900 | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | 2.12 | -- | -- | -- | -- | -- | -- | -- | 2.12 |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| **Sample ID** | | | 3D-13A | 3D-15A | 3D-2A | 3D-7A | 3F-4D (11.5-12) | 3F-4D (15.5-16) | A10-22-A | A10-31-2-A | A17-27-A | A17-35-A | A17-3-A | A17-7-A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 394782 | 394779 | 394792 | 394776 | 230392-004 | 230393-005 | 92522008 | 92496009 | 93652003 | 93652002 | 93652007 | 93652005 |
| **Date** | | | 12/4/2002 | 12/4/2002 | 12/4/2002 | 12/4/2002 | 11/7/2003 | 11/7/2003 | 6/21/1999 | 6/18/1999 | 9/14/1999 | 9/14/1999 | 9/14/1999 | 9/14/1999 |
| **Depth** | | | 0-0.5 | 0-0.5 | 0-0.5 | 0-0.5 | 11.5-12.0 | 15.5-16.0 | 2.5-3.0 | 8.0-8.5 | 3.0-3.5 | 3.0-3.5 | 13.0-13.5 | 8.0-8.5 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | 281 | 79.2 | 178 | 64 | 20.4*N | 38.1*N | -- | -- | -- | -- | -- | -- |
| **Beryllium[1]** | 7440-41-7 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.6 | 3.94 |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | 3940 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | 1240 | -- | 725 | -- | -- | -- | 605 | 5900 | -- | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | 1920 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | 2.12 | 2.24 | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**NOTES:**

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N - Indicates that the spiked sample recovery was not within control limits.

[1] Beryllium results are compared to an Alternative Remediation Criterion (ARC) of 16 mg/kg, established by NJDEP in their January 25, 2005 letter.

-- Indicates not sampled.

**APPENDIX C**
**Sitewide Soils Metals Summary**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Sample ID** | | | A17-35-A | A17-3-A | A17-7-A | A23-4 | A23-4-A | A29-1-B | 3CD-S3 (0-0.5) | 3D-12A | 3D-13A | 3D-15A | 3D-2A | 3D-7A | 3D-9 | 3F-4 | 3F-4 | A31-12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 93652002 | 93652007 | 93652005 | 357428 | 357429 | 256802 | 497657 | 394785 | 394782 | 394779 | 394792 | 394776 | 394788 | 230392-001 | 394519 | 344334 |
| **Date** | | | 9/14/1999 | 9/14/1999 | 9/14/1999 | 6/19/2002 | 6/19/2002 | 2/13/2001 | 1/27/2004 | 12/4/2002 | 12/4/2002 | 12/4/2002 | 12/4/2002 | 12/4/2002 | 12/4/2002 | 11/7/2003 | 12/3/2002 | 4/16/2002 |
| **Depth** | | | 3.0-3.5 | 13.0-13.5 | 8.0-8.5 | 0-0.5 | 0-0.5 | 16.0-16.5 | 0-0.5 | 0-0.5 | 0-0.5 | 0-0.5 | 0-0.5 | 0-0.5 | 1.5-2 | 11.5-12.0 | 9-9.5 | 10.5-11.0 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | -- | -- | -- | -- | -- | -- | 21.5 | 111 | 281 | 79.2 | 178 | 64 | 64.3 | 23.7*N | 21.3 | -- |
| **Beryllium[1]** | 7440-41-7 | 2 | -- | 4.6 | 3.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.2 |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | 1510 | 2140 | 1840 | -- | -- | -- | -- | 3940 | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | 1240 | | 725 | -- | -- | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | 587 | 754 | 3910 | -- | -- | -- | -- | 1920 | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | 2.24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| **Sample ID** | | | A23-4 | A23-4-A | A29-1-B | A29-2-A | A29-3-A | A29-3-C | A29-3-D | A29-3-E | A29-4-A | A29-4-A | A29-5-A | A29-5-C | A29-N1 | A29-N2 | A31-10 | A3A-25-A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 357428 | 357429 | 256802 | 257518 | 257512 | 257515 | 257516 | 257517 | 256797 | 256800 | 258050 | 258053 | 498138 | 498140 | 344332 | 93753010 |
| **Date** | | | 6/19/2002 | 6/19/2002 | 2/13/2001 | 2/14/2001 | 2/14/2001 | 2/14/2001 | 2/14/2001 | 2/14/2001 | 2/13/2001 | 2/13/2001 | 2/15/2001 | 2/15/2001 | 2/3/2004 | 2/3/2004 | 4/16/2002 | 9/21/1999 |
| **Depth** | | | 0-0.5 | 0-0.5 | 16.0-16.5 | 6.5-7.0 | 5.0-5.5 | 25.0-25.5 | 29.0-39.5 | 34.0-34.5 | 6.0-6.5 | 6.0-6.5 | 6.0-6.5 | 29.0-29.5 | 6.0-6.5 | 6.0-6.5 | 9.5-10.0 | 2.0-2.5 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | 21.2 | 224 | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 22.1 | -- | 37.3 | 29.4 | -- | -- |
| **Beryllium[1]** | 7440-41-7 | 2 | -- | -- | -- | -- | -- | -- | 2.2 | 3.4 | -- | -- | 2.2 | 3.1 | -- | -- | 2.7 | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | 45.4 | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | 1510 | 2140 | 1840 | 4130 | -- | 5640 | -- | -- | -- | -- | -- | -- | 712 | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | 422 | 563 | -- | -- | -- | 556 | 1900 | -- | -- | 442 | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | 587 | 754 | 3910 | -- | 633 | 250 | -- | -- | 424 | 311 | -- | -- | 265 | 496 | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.98 |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | 2240 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**NOTES:**

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CAS-RN = Chemical Abstract Service Registry Number.

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-- Indicates not sampled.

**APPENDIX C**
**Sitewide Soils Metals Summary**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Sample ID** | | | A31-4 | A31-7 | A31-8 | A33-1 | A33-2 | A33-2 | A33-3 | A33-N | A33-N | A37-2-A | A39-E1 | A39-E1 | A39-S1 | A39-S1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 345224 | 344339 | 344335 | 230444-003 | 230444-002 | 357423 | 357424 | 230444-004 | 230445-004 | 258045 | 498151 | 498149 | 498142 | 498144 |
| **Date** | | | 4/18/2002 | 4/16/2002 | 4/16/2002 | 11/10/2003 | 11/10/2003 | 6/19/2002 | 6/19/2002 | 11/10/2003 | 11/11/2003 | 2/16/2001 | 2/3/2004 | 2/3/2004 | 2/3/2004 | 2/3/2004 |
| **Depth** | | | 0-0.5 | 9.0-9.5 | 9.5-10.0 | 5.0-5.5 | 1.5-2.0 | 0-0.5 | 0-0.5 | 0-0.5 | 5.0-5.5 | 0-0.5 | 11.5-12 | 3.5-4.0 | 3.5-4.0 | 6.5-7.0 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3230 | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | 20.2 | -- | -- | 25.1 | 20.1 | 31.2 | 69.4 | 24 | 141 N | 64.7 | -- | 71.9 | 28.4 | 22.8 |
| **Beryllium[1]** | 7440-41-7 | 2 | -- | 2.1 | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2 |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 817 | 1880 | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 30800 | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 635 | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| **Sample ID** | | | A3A-27-A | A3A-7-A | A3B-7-A | AOC-2-10A | AOC2-11A | AOC2-11B | AOC2-12B | AOC2-13A | AOC2-14A | AOC2-14B | AOC2-15B | AOC2-16A | AOC-2-16B | AOC2-4B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 9375012 | 93753003 | 93741004 | 230234-013 | 230234-015 | 230234-016 | 230234-018 | 230234-019 | 230234-021 | 230234-022 | 230234-024 | 230234-025 | 230234-026 | 230234-002 |
| **Date** | | | 9/21/1999 | 9/21/1999 | 9/21/1999 | 11/4/2003 | 11/4/2003 | 11/4/2003 | 11/4/2003 | 11/4/2003 | 11/4/2003 | 11/4/2003 | 11/4/2003 | 11/4/2003 | 11/4/2003 | 11/4/2003 |
| **Depth** | | | 2.0-2.5 | 1.5-2.0 | 2.5-3.0 | 2.5-3.0 | 4.5-5.0 | 8.5-9.0 | 8.5-9.0 | 8.5-9.0 | 6.5-7.0 | 11.5-12.0 | 8.5-9.0 | 6.5-7.0 | 1.5-12.0 | 6.5-7.0 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Beryllium[1]** | 7440-41-7 | 2 | -- | -- | -- | 2.5 | 2.1 | 2.5 | 2.2 | 9.5 | 5 | 3.9 | 2.5 | 6.7 | 3.8 | 3.5 |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | 3.37 | 2.22 | 2.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**NOTES:**

All results are presented in milligrams per kilogram.

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CAS-RN = Chemical Abstract Service Registry Number.

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N - Indicates that the spiked sample recovery was not within control limits.

[1] Beryllium results are compared to an Alternative Remediation Criterion (ARC) of 16 mg/kg, established by NJDEP in their January 25, 2005 letter.

-- Indicates not sampled.

**APPENDIX C**
**Sitewide Soils Metals Summary**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| Sample ID | | | A3A-11-A | A3A-13-A | A3A-15-A | A3A-17-A | A3A-19-A | A3A-1-A1 | A3A-1-A | A3A-23-A | AOC-39-6 | AOC-3C-15A | AOC-3C-2B | AOC-3D-12A | AOC-3D-13A | AOC-3D-15A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 93753006 | 93753005 | 93753009 | 93753008 | 93753007 | 93753002 | 93753001 | 9375011 | 230327-007 | 230361-019 | 230361-010 | 230361-007 | 230361-005 | 230361-019 |
| **Date** | | | 9/21/1999 | 9/21/1999 | 9/21/1999 | 9/21/1999 | 9/21/1999 | 9/21/1999 | 9/21/1999 | 9/21/1999 | 11/5/2003 | 11/6/2003 | 11/6/2003 | 11/6/2003 | 11/6/2003 | 11/6/2003 |
| **Depth** | | | 2.3-3.0 | 0.5-1.0 | 2.0-2.5 | 3.5-4.0 | 2.5-3.0 | 1.5-2.0 | 1.5-2.0 | 3.5-4.0 | 2.5-3.0 | 5.5-6.0 | 9.5-10.0 | 3.5-4.0 | 3.5-4.0 | 5.5-6.0 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | 20 | -- | -- | -- | -- | -- | -- | -- | 21.6* | 206 N | 28.3 N | 174 N | 221 N | 206 N |
| **Beryllium[1]** | 7440-41-7 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | 2.23 | 3 | 2.02 | 2.68 | 2.48 | 2.68 | 2.16 | 2.25 | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| Sample ID | | | AOC2-5B | AOC2-6B | AOC2-8B | AOC2-9B | AOC-39-1A | AOC-39-1C | AOC-39-2 | AOC-39-4 | C2002.0 | C2311.0 | C2202.0 | C2601.0 | C4302.5 | C4402.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 23034-004 | 230234-006 | 230234-010 | 230234-012 | 230327-001 | 230327-003 | 230327-004 | 230327-006 | 584321 | 583292 | 584321 | 592366 | 582428 | 582430 |
| **Date** | | | 11/4/2003 | 11/4/2003 | 11/4/2003 | 11/4/2003 | 11/5/2003 | 11/5/2003 | 11/5/2003 | 11/5/2003 | 11/12/2004 | 11/10/2004 | 11/12/2004 | 12/10/2004 | 11/8/2004 | 11/8/2004 |
| **Depth** | | | 9.5-10.0 | 6.5-7.0 | 6.5-7.0 | 6.5-7.0 | 3.5-4.0 | 11.5-12.0 | 2.5-3.0 | 2.5-3.0 | 2.0-2.5 | 11.0-11.5 | 2.0-2.5 | 1.0-1.5 | 2.5-3.0 | 2.5-3.0 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | -- | -- | -- | -- | -- | 22.1* | 31.5* | 21.9* | 142 | -- | 142 | 23.8 | -- | 30.2 |
| **Beryllium[1]** | 7440-41-7 | 2 | 2.3 | 2.1 | 2.3 | 3.3 | 2.1 | -- | -- | -- | -- | 3.5 | -- | -- | 2.1 | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | 708* | -- | -- | -- | -- | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**NOTES:**

All results are presented in milligrams per kilogram.

Depths are presented in feet below ground surface (bgs).

CAS-RN = Chemical Abstract Service Registry Number.

MSSCC = Most Stringent Soil Cleanup Criteria.

* - Indicates that the duplicate analysis was not within control limits.

B - Indicates that the analyte was detected at a concentration less than the MDL and is estimated.

*N - Indicates that the spiked recovery and the duplicate were not within control limits.

N - Indicates that the spiked sample recovery was not within control limits.

[1] Beryllium results are compared to an Alternative Remediation Criterion (ARC) of 16 mg/kg, established by NJDEP in their January 25, 2005 letter.

-- Indicates not sampled.

**APPENDIX C**
**Sitewide Soils Metals Summary**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| Sample ID | | | B-16-1 | B-16-10 | B-16-2 | B-16-3 | B-16-4 | B-16-9 | B2-0-4 | C0102.0 | C0900.0 | C0911.5 | C1502.0 | C1511.5 | C1820.0 | C1902.0 | C2000.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 230210-001 | 496744 | 230210-002 | 230210-003 | 230210-004 | 231287-015 | 89347 | 586553 | 584765 | 591231 | 584322 | 591230 | 583945 | 585097 | 583293 |
| **Date** | | | 11/3/2003 | 1/26/2004 | 11/3/2003 | 11/3/2003 | 11/3/2003 | 12/4/2003 | 8/10/1998 | 11/19/2004 | 11/15/2004 | 12/8/2004 | 11/12/2004 | 12/8/2004 | 11/11/2004 | 11/16/2004 | 11/10/2004 |
| **Depth** | | | 12.5-13.0 | 26.5-27.0 | 12.5-13.0 | 26.5-27.0 | 26.5-27.0 | 18.5-19.0 | 2.0-4.0 | 2.0-2.5 | 0-0.5 | 11.5-12.0 | 2.0-2.5 | 11.5-12.0 | 2.0-2.5 | 2.0-2.5 | 0-0.5 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | 20.6 N | -- | -- | 22.2 N | 106 N | -- | 20.2 | -- | 36.2 | 24.9 | 42.9 | -- | -- | 22.8 | -- |
| **Beryllium[1]** | 7440-41-7 | 2 | -- | 3.7 | 2 | 2.6 | 2.7 | 2.1 | -- | -- | -- | 2.5 | -- | 2 | 2.2 | -- | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1400 | 2950 |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | -- | 9680 | -- | -- | -- | -- | -- | 1040 | 421 |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1020 |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| Sample ID | | | C4411.5 | C4440.5 | C4500.0 | C4534.0 | C4702.5 | C4711.5 | C5102.0 | C5200.0 | C5500.5 | C5800.0 | C6000.0 | C6504.d | C6511.5 | C7000.0 | D0103.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 582431 | 590505 | 586018 | 590504 | 590962 | 590963 | 590968 | 590489 | 590494 | 590497 | 590499 | 592359 | 592360 | 594945 | 604249 |
| **Date** | | | 11/8/2004 | 12/6/2004 | 11/18/2004 | 12/6/2004 | 12/7/2004 | 12/7/2004 | 12/7/2004 | 12/6/2004 | 12/6/2004 | 12/6/2004 | 12/6/2004 | 12/10/2004 | 12/10/2004 | 12/17/2004 | 2/2/2005 |
| **Depth** | | | 11.5-12.0 | 40.5-41.0 | 0-0.5 | 34.0-34.5 | 2.5-3.0 | 11.5-12.0 | 2.0-2.5 | 0-0.5 | 0-0.5 | 0-0.5 | 0-0.5 | 4.0-4.5 | 11.5-12.0 | 0-0.5 | 3.5-4.0 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | 24.9 | 37.5 | 1010 | 24.1 | -- | -- | 27.5 | 44.4 | 164 | -- | 54.7 | -- | -- | 25.1 | 30.5 |
| **Beryllium[1]** | 7440-41-7 | 2 | -- | 2.2 | -- | 2.3 | 2.4 | 5.8 | -- | -- | -- | -- | -- | -- | 2.3 | -- | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 450 | -- | 334 | | | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**NOTES:**

All results are presented in milligrams per kilogram.

Depths are presented in feet below ground surface (bgs).

CAS-RN = Chemical Abstract Service Registry Number.

MSSCC = Most Stringent Soil Cleanup Criteria.

* - Indicates that the duplicate analysis was not within control limits.

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*N - Indicates that the spiked recovery and the duplicate were not within control limits.

N - Indicates that the spiked sample recovery was not within control limits.

[1] Beryllium results are compared to an Alternative Remediation Criterion (ARC) of 16 mg/kg, established by NJDEP in their January 25, 2005 letter.

-- Indicates not sampled.

**APPENDIX C**
**Sitewide Soils Metals Summary**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| Sample ID | | | C2001.0 | C2007.5 | EF208.0 | EF308.0 | EF408.0 | EF435.5 | F0209.5 | F0902.0 | F1102.0 | F1400.0 | F1500.0 | F1502.0 | F2400.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | | | 591237 | 583295 | 601094 | 601095 | 601096 | 601087 | 601088 | 600827 | 600828 | 601065 | 600829 | 600824 | 601243 |
| Date | | | 12/8/2004 | 11/10/2004 | 1/17/2005 | 1/17/2005 | 1/17/2005 | 1/17/2005 | 1/17/2005 | 1/14/2005 | 1/14/2005 | 1/17/2005 | 1/14/2005 | 1/14/2005 | 1/18/2005 |
| Depth | | | 1.0-1.5 | 7.5-8.0 | 8.0-8.5 | 8.0-8.5 | 8.0-8.5 | 5.5-6.0 | 9.5-10.0 | 2.0-2.5 | 2.0-2.5 | 0-0.5 | 0-0.5 | 2.0-2.5 | 0-0.5 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | -- | -- | 27.1 | -- | -- | -- | -- | -- | -- | -- | 54.9 | 23.4 | 25 |
| **Beryllium[1]** | 7440-41-7 | 2 | 2 | 4.1 | 2.5 | 2.1 | 2.2 | 3.6 | 8.2 B | 2.8 | 2.5 | 2.1 | -- | 2 | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5140 | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | 31.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7620 | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| Sample ID | | | DUPLICATE | EF108.0 | PES-4-5 | S1 | S1 | S1-HOLE4 | S2 | S2 | S3 | S4 | S5 | S6 | S7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | | | 60158009 | 601093 | 61662-005 | 60158001 | 87610 | 87713 | 60158002 | 87611 | 60158003 | 60158004 | 60158005 | 60158006 | 60158007 |
| Date | | | 1/17/1996 | 1/17/2005 | 4/25/1996 | 1/17/1996 | 7/18/1988 | 7/19/1988 | 1/17/1996 | 7/18/1988 | 1/17/1996 | 1/17/1996 | 1/17/1996 | 1/17/1996 | 1/17/1996 |
| Depth | | | NR | 8.0-8.5 | 2.5-3.0 | NR | 0 | 0-2 | NR | 0 | NR | NR | NR | NR | NR |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | -- | 21.3 | -- | -- | 45.1 | 42.8 | -- | 21.2 | -- | -- | -- | 20 | -- |
| **Beryllium[1]** | 7440-41-7 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | 1060 | -- | -- | 916 | 1190 | -- | 696 | -- | 1180 | 938 | 1340 | 1530 | 1690 |
| **Lead** | 7439-92-1 | 400 | 466 | -- | -- | 464 | -- | -- | 416 | -- | 467 | 405 | 519 | 784 | 547 |
| **Mercury** | 7439-97-6 | 14 | 28.5 | -- | -- | 29.1 | -- | -- | 41.5 | -- | 39.2 | 16.3 | 56 | 38.1 | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | 254 | -- | -- | 259 | -- | 268 | -- | -- | 251 | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | 2.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | 2400 | -- | -- | -- | -- | -- | -- | -- | 2350 | 2700 | 3630 | 3820 | 4830 |

**NOTES:**

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* - Indicates that the duplicate analysis was not within control limits.

B - Indicates that the analyte was detected at a concentration less than the MDL and is estimated.

*N - Indicates that the spiked recovery and the duplicate were not within control limits.

N - Indicates that the spiked sample recovery was not within control limits.

[1] Beryllium results are compared to an Alternative Remediation Criterion (ARC) of 16 mg/kg, established by NJDEP in their January 25, 2005 letter.

-- Indicates not sampled.

**APPENDIX C**
**Sitewide Soils Metals Summary**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Sample ID** | | | FL111.5 | FL211.5 | FP119.5 | HOLE 5 | L_P_N | L_P_S | L_P_W | OWS-1P | PES-12-1 | PES-12-4 | PES-12-5 | PES-12-6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 586556 | 58658 | 592003 | 89236 | 189367 | 189368 | 189370 | 231411-002 | 61929001 | 61929004 | 61929005 | 61929006 |
| **Date** | | | 11/19/2004 | 11/19/2004 | 12/9/2004 | 8/9/1988 | 3/13/2000 | 3/13/2000 | 3/13/2000 | 12/9/2003 | 5/10/1996 | 5/10/1996 | 5/10/1996 | 5/10/1996 |
| **Depth** | | | 11.5-12.0 | 11.5-12.0 | 19.5-20.0 | 0-2.0 | 0-0.5 | 0-0.5 | 0-0.5 | 7.0-7.5 | 14.0-14.5 | 14.0-14.5 | 14.0-14.5 | 14.0-14.5 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | -- | -- | -- | -- | -- | -- | -- | 20.9 N | 20.3 | -- | -- | -- |
| **Beryllium[1]** | 7440-41-7 | 2 | 2.2 | 2.6 | 2.9 | 23 | -- | -- | -- | -- | -- | 2.1 | 2.8 | 8.2 |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | 933 | 749 | 1210 | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | 427 | -- | -- | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | 14 | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | 269 | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | 2300 | 1630 | 2900 | -- | -- | -- | -- | -- |

| **Sample ID** | | | S8 | SITE 1/S1 | SITE 6/S1 | SITE 7/S3 | SP-1 | SS-12-07 | TRC_NLF-3-4-6 | TRC_OLF-4-40 | TRC_OLF-4-4-6 | TRC_OLF-5-6-8 | TRC_OLF-7-29-31 | TRC_OLF-8-6-8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 60158008 | 90036 | 90505 | 91261 | 498951 | 62049004 | 375707 | 375704 | 375703 | 375158 | 375165 | 375159 |
| **Date** | | | 1/17/1996 | 8/18/1988 | 8/24/1988 | 9/2/1988 | 2/5/2004 | 5/21/1996 | 9/11/2002 | 9/10/2002 | 9/10/2002 | 9/9/2002 | 9/10/2002 | 9/9/2002 |
| **Depth** | | | NR | 0-2.0 | 0-3 | 4.0-6.0 | 0-0.5 | 10.5-11.0 | 4.0-6.0 | 40.0-42.0 | 4.0-6.0 | 6.0-8.0 | 29.0-31.0 | 6.0-8.0 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | -- | -- | 33.4 | 21.8 | -- | 44.3 | 40.4 | -- | -- | -- | -- | -- |
| **Beryllium[1]** | 7440-41-7 | 2 | 3.5 B | -- | -- | -- | -- | -- | -- | 2.9 | -- | -- | 2.4 | |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | 2390 | -- | -- | -- | 1140 | -- | -- | -- | -- | 1300 | -- | -- |
| **Lead** | 7439-92-1 | 400 | 731 | 430 | -- | -- | -- | -- | -- | -- | 1540 | 306 | -- | 511 |
| **Mercury** | 7439-97-6 | 14 | 90.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | 340 B | -- | 372 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | 4940 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1660 |

**NOTES:**

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Depths are presented in feet below ground surface (bgs).

CAS-RN = Chemical Abstract Service Registry Number.

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B - Indicates that the analyte was detected at a concentration less than the MDL and is estimated.

*N - Indicates that the spiked recovery and the duplicate were not within control limits.

N - Indicates that the spiked sample recovery was not within control limits.

[1] Beryllium results are compared to an Alternative Remediation Criterion (ARC) of 16 mg/kg, established by NJDEP in their January 25, 2005 letter.

-- Indicates not sampled.

**APPENDIX C**
**Sitewide Soils Metals Summary**
Former Ingersoll-Rand Facilty
Phillipsburg, New Jersey

| **Sample ID** | | | TRC_OLF-9-25-27 | TRC_SP1 | TRC_TP1 | TRC-OLF1 | TRC-SP-6 | U_P_E | U_P_N | U_P_S | U_P_W | USTB-5DD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 375162 | 375709 | 376245 | 374547 | 375717 | 189373 | 189371 | 189372 | 189374 | 230328-002 |
| **Date** | | | 9/9/2002 | 9/11/2002 | 9/12/2002 | 9/6/2002 | 9/11/2002 | 3/13/2000 | 3/13/2000 | 3/13/2000 | 3/13/2000 | 11/5/2003 |
| **Depth** | | | 25.0-27.0 | NR | 6.0-8.0 | 8.0-10.0 | NR | 0-0.5 | 0-0.5 | 0-0.5 | 0-0.5 | 23.5-24.0 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | -- | -- | 126 | -- | -- | -- | -- | -- | -- | -- |
| **Beryllium**[1] | 7440-41-7 | 2 | -- | 2.9 | -- | -- | -- | -- | -- | -- | -- | 6 |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | 2470 | -- | -- | 2820 | 701 | 783 | 1140 | 1000 | 716 | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- | 1510 | 1850 | 2110 | -- | -- |

| **Sample ID** | | | USTB-5P | USTB-SS2B | USTB-SS3B | USTB-SS5A | USTB-SS6 |
|---|---|---|---|---|---|---|---|
| **LAB ID** | | | 230328-003 | 92474008 | 92474005 | 92474001 | 92462004 |
| **Date** | | | 11/5/2003 | 6/17/1999 | 6/17/1999 | 6/17/1999 | 6/16/1999 |
| **Depth** | | | 23.5-24.0 | 24.0-24.5 | 24.0-24.5 | 18.5-19.0 | 10.5-11.0 |
| **Analyte** | **CAS_RN** | **MSSCC** | | | | | |
| **Antimony** | 7440-36-0 | 14 | -- | -- | -- | -- | -- |
| **Arsenic** | 7440-38-2 | 20 | -- | -- | -- | -- | -- |
| **Beryllium**[1] | 7440-41-7 | 2 | 6.1 | 2.41 | 3.58 | 8.57 | 2.15 |
| **Cadmium** | 7440-43-9 | 39 | -- | -- | -- | -- | -- |
| **Copper** | 7440-50-8 | 600 | -- | -- | -- | -- | -- |
| **Lead** | 7439-92-1 | 400 | -- | -- | -- | -- | -- |
| **Mercury** | 7439-97-6 | 14 | -- | -- | -- | -- | -- |
| **Nickel** | 7440-02-0 | 250 | -- | -- | -- | -- | -- |
| **Thallium** | 7440-28-0 | 2 | -- | -- | -- | -- | -- |
| **Zinc** | 7440-66-6 | 1500 | -- | -- | -- | -- | -- |

**NOTES:**

All results are presented in milligrams per kilogram.

Depths are presented in feet below ground surface (bgs).

CAS-RN = Chemical Abstract Service Registry Number.

MSSCC = Most Stringent Soil Cleanup Criteria.

* - Indicates that the duplicate analysis was not within control limits.

B - Indicates that the analyte was detected at a concentration less than the MDL and is estimated.

*N - Indicates that the spiked recovery and the duplicate were not within control limits.

N - Indicates that the spiked sample recovery was not within control limits.

[1] Beryllium results are compared to an Alternative Remediation Criterion (ARC) of 16 mg/kg, established by NJDEP in their January 25, 2005 letter.

-- Indicates not sampled.

# APPENDIX D

**Wetlands Delineation Report**

# APPENDIX E

## Historic Groundwater Analytical Data Prior to May 2002

**Summary of Groundwater Analytical Results**
**1,1,1-Trichloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.3) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.3) | U | ppb |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.3) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | 1.8 | | ppb |
| MW04 | 348654 | 5/6/2002 | 12:10 | 1.2 | | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | 1.2 | | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | 1.2 | | ppb |
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.3) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.3) | U | ppb |
| MW06 | 349141 | 5/7/2002 | 13:25 | 17 | | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | **57** | | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | **55** | | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | 25 | | ppb |
| MW1 | 111372 | 1/4/1990 | 13:00 | (5.000) | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | 3.00 | J | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (1.000) | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (1.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.3) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.3) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.3) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | 3.8 | | ppb |
| MW16 | 167273 | 5/21/1993 | 14:00 | 17 | | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | **34.00** | | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | 19 | | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | 7.1 | | ppb |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (1.000) | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.3) | U | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.3) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.3) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.3) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (1.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.3) | U | ppb |
| MW2 | 96943 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | 3.00 | J | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.3) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.3) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,1,1-Trichloroethane was not detected at the reported MDL.

U indicates that 1,1,1-Trichloroethane was not detected above the MDL.

J indicates that 1,1,1-Tricloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1,1-Trichloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 30 ug/l

**Summary of Groundwater Analytical Results**
**1,1,1-Trichloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.3) | U | ppb |
| MW21 | 167354 | 5/24/1993 | 15:25 | (5) | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (1.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.3) | U | ppb |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.3) | U | ppb |
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.3) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.3) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.3) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.3) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.3) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.3) | U | ppb |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.3) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.3) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.3) | U | ppb |
| MW2A | 111373 | 1/4/1990 | 13:45 | (5.000) | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | (5) | U | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | (5) | U | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | 7 | | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | 30 | | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | 18 | | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | 25 | | ppb |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | (5) | U | ug/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (5.000) | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (5.000) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | (5) | U | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | (5) | U | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | (5) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (1.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.500) | U | ug/l |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.3) | U | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.3) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.3) | U | ppb |
| MW32 | 349145 | 5/8/2002 | 10:30 | 8.1 | | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | 7.4 | | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | 8.5 | | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | 7.6 | | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | 11 | | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | 4.3 | | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | 3.5 | | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | 3.4 | | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | 3.6 | | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | 4.2 | | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | 1.7 | | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | 4.6 | | ppb |

**NOTES:**
Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)
Q = Laboratory Qualifier
ug/l = micrograms per liter (parts per billion)
Results in parenthesis indicate that 1,1,1-Trichloroethane was not detected at the reported MDL.
U indicates that 1,1,1-Trichloroethane was not detected above the MDL.
J indicates that 1,1,1-Tricloroethane was detected below MDL and is estimated.
**BOLD** indicates that the reported 1,1,1-Trichloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 30 ug/l

**Summary of Groundwater Analytical Results**
**1,1,1-Trichloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW35 | 92394004 | 6/11/1999 | 9:45 | **210** | | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | **70** | | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | **82** | | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | **82** | | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.500) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.3) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.500) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (0.3) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.500) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.3) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.3) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.3) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.3) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (0.500) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.3) | U | ppb |
| MW4 | 96945 | 1/11/1989 | 0:00 | 5.00 | | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (5.000) | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | (5.000) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | (5) | U | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | (5) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (1.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.500) | U | ug/l |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.3) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | 1 | | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | 2.1 | | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.3) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.3) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.3) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.3) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | (5.000) | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (5.000) | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | (5.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (5) | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | (1.000) | U | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | **150** | | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | **91** | | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | **95** | | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | **80** | | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | **33** | | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,1,1-Trichloroethane was not detected at the reported MDL.

U indicates that 1,1,1-Trichloroethane was not detected above the MDL.

J indicates that 1,1,1-Tricloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1,1-Trichloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 30 ug/l

**Summary of Groundwater Analytical Results**
**1,1,1-Trichloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW09A | 347413 | 4/29/2002 | 12:00 | (0.5) | U | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | (0.5) | U | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | (0.3) | U | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | (1.3) | U | ppb |
| RW1 | 105947 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | 3 | J | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | (5.000) | U | ug/l |
| RW10 | 349615 | 5/9/2002 | 13:00 | 3.9 | | ppb |
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | 25 | | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | 27 | | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | 18 | | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | 10 | | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | 7.00 | | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (1.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.3) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | 5.4 | | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | 2.8 | | ppb |
| RW14 | 141899 | 12/2/1991 | 10:00 | **31.00** | | ug/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | 10 | | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | 7 | | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | 5.1 | | ppb |
| RW15A | 347427 | 4/29/2002 | 10:30 | 1 | | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | 1 | | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | 1 | | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | 0.9 | | ppb |
| RW16A | 347411 | 4/29/2002 | 11:35 | **96** | | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | **88** | | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **(10000.000)** | U | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | (25.000) | U | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | 5.00 | J | ug/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | 9 | | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | 7 | | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | 4 | J | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | 7 | | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | 7.00 | | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | 4 | | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | 2.3 | | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | **290.00** | | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,1,1-Trichloroethane was not detected at the reported MDL.

U indicates that 1,1,1-Trichloroethane was not detected above the MDL.

J indicates that 1,1,1-Tricloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1,1-Trichloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 30 ug/l

**Summary of Groundwater Analytical Results**
**1,1,1,2-Tetrachloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.3) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.3) | U | ppb |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.3) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | (0.3) | U | ppb |
| MW04 | 348654 | 5/6/2002 | 12:10 | (0.3) | U | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | (0.3) | U | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | (0.3) | U | ppb |
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.3) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.3) | U | ppb |
| MW06 | 349141 | 5/7/2002 | 13:25 | (0.3) | U | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | (0.3) | U | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | (0.3) | U | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | (0.3) | U | ppb |
| MW1 | 111372 | 1/4/1990 | 13:00 | **(5.000)** | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | **(5.000)** | U | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | **(5.000)** | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | **(5.000)** | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | **(5)** | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | **(5)** | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | **(5.000)** | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (1.000) | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | **(5)** | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | **(5.000)** | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (1.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.3) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.3) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.3) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.3) | U | ppb |
| MW16 | 167273 | 5/21/1993 | 14:00 | **(5)** | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | **(5.000)** | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (1.000) | U | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | (0.3) | U | ppb |
| MW17 | 166759 | 5/14/1993 | 14:20 | **(5)** | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | **(5.000)** | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (1.000) | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.3) | U | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.3) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.3) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.3) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | **(5.000)** | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.3) | U | ppb |
| MW19 | 167272 | 5/21/1993 | 11:30 | **(5)** | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | **(5.000)** | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (1.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.3) | U | ppb |
| MW2 | 96943 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | **(5.000)** | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.3) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.3) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicates that 1,1,1,2-Tetrachloroethane was not detected at the reported MDL.

U indicates that 1,1,1,2-Tetrachloroethane was not detected above the MDL.

J indicates that 1,1,1,2-Tetrachloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1,1,2-Tetrachloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 1 ug/l.

**Summary of Groundwater Analytical Results**
**1,1,1,2-Tetrachloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW21 | 167354 | 5/24/1993 | 15:25 | **(5)** | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | **(5.000)** | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | **(2.000)** | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.3) | U | ppb |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.3) | U | ppb |
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.3) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.3) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.3) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.3) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.3) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.3) | U | ppb |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.3) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.3) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.3) | U | ppb |
| MW2A | 111373 | 1/4/1990 | 13:45 | **(5.000)** | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | **(5)** | U | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | **(5)** | U | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | **(5)** | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (1.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.460) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | (0.3) | U | ppb |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | **(5)** | U | ug/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | **(5.000)** | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | **(5.000)** | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | **(5.000)** | U | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | **(5)** | U | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | **30** | | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | **(5)** | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (1.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.460) | U | ug/l |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.3) | U | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.3) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.3) | U | ppb |
| MW32 | 349145 | 5/8/2002 | 10:30 | (0.3) | U | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | (0.3) | U | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | (0.3) | U | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | (0.3) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.460) | U | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | (0.3) | U | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | (0.3) | U | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | (0.3) | U | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.460) | U | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | (0.3) | U | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | (0.3) | U | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | (0.3) | U | ppb |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.460) | U | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | (0.3) | U | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | (0.3) | U | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | (0.3) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicates that 1,1,1,2-Tetrachloroethane was not detected at the reported MDL.

U indicates that 1,1,1,2-Tetrachloroethane was not detected above the MDL.

J indicates that 1,1,1,2-Tetrachloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1,1,2-Tetrachloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 1 ug/l.

**Summary of Groundwater Analytical Results**
**1,1,1,2-Tetrachloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.460) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.3) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.460) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (0.3) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.460) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.3) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.3) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.3) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.3) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (0.460) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.3) | U | ppb |
| MW4 | 96945 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | **(5.000)** | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | **(5.000)** | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | **(5.000)** | U | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | **(5)** | U | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | **(5)** | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | **(5)** | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (1.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.460) | U | ug/l |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.3) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.1) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | (0.3) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.1) | U | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.3) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.1) | U | ppb |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.3) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.1) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.3) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.1) | U | ppb |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.3) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.1) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | **(5.000)** | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | **(5.000)** | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | **(5.000)** | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | **(5)** | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | **(2.000)** | U | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | **(5.000)** | U | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | **(5)** | U | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | **(5)** | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | **(5)** | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (1.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.460) | U | ug/l |
| RW09A | 347413 | 4/29/2002 | 12:00 | (0.6) | U | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | (0.6) | U | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | (0.3) | U | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | **(1.6)** | U | ppb |
| RW1 | 105947 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | **(5.000)** | U | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | **(5.000)** | U | ug/l |
| RW10 | 349615 | 5/9/2002 | 13:00 | (0.3) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicates that 1,1,1,2-Tetrachloroethane was not detected at the reported MDL.

U indicates that 1,1,1,2-Tetrachloroethane was not detected above the MDL.

J indicates that 1,1,1,2-Tetrachloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1,1,2-Tetrachloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 1 ug/l.

**Summary of Groundwater Analytical Results**
**1,1,1,2-Tetrachloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW11 | 141900 | 12/2/1991 | 14:45 | **(5.000)** | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | **(5)** | U | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | **(5)** | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | **(5)** | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | **(5)** | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | **(5.000)** | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (1.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.3) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.460) | U | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | (0.3) | U | ppb |
| RW14 | 141899 | 12/2/1991 | 10:00 | **(5.000)** | U | ug/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | **(5)** | U | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | **(5)** | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | **(5)** | U | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | (0.3) | U | ppb |
| RW15A | 347427 | 4/29/2002 | 10:30 | (0.3) | U | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | (0.3) | U | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | (0.3) | U | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | (0.3) | U | ppb |
| RW16A | 347411 | 4/29/2002 | 11:35 | **(3.1)** | U | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | **(3.1)** | U | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **10000.000** | U | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | **(25.000)** | U | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | **(5.000)** | U | ug/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | **(5)** | U | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | **(5)** | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | **(5)** | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | **(5)** | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | **(5.000)** | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | **(2.000)** | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.3) | U | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | **(25.000)** | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicates that 1,1,1,2-Tetrachloroethane was not detected at the reported MDL.

U indicates that 1,1,1,2-Tetrachloroethane was not detected above the MDL.

J indicates that 1,1,1,2-Tetrachloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1,1,2-Tetrachloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 1 ug/l.

**Summary of Groundwater Analytical Results**
**1,1-Dichloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 111372 | 1/4/1990 | 13:00 | (5.000) | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | (5.000) | U | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (1.000) | U | ug/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.3) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.3) | U | ppb |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (1.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.3) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.3) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.3) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | 5 | | ppb |
| MW16 | 167273 | 5/21/1993 | 14:00 | 11 | | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | 11.00 | | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | 9 | | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | 6.2 | | ppb |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (1.000) | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.3) | U | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.3) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.3) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.3) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.3) | U | ppb |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (1.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.3) | U | ppb |
| MW2 | 96943 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | (5.000) | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.3) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.3) | U | ppb |
| MW21 | 167354 | 5/24/1993 | 15:25 | (5) | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (2.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.3) | U | ppb |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.3) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,1-Dichloroethane was not detected at the reported MDL.

U indicates that 1,1-Dichloroethane was not detected above the MDL.

J indicates that 1,1-Dichloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1-Dichloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 50 ug/l.

**Summary of Groundwater Analytical Results**
**1,1-Dichloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.3) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.3) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.3) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.3) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.3) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.3) | U | ppb |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.3) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.3) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.3) | U | ppb |
| MW2A | 111373 | 1/4/1990 | 13:45 | (5.000) | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | (5) | U | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | (5) | U | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (1.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (2.300) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | (0.3) | U | ppb |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | (5) | U | ug/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (5.000) | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (5.000) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | (5) | U | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | (5) | U | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | (5) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (1.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (2.300) | U | ug/l |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.3) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | 2.6 | | ppb |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.3) | U | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.3) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.3) | U | ppb |
| MW32 | 349145 | 5/8/2002 | 10:30 | 14 | | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | 13 | | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | 14 | | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | 14 | | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | 2.4 | | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | (0.3) | U | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | 1.1 | | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | 1.1 | | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (2.300) | U | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | (0.3) | U | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | (0.3) | U | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | 0.9 | | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,1-Dichloroethane was not detected at the reported MDL.

U indicates that 1,1-Dichloroethane was not detected above the MDL.

J indicates that 1,1-Dichloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1-Dichloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 50 ug/l.

**Summary of Groundwater Analytical Results**
**1,1-Dichloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW35 | 92394004 | 6/11/1999 | 9:45 | 49 | | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | 19 | | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | 26 | | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | 25 | | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (2.300) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.3) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (2.300) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (0.3) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (2.300) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.3) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.3) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.3) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.3) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (2.300) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.3) | U | ppb |
| MW4 | 96945 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (5.000) | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | (5.000) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | 4 | J | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | 4 | J | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (1.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (2.300) | U | ug/l |
| MW04 | 348654 | 5/6/2002 | 12:10 | 3.4 | | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | 3.3 | | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | 3.1 | | ppb |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.3) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | (0.3) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.3) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.3) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.3) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.3) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | (5.000) | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (5.000) | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | (5.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (5) | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | (2.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,1-Dichloroethane was not detected at the reported MDL.

U indicates that 1,1-Dichloroethane was not detected above the MDL.

J indicates that 1,1-Dichloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1-Dichloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 50 ug/l.

**Summary of Groundwater Analytical Results**
**1,1-Dichloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.3) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.3) | U | ppb |
| MW6 | 149708 | 5/18/1992 | 12:00 | 11.00 | | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | 15 | | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | 11 | | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | 12 | | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | 10 | | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | 11 | | ug/l |
| MW06 | 349141 | 5/7/2002 | 13:25 | 4.3 | | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | 19 | | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | 18 | | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | 6.3 | | ppb |
| RW09A | 347413 | 4/29/2002 | 12:00 | (0.5) | U | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | (0.5) | U | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | (0.3) | U | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | (1.4) | U | ppb |
| RW1 | 105947 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | (5.000) | U | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | (5.000) | U | ug/l |
| RW10 | 349615 | 5/9/2002 | 13:00 | (0.3) | U | ppb |
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | (5) | U | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | 3.00 | J | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (1.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.3) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | 1.5 | J | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | 1.5 | | ppb |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | (5) | U | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | 4 | J | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | 7 | | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | 8.9 | | ppb |
| RW15A | 347427 | 4/29/2002 | 10:30 | 3.6 | | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | 3.8 | | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | 3.9 | | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | 3.6 | | ppb |
| RW16A | 347411 | 4/29/2002 | 11:35 | **460** | | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | **440** | | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **(10000.000)** | U | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | 4 | J | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | (25.000) | U | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | 6 | | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,1-Dichloroethane was not detected at the reported MDL.

U indicates that 1,1-Dichloroethane was not detected above the MDL.

J indicates that 1,1-Dichloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1-Dichloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 50 ug/l.

**Summary of Groundwater Analytical Results**
**1,1-Dichloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | (5) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | 2 | J | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | 3.00 | J | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (2.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | 2.3 | | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | **210.00** | | ug/l |

**NOTES:**
Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)
Q = Laboratory Qualifier
ug/l = micrograms per liter (parts per billion)
Results in parenthesis indicate that 1,1-Dichloroethane was not detected at the reported MDL.
U indicates that 1,1-Dichloroethane was not detected above the MDL.
J indicates that 1,1-Dichloroethane was detected below MDL and is estimated.
**BOLD** indicates that the reported 1,1-Dichloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 50 ug/l.

**Summary of Groundwater Analytical Results**
**1,1-Dichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 111372 | 1/4/1990 | 13:00 | **(5.000)** | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | **(5.000)** | U | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | **(5.000)** | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | **(5.000)** | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | **(5)** | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | **(5)** | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | **(5.000)** | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (1.000) | U | ug/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.3) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.3) | U | ppb |
| MW13 | 166650 | 5/13/1993 | 14:55 | **(5)** | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | **(5.000)** | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (1.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.3) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.3) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.3) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | 1.3 | | ppb |
| MW16 | 167273 | 5/21/1993 | 14:00 | **(5)** | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | **3.00** | J | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (1.000) | U | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | **2.9** | | ppb |
| MW17 | 166759 | 5/14/1993 | 14:20 | **(5)** | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | **(5.000)** | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (1.000) | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.3) | U | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.3) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.3) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.3) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | **(5.000)** | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.3) | U | ppb |
| MW19 | 167272 | 5/21/1993 | 11:30 | **(5)** | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | **(5.000)** | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (1.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.3) | U | ppb |
| MW2 | 96943 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | **(5.000)** | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.3) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.3) | U | ppb |
| MW21 | 167354 | 5/24/1993 | 15:25 | **(5)** | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | **(5.000)** | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | **(3.000)** | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.3) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,1-Dichloroethylene was not detected at the reported MDL.

U indicates that 1,1-Dichloroethylene was not detected above the MDL.

J indicates that 1,1-Dichloroethylene was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1-Dichloroethylene concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**1,1-Dichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.3) | U | ppb |
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.3) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.3) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.3) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.3) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.3) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.3) | U | ppb |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.3) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.3) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.3) | U | ppb |
| MW2A | 111373 | 1/4/1990 | 13:45 | **(5.000)** | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | **(5)** | U | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | **(5)** | U | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | **(5)** | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (1.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | **1.2** | | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | **4.6** | | ppb |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | **(5)** | U | ug/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | **(5.000)** | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | **(5.000)** | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | **(5.000)** | U | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | **(5)** | U | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | **(5)** | U | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | **(5)** | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (1.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.710) | U | ug/l |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.3) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | 0.4 | | ppb |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.3) | U | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.3) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.3) | U | ppb |
| MW32 | 349145 | 5/8/2002 | 10:30 | **2.1** | | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | **3** | | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | **3.1** | | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | 1.5 | | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | **5.4** | | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | **2.1** | | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | 1.9 | | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | 1.5 | | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,1-Dichloroethylene was not detected at the reported MDL.

U indicates that 1,1-Dichloroethylene was not detected above the MDL.

J indicates that 1,1-Dichloroethylene was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1-Dichloroethylene concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**1,1-Dichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW34 | 92394003 | 6/11/1999 | 12:10 | **2.6** | | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | 1.2 | | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | (0.3) | U | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | 1.9 | | ppb |
| MW35 | 92394004 | 6/11/1999 | 9:45 | **10** | | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | **12** | | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | **16** | | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | **16** | | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.710) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.3) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.710) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (0.3) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.710) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.3) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.3) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.3) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.3) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (0.710) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.3) | U | ppb |
| MW4 | 96945 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | **(5.000)** | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | **(5.000)** | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | **(5.000)** | U | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | **(5)** | U | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | **(5)** | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | **(5)** | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (1.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.710) | U | ug/l |
| MW04 | 348654 | 5/6/2002 | 12:10 | 0.7 | | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | 0.8 | | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | 0.9 | | ppb |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.3) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | (0.3) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | 0.8 | | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.3) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.3) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.3) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.4) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,1-Dichloroethylene was not detected at the reported MDL.

U indicates that 1,1-Dichloroethylene was not detected above the MDL.

J indicates that 1,1-Dichloroethylene was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1-Dichloroethylene concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**1,1-Dichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.3) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | **(5.000)** | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | **(5.000)** | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | **(5.000)** | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | **(5)** | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | **(3.000)** | U | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | **10.00** | | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | **15** | | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | **12** | | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | **10** | | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | **10** | | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | 1.8 | | ug/l |
| RW09A | 347413 | 4/29/2002 | 12:00 | 0.7 | | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | (0.6) | U | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | 0.4 | | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | (1.4) | U | ppb |
| RW1 | 105947 | 8/23/1989 | 0:00 | 2 | J | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | **(5.000)** | U | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | **(5.000)** | U | ug/l |
| RW10 | 349615 | 5/9/2002 | 13:00 | 1.1 | | ppb |
| RW11 | 141900 | 12/2/1991 | 14:45 | **(5.000)** | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | **(5)** | U | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | **(5)** | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | **(5)** | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | **(5)** | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | **(5.000)** | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (1.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.3) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | 1.4 | | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | 0.8 | | ppb |
| RW14 | 141899 | 12/2/1991 | 10:00 | **(5.000)** | U | ug/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | **(5)** | U | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | **(5)** | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | **(5)** | U | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | (0.3) | U | ppb |
| RW15A | 347427 | 4/29/2002 | 10:30 | (0.3) | U | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | (0.3) | U | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | (0.3) | U | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | (0.3) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,1-Dichloroethylene was not detected at the reported MDL.

U indicates that 1,1-Dichloroethylene was not detected above the MDL.

J indicates that 1,1-Dichloroethylene was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1-Dichloroethylene concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**1,1-Dichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW16A | 347411 | 4/29/2002 | 11:35 | **14** | | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | **12** | | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **(10000.000)** | U | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | **(25.000)** | U | ug/l |
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.3) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.3) | U | ppb |
| RW6 | 105950 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW06 | 349141 | 5/7/2002 | 13:25 | **3** | | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | **10** | | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | **9.3** | | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | **5.3** | | ppb |
| TH36 | 143553 | 12/31/1991 | 10:30 | **(5.000)** | U | ug/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | **(5)** | U | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | **(5)** | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | **(5)** | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | **(5)** | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | **(5.000)** | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | **(3.000)** | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | 0.6 | | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | **27.00** | | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,1-Dichloroethylene was not detected at the reported MDL.

U indicates that 1,1-Dichloroethylene was not detected above the MDL.

J indicates that 1,1-Dichloroethylene was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,1-Dichloroethylene concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**1,2-Dichloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 111372 | 1/4/1990 | 13:00 | **(5.000)** | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | **(5.000)** | U | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | **(5.000)** | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | **(5.000)** | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | **(5)** | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | **(5)** | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | **(5.000)** | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (1.000) | U | ug/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.4) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.4) | U | ppb |
| MW13 | 166650 | 5/13/1993 | 14:55 | **(5)** | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | **(5.000)** | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (1.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.4) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.4) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.4) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.4) | U | ppb |
| MW16 | 167273 | 5/21/1993 | 14:00 | **(5)** | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | **(5.000)** | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (1.000) | U | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | (0.4) | U | ppb |
| MW17 | 166759 | 5/14/1993 | 14:20 | **(5)** | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | **(5.000)** | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (1.000) | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.4) | U | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.4) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.4) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.4) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | **(5.000)** | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.4) | U | ppb |
| MW19 | 167272 | 5/21/1993 | 11:30 | **(5)** | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | **(5.000)** | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (1.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.4) | U | ppb |
| MW2 | 96943 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | **(5.000)** | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.4) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.4) | U | ppb |
| MW21 | 167354 | 5/24/1993 | 15:25 | **(5)** | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | **(5.000)** | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (1.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.4) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,2-Dichloroethane was not detected at the reported MDL.

U indicates that 1,2-Dichloroethane was not detected above the MDL.

J indicates that 1,2-Dichloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,2-Dichloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**1,2-Dichloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.4) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.4) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.4) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.4) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.4) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.4) | U | ppb |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.4) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.4) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| MW2A | 111373 | 1/4/1990 | 13:45 | **(5.000)** | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | **(5)** | U | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | 2 | J | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | **(5)** | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (1.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.210) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | (0.4) | U | ppb |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | **(5)** | U | ug/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | **(5.000)** | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | **(5.000)** | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | **(5.000)** | U | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | **(5)** | U | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | **(5)** | U | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | **(5)** | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (1.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.210) | U | ug/l |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.4) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | (0.4) | U | ppb |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.4) | U | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.4) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.4) | U | ppb |
| MW32 | 349145 | 5/8/2002 | 10:30 | (0.4) | U | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | (0.4) | U | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | (0.4) | U | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | (0.4) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.210) | U | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | (0.4) | U | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | (0.4) | U | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | (0.4) | U | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.210) | U | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | (0.4) | U | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | (0.4) | U | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | (0.4) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,2-Dichloroethane was not detected at the reported MDL.

U indicates that 1,2-Dichloroethane was not detected above the MDL.

J indicates that 1,2-Dichloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,2-Dichloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**1,2-Dichloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.210) | U | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | (0.4) | U | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | (0.4) | U | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | (0.4) | U | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.210) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.4) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.210) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (0.4) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.210) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.4) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.4) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.4) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.4) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (0.210) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.4) | U | ppb |
| MW4 | 96945 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | **(5.000)** | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | **(5.000)** | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | **(5.000)** | U | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | **(5)** | U | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | **(5)** | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | **(5)** | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (1.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.210) | U | ug/l |
| MW04 | 348654 | 5/6/2002 | 12:10 | (0.4) | U | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | (0.4) | U | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | (0.4) | U | ppb |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.4) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.2) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | (0.4) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.2) | U | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.4) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.2) | U | ppb |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.4) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.2) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.4) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.2) | U | ppb |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.4) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.2) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,2-Dichloroethane was not detected at the reported MDL.

U indicates that 1,2-Dichloroethane was not detected above the MDL.

J indicates that 1,2-Dichloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,2-Dichloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**1,2-Dichloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW5 | 96946 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | **(5.000)** | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | **(5.000)** | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | **(5.000)** | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | **(5)** | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | (1.000) | U | ug/l |
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.4) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.4) | U | ppb |
| MW6 | 149708 | 5/18/1992 | 12:00 | **94.00** | | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | **(5)** | U | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | **(5)** | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | **(5)** | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (1.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.210) | U | ug/l |
| MW06 | 349141 | 5/7/2002 | 13:25 | (0.4) | U | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | (0.4) | U | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | (0.4) | U | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | (0.4) | U | ppb |
| RW09A | 347413 | 4/29/2002 | 12:00 | (0.7) | U | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | (0.7) | U | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | (0.4) | U | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | (1.8) | U | ppb |
| RW1 | 105947 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | **(5.000)** | U | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | **(5.000)** | U | ug/l |
| RW10 | 349615 | 5/9/2002 | 13:00 | (0.4) | U | ppb |
| RW11 | 141900 | 12/2/1991 | 14:45 | **(5.000)** | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | **(5)** | U | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | **(5)** | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | **(5)** | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | **(5)** | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | **(5.000)** | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (1.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.210) | U | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | (0.4) | U | ppb |
| RW14 | 141899 | 12/2/1991 | 10:00 | **(5.000)** | U | ug/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | **(5)** | U | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | **(5)** | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | **(5)** | U | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | (0.4) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,2-Dichloroethane was not detected at the reported MDL.

U indicates that 1,2-Dichloroethane was not detected above the MDL.

J indicates that 1,2-Dichloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,2-Dichloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**1,2-Dichloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW15A | 347427 | 4/29/2002 | 10:30 | (0.4) | U | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | (0.4) | U | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | (0.4) | U | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | (0.4) | U | ppb |
| RW16A | 347411 | 4/29/2002 | 11:35 | **18** | | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | **18** | | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **(10000.000)** | U | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | **(25.000)** | U | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | **(5.000)** | U | ug/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | **(5)** | U | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | **(5)** | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | **(5)** | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | **(5)** | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | **(5.000)** | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (1.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.4) | U | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | **(25.000)** | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that 1,2-Dichloroethane was not detected at the reported MDL.

U indicates that 1,2-Dichloroethane was not detected above the MDL.

J indicates that 1,2-Dichloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported 1,2-Dichloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**Acenaphthene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (5) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | (5.000) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | (5.00) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (4.000) | U | ug/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | (4.000) | U | ug/l |
| MW13 | 162570 | 2/24/1993 | 15:10 | (5) | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 172959 | 8/11/1993 | 16:20 | (5.000) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 182406 | 2/15/1994 | 15:45 | (5.00) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (4.000) | U | ug/l |
| MW13 | 194136 | 8/11/1994 | 11:10 | (4.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.6) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.6) | U | ppb |
| MW16 | 162621 | 2/25/1993 | 14:45 | (5) | U | ug/l |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 172230 | 8/12/1993 | 2:40 | (5.000) | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | (5.000) | U | ug/l |
| MW16 | 182407 | 2/15/1994 | 16:00 | (5.00) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (4.000) | U | ug/l |
| MW16 | 194138 | 8/11/1994 | 13:20 | (4.000) | U | ug/l |
| MW17 | 162619 | 2/25/1993 | 13:50 | (5) | U | ug/l |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 172159 | 8/11/1993 | 10:00 | (5.000) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 182404 | 2/15/1994 | 10:50 | (5.00) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (4.000) | U | ug/l |
| MW17 | 194024 | 8/10/1994 | 12:10 | (4.000) | U | ug/l |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.6) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Acenaphthene was not detected at the reported MDL.

U indicates that Acenapthene was not detected above the MDL.

J indicates that Acenapthene was detected below MDL and is estimated.

**BOLD** indicates that the reported Acenaphthene concentration is in excess of the NJDEP Groundwater Quality Criteria of 400 ug/l.

**Summary of Groundwater Analytical Results**
**Acenaphthene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW19 | 162620 | 2/25/1993 | 14:15 | (5) | U | ug/l |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 172160 | 8/11/1993 | 11:25 | (5.000) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 182405 | 2/15/1994 | 11:25 | (5.00) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (4.000) | U | ug/l |
| MW19 | 194025 | 8/10/1994 | 12:50 | (4.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.6) | U | ppb |
| MW19Dup | 194026 | 8/10/1994 | 12:50 | (4.000) | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.6) | U | ppb |
| MW21 | 162569 | 2/24/1993 | 8:55 | (5) | U | ug/l |
| MW21 | 167354 | 5/24/1993 | 15:25 | 1 | J | ug/l |
| MW21 | 172162 | 8/11/1993 | 3:35 | (24.000) | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 182706 | 2/24/1994 | 14:45 | (5.00) | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (4.000) | U | ug/l |
| MW21 | 194289 | 8/12/1994 | 11:30 | (4.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.6) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.6) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.6) | U | ppb |
| MW2A | 149608 | 5/14/1992 | 11:00 | (5) | U | ug/l |
| MW2A | 167553 | 5/27/1993 | 13:12 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (4.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.480) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 167554 | 5/27/1993 | 14:12 | (5) | U | ug/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (5.00) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (4.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.480) | U | ug/l |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.6) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.6) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.480) | U | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.480) | U | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.480) | U | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.480) | U | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.480) | U | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.480) | U | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | (0.480) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (4.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.480) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Acenaphthene was not detected at the reported MDL.

U indicates that Acenapthene was not detected above the MDL.

J indicates that Acenapthene was detected below MDL and is estimated.

**BOLD** indicates that the reported Acenaphthene concentration is in excess of the NJDEP Groundwater Quality Criteria of 400 ug/l.

**Summary of Groundwater Analytical Results**
**Acenaphthene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW-40 | 201708 | 5/2/2000 | 12:00 | 0.8 | | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW5 | 149707 | 5/18/1992 | 10:15 | (25.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (120) | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | 30 | J | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (4.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.480) | U | ug/l |
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 146054 | 2/25/1992 | 11:30 | (5.000) | U | ug/l |
| RW11 | 149563 | 5/13/1992 | 9:30 | (5) | U | ug/l |
| RW11 | 152982 | 8/5/1992 | 14:10 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 162205 | 2/17/1993 | 14:25 | (5) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 172163 | 8/11/1993 | 4:10 | (5.000) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | (5.000) | U | ug/l |
| RW11 | 182271 | 2/10/1994 | 15:05 | (5.00) | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (4.000) | U | ug/l |
| RW11 | 194137 | 8/11/1994 | 11:30 | (4.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.6) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.480) | U | ug/l |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 146087 | 2/26/1992 | 15:30 | (5.000) | U | ug/l |
| RW14 | 149564 | 5/13/1992 | 11:30 | (5) | U | ug/l |
| RW14 | 153108 | 8/7/1992 | 9:00 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | (5) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Acenaphthene was not detected at the reported MDL.

U indicates that Acenapthene was not detected above the MDL.

J indicates that Acenapthene was detected below MDL and is estimated.

**BOLD** indicates that the reported Acenaphthene concentration is in excess of the NJDEP Groundwater Quality Criteria of 400 ug/l.

**Summary of Groundwater Analytical Results**
**Acenaphthene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 146263 | 2/28/1992 | 10:00 | (5.000) | U | ug/l |
| TH36 | 149565 | 5/13/1992 | 14:30 | (5) | U | ug/l |
| TH36 | 153186 | 8/10/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | (5) | U | ug/l |
| TH36 | 162622 | 2/25/1993 | 15:25 | (5) | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 172231 | 8/12/1993 | 3:00 | (5.000) | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | (5.000) | U | ug/l |
| TH36 | 182705 | 2/24/1994 | 14:00 | (5.00) | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (4.000) | U | ug/l |
| TH36 | 194288 | 8/12/1994 | 9:15 | (4.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.6) | U | ppb |
| X16 | 130857 | 5/2/1991 | 11:00 | (5.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Acenaphthene was not detected at the reported MDL.

U indicates that Acenapthene was not detected above the MDL.

J indicates that Acenapthene was detected below MDL and is estimated.

**BOLD** indicates that the reported Acenaphthene concentration is in excess of the NJDEP Groundwater Quality Criteria of 400 ug/l.

**Summary of Groundwater Analytical Results**
**Anthracene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (5) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | (5.000) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | (5.00) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (1.000) | U | ug/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | (1.000) | U | ug/l |
| MW13 | 162570 | 2/24/1993 | 15:10 | (5) | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 172959 | 8/11/1993 | 16:20 | (5.000) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 182406 | 2/15/1994 | 15:45 | (5.00) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (1.000) | U | ug/l |
| MW13 | 194136 | 8/11/1994 | 11:10 | (1.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.5) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.4) | U | ppb |
| MW16 | 162621 | 2/25/1993 | 14:45 | (5) | U | ug/l |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 172230 | 8/12/1993 | 2:40 | (5.000) | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | (5.000) | U | ug/l |
| MW16 | 182407 | 2/15/1994 | 16:00 | (5.00) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (1.000) | U | ug/l |
| MW16 | 194138 | 8/11/1994 | 13:20 | (1.000) | U | ug/l |
| MW17 | 162619 | 2/25/1993 | 13:50 | (5) | U | ug/l |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 172159 | 8/11/1993 | 10:00 | (5.000) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 182404 | 2/15/1994 | 10:50 | (5.00) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (1.000) | U | ug/l |
| MW17 | 194024 | 8/10/1994 | 12:10 | (1.000) | U | ug/l |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.5) | U | ppb |
| MW19 | 162620 | 2/25/1993 | 14:15 | (5) | U | ug/l |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 172160 | 8/11/1993 | 11:25 | (5.000) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 182405 | 2/15/1994 | 11:25 | (5.00) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (1.000) | U | ug/l |
| MW19 | 194025 | 8/10/1994 | 12:50 | (1.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.4) | U | ppb |
| MW19Dup | 194026 | 8/10/1994 | 12:50 | (1.000) | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.4) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Antracene was not detected at the reported MD

U indicates that Anthracene was not detected above the MDL.

J indicates that Anthracene was detected below MDL and is estimated.

**BOLD** indicates that the reported Anthracene concentration is in excess of the NJDEP Groundwater Quality Criteria of 2000 ug/l.

**Summary of Groundwater Analytical Results**
**Anthracene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW21 | 162569 | 2/24/1993 | 8:55 | (5) | U | ug/l |
| MW21 | 167354 | 5/24/1993 | 15:25 | (5) | U | ug/l |
| MW21 | 172162 | 8/11/1993 | 3:35 | (24.000) | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 182706 | 2/24/1994 | 14:45 | (5.00) | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (1.000) | U | ug/l |
| MW21 | 194289 | 8/12/1994 | 11:30 | (1.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.4) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| MW2A | 149608 | 5/14/1992 | 11:00 | (5) | U | ug/l |
| MW2A | 167553 | 5/27/1993 | 13:12 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (1.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.410) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 167554 | 5/27/1993 | 14:12 | (5) | U | ug/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (5.00) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (1.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.410) | U | ug/l |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.4) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.4) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.410) | U | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.410) | U | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.410) | U | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.410) | U | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.410) | U | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.410) | U | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | (0.410) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (1.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.410) | U | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW5 | 149707 | 5/18/1992 | 10:15 | (25.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (120) | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | 20 | | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (1.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.410) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Antracene was not detected at the reported MD

U indicates that Anthracene was not detected above the MDL.

J indicates that Anthracene was detected below MDL and is estimated.

**BOLD** indicates that the reported Anthracene concentration is in excess of the NJDEP Groundwater Quality Criteria of 2000 ug/l.

**Summary of Groundwater Analytical Results**
**Anthracene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 146054 | 2/25/1992 | 11:30 | (5.000) | U | ug/l |
| RW11 | 149563 | 5/13/1992 | 9:30 | (5) | U | ug/l |
| RW11 | 152982 | 8/5/1992 | 14:10 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 162205 | 2/17/1993 | 14:25 | (5) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 172163 | 8/11/1993 | 4:10 | (5.000) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | (5.000) | U | ug/l |
| RW11 | 182271 | 2/10/1994 | 15:05 | (5.00) | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (1.000) | U | ug/l |
| RW11 | 194137 | 8/11/1994 | 11:30 | (1.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.410) | U | ug/l |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 146087 | 2/26/1992 | 15:30 | (5.000) | U | ug/l |
| RW14 | 149564 | 5/13/1992 | 11:30 | (5) | U | ug/l |
| RW14 | 153108 | 8/7/1992 | 9:00 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | (5) | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 146263 | 2/28/1992 | 10:00 | (5.000) | U | ug/l |
| TH36 | 149565 | 5/13/1992 | 14:30 | (5) | U | ug/l |
| TH36 | 153186 | 8/10/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | (5) | U | ug/l |
| TH36 | 162622 | 2/25/1993 | 15:25 | (5) | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 172231 | 8/12/1993 | 3:00 | (5.000) | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | (5.000) | U | ug/l |
| TH36 | 182705 | 2/24/1994 | 14:00 | (5.00) | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (1.000) | U | ug/l |
| TH36 | 194288 | 8/12/1994 | 9:15 | (1.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.4) | U | ppb |
| X16 | 130857 | 5/2/1991 | 11:00 | 15.00 | | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Antracene was not detected at the reported MDL.

U indicates that Anthracene was not detected above the MDL.

J indicates that Anthracene was detected below MDL and is estimated.

**BOLD** indicates that the reported Anthracene concentration is in excess of the NJDEP Groundwater Quality Criteria of 2000 ug/l.

**Summary of Groundwater Analytical Results**
**Benzo(a)Pyrene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 141868 | 11/27/1991 | 16:45 | **(5.000)** | U | ug/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | **(5.000)** | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | **(5.000)** | U | ug/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | **(5)** | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | **(5)** | U | ug/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | **(5)** | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | **(5)** | U | ug/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | **(5.000)** | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | **(5.000)** | U | ug/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | **(5.00)** | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | **(1.000)** | U | ug/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | **(1.000)** | U | ug/l |
| MW13 | 162570 | 2/24/1993 | 15:10 | **(5)** | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | **(5)** | U | ug/l |
| MW13 | 172959 | 8/11/1993 | 16:20 | **(5.000)** | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | **(5.000)** | U | ug/l |
| MW13 | 182406 | 2/15/1994 | 15:45 | **(5.00)** | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | **(1.000)** | U | ug/l |
| MW13 | 194136 | 8/11/1994 | 11:10 | **(1.000)** | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.2) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.2) | U | ppb |
| MW16 | 162621 | 2/25/1993 | 14:45 | **(5)** | U | ug/l |
| MW16 | 167273 | 5/21/1993 | 14:00 | **(5)** | U | ug/l |
| MW16 | 172230 | 8/12/1993 | 2:40 | **(5.000)** | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | **(5.000)** | U | ug/l |
| MW16 | 182407 | 2/15/1994 | 16:00 | **(5.00)** | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | **(1.000)** | U | ug/l |
| MW16 | 194138 | 8/11/1994 | 13:20 | **(1.000)** | U | ug/l |
| MW17 | 162619 | 2/25/1993 | 13:50 | **(5)** | U | ug/l |
| MW17 | 166759 | 5/14/1993 | 14:20 | **(5)** | U | ug/l |
| MW17 | 172159 | 8/11/1993 | 10:00 | **(5.000)** | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | **(5.000)** | U | ug/l |
| MW17 | 182404 | 2/15/1994 | 10:50 | **(5.00)** | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | **(1.000)** | U | ug/l |
| MW17 | 194024 | 8/10/1994 | 12:10 | **(1.000)** | U | ug/l |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | **(5.000)** | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.2) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Benzo(a) Pyrene was not detected at the reported MDL.

U indicates that Benzo(a) Pyrene was not detected above the MDL.

J indicates that Benzo(a) Pyrene was detected below MDL and is estimated.

**BOLD** indicates that the reported Benzo(a) Pyrene concentration is in excess of the NJDEP Groundwater Quality Criteria of 0.2 ug/l.

**Summary of Groundwater Analytical Results**
**Benzo(a)Pyrene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW19 | 162620 | 2/25/1993 | 14:15 | **(5)** | U | ug/l |
| MW19 | 167272 | 5/21/1993 | 11:30 | **(5)** | U | ug/l |
| MW19 | 172160 | 8/11/1993 | 11:25 | **(5.000)** | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | **(5.000)** | U | ug/l |
| MW19 | 182405 | 2/15/1994 | 11:25 | **(5.00)** | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | **(1.000)** | U | ug/l |
| MW19 | 194025 | 8/10/1994 | 12:50 | **(1.000)** | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.2) | U | ppb |
| MW19Dup | 194026 | 8/10/1994 | 12:50 | **(1.000)** | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.2) | U | ppb |
| MW21 | 162569 | 2/24/1993 | 8:55 | **(5)** | U | ug/l |
| MW21 | 167354 | 5/24/1993 | 15:25 | **(5)** | U | ug/l |
| MW21 | 172162 | 8/11/1993 | 3:35 | **(24.000)** | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | **(5.000)** | U | ug/l |
| MW21 | 182706 | 2/24/1994 | 14:45 | **1.00** | J | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | **(1.000)** | U | ug/l |
| MW21 | 194289 | 8/12/1994 | 11:30 | **(1.000)** | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.2) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| MW2A | 149608 | 5/14/1992 | 11:00 | **(5)** | U | ug/l |
| MW2A | 167553 | 5/27/1993 | 13:12 | **(5)** | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | **(1.000)** | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | **(0.310)** | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | **(5.000)** | U | ug/l |
| MW3 | 167554 | 5/27/1993 | 14:12 | **(5)** | U | ug/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | **(5.00)** | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | **(1.000)** | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | **(0.310)** | U | ug/l |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.2) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.2) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | **(0.310)** | U | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | **(0.310)** | U | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | **(0.310)** | U | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | **(0.310)** | U | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | **(0.310)** | U | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | **(0.310)** | U | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | **(0.310)** | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | **(5.000)** | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | **(5)** | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | **(1.000)** | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | **(0.310)** | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Benzo(a) Pyrene was not detected at the reported MDL.

U indicates that Benzo(a) Pyrene was not detected above the MDL.

J indicates that Benzo(a) Pyrene was detected below MDL and is estimated.

**BOLD** indicates that the reported Benzo(a) Pyrene concentration is in excess of the NJDEP Groundwater Quality Criteria of 0.2 ug/l.

**Summary of Groundwater Analytical Results**
**Benzo(a)Pyrene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.2) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.2) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | **(0.3)** | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | **(0.3)** | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | **(0.3)** | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | **(0.3)** | U | ppb |
| MW5 | 149707 | 5/18/1992 | 10:15 | **(25.000)** | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | **(120)** | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | **(19.000)** | U | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | **(5.000)** | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | **(5)** | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | **(1.000)** | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | **(0.310)** | U | ug/l |
| RW11 | 141900 | 12/2/1991 | 14:45 | **(5.000)** | U | ug/l |
| RW11 | 146054 | 2/25/1992 | 11:30 | **(5.000)** | U | ug/l |
| RW11 | 149563 | 5/13/1992 | 9:30 | **(5)** | U | ug/l |
| RW11 | 152982 | 8/5/1992 | 14:10 | **(5)** | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | **(5)** | U | ug/l |
| RW11 | 162205 | 2/17/1993 | 14:25 | **(5)** | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | **(5)** | U | ug/l |
| RW11 | 172163 | 8/11/1993 | 4:10 | **(5.000)** | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | **(5.000)** | U | ug/l |
| RW11 | 182271 | 2/10/1994 | 15:05 | **(5.00)** | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | **(1.000)** | U | ug/l |
| RW11 | 194137 | 8/11/1994 | 11:30 | **(1.000)** | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | **(0.310)** | U | ug/l |
| RW14 | 141899 | 12/2/1991 | 10:00 | **(5.000)** | U | ug/l |
| RW14 | 146087 | 2/26/1992 | 15:30 | **(5.000)** | U | ug/l |
| RW14 | 149564 | 5/13/1992 | 11:30 | **(5)** | U | ug/l |
| RW14 | 153108 | 8/7/1992 | 9:00 | **(5)** | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | **(5)** | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Benzo(a) Pyrene was not detected at the reported MDL.

U indicates that Benzo(a) Pyrene was not detected above the MDL.

J indicates that Benzo(a) Pyrene was detected below MDL and is estimated.

**BOLD** indicates that the reported Benzo(a) Pyrene concentration is in excess of the NJDEP Groundwater Quality Criteria of 0.2 ug/l.

**Summary of Groundwater Analytical Results**
**Benzo(a)Pyrene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| TH36 | 143553 | 12/31/1991 | 10:30 | **(5.000)** | U | ug/l |
| TH36 | 146263 | 2/28/1992 | 10:00 | **(5.000)** | U | ug/l |
| TH36 | 149565 | 5/13/1992 | 14:30 | **(5)** | U | ug/l |
| TH36 | 153186 | 8/10/1992 | 12:30 | **(5)** | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | **(5)** | U | ug/l |
| TH36 | 162622 | 2/25/1993 | 15:25 | **(5)** | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | **(5)** | U | ug/l |
| TH36 | 172231 | 8/12/1993 | 3:00 | **(5.000)** | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | **(5.000)** | U | ug/l |
| TH36 | 182705 | 2/24/1994 | 14:00 | **(5.00)** | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | **(1.000)** | U | ug/l |
| TH36 | 194288 | 8/12/1994 | 9:15 | **(1.000)** | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.2) | U | ppb |
| X16 | 130857 | 5/2/1991 | 11:00 | **(5.000)** | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Benzo(a) Pyrene was not detected at the reported MDL.

U indicates that Benzo(a) Pyrene was not detected above the MDL.

J indicates that Benzo(a) Pyrene was detected below MDL and is estimated.

**BOLD** indicates that the reported Benzo(a) Pyrene concentration is in excess of the NJDEP Groundwater Quality Criteria of 0.2 ug/l.

**Summary of Groundwater Analytical Results**
**Bis(2-Ethylhexyl)Phthalate**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (5) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | 16 | | ug/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | (5.000) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | 25.00 | | ug/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | **110.00** | | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (2.000) | U | ug/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | (2.000) | U | ug/l |
| MW13 | 162570 | 2/24/1993 | 15:10 | (5) | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 172959 | 8/11/1993 | 16:20 | (5.000) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | 17.00 | | ug/l |
| MW13 | 182406 | 2/15/1994 | 15:45 | 5.00 | J* | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (2.000) | U | ug/l |
| MW13 | 194136 | 8/11/1994 | 11:10 | (2.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.5) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.5) | U | ppb |
| MW16 | 162621 | 2/25/1993 | 14:45 | (5) | U | ug/l |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 172230 | 8/12/1993 | 2:40 | 7.00 | | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | 12.00 | | ug/l |
| MW16 | 182407 | 2/15/1994 | 16:00 | 13.00 | * | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (2.000) | U | ug/l |
| MW16 | 194138 | 8/11/1994 | 13:20 | (2.000) | U | ug/l |
| MW17 | 162619 | 2/25/1993 | 13:50 | (5) | U | ug/l |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 172159 | 8/11/1993 | 10:00 | (5.000) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | 15.00 | | ug/l |
| MW17 | 182404 | 2/15/1994 | 10:50 | 8.00 | | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (2.000) | U | ug/l |
| MW17 | 194024 | 8/10/1994 | 12:10 | (2.000) | U | ug/l |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | 8.00 | | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | 0.6 | B | ppb |
| MW19 | 162620 | 2/25/1993 | 14:15 | (5) | U | ug/l |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 172160 | 8/11/1993 | 11:25 | 5.00 | | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | 12.00 | | ug/l |
| MW19 | 182405 | 2/15/1994 | 11:25 | 6.00 | * | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | 4 | | ug/l |
| MW19 | 194025 | 8/10/1994 | 12:50 | (2.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | 5 | B | ppb |
| MW19Dup | 194026 | 8/10/1994 | 12:50 | (2.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parentheses indicate that Bis (2-Ethylhexyl) Phthalate was not detected at the reported MDL.

U indicates that Bis (2-Ethylhexyl) Phthalate was not detected above the MDL.

J indicates that Bis (2-Ethylhexyl) Phthalate was detected below MDL and is estimated.

**BOLD** indicates that the reported Bis (2-Ethylhexyl) Phthalate is in excess of the NJDEP Groundwater Quality Criteria of 30 ug/l.

**Summary of Groundwater Analytical Results**
**Bis(2-Ethylhexyl)Phthalate**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW20 | 348658 | 5/6/2002 | 14:00 | 0.7 | B | ppb |
| MW21 | 162569 | 2/24/1993 | 8:55 | (5) | U | ug/l |
| MW21 | 167354 | 5/24/1993 | 15:25 | 5 | | ug/l |
| MW21 | 172162 | 8/11/1993 | 3:35 | 16.00 | J | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | 19.00 | | ug/l |
| MW21 | 182706 | 2/24/1994 | 14:45 | 7.00 | | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (2.000) | U | ug/l |
| MW21 | 194289 | 8/12/1994 | 11:30 | 3 | | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | 2.3 | B | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.4) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | 2.4 | B | ppb |
| MW2A | 149608 | 5/14/1992 | 11:00 | (5) | U | ug/l |
| MW2A | 167553 | 5/27/1993 | 13:12 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | 8 | * | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.580) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 167554 | 5/27/1993 | 14:12 | 4 | J | ug/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (5.00) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (2.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.580) | U | ug/l |
| MW31 | 349613 | 5/9/2002 | 11:00 | 1.2 | B | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.5) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | 1.1 | | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | 2 | | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | 0.58 | | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.580) | U | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | 1.3 | | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | 2 | | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | (0.530) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | 4 | * | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (5.100) | U | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | 6.8 | | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (2) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | 12 | | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | 18 | | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | 2.6 | | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | 3.2 | | ppb |
| MW5 | 149707 | 5/18/1992 | 10:15 | (25.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | **(120)** | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | **250** | | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parentheses indicate that Bis (2-Ethylhexyl) Phthalate was not detected at the reported MDL.

U indicates that Bis (2-Ethylhexyl) Phthalate was not detected above the MDL.

J indicates that Bis (2-Ethylhexyl) Phthalate was detected below MDL and is estimated.

**BOLD** indicates that the reported Bis (2-Ethylhexyl) Phthalate is in excess of the NJDEP Groundwater Quality Criteria of 30 ug/l.

**Summary of Groundwater Analytical Results**
**Bis(2-Ethylhexyl)Phthalate**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (2.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.580) | U | ug/l |
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 146054 | 2/25/1992 | 11:30 | (5.000) | U | ug/l |
| RW11 | 149563 | 5/13/1992 | 9:30 | (5) | U | ug/l |
| RW11 | 152982 | 8/5/1992 | 14:10 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 162205 | 2/17/1993 | 14:25 | (5) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 172163 | 8/11/1993 | 4:10 | 13.00 | | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | 11.00 | | ug/l |
| RW11 | 182271 | 2/10/1994 | 15:05 | 9.00 | | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (2.000) | U | ug/l |
| RW11 | 194137 | 8/11/1994 | 11:30 | (2.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | 1.6 | B | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.580) | U | ug/l |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 146087 | 2/26/1992 | 15:30 | (5.000) | U | ug/l |
| RW14 | 149564 | 5/13/1992 | 11:30 | (5) | U | ug/l |
| RW14 | 153108 | 8/7/1992 | 9:00 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | (5) | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 146263 | 2/28/1992 | 10:00 | (5.000) | U | ug/l |
| TH36 | 149565 | 5/13/1992 | 14:30 | (5) | U | ug/l |
| TH36 | 153186 | 8/10/1992 | 12:30 | 4 | J | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | 4 | J | ug/l |
| TH36 | 162622 | 2/25/1993 | 15:25 | 6 | | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 172231 | 8/12/1993 | 3:00 | 15.00 | | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | (5.000) | U | ug/l |
| TH36 | 182705 | 2/24/1994 | 14:00 | 4.00 | J | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | 4 | | ug/l |
| TH36 | 194288 | 8/12/1994 | 9:15 | (2.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.5) | U | ppb |
| X16 | 130857 | 5/2/1991 | 11:00 | **180.00** | | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parentheses indicate that Bis (2-Ethylhexyl) Phthalate was not detected at the reported MDL.

U indicates that Bis (2-Ethylhexyl) Phthalate was not detected above the MDL.

J indicates that Bis (2-Ethylhexyl) Phthalate was detected below MDL and is estimated.

**BOLD** indicates that the reported Bis (2-Ethylhexyl) Phthalate is in excess of the NJDEP Groundwater Quality Criteria of 30 ug/l.

**Summary of Groundwater Analytical Results**
**Chloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 111372 | 1/4/1990 | 13:00 | (5.000) | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | (5.000) | U | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (5.000) | U | ug/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.5) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.5) | U | ppb |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (5.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.5) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.5) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.5) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.5) | U | ppb |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | (5.000) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (5.000) | U | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | (0.5) | U | ppb |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (5.000) | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.5) | U | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.5) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.5) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.5) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.5) | U | ppb |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (5.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.5) | U | ppb |
| MW2 | 96943 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | (5.000) | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.5) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.5) | U | ppb |
| MW21 | 167354 | 5/24/1993 | 15:25 | (5) | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (5.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.5) | U | ppb |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.5) | U | ppb |
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.5) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.5) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.5) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.5) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.5) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Chloroethane was not detected at the reported MDL.

U indicates that Chloroethane was not detected above the MDL.

J indicates that Chloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported Chloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 100 ug/l.

**Summary of Groundwater Analytical Results**
**Chloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.5) | U | ppb |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.5) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.5) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.5) | U | ppb |
| MW2A | 111373 | 1/4/1990 | 13:45 | (5.000) | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | (5) | U | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | (5) | U | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (5.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.810) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | (0.5) | U | ppb |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | (5) | U | ug/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (5.000) | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (5.000) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | (5) | U | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | (5) | U | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | (5) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (5.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.810) | U | ug/l |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.5) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | (0.5) | U | ppb |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.5) | U | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.5) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.5) | U | ppb |
| MW32 | 349145 | 5/8/2002 | 10:30 | (0.5) | U | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | (0.5) | U | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | (0.5) | U | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | (0.5) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.810) | U | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | (0.5) | U | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | (0.5) | U | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | (0.5) | U | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.810) | U | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | (0.5) | U | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | (0.5) | U | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | (0.5) | U | ppb |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.810) | U | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | (0.5) | U | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | (0.5) | U | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | (0.5) | U | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.810) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.5) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.810) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (0.5) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.810) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.5) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.5) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.5) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.5) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (0.810) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.5) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Chloroethane was not detected at the reported MDL.

U indicates that Chloroethane was not detected above the MDL.

J indicates that Chloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported Chloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 100 ug/l.

**Summary of Groundwater Analytical Results**
**Chloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW4 | 96945 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (5.000) | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | (5.000) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | (5) | U | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | (5) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (5.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.810) | U | ug/l |
| MW04 | 348654 | 5/6/2002 | 12:10 | (0.5) | U | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | (0.5) | U | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | (0.5) | U | ppb |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.5) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | (0.5) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.5) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.5) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.5) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.5) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | (5.000) | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (5.000) | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | (5.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (5) | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | (5.000) | U | ug/l |
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.5) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.5) | U | ppb |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | (5) | U | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | (5) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (5.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.810) | U | ug/l |
| MW06 | 349141 | 5/7/2002 | 13:25 | (0.5) | U | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | (0.5) | U | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | (0.5) | U | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | (0.5) | U | ppb |
| RW09A | 347413 | 4/29/2002 | 12:00 | (1) | U | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | (1) | U | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | (0.5) | U | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | (2.4) | U | ppb |
| RW1 | 105947 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | (5.000) | U | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | (5.000) | U | ug/l |
| RW10 | 349615 | 5/9/2002 | 13:00 | (0.5) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicated that Chloroethane was not detected at the reported MDL.

U indicates that Chloroethane was not detected above the MDL.

J indicates that Chloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported Chloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 100 ug/l.

**Summary of Groundwater Analytical Results**
**Chloroethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | (5) | U | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | (5.000) | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (5.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.5) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.810) | U | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | (0.5) | U | ppb |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | (5) | U | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | (5) | U | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | (0.5) | U | ppb |
| RW15A | 347427 | 4/29/2002 | 10:30 | (0.5) | U | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | (0.5) | U | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | (0.5) | U | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | (0.5) | U | ppb |
| RW16A | 347411 | 4/29/2002 | 11:35 | **1300** | | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | **1200** | | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **(10000.000)** | U | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | (25.000) | U | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | (5) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | (5) | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | (5.000) | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (5.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.5) | U | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | (25.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Chloroethane was not detected at the reported MDL.

U indicates that Chloroethane was not detected above the MDL.

J indicates that Chloroethane was detected below MDL and is estimated.

**BOLD** indicates that the reported Chloroethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 100 ug/l.

**Summary of Groundwater Analytical Results**
**Chloroform**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 111372 | 1/4/1990 | 13:00 | (5.000) | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | (5.000) | U | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (1.000) | U | ug/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.2) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.2) | U | ppb |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | **7.00** | | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (1.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.2) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.2) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.2) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.2) | U | ppb |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | (5.000) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (1.000) | U | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | (0.2) | U | ppb |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (1.000) | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.2) | U | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.2) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.2) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.2) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.2) | U | ppb |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | **7.00** | | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (1.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.2) | U | ppb |
| MW2 | 96943 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | (5.000) | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.2) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.2) | U | ppb |
| MW21 | 167354 | 5/24/1993 | 15:25 | (5) | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (1.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.2) | U | ppb |
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.2) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.2) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.2) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.2) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.2) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Chloroform was not detected at the reported MDL.

U indicates that Chloroform was not detected above the MDL.

J indicates that Chloroform was detected below MDL and is estimated.

**BOLD** indicates that the reported Chloroform concentration is in excess of the NJDEP Groundwater Quality Criteria of 6 ug/l.

**Summary of Groundwater Analytical Results**
**Chloroform**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.2) | U | ppb |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.2) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.2) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| MW2A | 111373 | 1/4/1990 | 13:45 | (5.000) | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | (5) | U | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | (5) | U | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (1.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.590) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | (0.2) | U | ppb |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | (5) | U | ug/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (5.000) | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (5.000) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | (5) | U | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | (5) | U | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | (5) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (1.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.590) | U | ug/l |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.2) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | (0.2) | U | ppb |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.2) | U | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.2) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.2) | U | ppb |
| MW32 | 349145 | 5/8/2002 | 10:30 | 0.4 | | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | 0.4 | | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | 0.5 | | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | 0.4 | | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.590) | U | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | (0.2) | U | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | (0.2) | U | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | (0.2) | U | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.590) | U | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | (0.2) | U | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | (0.2) | U | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | (0.2) | U | ppb |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.590) | U | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | (0.2) | U | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | (0.2) | U | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | (0.2) | U | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.590) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.2) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.590) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | 0.6 | | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.590) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.2) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.2) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.2) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.2) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (0.590) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.2) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Chloroform was not detected at the reported MDL.

U indicates that Chloroform was not detected above the MDL.

J indicates that Chloroform was detected below MDL and is estimated.

**BOLD** indicates that the reported Chloroform concentration is in excess of the

**Summary of Groundwater Analytical Results**
**Chloroform**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|

NJDEP Groundwater Quality Criteria of 6 ug/l.

**Summary of Groundwater Analytical Results**
**Chloroform**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW4 | 96945 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (5.000) | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | (5.000) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | (5) | U | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | (5) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (1.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.590) | U | ug/l |
| MW04 | 348654 | 5/6/2002 | 12:10 | (0.2) | U | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | (0.2) | U | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | (0.2) | U | ppb |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.2) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.2) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | 1.4 | | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.2) | U | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.2) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.2) | U | ppb |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.2) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.2) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.2) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.2) | U | ppb |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.2) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.2) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | (5.000) | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (5.000) | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | (5.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (5) | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | (1.000) | U | ug/l |
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.2) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.2) | U | ppb |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | (5) | U | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | (5) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (1.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.590) | U | ug/l |
| MW06 | 349141 | 5/7/2002 | 13:25 | (0.2) | U | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | (0.2) | U | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | (0.2) | U | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | (0.2) | U | ppb |
| RW09A | 347413 | 4/29/2002 | 12:00 | (0.5) | U | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | (0.5) | U | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | (0.2) | U | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | (1.2) | U | ppb |
| RW1 | 105947 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | (5.000) | U | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | (5.000) | U | ug/l |
| **RW10** | **349615** | **5/9/2002** | **13:00** | **(0.2)** | **U** | **ppb** |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Chloroform was not detected at the reported MDL.

U indicates that Chloroform was not detected above the MDL.

J indicates that Chloroform was detected below MDL and is estimated.

**BOLD** indicates that the reported Chloroform concentration is in excess of the NJDEP Groundwater Quality Criteria of 6 ug/l.

**Summary of Groundwater Analytical Results**
**Chloroform**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | (5) | U | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | 2.00 | J | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (1.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.590) | U | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | (0.2) | U | ppb |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | (5) | U | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | (5) | U | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | (0.2) | U | ppb |
| RW15A | 347427 | 4/29/2002 | 10:30 | (0.2) | U | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | (0.2) | U | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | (0.2) | U | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | (0.2) | U | ppb |
| RW16A | 347411 | 4/29/2002 | 11:35 | (2.5) | U | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | (2.5) | U | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **12000.00** | | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | **12000.00** | | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | (5) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | 3 | J | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | 2.00 | J | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (1.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.2) | U | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | **(25.000)** | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Chloroform was not detected at the reported MDL.

U indicates that Chloroform was not detected above the MDL.

J indicates that Chloroform was detected below MDL and is estimated.

**BOLD** indicates that the reported Chloroform concentration is in excess of the NJDEP Groundwater Quality Criteria of 6 ug/l.

**Summary of Groundwater Analytical Results**
**Chloromethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 111372 | 1/4/1990 | 13:00 | (5.000) | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | (5.000) | U | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (2.000) | U | ug/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.4) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.4) | U | ppb |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (2.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.4) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.4) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.4) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.4) | U | ppb |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | (5.000) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (2.000) | U | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | (0.4) | U | ppb |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (2.000) | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.4) | U | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.4) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.4) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.4) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.4) | U | ppb |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (2.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.4) | U | ppb |
| MW2 | 96943 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | (5.000) | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.4) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.4) | U | ppb |
| MW21 | 167354 | 5/24/1993 | 15:25 | (5) | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (1.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.4) | U | ppb |
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.4) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.4) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.4) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.4) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.4) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Chloromethane was not detected at the reported MDL.

U indicates that Chloromethane was not detected above the MDL.

J indicates that Chloromethane was detected below MDL and is estimated.

**BOLD** indicates that the reported Chloromethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 30 ug/l.

**Summary of Groundwater Analytical Results**
**Chloromethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.4) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.4) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| MW2A | 111373 | 1/4/1990 | 13:45 | (5.000) | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | (5) | U | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | (5) | U | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (2.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.230) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | (0.4) | U | ppb |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | (5) | U | ug/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (5.000) | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (5.000) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | (5) | U | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | (5) | U | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | (5) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (2.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.230) | U | ug/l |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.4) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | (0.4) | U | ppb |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.4) | U | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.4) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.4) | U | ppb |
| MW32 | 349145 | 5/8/2002 | 10:30 | (0.4) | U | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | (0.4) | U | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | (0.4) | U | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | (0.4) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.230) | U | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | (0.4) | U | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | (0.4) | U | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | (0.4) | U | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.230) | U | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | (0.4) | U | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | (0.4) | U | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | (0.4) | U | ppb |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.230) | U | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | (0.4) | U | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | (0.4) | U | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | (0.4) | U | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.230) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.4) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.230) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (0.4) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.230) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.4) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.4) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.4) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.4) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (0.230) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.4) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Chloromethane was not detected at the reported MDL.

U indicates that Chloromethane was not detected above the MDL.

J indicates that Chloromethane was detected below MDL and is estimated.

**BOLD** indicates that the reported Chloromethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 30 ug/l.

**Summary of Groundwater Analytical Results**
**Chloromethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW4 | 96945 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (5.000) | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | (5.000) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | (5) | U | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | (5) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (2.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.230) | U | ug/l |
| MW04 | 348654 | 5/6/2002 | 12:10 | (0.4) | U | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | (0.4) | U | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | (0.4) | U | ppb |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.4) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | (0.4) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.4) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.4) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.4) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.4) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | (5.000) | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (5.000) | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | (5.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (5) | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | (1.000) | U | ug/l |
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.4) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.4) | U | ppb |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | (5) | U | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | (5) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (2.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.230) | U | ug/l |
| MW06 | 349141 | 5/7/2002 | 13:25 | (0.4) | U | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | (0.4) | U | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | (0.4) | U | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | (0.4) | U | ppb |
| RW09A | 347413 | 4/29/2002 | 12:00 | (0.9) | U | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | (0.9) | U | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | (0.4) | U | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | (2.2) | U | ppb |
| RW1 | 105947 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | (5.000) | U | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | (5.000) | U | ug/l |
| RW10 | 349615 | 5/9/2002 | 13:00 | (0.4) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Chloromethane was not detected at the reported MDL.

U indicates that Chloromethane was not detected above the MDL.

J indicates that Chloromethane was detected below MDL and is estimated.

**BOLD** indicates that the reported Chloromethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 30 ug/l.

**Summary of Groundwater Analytical Results**
**Chloromethane**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | (5) | U | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | (5.000) | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (2.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | 1.1 | | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | (0.4) | U | ppb |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | (5) | U | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | (5) | U | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | (0.4) | U | ppb |
| RW15A | 347427 | 4/29/2002 | 10:30 | (0.4) | U | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | (0.4) | U | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | (0.4) | U | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | (0.4) | U | ppb |
| RW16A | 347411 | 4/29/2002 | 11:35 | (4.3) | U | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | (4.3) | U | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **(10000.000)** | U | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | (25.000) | U | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | (5) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | (5) | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | (5.000) | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (1.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.4) | U | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | (25.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Chloromethane was not detected at the reported MDL.

U indicates that Chloromethane was not detected above the MDL.

J indicates that Chloromethane was detected below MDL and is estimated.

**BOLD** indicates that the reported Chloromethane concentration is in excess of the NJDEP Groundwater Quality Criteria of 30 ug/l.

**Summary of Groundwater Analytical Results**
**cis and trans 1,2-Dichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| | | | | cis-Dichloroethylene | | | trans-Dichloroethylene | | | total-Dichloroethylenes | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Field ID** | **Lab ID** | **Date** | **Time** | **Result** | **Q** | **Unit** | **Result** | **Q** | **Unit** | **Result** | **Interp.R** | **Q** | **Unit** |
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.30) | U | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.30) | U | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.30) | U | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW03A | 347428 | 4/29/2002 | 10:35 | 1.7 | -- | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW04 | 348654 | 5/6/2002 | 12:10 | **97** | -- | ppb | 0.5 | -- | ppb | -- | -- | -- | -- |
| MW04A | 347429 | 4/29/2002 | 11:00 | **89** | -- | ppb | 0.7 | -- | ppb | -- | -- | -- | -- |
| MW04B | 347430 | 4/29/2002 | 11:05 | **87** | -- | ppb | 0.5 | -- | ppb | -- | -- | -- | -- |
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.30) | U | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.30) | U | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW06 | 349141 | 5/7/2002 | 13:25 | (0.30) | U | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW06A | 347434 | 4/29/2002 | 11:45 | (0.30) | U | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW06B | 347435 | 4/29/2002 | 11:50 | (0.30) | U | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW06C | 347436 | 4/29/2002 | 11:55 | (0.30) | U | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW1 | 111372 | 1/4/1990 | 13:00 | -- | -- | -- | -- | -- | -- | (5.0) | 2.5 | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | -- | -- | -- | -- | -- | -- | 3.0 | 3 | J | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | -- | -- | -- | -- | -- | -- | (5.0) | 2.5 | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | -- | -- | -- | -- | -- | -- | (5.0) | 2.5 | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | -- | -- | -- | -- | -- | -- | (5.0) | 2.5 | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | -- | -- | -- | (5.0) | U | ug/l | -- | -- | -- | -- |
| MW1 | 177617 | 11/10/1993 | 9:05 | -- | -- | -- | (5.0) | U | ug/l | -- | -- | -- | -- |
| MW1 | 187877 | 5/10/1994 | 11:40 | -- | -- | -- | -- | -- | -- | (1.0) | 0.5 | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | -- | -- | -- | (5.0) | U | ug/l | -- | -- | -- | -- |
| MW13 | 177620 | 11/10/1993 | 2:25 | -- | -- | -- | (5.0) | U | ug/l | -- | -- | -- | -- |
| MW13 | 188143 | 5/13/1994 | 12:50 | -- | -- | -- | -- | -- | -- | (1.0) | 0.5 | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.3) | U | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.3) | U | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.3) | U | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW15 | 349626 | 5/10/2002 | 11:15 | 5.7 | -- | ppb | (0.2) | U | ppb | -- | -- | -- | -- |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that cis-Dichloroethylene and trans-Dichloroethylene was not detected at the reported MDL.

U indicates that the analyte was not detected above the MDL.

J indicates that the analyte was detected below MDL and is estimated.

**BOLD** indicates that the reported analyte concentration is in excess of the NJDEP Groundwater Quality Criteria of 10 ug/l (cis-Dichloroethylene) or 100 ug/l (trans-Dichloroethylene).

**Summary of Groundwater Analytical Results**
**cis and trans 1,2-Dichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| | | | | cis-Dichloroethylene | | | trans-Dichloroethylene | | | total-Dichloroethylenes | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Field ID** | **Lab ID** | **Date** | **Time** | **Result** | **Q** | **Unit** | **Result** | **Q** | **Unit** | **Result** | **Interp.R** | **Q** | **Unit** |
| MW16 | 167273 | 5/21/1993 | 14:00 | **--** | -- | -- | (5.0) | U | ug/l | -- | **--** | -- | -- |
| MW16 | 177726 | 11/11/1993 | 2:00 | **--** | -- | -- | (5.0) | U | ug/l | -- | **--** | -- | -- |
| MW16 | 188144 | 5/13/1994 | 10:40 | **--** | -- | -- | -- | -- | -- | (1.0) | 0.5 | U | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | 0.5 | -- | ppb | (0.2) | U | ppb | -- | **--** | -- | -- |
| MW17 | 166759 | 5/14/1993 | 14:20 | **--** | -- | -- | (5.0) | U | ug/l | -- | **--** | -- | -- |
| MW17 | 177618 | 11/10/1993 | 10:45 | **--** | -- | -- | (5.0) | U | ug/l | -- | **--** | -- | -- |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | **--** | -- | -- | (5.0) | U | ug/l | -- | **--** | -- | -- |
| MW17 | 187956 | 5/11/1994 | 14:15 | **--** | -- | -- | -- | -- | -- | (1.0) | 0.5 | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.3) | U | ppb | (0.2) | U | ppb | -- | **--** | -- | -- |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.3) | U | ppb | (0.2) | U | ppb | -- | **--** | -- | -- |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.3) | U | ppb | (0.2) | U | ppb | -- | **--** | -- | -- |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.3) | U | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.3) | U | ppb | (0.2) | U | ppb | -- | -- | -- | -- |
| MW19 | 167272 | 5/21/1993 | 11:30 | **--** | -- | -- | (5.0) | U | ug/l | -- | **--** | -- | -- |
| MW19 | 177619 | 11/10/1993 | 12:45 | **--** | -- | -- | (5.0) | U | ug/l | -- | **--** | -- | -- |
| MW19 | 188145 | 5/13/1994 | 10:25 | **--** | -- | -- | -- | -- | -- | (1.0) | 0.5 | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.3) | U | ppb | (0.2) | U | ppb | -- | **--** | -- | -- |
| MW2 | 96943 | 1/11/1989 | 0:00 | **--** | -- | -- | -- | -- | -- | (5.0) | 2.5 | U | ug/l |
| MW2A | 111373 | 1/4/1990 | 13:45 | **--** | -- | -- | -- | -- | -- | (5.0) | 2.5 | U | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | **--** | -- | -- | -- | -- | -- | (5.0) | 2.5 | U | ug/l |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | **--** | -- | -- | -- | -- | -- | (5.0) | 2.5 | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | **--** | -- | -- | -- | -- | -- | (5.0) | 2.5 | U | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | **--** | -- | -- | -- | -- | -- | (5.0) | 2.5 | U | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | **--** | -- | -- | (5.0) | U | ug/l | -- | **--** | -- | -- |
| MW2A | 187878 | 5/10/1994 | 13:30 | **--** | -- | -- | -- | -- | -- | (1.0) | 0.5 | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.5) | U | ug/l | (0.4) | U | ug/l | -- | **--** | -- | -- |
| MW2A | 348228 | 5/2/2002 | 10:20 | (0.3) | U | ppb | (0.2) | U | ppb | -- | **--** | -- | -- |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.3) | U | ppb | (0.2) | U | ppb | -- | **--** | -- | -- |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.3) | U | ppb | (0.2) | U | ppb | -- | **--** | -- | -- |
| MW21 | 167354 | 5/24/1993 | 15:25 | **--** | -- | -- | (5.0) | U | ug/l | -- | **--** | -- | -- |
| MW21 | 177727 | 11/11/1993 | 3:45 | **--** | -- | -- | (5.0) | U | ug/l | -- | **--** | -- | -- |
| MW21 | 188271 | 5/17/1994 | 11:00 | **--** | -- | -- | -- | -- | -- | (2.0) | 1 | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.3) | U | ppb | (0.2) | U | ppb | -- | **--** | -- | -- |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that cis-Dichloroethylene and trans-Dichloroethylene was not detected at the reported MDL.

U indicates that the analyte was not detected above the MDL.

J indicates that the analyte was detected below MDL and is estimated.

**BOLD** indicates that the reported analyte concentration is in excess of the NJDEP Groundwater Quality Criteria of 10 ug/l (cis-Dichloroethylene) or 100 ug/l (trans-Dichloroethylene).

**Summary of Groundwater Analytical Results**
**cis and trans 1,2-Dichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| | | | | cis-Dichloroethylene | | | trans-Dichloroethylene | | | total-Dichloroethylenes | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Field ID** | **Lab ID** | **Date** | **Time** | **Result** | **Q** | **Unit** | **Result** | **Q** | **Unit** | **Result** | **Interp.R** | **Q** | **Unit** |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW3 | 111374 | 1/4/1990 | 9:45 | | | | | | | (5.0) | 2.5 | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | | | | | | | (5.0) | 2.5 | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | | | | | | | 170.0 | 170 | | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | | | | | | | (5.0) | 2.5 | U | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | | | | | | | (5.0) | 2.5 | U | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | | | | (5.0) | U | ug/l | | | | |
| MW3 | 187879 | 5/10/1994 | 14:10 | | | | | | | (1.0) | 0.5 | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.5) | U | ug/l | (0.4) | U | ug/l | | | | |
| MW3 | 96944 | 1/11/1989 | 0:00 | | | | | | | (5.0) | 2.5 | U | ug/l |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW32 | 349145 | 5/8/2002 | 10:30 | 3.9 | | ppb | (0.2) | U | ppb | | | | |
| MW32A | 347447 | 4/29/2002 | 14:45 | 4 | | ppb | (0.2) | U | ppb | | | | |
| MW32B | 347448 | 4/29/2002 | 14:50 | 4.4 | | ppb | (0.2) | U | ppb | | | | |
| MW32P | 349146 | 5/8/2002 | 15:20 | 3.8 | | ppb | (0.2) | U | ppb | | | | |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.5) | U | ug/l | (0.4) | U | ug/l | | | | |
| MW33A | 348225 | 5/1/2002 | 10:30 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW33AA | 347441 | 4/29/2002 | 13:40 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW33AP | 347442 | 4/29/2002 | 13:45 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.5) | U | ug/l | (0.4) | U | ug/l | | | | |
| MW34 | 348226 | 5/1/2002 | 14:30 | 6.1 | | ppb | (0.2) | U | ppb | | | | |
| MW34A | 347437 | 4/29/2002 | 12:05 | 1.2 | | ppb | (0.2) | U | ppb | | | | |
| MW34B | 347438 | 4/29/2002 | 12:10 | 7.6 | | ppb | (0.2) | U | ppb | | | | |

**NOTES:**
Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)
Q = Laboratory Qualifier
ug/l = micrograms per liter (parts per billion)
Results in parenthesis indicate that cis-Dichloroethylene and trans-Dichloroethylene was not detected at the reported MDL.
U indicates that the analyte was not detected above the MDL.
J indicates that the analyte was detected below MDL and is estimated.
**BOLD** indicates that the reported analyte concentration is in excess of the NJDEP Groundwater
Quality Criteria of 10 ug/l (cis-Dichloroethylene) or 100 ug/l (trans-Dichloroethylene).

**Summary of Groundwater Analytical Results**
**cis and trans 1,2-Dichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| | | | | cis-Dichloroethylene | | | trans-Dichloroethylene | | | total-Dichloroethylenes | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Field ID** | **Lab ID** | **Date** | **Time** | **Result** | **Q** | **Unit** | **Result** | **Q** | **Unit** | **Result** | **Interp.R** | **Q** | **Unit** |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.5) | U | ug/l | (0.4) | U | ug/l | | | | |
| MW35 | 348229 | 5/2/2002 | 12:40 | 1.4 | | ppb | (0.2) | U | ppb | | | | |
| MW35A | 347439 | 4/29/2002 | 12:25 | 1.2 | | ppb | (0.2) | U | ppb | | | | |
| MW35B | 347440 | 4/29/2002 | 12:30 | 1.3 | | ppb | (0.2) | U | ppb | | | | |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.5) | U | ug/l | (0.4) | U | ug/l | | | | |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.5) | U | ug/l | (0.4) | U | ug/l | | | | |
| MW37 | 347681 | 4/30/2002 | 11:20 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.5) | U | ug/l | (0.4) | U | ug/l | | | | |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (0.5) | U | ug/l | (0.4) | U | ug/l | | | | |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW4 | 96945 | 1/11/1989 | 0:00 | | | | | | | 5.0 | 5 | | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | | | | | | | (5.0) | 2.5 | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | | | | | | | 25.0 | **25** | | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | | | | | | | (5.0) | 2.5 | U | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | | | | | | | 420.0 | **420** | | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | | | | | | | 300.0 | **300** | | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | | | | (5.0) | U | ug/l | | | | |
| MW4 | 187880 | 5/10/1994 | 14:35 | | | | | | | 4.0 | 4 | | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | 7.2 | | ug/l | (0.4) | U | ug/l | | | | |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.4) | U | ppb | (0.4) | U | ppb | | | | |
| MW41 | 349619 | 5/10/2002 | 10:20 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.40) | U | ppb | (0.4) | U | ppb | | | | |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.40) | U | ppb | (0.4) | U | ppb | | | | |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.40) | U | ppb | (0.4) | U | ppb | | | | |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.40) | U | ppb | (0.4) | U | ppb | | | | |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that cis-Dichloroethylene and trans-Dichloroethylene was not detected at the reported MDL.

U indicates that the analyte was not detected above the MDL.

J indicates that the analyte was detected below MDL and is estimated.

**BOLD** indicates that the reported analyte concentration is in excess of the NJDEP Groundwater Quality Criteria of 10 ug/l (cis-Dichloroethylene) or 100 ug/l (trans-Dichloroethylene).

**Summary of Groundwater Analytical Results**
**cis and trans 1,2-Dichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| | | | | cis-Dichloroethylene | | | trans-Dichloroethylene | | | total-Dichloroethylenes | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Field ID** | **Lab ID** | **Date** | **Time** | **Result** | **Q** | **Unit** | **Result** | **Q** | **Unit** | **Result** | **Interp.R** | **Q** | **Unit** |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.4) | U | ppb | (0.4) | U | ppb | | | | |
| MW5 | 96946 | 1/11/1989 | 0:00 | | | | | | | (5.0) | 2.5 | U | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | | | | | | | (5.0) | 2.5 | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | | | | | | | (5.0) | 2.5 | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | | | | | | | (5.0) | 2.5 | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | | | | (5.0) | U | ug/l | | | | |
| MW5 | 188273 | 5/17/1994 | 13:45 | | | | | | | (2.0) | 1 | U | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | | | | | | | (5.0) | 2.5 | U | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | | | | | | | (5.0) | 2.5 | U | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | | | | | | | (5.0) | 2.5 | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | | | | (5.0) | U | ug/l | | | | |
| MW6 | 187955 | 5/11/1994 | 13:30 | | | | | | | (1.0) | 0.5 | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.5) | U | ug/l | (0.4) | U | ug/l | | | | |
| RW09A | 347413 | 4/29/2002 | 12:00 | **310** | | ppb | 0.6 | | ppb | | | | |
| RW09B | 347414 | 4/29/2002 | 12:05 | **260** | | ppb | 0.8 | | ppb | | | | |
| RW09C | 347415 | 4/29/2002 | 12:10 | **140** | | ppb | 0.8 | | ppb | | | | |
| RW09D | 347416 | 4/29/2002 | 12:15 | **27** | | ppb | (1.2) | U | ppb | | | | |
| RW1 | 105947 | 8/23/1989 | 0:00 | | | | | | | (5.0) | 2.5 | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | | | | | | | (5.0) | 2.5 | U | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | | | | | | | (5.0) | 2.5 | U | ug/l |
| RW10 | 349615 | 5/9/2002 | 13:00 | (0.30) | U | ppb | (0.2) | U | ppb | | | | |
| RW11 | 141900 | 12/2/1991 | 14:45 | | | | | | | (5.0) | 2.5 | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | | | | | | | (5.0) | 2.5 | U | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | | | | | | | (5.0) | 2.5 | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | | | | | | | (5.0) | 2.5 | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | | | | (5.0) | U | ug/l | | | | |
| RW11 | 177725 | 11/11/1993 | 11:35 | | | | (5.0) | U | ug/l | | | | |
| RW11 | 187957 | 5/11/1994 | 13:45 | | | | | | | (1.0) | 0.5 | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.5) | U | ug/l | (0.4) | U | ug/l | | | | |
| RW13 | 348495 | 5/3/2002 | 15:18 | (0.3) | U | ppb | (0.2) | U | ppb | | | | |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that cis-Dichloroethylene and trans-Dichloroethylene was not detected at the reported MDL.

U indicates that the analyte was not detected above the MDL.

J indicates that the analyte was detected below MDL and is estimated.

**BOLD** indicates that the reported analyte concentration is in excess of the NJDEP Groundwater Quality Criteria of 10 ug/l (cis-Dichloroethylene) or 100 ug/l (trans-Dichloroethylene).

**Summary of Groundwater Analytical Results**
**cis and trans 1,2-Dichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| | | | | cis-Dichloroethylene | | | trans-Dichloroethylene | | | total-Dichloroethylenes | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Field ID** | **Lab ID** | **Date** | **Time** | **Result** | **Q** | **Unit** | **Result** | **Q** | **Unit** | **Result** | **Interp.R** | **Q** | **Unit** |
| RW14 | 141899 | 12/2/1991 | 10:00 | | | | | | | (5.0) | 2.5 | U | ug/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | | | | | | | (5.0) | 2.5 | U | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | | | | | | | (5.0) | 2.5 | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | | | | | | | (5.0) | 2.5 | U | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | 1.8 | | ppb | (0.2) | U | ppb | | | | |
| RW15A | 347427 | 4/29/2002 | 10:30 | 7.2 | | ppb | (0.2) | U | ppb | | | | |
| RW15B | 347408 | 4/29/2002 | 10:35 | 8 | | ppb | (0.2) | U | ppb | | | | |
| RW15C | 347409 | 4/29/2002 | 10:40 | 8.2 | | ppb | (0.2) | U | ppb | | | | |
| RW15D | 347410 | 4/29/2002 | 10:45 | 7.7 | | ppb | (0.2) | U | ppb | | | | |
| RW16A | 347411 | 4/29/2002 | 11:35 | (3.10) | U | ppb | (2.3) | U | ppb | | | | |
| RW16B | 347412 | 4/29/2002 | 11:40 | (3.10) | U | ppb | (2.3) | U | ppb | | | | |
| RW2 | 105948 | 8/23/1989 | 0:00 | | | | | | | 7.0 | 7 | | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | | | | | | | 3.0 | 3 | J | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | | | | | | | (5.0) | 2.5 | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | | | | | | | 3.0 | 3 | J | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | | | | | | | (5.0) | 2.5 | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | | | | | | | 3.0 | 3 | J | ug/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | | | | | | | (5.0) | 2.5 | U | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | | | | | | | (5.0) | 2.5 | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | | | | | | | (5.0) | 2.5 | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | | | | (5.0) | U | ug/l | | | | |
| TH36 | 177724 | 11/11/1993 | 10:20 | | | | (5.0) | U | ug/l | | | | |
| TH36 | 188272 | 5/17/1994 | 11:30 | | | | | | | 62.0 | **62** | | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | 2.1 | | ppb | (0.2) | U | ppb | | | | |
| X16 | 130652 | 4/26/1991 | 11:30 | | | | | | | (25.0) | **12.5** | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Resutls in parenthesis indicate that cis-Dichloroethylene and trans-Dichloroethylene was not detected at the reported MDL.

U indicates that the analyte was not detected above the MDL.

J indicates that the analyte was detected below MDL and is estimated.

**BOLD** indicates that the reported analyte concentration is in excess of the NJDEP Groundwater Quality Criteria of 10 ug/l (cis-Dichloroethylene) or 100 ug/l (trans-Dichloroethylene).

**Summary of Groundwater Analytical Results**
**Di-n-Butylphthalate**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (5) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | (5.000) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | (5.00) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (1.000) | U | ug/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | (1.000) | U | ug/l |
| MW13 | 162570 | 2/24/1993 | 15:10 | (5) | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 172959 | 8/11/1993 | 16:20 | (5.000) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 182406 | 2/15/1994 | 15:45 | (5.00) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (1.000) | U | ug/l |
| MW13 | 194136 | 8/11/1994 | 11:10 | (1.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.5) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.4) | U | ppb |
| MW16 | 162621 | 2/25/1993 | 14:45 | (5) | U | ug/l |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 172230 | 8/12/1993 | 2:40 | (5.000) | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | (5.000) | U | ug/l |
| MW16 | 182407 | 2/15/1994 | 16:00 | (5.00) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (1.000) | U | ug/l |
| MW16 | 194138 | 8/11/1994 | 13:20 | (1.000) | U | ug/l |
| MW17 | 162619 | 2/25/1993 | 13:50 | (5) | U | ug/l |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 172159 | 8/11/1993 | 10:00 | (5.000) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 182404 | 2/15/1994 | 10:50 | (5.00) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (1.000) | U | ug/l |
| MW17 | 194024 | 8/10/1994 | 12:10 | (1.000) | U | ug/l |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.5) | U | ppb |
| MW19 | 162620 | 2/25/1993 | 14:15 | (5) | U | ug/l |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 172160 | 8/11/1993 | 11:25 | (5.000) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 182405 | 2/15/1994 | 11:25 | (5.00) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (1.000) | U | ug/l |
| MW19 | 194025 | 8/10/1994 | 12:50 | (1.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.4) | U | ppb |
| MW19Dup | 194026 | 8/10/1994 | 12:50 | (1.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Di-N-Butylphthlate was not detected at the reported MDL.

U indicates that Di-N-Butylphthalate was not detected above the MDL.

J indicates that Di-N-Butylphthalate was detected below MDL and is estimated.

**BOLD** indicates that the reported Di-N-Butylphthalate concentration is in excess of the NJDEP Groundwater Quality Criteria of 900 ug/l.

**Summary of Groundwater Analytical Results**
**Di-n-Butylphthalate**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.4) | U | ppb |
| MW21 | 162569 | 2/24/1993 | 8:55 | (5) | U | ug/l |
| MW21 | 167354 | 5/24/1993 | 15:25 | (5) | U | ug/l |
| MW21 | 172162 | 8/11/1993 | 3:35 | (24.000) | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 182706 | 2/24/1994 | 14:45 | (5.00) | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (1.000) | U | ug/l |
| MW21 | 194289 | 8/12/1994 | 11:30 | (1.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.4) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| MW2A | 149608 | 5/14/1992 | 11:00 | (5) | U | ug/l |
| MW2A | 167553 | 5/27/1993 | 13:12 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (1.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.850) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 167554 | 5/27/1993 | 14:12 | (5) | U | ug/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (5.00) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (1.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.850) | U | ug/l |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.4) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.4) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.850) | U | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | 1.4 | | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | 1.4 | | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.850) | U | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.850) | U | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.850) | U | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | (0.850) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (1.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.850) | U | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW5 | 149707 | 5/18/1992 | 10:15 | (25.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (120) | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | (19.000) | U | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (1.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.850) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Di-N-Butylphthlate was not detected at the reported MDL.

U indicates that Di-N-Butylphthalate was not detected above the MDL.

J indicates that Di-N-Butylphthalate was detected below MDL and is estimated.

**BOLD** indicates that the reported Di-N-Butylphthalate concentration is in excess of the NJDEP Groundwater Quality Criteria of 900 ug/l.

**Summary of Groundwater Analytical Results**
**Di-n-Butylphthalate**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 146054 | 2/25/1992 | 11:30 | (5.000) | U | ug/l |
| RW11 | 149563 | 5/13/1992 | 9:30 | (5) | U | ug/l |
| RW11 | 152982 | 8/5/1992 | 14:10 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 162205 | 2/17/1993 | 14:25 | (5) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 172163 | 8/11/1993 | 4:10 | (5.000) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | (5.000) | U | ug/l |
| RW11 | 182271 | 2/10/1994 | 15:05 | (5.00) | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (1.000) | U | ug/l |
| RW11 | 194137 | 8/11/1994 | 11:30 | (1.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.850) | U | ug/l |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 146087 | 2/26/1992 | 15:30 | (5.000) | U | ug/l |
| RW14 | 149564 | 5/13/1992 | 11:30 | (5) | U | ug/l |
| RW14 | 153108 | 8/7/1992 | 9:00 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | (5) | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 146263 | 2/28/1992 | 10:00 | (5.000) | U | ug/l |
| TH36 | 149565 | 5/13/1992 | 14:30 | (5) | U | ug/l |
| TH36 | 153186 | 8/10/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | (5) | U | ug/l |
| TH36 | 162622 | 2/25/1993 | 15:25 | (5) | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 172231 | 8/12/1993 | 3:00 | (5.000) | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | (5.000) | U | ug/l |
| TH36 | 182705 | 2/24/1994 | 14:00 | (5.00) | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (1.000) | U | ug/l |
| TH36 | 194288 | 8/12/1994 | 9:15 | (1.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.4) | U | ppb |
| X16 | 130857 | 5/2/1991 | 11:00 | 4.00 | J | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Di-N-Butylphthlate was not detected at the reported MDL.

U indicates that Di-N-Butylphthalate was not detected above the MDL.

J indicates that Di-N-Butylphthalate was detected below MDL and is estimated.

**BOLD** indicates that the reported Di-N-Butylphthalate concentration is in excess of the NJDEP Groundwater Quality Criteria of 900 ug/l.

**Summary of Groundwater Analytical Results**
**Ethylbenzene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 111372 | 1/4/1990 | 13:00 | (5.000) | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | (5.000) | U | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | (1) | U | mg/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (1) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | (1) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | (1.000) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | (5.00) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (1.000) | U | ug/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | (0.400) | U | ug/l |
| MW1 | 90080001 | 1/8/1999 | 9:10 | (0.430) | U | ug/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.2) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.2) | U | ppb |
| MW13 | 162570 | 2/24/1993 | 15:10 | (1) | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 172161 | 8/11/1993 | 1:15 | (1.000) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 182406 | 2/15/1994 | 15:45 | (5.00) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (1.000) | U | ug/l |
| MW13 | 194136 | 8/11/1994 | 11:10 | (0.400) | U | ug/l |
| MW13 | 90165001 | 1/15/1999 | 11:20 | (0.430) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.2) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.2) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.2) | U | ppb |
| MW15 | 90206003 | 1/19/1999 | 13:20 | (0.430) | U | ug/l |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.2) | U | ppb |
| MW16 | 162621 | 2/25/1993 | 14:45 | 1 | | ug/l |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | (5.000) | U | ug/l |
| MW16 | 182407 | 2/15/1994 | 16:00 | (5.00) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (1.000) | U | ug/l |
| MW16 | 194138 | 8/11/1994 | 13:20 | (0.400) | U | ug/l |
| MW16 | 90113002 | 1/12/1999 | 10:00 | (0.430) | U | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | (0.2) | U | ppb |
| MW17 | 162619 | 2/25/1993 | 13:50 | (1) | U | ug/l |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 182404 | 2/15/1994 | 10:50 | (5.00) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (1.000) | U | ug/l |
| MW17 | 194024 | 8/10/1994 | 12:10 | (0.400) | U | ug/l |
| MW17 | 90297002 | 1/22/1999 | 13:50 | (0.430) | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.2) | U | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.2) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.2) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.2) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Ethylbenzene was not detected at the reported MDL.

U indicates that Ethylbenzene was not detected above the MDL.

J indicates that Ethylbenzene was detected below MDL and is estimated.

**BOLD** indicates that the reported Ethylbenzene concentration is in excess of the NJDEP Groundwater Quality Criteria of 700 ug/l.

**Summary of Groundwater Analytical Results**
**Ethylbenzene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW18 | 90297001 | 1/22/1999 | 11:20 | (0.430) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.2) | U | ppb |
| MW19 | 162620 | 2/25/1993 | 14:15 | (1) | U | ug/l |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 182405 | 2/15/1994 | 11:25 | (5.00) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (1.000) | U | ug/l |
| MW19 | 194025 | 8/10/1994 | 12:50 | (0.400) | U | ug/l |
| MW19 | 90165002 | 1/15/1999 | 13:30 | (0.430) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.2) | U | ppb |
| MW19Dup | 194026 | 8/10/1994 | 12:50 | (0.400) | U | ug/l |
| MW2 | 96943 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | (5.000) | U | ug/l |
| MW2 | 90080002 | 1/8/1999 | 9:34 | (0.430) | U | ug/l |
| MW20 | 90321001 | 1/26/1999 | 9:47 | (0.430) | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.2) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.2) | U | ppb |
| MW21 | 162569 | 2/24/1993 | 8:55 | (1) | U | ug/l |
| MW21 | 167354 | 5/24/1993 | 15:25 | (5) | U | ug/l |
| MW21 | 172162 | 8/11/1993 | 3:35 | (2.000) | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 182706 | 2/24/1994 | 14:45 | (5.00) | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (1.000) | U | ug/l |
| MW21 | 194289 | 8/12/1994 | 11:30 | (0.400) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| MW24 | 90080006 | 1/8/1999 | 14:00 | (0.430) | U | ug/l |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.2) | U | ppb |
| MW25 | 90321003 | 1/26/1999 | 13:35 | (0.430) | U | ug/l |
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.2) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.2) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.2) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.2) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.2) | U | ppb |
| MW27 | 90206004 | 1/19/1999 | 13:55 | (0.430) | U | ug/l |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.2) | U | ppb |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.2) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.2) | U | ppb |
| MW29 | 90321002 | 1/26/1999 | 10:20 | (0.430) | U | ug/l |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| MW2A | 111373 | 1/4/1990 | 13:45 | (5.000) | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | 4 | J | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | (5) | U | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (1.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.430) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | (0.2) | U | ppb |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | (5) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Ethylbenzene was not detected at the reported MDL.

U indicates that Ethylbenzene was not detected above the MDL.

J indicates that Ethylbenzene was detected below MDL and is estimated.

**BOLD** indicates that the reported Ethylbenzene concentration is in excess of the NJDEP Groundwater Quality Criteria of 700 ug/l.

**Summary of Groundwater Analytical Results**
**Ethylbenzene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW3 | 96944 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (5.000) | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (5.000) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | (5) | U | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | (5) | U | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | (5) | U | ug/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (5.00) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (1.000) | U | ug/l |
| MW3 | 90080003 | 1/8/1999 | 10:35 | (0.430) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.430) | U | ug/l |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.2) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | (0.2) | U | ppb |
| MW30 | 90297003 | 1/22/1999 | 14:15 | (0.430) | U | ug/l |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.2) | U | ppb |
| MW31 | 90113001 | 1/12/1999 | 7:45 | (0.430) | U | ug/l |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.2) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.2) | U | ppb |
| MW32 | 90113004 | 1/12/1999 | 14:40 | (0.430) | U | ug/l |
| MW32 | 349145 | 5/8/2002 | 10:30 | (0.2) | U | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | (0.2) | U | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | (0.2) | U | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | (0.2) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.430) | U | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | (0.2) | U | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | (0.2) | U | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | (0.2) | U | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.430) | U | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | (0.2) | U | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | (0.2) | U | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | (0.2) | U | ppb |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.430) | U | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | (0.2) | U | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | (0.2) | U | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | (0.2) | U | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.430) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.2) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.430) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (0.2) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.430) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.2) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.2) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.2) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.2) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (0.430) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.2) | U | ppb |

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Results in parenthesis indicate that Ethylbenzene was not detected at the reported MDL.

U indicates that Ethylbenzene was not detected above the MDL.

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**Summary of Groundwater Analytical Results**
**Ethylbenzene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW4 | 96945 | 1/11/1989 | 0:00 | 8.00 | | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (5.000) | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | (5.000) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | (5) | U | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | (5) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (1.000) | U | ug/l |
| MW4 | 90080004 | 1/8/1999 | 11:20 | (0.430) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.430) | U | ug/l |
| MW04 | 348654 | 5/6/2002 | 12:10 | (0.2) | U | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | (0.2) | U | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | (0.2) | U | ppb |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.2) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | (0.2) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.2) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.2) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.2) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.2) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | (5.000) | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (5.000) | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | (5.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (5) | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | (1.000) | U | ug/l |
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.2) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.2) | U | ppb |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | (5) | U | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | (5) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (1.000) | U | ug/l |
| MW6 | 90080005 | 1/8/1999 | 13:20 | (0.430) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.430) | U | ug/l |
| MW06 | 349141 | 5/7/2002 | 13:25 | (0.2) | U | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | (0.2) | U | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | (0.2) | U | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | (0.2) | U | ppb |
| RW09A | 347413 | 4/29/2002 | 12:00 | (0.3) | U | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | (0.3) | U | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | (0.2) | U | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | (0.8) | U | ppb |

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**BOLD** indicates that the reported Ethylbenzene concentration is in excess of the NJDEP Groundwater Quality Criteria of 700 ug/l.

**Summary of Groundwater Analytical Results**
**Ethylbenzene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW1 | 105947 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | (5.000) | U | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | (5.000) | U | ug/l |
| RW10 | 90206001 | 1/19/1999 | 11:30 | (0.430) | U | ug/l |
| RW10 | 349615 | 5/9/2002 | 13:00 | (0.2) | U | ppb |
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | (5) | U | ug/l |
| RW11 | 152982 | 8/5/1992 | 14:10 | (1) | U | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 162205 | 2/17/1993 | 14:25 | (1) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | (5.000) | U | ug/l |
| RW11 | 182271 | 2/10/1994 | 15:05 | (5.00) | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (1.000) | U | ug/l |
| RW11 | 194137 | 8/11/1994 | 11:30 | (0.400) | U | ug/l |
| RW11 | 90321004 | 1/26/1999 | 14:44 | (0.430) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| RW13 | 90206002 | 1/19/1999 | 12:45 | (0.430) | U | ug/l |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.430) | U | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | (0.2) | U | ppb |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 146087 | 2/26/1992 | 15:30 | (1) | U | mg/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | (5) | U | ug/l |
| RW14 | 153108 | 8/7/1992 | 9:00 | (1) | U | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | (5) | U | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | (0.2) | U | ppb |
| RW15A | 347427 | 4/29/2002 | 10:30 | (0.2) | U | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | (0.2) | U | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | (0.2) | U | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | (0.2) | U | ppb |
| RW16A | 347411 | 4/29/2002 | 11:35 | (1.5) | U | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | (1.5) | U | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **47000.00** | | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | **47000.00** | | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |

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**BOLD** indicates that the reported Ethylbenzene concentration is in excess of the NJDEP Groundwater Quality Criteria of 700 ug/l.

**Summary of Groundwater Analytical Results**
**Ethylbenzene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 146263 | 2/28/1992 | 10:00 | (1) | U | mg/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 153186 | 8/10/1992 | 12:30 | 5 | | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | (5) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | (5) | U | ug/l |
| TH36 | 162622 | 2/25/1993 | 15:25 | 15 | | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 172231 | 8/12/1993 | 3:00 | (1.000) | U | mg/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | (5.000) | U | ug/l |
| TH36 | 182705 | 2/24/1994 | 14:00 | (5.00) | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (1.000) | U | ug/l |
| TH36 | 194288 | 8/12/1994 | 9:15 | (0.400) | U | ug/l |
| TH36 | 90113003 | 1/12/1999 | 11:48 | (0.430) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.2) | U | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | (25.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Ethylbenzene was not detected at the reported MDL.

U indicates that Ethylbenzene was not detected above the MDL.

J indicates that Ethylbenzene was detected below MDL and is estimated.

**BOLD** indicates that the reported Ethylbenzene concentration is in excess of the NJDEP Groundwater Quality Criteria of 700 ug/l.

**Summary of Groundwater Analytical Results**
**Fluoranthene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (5) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | (5.000) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | (5.00) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (2.000) | U | ug/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | (2.000) | U | ug/l |
| MW13 | 162570 | 2/24/1993 | 15:10 | (5) | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 172959 | 8/11/1993 | 16:20 | (5.000) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 182406 | 2/15/1994 | 15:45 | (5.00) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (2.000) | U | ug/l |
| MW13 | 194136 | 8/11/1994 | 11:10 | (2.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.4) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.4) | U | ppb |
| MW16 | 162621 | 2/25/1993 | 14:45 | (5) | U | ug/l |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 172230 | 8/12/1993 | 2:40 | (5.000) | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | (5.000) | U | ug/l |
| MW16 | 182407 | 2/15/1994 | 16:00 | (5.00) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (2.000) | U | ug/l |
| MW16 | 194138 | 8/11/1994 | 13:20 | (2.000) | U | ug/l |
| MW17 | 162619 | 2/25/1993 | 13:50 | (5) | U | ug/l |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 172159 | 8/11/1993 | 10:00 | (5.000) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 182404 | 2/15/1994 | 10:50 | (5.00) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (2.000) | U | ug/l |
| MW17 | 194024 | 8/10/1994 | 12:10 | (2.000) | U | ug/l |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.4) | U | ppb |
| MW19 | 162620 | 2/25/1993 | 14:15 | (5) | U | ug/l |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 172160 | 8/11/1993 | 11:25 | (5.000) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 182405 | 2/15/1994 | 11:25 | (5.00) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (2.000) | U | ug/l |
| MW19 | 194025 | 8/10/1994 | 12:50 | (2.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.4) | U | ppb |
| MW19Dup | 194026 | 8/10/1994 | 12:50 | (2.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Fluoranthene was not detected at the reported MDL.

U indicates that Fluoranthene was not detected above the MDL.

J indicates that Fluoranthene was detected below MDL and is estimated.

**BOLD** indicates that the reported Fluoranthene concentration is in excess of the NJDEP Groundwater Quality Criteria of 300 ug/l.

**Summary of Groundwater Analytical Results**
**Fluoranthene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.4) | U | ppb |
| MW21 | 162569 | 2/24/1993 | 8:55 | (5) | U | ug/l |
| MW21 | 167354 | 5/24/1993 | 15:25 | (5) | U | ug/l |
| MW21 | 172162 | 8/11/1993 | 3:35 | (24.000) | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 182706 | 2/24/1994 | 14:45 | 2.00 | J | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (2.000) | U | ug/l |
| MW21 | 194289 | 8/12/1994 | 11:30 | (2.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.4) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| MW2A | 149608 | 5/14/1992 | 11:00 | (5) | U | ug/l |
| MW2A | 167553 | 5/27/1993 | 13:12 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (2.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.340) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 167554 | 5/27/1993 | 14:12 | (5) | U | ug/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (5.00) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (2.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.340) | U | ug/l |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.4) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.4) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.340) | U | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.340) | U | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.340) | U | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.340) | U | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.340) | U | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.340) | U | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | (0.340) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (2.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.340) | U | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW5 | 149707 | 5/18/1992 | 10:15 | (25.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (120) | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | 29 | J | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (2.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.340) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Fluoranthene was not detected at the reported MDL.

U indicates that Fluoranthene was not detected above the MDL.

J indicates that Fluoranthene was detected below MDL and is estimated.

**BOLD** indicates that the reported Fluoranthene concentration is in excess of the NJDEP Groundwater Quality Criteria of 300 ug/l.

**Summary of Groundwater Analytical Results**
**Fluoranthene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 146054 | 2/25/1992 | 11:30 | (5.000) | U | ug/l |
| RW11 | 149563 | 5/13/1992 | 9:30 | (5) | U | ug/l |
| RW11 | 152982 | 8/5/1992 | 14:10 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 162205 | 2/17/1993 | 14:25 | (5) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 172163 | 8/11/1993 | 4:10 | (5.000) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | (5.000) | U | ug/l |
| RW11 | 182271 | 2/10/1994 | 15:05 | (5.00) | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (2.000) | U | ug/l |
| RW11 | 194137 | 8/11/1994 | 11:30 | (2.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.340) | U | ug/l |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 146087 | 2/26/1992 | 15:30 | (5.000) | U | ug/l |
| RW14 | 149564 | 5/13/1992 | 11:30 | (5) | U | ug/l |
| RW14 | 153108 | 8/7/1992 | 9:00 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | (5) | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 146263 | 2/28/1992 | 10:00 | (5.000) | U | ug/l |
| TH36 | 149565 | 5/13/1992 | 14:30 | (5) | U | ug/l |
| TH36 | 153186 | 8/10/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | (5) | U | ug/l |
| TH36 | 162622 | 2/25/1993 | 15:25 | (5) | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 172231 | 8/12/1993 | 3:00 | (5.000) | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | (5.000) | U | ug/l |
| TH36 | 182705 | 2/24/1994 | 14:00 | (5.00) | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (2.000) | U | ug/l |
| TH36 | 194288 | 8/12/1994 | 9:15 | (2.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.4) | U | ppb |
| X16 | 130857 | 5/2/1991 | 11:00 | 5.00 | | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Fluoranthene was not detected at the reported MDL.

U indicates that Fluoranthene was not detected above the MDL.

J indicates that Fluoranthene was detected below MDL and is estimated.

**BOLD** indicates that the reported Fluoranthene concentration is in excess of the NJDEP Groundwater Quality Criteria of 300 ug/l.

**Summary of Groundwater Analytical Results**
**Fluorene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (5) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | (5.000) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | (5.00) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (3.000) | U | ug/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | (3.000) | U | ug/l |
| MW13 | 162570 | 2/24/1993 | 15:10 | (5) | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 172959 | 8/11/1993 | 16:20 | (5.000) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 182406 | 2/15/1994 | 15:45 | (5.00) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (3.000) | U | ug/l |
| MW13 | 194136 | 8/11/1994 | 11:10 | (3.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.7) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.6) | U | ppb |
| MW16 | 162621 | 2/25/1993 | 14:45 | (5) | U | ug/l |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 172230 | 8/12/1993 | 2:40 | (5.000) | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | (5.000) | U | ug/l |
| MW16 | 182407 | 2/15/1994 | 16:00 | (5.00) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (3.000) | U | ug/l |
| MW16 | 194138 | 8/11/1994 | 13:20 | (3.000) | U | ug/l |
| MW17 | 162619 | 2/25/1993 | 13:50 | (5) | U | ug/l |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 172159 | 8/11/1993 | 10:00 | (5.000) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 182404 | 2/15/1994 | 10:50 | (5.00) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (3.000) | U | ug/l |
| MW17 | 194024 | 8/10/1994 | 12:10 | (3.000) | U | ug/l |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | 0.8 | | ppb |
| MW19 | 162620 | 2/25/1993 | 14:15 | (5) | U | ug/l |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 172160 | 8/11/1993 | 11:25 | (5.000) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 182405 | 2/15/1994 | 11:25 | (5.00) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (3.000) | U | ug/l |
| MW19 | 194025 | 8/10/1994 | 12:50 | (3.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.6) | U | ppb |
| MW19Dup | 194026 | 8/10/1994 | 12:50 | (3.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Fluorene was not detected at the reported MDL.

U indicates that Fluorene was not detected above the MDL.

J indicates that Fluorene was detected below MDL and is estimated.

**BOLD** indicates that the reported Fluorene concentration is in excess of the NJDEP Groundwater Quality Criteria of 300 ug/l.

**Summary of Groundwater Analytical Results**
**Fluorene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.6) | U | ppb |
| MW21 | 162569 | 2/24/1993 | 8:55 | (5) | U | ug/l |
| MW21 | 167354 | 5/24/1993 | 15:25 | 2 | J | ug/l |
| MW21 | 172162 | 8/11/1993 | 3:35 | (24.000) | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 182706 | 2/24/1994 | 14:45 | (5.00) | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (3.000) | U | ug/l |
| MW21 | 194289 | 8/12/1994 | 11:30 | (3.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.6) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.6) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.6) | U | ppb |
| MW2A | 149608 | 5/14/1992 | 11:00 | (5) | U | ug/l |
| MW2A | 167553 | 5/27/1993 | 13:12 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (3.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.330) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 167554 | 5/27/1993 | 14:12 | (5) | U | ug/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (5.00) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (3.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.330) | U | ug/l |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.6) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.6) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.330) | U | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.330) | U | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.330) | U | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.330) | U | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.330) | U | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.330) | U | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | (0.330) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (3.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.330) | U | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.7) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.7) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.8) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.7) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.8) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.7) | U | ppb |
| MW5 | 149707 | 5/18/1992 | 10:15 | (25.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (120) | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | 71 | | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (3.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.330) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Fluorene was not detected at the reported MDL.

U indicates that Fluorene was not detected above the MDL.

J indicates that Fluorene was detected below MDL and is estimated.

**BOLD** indicates that the reported Fluorene concentration is in excess of the NJDEP Groundwater Quality Criteria of 300 ug/l.

**Summary of Groundwater Analytical Results**
**Fluorene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 146054 | 2/25/1992 | 11:30 | (5.000) | U | ug/l |
| RW11 | 149563 | 5/13/1992 | 9:30 | (5) | U | ug/l |
| RW11 | 152982 | 8/5/1992 | 14:10 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 162205 | 2/17/1993 | 14:25 | (5) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 172163 | 8/11/1993 | 4:10 | (5.000) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | (5.000) | U | ug/l |
| RW11 | 182271 | 2/10/1994 | 15:05 | (5.00) | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (3.000) | U | ug/l |
| RW11 | 194137 | 8/11/1994 | 11:30 | (3.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.6) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.330) | U | ug/l |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 146087 | 2/26/1992 | 15:30 | (5.000) | U | ug/l |
| RW14 | 149564 | 5/13/1992 | 11:30 | (5) | U | ug/l |
| RW14 | 153108 | 8/7/1992 | 9:00 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | (5) | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 146263 | 2/28/1992 | 10:00 | (5.000) | U | ug/l |
| TH36 | 149565 | 5/13/1992 | 14:30 | (5) | U | ug/l |
| TH36 | 153186 | 8/10/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | (5) | U | ug/l |
| TH36 | 162622 | 2/25/1993 | 15:25 | (5) | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 172231 | 8/12/1993 | 3:00 | (5.000) | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | (5.000) | U | ug/l |
| TH36 | 182705 | 2/24/1994 | 14:00 | (5.00) | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (3.000) | U | ug/l |
| TH36 | 194288 | 8/12/1994 | 9:15 | (3.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.6) | U | ppb |
| X16 | 130857 | 5/2/1991 | 11:00 | 19.00 | | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Fluorene was not detected at the reported MDL.

U indicates that Fluorene was not detected above the MDL.

J indicates that Fluorene was detected below MDL and is estimated.

**BOLD** indicates that the reported Fluorene concentration is in excess of the NJDEP Groundwater Quality Criteria of 300 ug/l.

**Summary of Groundwater Analytical Results**
**Total Xylenes**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | (5.00) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (1.000) | U | ug/l |
| MW1 | 90080001 | 1/8/1999 | 9:10 | (1.500) | U | ug/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.2) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.2) | U | ppb |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 182406 | 2/15/1994 | 15:45 | (5.00) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (1.000) | U | ug/l |
| MW13 | 90165001 | 1/15/1999 | 11:20 | (1.500) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.2) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.2) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.2) | U | ppb |
| MW15 | 90206003 | 1/19/1999 | 13:20 | (1.500) | U | ug/l |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.2) | U | ppb |
| MW16 | 177726 | 11/11/1993 | 2:00 | (5.000) | U | ug/l |
| MW16 | 182407 | 2/15/1994 | 16:00 | (5.00) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (1.000) | U | ug/l |
| MW16 | 90113002 | 1/12/1999 | 10:00 | (1.500) | U | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | (0.2) | U | ppb |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (1.000) | U | ug/l |
| MW17 | 90297002 | 1/22/1999 | 13:50 | (1.500) | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.2) | U | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.2) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.2) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.2) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |
| MW18 | 90297001 | 1/22/1999 | 11:20 | (1.500) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.2) | U | ppb |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 182405 | 2/15/1994 | 11:25 | (5.00) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (1.000) | U | ug/l |
| MW19 | 90165002 | 1/15/1999 | 13:30 | (1.500) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.2) | U | ppb |
| MW2 | 90080002 | 1/8/1999 | 9:34 | (1.500) | U | ug/l |
| MW20 | 90321001 | 1/26/1999 | 9:47 | (1.500) | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.2) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.2) | U | ppb |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 182706 | 2/24/1994 | 14:45 | (5.00) | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (1.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.2) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Xylenes were not detected at the reported MDL.

U indicates that Xylenes was not detected above the MDL.

J indicates that Xylenes was detected below MDL and is estimated.

**BOLD** indicates that the reported Xylenes concentration is in excess of the NJDEP Groundwater Quality Criteria of 1000 ug/l.

**Summary of Groundwater Analytical Results**
**Total Xylenes**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW24 | 90080006 | 1/8/1999 | 14:00 | (1.500) | U | ug/l |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.2) | U | ppb |
| MW25 | 90321003 | 1/26/1999 | 13:35 | (1.500) | U | ug/l |
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.2) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.2) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.2) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.2) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.2) | U | ppb |
| MW27 | 90206004 | 1/19/1999 | 13:55 | (1.500) | U | ug/l |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.2) | U | ppb |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.2) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.2) | U | ppb |
| MW29 | 90321002 | 1/26/1999 | 10:20 | (1.500) | U | ug/l |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| MW2A | 157616 | 11/10/1992 | 16:15 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (1.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (1.500) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | (0.2) | U | ppb |
| MW3 | 157617 | 11/10/1992 | 12:15 | (5) | U | ug/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (5.00) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (1.000) | U | ug/l |
| MW3 | 90080003 | 1/8/1999 | 10:35 | (1.500) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (1.500) | U | ug/l |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.2) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | (0.2) | U | ppb |
| MW30 | 90297003 | 1/22/1999 | 14:15 | (1.500) | U | ug/l |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.2) | U | ppb |
| MW31 | 90113001 | 1/12/1999 | 7:45 | (1.500) | U | ug/l |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.2) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.2) | U | ppb |
| MW32 | 90113004 | 1/12/1999 | 14:40 | (1.500) | U | ug/l |
| MW32 | 349145 | 5/8/2002 | 10:30 | (0.2) | U | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | (0.2) | U | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | (0.2) | U | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | (0.2) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (1.500) | U | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | (0.2) | U | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | (0.2) | U | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | (0.2) | U | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (1.500) | U | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | (0.2) | U | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | (0.2) | U | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | (0.2) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Xylenes were not detected at the reported MDL.

U indicates that Xylenes was not detected above the MDL.

J indicates that Xylenes was detected below MDL and is estimated.

**BOLD** indicates that the reported Xylenes concentration is in excess of the NJDEP Groundwater Quality Criteria of 1000 ug/l.

**Summary of Groundwater Analytical Results**
**Total Xylenes**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW35 | 92394004 | 6/11/1999 | 9:45 | (1.500) | U | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | (0.2) | U | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | (0.2) | U | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | (0.2) | U | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (1.500) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.2) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (1.500) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (0.2) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (1.500) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.2) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.2) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.2) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.2) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (1.500) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.2) | U | ppb |
| MW4 | 157671 | 11/11/1992 | 9:15 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (1.000) | U | ug/l |
| MW4 | 90080004 | 1/8/1999 | 11:20 | (1.500) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (1.500) | U | ug/l |
| MW04 | 348654 | 5/6/2002 | 12:10 | (0.2) | U | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | (0.2) | U | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | (0.2) | U | ppb |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.2) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | (0.2) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.2) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.2) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.2) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.2) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW5 | 188273 | 5/17/1994 | 13:45 | (1.000) | U | ug/l |
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.2) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.2) | U | ppb |
| MW6 | 157672 | 11/11/1992 | 11:35 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (1.000) | U | ug/l |
| MW6 | 90080005 | 1/8/1999 | 13:20 | (1.500) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (1.500) | U | ug/l |
| MW06 | 349141 | 5/7/2002 | 13:25 | (0.2) | U | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | (0.2) | U | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | (0.2) | U | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | (0.2) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Xylenes were not detected at the reported MDL.

U indicates that Xylenes was not detected above the MDL.

J indicates that Xylenes was detected below MDL and is estimated.

**BOLD** indicates that the reported Xylenes concentration is in excess of the NJDEP Groundwater Quality Criteria of 1000 ug/l.

**Summary of Groundwater Analytical Results**
**Total Xylenes**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW09A | 347413 | 4/29/2002 | 12:00 | (0.4) | U | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | (0.4) | U | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | (0.2) | U | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | (0.9) | U | ppb |
| RW1 | 105947 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | (5.000) | U | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | (5.000) | U | ug/l |
| RW10 | 90206001 | 1/19/1999 | 11:30 | (1.500) | U | ug/l |
| RW10 | 349615 | 5/9/2002 | 13:00 | (0.2) | U | ppb |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | (5.000) | U | ug/l |
| RW11 | 182271 | 2/10/1994 | 15:05 | (5.00) | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (1.000) | U | ug/l |
| RW11 | 90321004 | 1/26/1999 | 14:44 | (1.500) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| RW13 | 90206002 | 1/19/1999 | 12:45 | (1.500) | U | ug/l |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (1.500) | U | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | (0.2) | U | ppb |
| RW14 | 349625 | 5/10/2002 | 9:30 | (0.2) | U | ppb |
| RW15A | 347427 | 4/29/2002 | 10:30 | (0.2) | U | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | (0.2) | U | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | (0.2) | U | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | (0.2) | U | ppb |
| RW16A | 347411 | 4/29/2002 | 11:35 | (1.8) | U | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | (1.8) | U | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **270000** | | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | **270000** | | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | (5) | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | (5.000) | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (1.000) | U | ug/l |
| TH36 | 90113003 | 1/12/1999 | 11:48 | (1.500) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.2) | U | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | (25.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Xylenes were not detected at the reported MDL.

U indicates that Xylenes was not detected above the MDL.

J indicates that Xylenes was detected below MDL and is estimated.

**BOLD** indicates that the reported Xylenes concentration is in excess of the NJDEP Groundwater Quality Criteria of 1000 ug/l.

**Summary of Groundwater Analytical Results**
**Methyl Tertiary Butyl Ether (MTBE)**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | 6.4 | | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | 17 | J | ug/l |
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | (10000.000) | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | (25.000) | U | ug/l |

**NOTES:**
Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)
Q = Laboratory Qualifier
ug/l = micrograms per liter (parts per billion)
Results in parenthesis indicate that MTBE was not detected at the reported MDL.
U indicates that MTBE was not detected above the MDL.
J indicates that MTBE was detected below MDL and is estimated.
**BOLD** indicates that the reported MTBE concentration is in excess of the NJDEP Groundwater Quality Criteria of 70 ug/l.

**Summary of Groundwater Analytical Results**
**Methylene Chloride**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 111372 | 1/4/1990 | 13:00 | **(5.000)** | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | **(5.000)** | U | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | **(5.000)** | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | **8.00** | | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | **(5)** | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | **(5)** | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | **(5.000)** | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | **6** | B | ug/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.9) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.9) | U | ppb |
| MW13 | 166650 | 5/13/1993 | 14:55 | **(5)** | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | **(5.000)** | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (1.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.9) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.9) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.9) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.9) | U | ppb |
| MW16 | 167273 | 5/21/1993 | 14:00 | **(5)** | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | **(5.000)** | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (1.000) | U | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | (0.9) | U | ppb |
| MW17 | 166759 | 5/14/1993 | 14:20 | **(5)** | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | **(5.000)** | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | **7** | B | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.9) | U | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.9) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.9) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.9) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | **(5.000)** | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.9) | U | ppb |
| MW19 | 167272 | 5/21/1993 | 11:30 | **(5)** | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | **(5.000)** | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (1.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.9) | U | ppb |
| MW2 | 96943 | 1/11/1989 | 0:00 | **6.00** | | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | **(5.000)** | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.9) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.9) | U | ppb |
| MW21 | 167354 | 5/24/1993 | 15:25 | **(5)** | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | **(5.000)** | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | **3** | J* | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.9) | U | ppb |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.9) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Methylene Chloride was not detected at the reported MDL.

U indicates that Methylene Chloride was not detected above the MDL.

J indicates that Methylene Chloride was detected below MDL and is estimated.

**BOLD** indicates that the reported Methylene Chloride concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**Methylene Chloride**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.9) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.9) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.9) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.9) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.9) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.9) | U | ppb |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.9) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.9) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.9) | U | ppb |
| MW2A | 111373 | 1/4/1990 | 13:45 | **(5.000)** | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | **(5)** | U | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | **(5)** | U | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | **5** | J | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | **7** | B | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (1.100) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | (0.9) | U | ppb |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | **10** | B | ug/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | **(5.000)** | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | **(5.000)** | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | **5.00** | * | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | **(5)** | U | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | **(5)** | U | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | **5** | J | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | **7** | B | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (1.100) | U | ug/l |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.9) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | (0.9) | U | ppb |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.9) | U | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.9) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.9) | U | ppb |
| MW32 | 349145 | 5/8/2002 | 10:30 | (0.9) | U | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | (0.9) | U | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | (0.9) | U | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | (0.9) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (1.100) | U | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | (0.9) | U | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | (0.9) | U | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | (0.9) | U | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | 1.3 | | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | (0.9) | U | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | (0.9) | U | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | (0.9) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Methylene Chloride was not detected at the reported MDL.

U indicates that Methylene Chloride was not detected above the MDL.

J indicates that Methylene Chloride was detected below MDL and is estimated.

**BOLD** indicates that the reported Methylene Chloride concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**Methylene Chloride**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW35 | 92394004 | 6/11/1999 | 9:45 | (1.100) | U | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | (0.9) | U | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | (0.9) | U | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | (0.9) | U | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | 1.2 | B | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.9) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | 0.93 | JB | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (0.9) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | 0.94 | JB | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.9) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.9) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.9) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.9) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | 1.1 | B | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.9) | U | ppb |
| MW4 | 96945 | 1/11/1989 | 0:00 | **7.00** | | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | **(5.000)** | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | **(5.000)** | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | **(5.000)** | U | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | **(5)** | U | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | **(5)** | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | **(5)** | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | **7** | B | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (1.100) | U | ug/l |
| MW04 | 348654 | 5/6/2002 | 12:10 | (0.9) | U | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | (0.9) | U | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | (0.9) | U | ppb |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.9) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.8) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | (0.9) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.8) | U | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.9) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.8) | U | ppb |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.9) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.8) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.9) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.8) | U | ppb |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.9) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.8) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | **6.00** | | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | **(5.000)** | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | **(5.000)** | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | **(5.000)** | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | **(5)** | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | **(3.000)** | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Methylene Chloride was not detected at the reported MDL.

U indicates that Methylene Chloride was not detected above the MDL.

J indicates that Methylene Chloride was detected below MDL and is estimated.

**BOLD** indicates that the reported Methylene Chloride concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**Methylene Chloride**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.9) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.9) | U | ppb |
| MW6 | 149708 | 5/18/1992 | 12:00 | **(5.000)** | U | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | **(5)** | U | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | **(5)** | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | **(5)** | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | **6** | B | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (1.100) | U | ug/l |
| MW06 | 349141 | 5/7/2002 | 13:25 | (0.9) | U | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | (0.9) | U | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | (0.9) | U | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | (0.9) | U | ppb |
| RW09A | 347413 | 4/29/2002 | 12:00 | (1.8) | U | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | (1.8) | U | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | (0.9) | U | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | **(4.4)** | U | ppb |
| RW1 | 105947 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | **(5.000)** | U | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | **7** | B | ug/l |
| RW10 | 349615 | 5/9/2002 | 13:00 | (0.9) | U | ppb |
| RW11 | 141900 | 12/2/1991 | 14:45 | **(5.000)** | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | **(5)** | U | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | **(5)** | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | **(5)** | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | **21** | B | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | **(5.000)** | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | **7** | B | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.9) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (1.100) | U | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | (0.9) | U | ppb |
| RW14 | 141899 | 12/2/1991 | 10:00 | **(5.000)** | U | ug/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | **(5)** | U | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | **(5)** | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | **(5)** | U | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | (0.9) | U | ppb |
| RW15A | 347427 | 4/29/2002 | 10:30 | (0.9) | U | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | (0.9) | U | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | (0.9) | U | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | (0.9) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Methylene Chloride was not detected at the reported MDL.

U indicates that Methylene Chloride was not detected above the MDL.

J indicates that Methylene Chloride was detected below MDL and is estimated.

**BOLD** indicates that the reported Methylene Chloride concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**Methylene Chloride**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW16A | 347411 | 4/29/2002 | 11:35 | **(8.8)** | U | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | **(8.8)** | U | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **(10000.000)** | U | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | **(25.000)** | U | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | **(5.000)** | U | ug/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | **(5)** | U | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | **(5)** | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | **(5)** | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | **35** | B | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | **(5.000)** | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | **(3.000)** | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.9) | U | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | **(25.000)** | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Methylene Chloride was not detected at the reported MDL.

U indicates that Methylene Chloride was not detected above the MDL.

J indicates that Methylene Chloride was detected below MDL and is estimated.

**BOLD** indicates that the reported Methylene Chloride concentration is in excess of the NJDEP Groundwater Quality Criteria of 2 ug/l.

**Summary of Groundwater Analytical Results**
**N-Nitrosodiphenylamine**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (5) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | (5.000) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | (5.00) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (2.000) | U | ug/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | (2.000) | U | ug/l |
| MW13 | 162570 | 2/24/1993 | 15:10 | (5) | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 172959 | 8/11/1993 | 16:20 | (5.000) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 182406 | 2/15/1994 | 15:45 | (5.00) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (2.000) | U | ug/l |
| MW13 | 194136 | 8/11/1994 | 11:10 | (2.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.6) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.5) | U | ppb |
| MW16 | 162621 | 2/25/1993 | 14:45 | (5) | U | ug/l |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 172230 | 8/12/1993 | 2:40 | (5.000) | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | (5.000) | U | ug/l |
| MW16 | 182407 | 2/15/1994 | 16:00 | (5.00) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (2.000) | U | ug/l |
| MW16 | 194138 | 8/11/1994 | 13:20 | (2.000) | U | ug/l |
| MW17 | 162619 | 2/25/1993 | 13:50 | (5) | U | ug/l |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 172159 | 8/11/1993 | 10:00 | (5.000) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 182404 | 2/15/1994 | 10:50 | (5.00) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (2.000) | U | ug/l |
| MW17 | 194024 | 8/10/1994 | 12:10 | (2.000) | U | ug/l |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.6) | U | ppb |
| MW19 | 162620 | 2/25/1993 | 14:15 | (5) | U | ug/l |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 172160 | 8/11/1993 | 11:25 | (5.000) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 182405 | 2/15/1994 | 11:25 | (5.00) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (2.000) | U | ug/l |
| MW19 | 194025 | 8/10/1994 | 12:50 | (2.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.5) | U | ppb |
| MW19Dup | 194026 | 8/10/1994 | 12:50 | (2.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that N-Nitrosodiphenylamine was not detected at the reported MDL.

U indicates that N-Nitrosodephenylamine was not detected above the MDL.

J indicates that N-Nitrosodiphenylamine was detected below MDL and is estimated.

**BOLD** indicates that the reported N-Nitrosodiphenylamine concentration is in excess of the NJDEP Groundwater Quality Criteria of 20 ug/l.

**Summary of Groundwater Analytical Results**
**N-Nitrosodiphenylamine**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.6) | U | ppb |
| MW21 | 162569 | 2/24/1993 | 8:55 | (5) | U | ug/l |
| MW21 | 167354 | 5/24/1993 | 15:25 | (5) | U | ug/l |
| MW21 | 172162 | 8/11/1993 | 3:35 | **(24.000)** | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 182706 | 2/24/1994 | 14:45 | (5.00) | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (2.000) | U | ug/l |
| MW21 | 194289 | 8/12/1994 | 11:30 | (2.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.6) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.5) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.5) | U | ppb |
| MW2A | 149608 | 5/14/1992 | 11:00 | (5) | U | ug/l |
| MW2A | 167553 | 5/27/1993 | 13:12 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (2.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.420) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 167554 | 5/27/1993 | 14:12 | (5) | U | ug/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (5.00) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (2.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.420) | U | ug/l |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.5) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.6) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.420) | U | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.420) | U | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.420) | U | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.420) | U | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.420) | U | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.420) | U | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | (0.420) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (2.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.420) | U | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW5 | 149707 | 5/18/1992 | 10:15 | **(25.000)** | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | **(120)** | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | **130** | | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (2.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.420) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that N-Nitrosodiphenylamine was not detected at the reported MDL.

U indicates that N-Nitrosodephenylamine was not detected above the MDL.

J indicates that N-Nitrosodiphenylamine was detected below MDL and is estimated.

**BOLD** indicates that the reported N-Nitrosodiphenylamine concentration is in excess of the NJDEP Groundwater Quality Criteria of 20 ug/l.

**Summary of Groundwater Analytical Results**
**N-Nitrosodiphenylamine**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 146054 | 2/25/1992 | 11:30 | (5.000) | U | ug/l |
| RW11 | 149563 | 5/13/1992 | 9:30 | (5) | U | ug/l |
| RW11 | 152982 | 8/5/1992 | 14:10 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 162205 | 2/17/1993 | 14:25 | (5) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 172163 | 8/11/1993 | 4:10 | (5.000) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | (5.000) | U | ug/l |
| RW11 | 182271 | 2/10/1994 | 15:05 | (5.00) | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (2.000) | U | ug/l |
| RW11 | 194137 | 8/11/1994 | 11:30 | (2.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.5) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.420) | U | ug/l |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 146087 | 2/26/1992 | 15:30 | (5.000) | U | ug/l |
| RW14 | 149564 | 5/13/1992 | 11:30 | (5) | U | ug/l |
| RW14 | 153108 | 8/7/1992 | 9:00 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | (5) | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 146263 | 2/28/1992 | 10:00 | (5.000) | U | ug/l |
| TH36 | 149565 | 5/13/1992 | 14:30 | (5) | U | ug/l |
| TH36 | 153186 | 8/10/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | (5) | U | ug/l |
| TH36 | 162622 | 2/25/1993 | 15:25 | (5) | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 172231 | 8/12/1993 | 3:00 | (5.000) | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | (5.000) | U | ug/l |
| TH36 | 182705 | 2/24/1994 | 14:00 | (5.00) | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (2.000) | U | ug/l |
| TH36 | 194288 | 8/12/1994 | 9:15 | (2.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.5) | U | ppb |
| X16 | 130857 | 5/2/1991 | 11:00 | (5.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that N-Nitrosodiphenylamine was not detected at the reported MDL.

U indicates that N-Nitrosodephenylamine was not detected above the MDL.

J indicates that N-Nitrosodiphenylamine was detected below MDL and is estimated.

**BOLD** indicates that the reported N-Nitrosodiphenylamine concentration is in excess of the NJDEP Groundwater Quality Criteria of 20 ug/l.

**Summary of Groundwater Analytical Results**
**Phenanthrene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (5) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | (5.000) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | (5.00) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (2.000) | U | ug/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | (2.000) | U | ug/l |
| MW13 | 162570 | 2/24/1993 | 15:10 | (5) | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 172959 | 8/11/1993 | 16:20 | (5.000) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 182406 | 2/15/1994 | 15:45 | (5.00) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (2.000) | U | ug/l |
| MW13 | 194136 | 8/11/1994 | 11:10 | (2.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.5) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.5) | U | ppb |
| MW16 | 162621 | 2/25/1993 | 14:45 | (5) | U | ug/l |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 172230 | 8/12/1993 | 2:40 | (5.000) | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | (5.000) | U | ug/l |
| MW16 | 182407 | 2/15/1994 | 16:00 | (5.00) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (2.000) | U | ug/l |
| MW16 | 194138 | 8/11/1994 | 13:20 | (2.000) | U | ug/l |
| MW17 | 162619 | 2/25/1993 | 13:50 | (5) | U | ug/l |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 172159 | 8/11/1993 | 10:00 | (5.000) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 182404 | 2/15/1994 | 10:50 | (5.00) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (2.000) | U | ug/l |
| MW17 | 194024 | 8/10/1994 | 12:10 | (2.000) | U | ug/l |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.5) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Phenanthrene was not detected at the reported MDL.

U indicates that Phenanthrene was not detected above the MDL.

J indicates that Phenanthrene was detected below MDL and is estimated.

**BOLD** indicates that the reported Phenanthrene concentration is in excess of the NJDEP Groundwater Quality Criteria of 100 ug/l.

**Summary of Groundwater Analytical Results**
**Phenanthrene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW19 | 162620 | 2/25/1993 | 14:15 | (5) | U | ug/l |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 172160 | 8/11/1993 | 11:25 | (5.000) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 182405 | 2/15/1994 | 11:25 | (5.00) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (2.000) | U | ug/l |
| MW19 | 194025 | 8/10/1994 | 12:50 | (2.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.5) | U | ppb |
| MW19Dup | 194026 | 8/10/1994 | 12:50 | (2.000) | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.5) | U | ppb |
| MW21 | 162569 | 2/24/1993 | 8:55 | (5) | U | ug/l |
| MW21 | 167354 | 5/24/1993 | 15:25 | (5) | U | ug/l |
| MW21 | 172162 | 8/11/1993 | 3:35 | (24.000) | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 182706 | 2/24/1994 | 14:45 | 1.00 | J | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (2.000) | U | ug/l |
| MW21 | 194289 | 8/12/1994 | 11:30 | (2.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.5) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.5) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.5) | U | ppb |
| MW2A | 149608 | 5/14/1992 | 11:00 | (5) | U | ug/l |
| MW2A | 167553 | 5/27/1993 | 13:12 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (2.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.390) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 167554 | 5/27/1993 | 14:12 | (5) | U | ug/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (5.00) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (2.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.390) | U | ug/l |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.5) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.5) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.390) | U | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.390) | U | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.390) | U | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.390) | U | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.390) | U | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.390) | U | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | (0.390) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (2.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.390) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Phenanthrene was not detected at the reported MDL.

U indicates that Phenanthrene was not detected above the MDL.

J indicates that Phenanthrene was detected below MDL and is estimated.

**BOLD** indicates that the reported Phenanthrene concentration is in excess of the NJDEP Groundwater Quality Criteria of 100 ug/l.

**Summary of Groundwater Analytical Results**
**Phenanthrene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.5) | U | ppb |
| MW5 | 149707 | 5/18/1992 | 10:15 | 53 | | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | **(120)** | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | 92 | | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (2.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.390) | U | ug/l |
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 146054 | 2/25/1992 | 11:30 | (5.000) | U | ug/l |
| RW11 | 149563 | 5/13/1992 | 9:30 | (5) | U | ug/l |
| RW11 | 152982 | 8/5/1992 | 14:10 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 162205 | 2/17/1993 | 14:25 | (5) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 172163 | 8/11/1993 | 4:10 | (5.000) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | (5.000) | U | ug/l |
| RW11 | 182271 | 2/10/1994 | 15:05 | (5.00) | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (2.000) | U | ug/l |
| RW11 | 194137 | 8/11/1994 | 11:30 | (2.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.5) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.390) | U | ug/l |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 146087 | 2/26/1992 | 15:30 | (5.000) | U | ug/l |
| RW14 | 149564 | 5/13/1992 | 11:30 | (5) | U | ug/l |
| RW14 | 153108 | 8/7/1992 | 9:00 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | (5) | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 146263 | 2/28/1992 | 10:00 | (5.000) | U | ug/l |
| TH36 | 149565 | 5/13/1992 | 14:30 | (5) | U | ug/l |
| TH36 | 153186 | 8/10/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | (5) | U | ug/l |
| TH36 | 162622 | 2/25/1993 | 15:25 | (5) | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 172231 | 8/12/1993 | 3:00 | (5.000) | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | (5.000) | U | ug/l |
| TH36 | 182705 | 2/24/1994 | 14:00 | (5.00) | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (2.000) | U | ug/l |
| TH36 | 194288 | 8/12/1994 | 9:15 | (2.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.5) | U | ppb |
| X16 | 130857 | 5/2/1991 | 11:00 | 74.00 | | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Phenanthrene was not detected at the reported MDL.

U indicates that Phenanthrene was not detected above the MDL.

J indicates that Phenanthrene was detected below MDL and is estimated.

**BOLD** indicates that the reported Phenanthrene concentration is in excess of the NJDEP Groundwater Quality Criteria of 100 ug/l.

**Summary of Groundwater Analytical Results**
**Phenol**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| DSN-003L | 104368 | 7/20/1989 | 0:00 | 0.015 | | mg/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (1.000) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (10) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (10.000) | U | ug/l |
| MW1 | 134157 | 7/2/1991 | 8:00 | (0.010) | U | mg/l |
| MW1 | 129262 | 4/3/1991 | 11:20 | (0.010) | U | mg/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | (0.01) | U | mg/l |
| MW1 | 122714 | 10/4/1990 | 16:00 | (0.01) | U | mg/l |
| MW1 | 118813 | 7/10/1990 | 9:15 | (0.005) | U | mg/l |
| MW1 | 114946 | 4/4/1990 | 10:00 | (0.005) | U | mg/l |
| MW1 | 111372 | 1/4/1990 | 13:00 | (0.005) | U | mg/l |
| MW1 | 93476 | 10/19/1989 | 13:00 | 0.03 | | mg/l |
| MW1 | 108058 | 10/18/1989 | 14:00 | (0.005) | U | mg/l |
| MW1 | 104366 | 7/20/1989 | 0:00 | (0.005) | U | mg/l |
| MW1 | 100597 | 4/20/1989 | 9:35 | (0.005) | U | mg/l |
| MW1 | 96942 | 1/11/1989 | 0:00 | (0.005) | U | mg/l |
| MW1 | 88573 | 8/3/1988 | 0:00 | (0.005) | U | mg/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | (0.01) | U | mg/l |
| MW2 | 122715 | 10/4/1990 | 14:00 | (0.01) | U | mg/l |
| MW2 | 118814 | 7/10/1990 | 10:30 | 0.006 | | mg/l |
| MW2 | 114947 | 4/4/1990 | 11:20 | (0.005) | U | mg/l |
| MW2 | 100598 | 4/20/1989 | 10:30 | (0.005) | U | mg/l |
| MW2 | 96943 | 1/11/1989 | 0:00 | (0.005) | U | mg/l |
| MW2 | 93477 | 10/19/1988 | 14:00 | (0.02) | U | mg/l |
| MW2 | 88574 | 8/3/1988 | 0:00 | (0.005) | U | mg/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (1.000) | U | ug/l |
| MW2A | 167553 | 5/27/1993 | 13:12 | (10) | U | ug/l |
| MW2A | 134158 | 7/2/1991 | 9:00 | (0.010) | U | mg/l |
| MW2A | 129263 | 4/3/1991 | 14:00 | (0.010) | U | mg/l |
| MW2A | 111373 | 1/4/1990 | 13:45 | (0.005) | U | mg/l |
| MW2A RE | 150755 | 6/15/1992 | 11:55 | (10) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Phenol was not detected at the reported MDL.

U indicates that Phenol was not detected above the MDL.

J indicates that Phenol was detected below MDL and is estimated.

**BOLD** indicates that the reported Phenol concentration is in excess of the NJDEP Groundwater Quality Criteria of 4000 ug/l.

**Summary of Groundwater Analytical Results**
**Phenol**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW3 | 187879 | 5/10/1994 | 14:10 | (1.000) | U | ug/l |
| MW3 | 167554 | 5/27/1993 | 14:12 | (10) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (10.000) | U | ug/l |
| MW3 | 134159 | 7/2/1991 | 16:00 | (0.010) | U | mg/l |
| MW3 | 129264 | 4/3/1991 | 14:50 | (0.010) | U | mg/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (0.01) | U | mg/l |
| MW3 | 122716 | 10/4/1990 | 9:30 | (0.01) | U | mg/l |
| MW3 | 118815 | 7/10/1990 | 14:10 | (0.005) | U | mg/l |
| MW3 | 114947 | 4/4/1990 | 11:20 | (0.005) | U | mg/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (0.005) | U | mg/l |
| MW3 | 108370 | 10/24/1989 | 14:00 | (0.005) | U | mg/l |
| MW3 | 104406 | 7/21/1989 | 0:00 | (0.005) | U | mg/l |
| MW3 | 100599 | 4/20/1989 | 13:00 | (0.005) | U | mg/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | 0.005 | | mg/l |
| MW3 | 93478 | 10/19/1988 | 15:00 | (0.02) | U | mg/l |
| MW3 | 88824 | 8/4/1988 | 0:00 | (0.005) | U | mg/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (1.000) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (10) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (10.000) | U | ug/l |
| MW4 | 134160 | 7/2/1991 | 14:30 | (0.010) | U | mg/l |
| MW4 | 129265 | 4/3/1991 | 16:00 | (0.010) | U | mg/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | 0.014 | | mg/l |
| MW4 | 122717 | 10/4/1990 | 11:15 | (0.01) | U | mg/l |
| MW4 | 118816 | 7/10/1990 | 15:15 | (0.005) | U | mg/l |
| MW4 | 114948 | 4/4/1990 | 13:30 | (0.005) | U | mg/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (0.005) | U | mg/l |
| MW4 | 108371 | 10/24/1989 | 15:30 | (0.005) | U | mg/l |
| MW4 | 104407 | 7/21/1989 | 0:00 | (0.005) | U | mg/l |
| MW4 | 100600 | 4/20/1989 | 13:50 | 0.197 | | mg/l |
| MW4 | 96945 | 1/11/1989 | 0:00 | (0.005) | U | mg/l |
| MW4 | 93479 | 10/19/1988 | 16:00 | (0.02) | U | mg/l |
| MW4 | 88825 | 8/4/1988 | 0:00 | (0.005) | U | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Phenol was not detected at the reported MDL.

U indicates that Phenol was not detected above the MDL.

J indicates that Phenol was detected below MDL and is estimated.

**BOLD** indicates that the reported Phenol concentration is in excess of the NJDEP Groundwater Quality Criteria of 4000 ug/l.

**Summary of Groundwater Analytical Results**
**Phenol**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW5 | 188273 | 5/17/1994 | 13:45 | (19.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (240) | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | (50.000) | U | ug/l |
| MW5 | 134161 | 7/2/1991 | 17:00 | (0.010) | U | mg/l |
| MW5 | 129266 | 4/3/1991 | 17:20 | (0.010) | U | mg/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (0.014) | U | mg/l |
| MW5 | 122718 | 10/4/1990 | 15:00 | (0.01) | U | mg/l |
| MW5 | 118817 | 7/10/1990 | 11:45 | (0.1) | U | mg/l |
| MW5 | 114950 | 4/4/1990 | 16:20 | (0.005) | U | mg/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | (0.005) | U | mg/l |
| MW5 | 108059 | 10/18/1989 | 16:00 | (0.005) | U | mg/l |
| MW5 | 104408 | 7/21/1989 | 0:00 | (0.005) | U | mg/l |
| MW5 | 100601 | 4/20/1989 | 14:40 | (0.005) | U | mg/l |
| MW5 | 96946 | 1/11/1989 | 0:00 | 0.022 | | mg/l |
| MW5 | 93480 | 10/19/1988 | 17:00 | (0.02) | U | mg/l |
| MW5 | 88826 | 8/4/1988 | 0:00 | (0.005) | U | mg/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (1.000) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (10) | U | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (10.000) | U | ug/l |
| X16 | 130857 | 5/2/1991 | 11:00 | (10.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Phenol was not detected at the reported MDL.

U indicates that Phenol was not detected above the MDL.

J indicates that Phenol was detected below MDL and is estimated.

**BOLD** indicates that the reported Phenol concentration is in excess of the NJDEP Groundwater Quality Criteria of 4000 ug/l.

**Summary of Groundwater Analytical Results**
**Pyrene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (5) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | (5.00) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (2.000) | U | ug/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | (2.000) | U | ug/l |
| MW13 | 162570 | 2/24/1993 | 15:10 | (5) | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 172959 | 8/11/1993 | 16:20 | (5.000) | U | ug/l |
| MW13 | 182406 | 2/15/1994 | 15:45 | (5.00) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (2.000) | U | ug/l |
| MW13 | 194136 | 8/11/1994 | 11:10 | (2.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.5) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.4) | U | ppb |
| MW16 | 162621 | 2/25/1993 | 14:45 | (5) | U | ug/l |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 182407 | 2/15/1994 | 16:00 | (5.00) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (2.000) | U | ug/l |
| MW16 | 194138 | 8/11/1994 | 13:20 | (2.000) | U | ug/l |
| MW17 | 162619 | 2/25/1993 | 13:50 | (5) | U | ug/l |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 182404 | 2/15/1994 | 10:50 | (5.00) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (2.000) | U | ug/l |
| MW17 | 194024 | 8/10/1994 | 12:10 | (2.000) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.5) | U | ppb |
| MW19 | 162620 | 2/25/1993 | 14:15 | (5) | U | ug/l |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 172160 | 8/11/1993 | 11:25 | (5.000) | U | ug/l |
| MW19 | 182405 | 2/15/1994 | 11:25 | (5.00) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (2.000) | U | ug/l |
| MW19 | 194025 | 8/10/1994 | 12:50 | (2.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.4) | U | ppb |
| MW19Dup | 194026 | 8/10/1994 | 12:50 | (2.000) | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.4) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Pyrene was not detected at the reported MDL.

U indicates that Pyrene was not detected above the MDL.

J indicates that Pyrene was detected below MDL and is estimated.

**BOLD** indicates that the reported Pyrene concentration is in excess of the NJDEP Groundwater Quality Criteria of 200 ug/l.

**Summary of Groundwater Analytical Results**
**Pyrene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW21 | 162569 | 2/24/1993 | 8:55 | (5) | U | ug/l |
| MW21 | 167354 | 5/24/1993 | 15:25 | 3 | J | ug/l |
| MW21 | 172162 | 8/11/1993 | 3:35 | 13.00 | J | ug/l |
| MW21 | 182706 | 2/24/1994 | 14:45 | 7.00 | | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (2.000) | U | ug/l |
| MW21 | 194289 | 8/12/1994 | 11:30 | 1 | J | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.4) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| MW2A | 149608 | 5/14/1992 | 11:00 | (5) | U | ug/l |
| MW2A | 167553 | 5/27/1993 | 13:12 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (2.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.430) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 167554 | 5/27/1993 | 14:12 | (5) | U | ug/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (5.00) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (2.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.430) | U | ug/l |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.4) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.4) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.430) | U | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.430) | U | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.430) | U | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.430) | U | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.430) | U | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.430) | U | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | (0.430) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (2.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.430) | U | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.6) | U | ppb |
| MW5 | 149707 | 5/18/1992 | 10:15 | (25.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (120) | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | 52 | | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Pyrene was not detected at the reported MDL.

U indicates that Pyrene was not detected above the MDL.

J indicates that Pyrene was detected below MDL and is estimated.

**BOLD** indicates that the reported Pyrene concentration is in excess of the NJDEP Groundwater Quality Criteria of 200 ug/l.

**Summary of Groundwater Analytical Results**
**Pyrene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (2.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.430) | U | ug/l |
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 146054 | 2/25/1992 | 11:30 | (5.000) | U | ug/l |
| RW11 | 149563 | 5/13/1992 | 9:30 | (5) | U | ug/l |
| RW11 | 152982 | 8/5/1992 | 14:10 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 162205 | 2/17/1993 | 14:25 | (5) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 172163 | 8/11/1993 | 4:10 | (5.000) | U | ug/l |
| RW11 | 182271 | 2/10/1994 | 15:05 | (5.00) | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (2.000) | U | ug/l |
| RW11 | 194137 | 8/11/1994 | 11:30 | (2.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.4) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.430) | U | ug/l |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 146087 | 2/26/1992 | 15:30 | (5.000) | U | ug/l |
| RW14 | 149564 | 5/13/1992 | 11:30 | (5) | U | ug/l |
| RW14 | 153108 | 8/7/1992 | 9:00 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | (5) | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 146263 | 2/28/1992 | 10:00 | (5.000) | U | ug/l |
| TH36 | 149565 | 5/13/1992 | 14:30 | (5) | U | ug/l |
| TH36 | 153186 | 8/10/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | (5) | U | ug/l |
| TH36 | 162622 | 2/25/1993 | 15:25 | (5) | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 182705 | 2/24/1994 | 14:00 | (5.00) | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (2.000) | U | ug/l |
| TH36 | 194288 | 8/12/1994 | 9:15 | (2.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.4) | U | ppb |
| X16 | 130857 | 5/2/1991 | 11:00 | 11.00 | | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Pyrene was not detected at the reported MDL.

U indicates that Pyrene was not detected above the MDL.

J indicates that Pyrene was detected below MDL and is estimated.

**BOLD** indicates that the reported Pyrene concentration is in excess of the NJDEP Groundwater Quality Criteria of 200 ug/l.

**Summary of Groundwater Analytical Results**
**Tetrachloroethene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 111372 | 1/4/1990 | 13:00 | **(5.000)** | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | **(5.000)** | U | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | **(5.000)** | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | **(5.000)** | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | **(5)** | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | **(5)** | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | **(5.000)** | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (1.000) | U | ug/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.2) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.2) | U | ppb |
| MW13 | 166650 | 5/13/1993 | 14:55 | **(5)** | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | **(5.000)** | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (1.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.2) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.2) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.2) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | **1.2** | | ppb |
| MW16 | 167273 | 5/21/1993 | 14:00 | **(5)** | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | **(5.000)** | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (1.000) | U | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | **8.2** | | ppb |
| MW17 | 166759 | 5/14/1993 | 14:20 | **(5)** | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | **(5.000)** | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (1.000) | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | 0.7 | | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.2) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.2) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.2) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | **(5.000)** | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.2) | U | ppb |
| MW19 | 167272 | 5/21/1993 | 11:30 | **(5)** | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | **(5.000)** | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (1.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.2) | U | ppb |
| MW2 | 96943 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | **(5.000)** | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.2) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.2) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Tetrachloroethene was not detected at the reported MDL.

U indicates that Tetrachloroethene was not detected above the MDL.

J indicates that Tetrachloroethene was detected below MDL and is estimated.

**BOLD** indicates that the reported Tetrachloroethene concentration is in excess of the NJDEP Groundwater Quality Criteria of 1 ug/l.

**Summary of Groundwater Analytical Results**
**Tetrachloroethene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW21 | 167354 | 5/24/1993 | 15:25 | **(5)** | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | **(5.000)** | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | **(2.000)** | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.2) | U | ppb |
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.2) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.2) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.2) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.2) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.2) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.2) | U | ppb |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.2) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.2) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| MW2A | 111373 | 1/4/1990 | 13:45 | **(5.000)** | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | **(5)** | U | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | **(5)** | U | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | **(5)** | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (1.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.620) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | 0.9 | | ppb |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | **(5)** | U | ug/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | **(5.000)** | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | **(5.000)** | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | **34.00** | | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | **(5)** | U | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | **(5)** | U | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | **(5)** | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (1.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.620) | U | ug/l |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.2) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | (0.2) | U | ppb |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.2) | U | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.2) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.2) | U | ppb |
| MW32 | 349145 | 5/8/2002 | 10:30 | **1.4** | | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | 0.6 | | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | 0.6 | | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | **1.3** | | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Tetrachloroethene was not detected at the reported MDL.

U indicates that Tetrachloroethene was not detected above the MDL.

J indicates that Tetrachloroethene was detected below MDL and is estimated.

**BOLD** indicates that the reported Tetrachloroethene concentration is in excess of the NJDEP Groundwater Quality Criteria of 1 ug/l.

**Summary of Groundwater Analytical Results**
**Tetrachloroethene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW33A | 92394002 | 6/11/1999 | 11:25 | **(6.000)** | U | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | **3.6** | | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | **1.3** | | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | **1.4** | | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | **(1.100)** | U | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | **6.5** | | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | 0.6 | | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | **2.5** | | ppb |
| MW35 | 92394004 | 6/11/1999 | 9:45 | **7.9** | | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | **3.6** | | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | **1.4** | | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | **2.6** | | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.620) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.2) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.620) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (0.2) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.620) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.2) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.2) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.2) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.2) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (0.620) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.2) | U | ppb |
| MW4 | 96945 | 1/11/1989 | 0:00 | **47.00** | | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | **(5.000)** | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | **4.00** | J | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | **(5.000)** | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | **5.00** | * | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | **49** | | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | **52** | | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | **(5)** | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (1.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.620) | U | ug/l |
| MW04 | 348654 | 5/6/2002 | 12:10 | **14** | | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | **8.1** | | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | **7.9** | | ppb |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.2) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | (0.2) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.2) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.3) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Tetrachloroethene was not detected at the reported MDL.

U indicates that Tetrachloroethene was not detected above the MDL.

J indicates that Tetrachloroethene was detected below MDL and is estimated.

**BOLD** indicates that the reported Tetrachloroethene concentration is in excess of the NJDEP Groundwater Quality Criteria of 1 ug/l.

**Summary of Groundwater Analytical Results**
**Tetrachloroethene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.2) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.2) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.2) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | **(5.000)** | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | **(5.000)** | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | **(5.000)** | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | **(5)** | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | **(2.000)** | U | ug/l |
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.2) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.2) | U | ppb |
| MW6 | 149708 | 5/18/1992 | 12:00 | **(5.000)** | U | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | **(5)** | U | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | **(5)** | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | **6** | | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (1.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.620) | U | ug/l |
| MW06 | 349141 | 5/7/2002 | 13:25 | 0.4 | | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | 0.5 | | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | 0.5 | | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | 0.3 | | ppb |
| RW09A | 347413 | 4/29/2002 | 12:00 | **3.4** | | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | **2.6** | | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | 0.3 | | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | **(1.2)** | U | ppb |
| RW1 | 105947 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | **(5.000)** | U | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | **(5.000)** | U | ug/l |
| RW10 | 349615 | 5/9/2002 | 13:00 | (0.2) | U | ppb |
| RW11 | 141900 | 12/2/1991 | 14:45 | **(5.000)** | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | **(5)** | U | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | **2** | J | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | **(5)** | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | **3** | J | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | **(5.000)** | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (1.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | **4.9** | | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.620) | U | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | **1.2** | | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Tetrachloroethene was not detected at the reported MDL.

U indicates that Tetrachloroethene was not detected above the MDL.

J indicates that Tetrachloroethene was detected below MDL and is estimated.

**BOLD** indicates that the reported Tetrachloroethene concentration is in excess of the NJDEP Groundwater Quality Criteria of 1 ug/l.

**Summary of Groundwater Analytical Results**
**Tetrachloroethene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW14 | 141899 | 12/2/1991 | 10:00 | **17.00** | | ug/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | **(5)** | U | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | **(5)** | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | **(5)** | U | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | 0.9 | | ppb |
| RW15A | 347427 | 4/29/2002 | 10:30 | 0.7 | | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | 0.9 | | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | 0.7 | | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | 0.8 | | ppb |
| RW16A | 347411 | 4/29/2002 | 11:35 | **(2.4)** | U | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | **(2.4)** | U | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **(10000.000)** | U | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | **(25.000)** | U | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | **(5.000)** | U | ug/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | **(5)** | U | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | **(5)** | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | **(5)** | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | **(5)** | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | **(5.000)** | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | **30** | | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | **2.5** | | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | **(25.000)** | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Tetrachloroethene was not detected at the reported MDL.

U indicates that Tetrachloroethene was not detected above the MDL.

J indicates that Tetrachloroethene was detected below MDL and is estimated.

**BOLD** indicates that the reported Tetrachloroethene concentration is in excess of the NJDEP Groundwater Quality Criteria of 1 ug/l.

**Summary of Groundwater Analytical Results**
**Toluene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 111372 | 1/4/1990 | 13:00 | (5.000) | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | 3.00 | J | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | 170.00 | | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | (1) | U | mg/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | 170.00 | B | ug/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (1) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | 12 | | ug/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | 5 | | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | (1.000) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | (5.00) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (1.000) | U | ug/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | (0.400) | U | ug/l |
| MW1 | 90080001 | 1/8/1999 | 9:10 | (1.600) | U | ug/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.2) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.2) | U | ppb |
| MW13 | 162570 | 2/24/1993 | 15:10 | (1) | U | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 172161 | 8/11/1993 | 1:15 | (1.000) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 182406 | 2/15/1994 | 15:45 | (5.00) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (1.000) | U | ug/l |
| MW13 | 194136 | 8/11/1994 | 11:10 | (0.400) | U | ug/l |
| MW13 | 90165001 | 1/15/1999 | 11:20 | (1.600) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.2) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.2) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.2) | U | ppb |
| MW15 | 90206003 | 1/19/1999 | 13:20 | (1.600) | U | ug/l |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.2) | U | ppb |
| MW16 | 162621 | 2/25/1993 | 14:45 | 20 | | ug/l |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | (5.000) | U | ug/l |
| MW16 | 182407 | 2/15/1994 | 16:00 | (5.00) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (1.000) | U | ug/l |
| MW16 | 194138 | 8/11/1994 | 13:20 | (0.400) | U | ug/l |
| MW16 | 90113002 | 1/12/1999 | 10:00 | (1.600) | U | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | (0.2) | U | ppb |
| MW17 | 162619 | 2/25/1993 | 13:50 | (1) | U | ug/l |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 182404 | 2/15/1994 | 10:50 | (5.00) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (1.000) | U | ug/l |
| MW17 | 194024 | 8/10/1994 | 12:10 | (0.400) | U | ug/l |
| MW17 | 90297002 | 1/22/1999 | 13:50 | (1.600) | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.2) | U | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.2) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.2) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.2) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Toluene was not detected at the reported MDL.

U indicates that Toluene was not detected above the MDL.

J indicates that Toluene was detected below MDL and is estimated.

**BOLD** indicates that the reported Toluene concentration is in excess of the NJDEP Groundwater Quality Criteria of 1000 ug/l.

**Summary of Groundwater Analytical Results**
**Toluene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW18 | 90297001 | 1/22/1999 | 11:20 | (1.600) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.2) | U | ppb |
| MW19 | 162620 | 2/25/1993 | 14:15 | 2 | | ug/l |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 182405 | 2/15/1994 | 11:25 | (5.00) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (1.000) | U | ug/l |
| MW19 | 194025 | 8/10/1994 | 12:50 | (0.400) | U | ug/l |
| MW19 | 90165002 | 1/15/1999 | 13:30 | (1.600) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.2) | U | ppb |
| MW19Dup | 194026 | 8/10/1994 | 12:50 | (0.400) | U | ug/l |
| MW2 | 96943 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | 3.00 | J | ug/l |
| MW2 | 90080002 | 1/8/1999 | 9:34 | (1.600) | U | ug/l |
| MW20 | 90321001 | 1/26/1999 | 9:47 | (1.600) | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.2) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.2) | U | ppb |
| MW21 | 162569 | 2/24/1993 | 8:55 | (1) | U | ug/l |
| MW21 | 167354 | 5/24/1993 | 15:25 | (5) | U | ug/l |
| MW21 | 172162 | 8/11/1993 | 3:35 | (2.000) | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 182706 | 2/24/1994 | 14:45 | (5.00) | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (1.000) | U | ug/l |
| MW21 | 194289 | 8/12/1994 | 11:30 | (0.400) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| MW24 | 90080006 | 1/8/1999 | 14:00 | (1.600) | U | ug/l |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.2) | U | ppb |
| MW25 | 90321003 | 1/26/1999 | 13:35 | (1.600) | U | ug/l |
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.2) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.2) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.2) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.2) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.2) | U | ppb |
| MW27 | 90206004 | 1/19/1999 | 13:55 | (1.600) | U | ug/l |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.2) | U | ppb |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.2) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.2) | U | ppb |
| MW29 | 90321002 | 1/26/1999 | 10:20 | (1.600) | U | ug/l |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| MW2A | 111373 | 1/4/1990 | 13:45 | (5.000) | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | 150 | | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | 28 | | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (1.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (1.600) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | (0.2) | U | ppb |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | (5) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Toluene was not detected at the reported MDL.

U indicates that Toluene was not detected above the MDL.

J indicates that Toluene was detected below MDL and is estimated.

**BOLD** indicates that the reported Toluene concentration is in excess of the NJDEP Groundwater Quality Criteria of 1000 ug/l.

**Summary of Groundwater Analytical Results**
**Toluene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW3 | 96944 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (5.000) | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (5.000) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.000) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | 170.00 | B | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | 54 | | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | (5) | U | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | (5) | U | ug/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (5.00) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (1.000) | U | ug/l |
| MW3 | 90080003 | 1/8/1999 | 10:35 | (1.600) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (1.600) | U | ug/l |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.2) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | (0.2) | U | ppb |
| MW30 | 90297003 | 1/22/1999 | 14:15 | (1.600) | U | ug/l |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.2) | U | ppb |
| MW31 | 90113001 | 1/12/1999 | 7:45 | (1.600) | U | ug/l |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.2) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.2) | U | ppb |
| MW32 | 90113004 | 1/12/1999 | 14:40 | (1.600) | U | ug/l |
| MW32 | 349145 | 5/8/2002 | 10:30 | (0.2) | U | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | (0.2) | U | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | (0.2) | U | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | (0.2) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (1.600) | U | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | (0.2) | U | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | (0.2) | U | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | (0.2) | U | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (1.600) | U | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | (0.2) | U | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | (0.2) | U | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | (0.2) | U | ppb |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (1.600) | U | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | (0.2) | U | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | (0.2) | U | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | (0.2) | U | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (1.600) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.2) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (1.600) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (0.2) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (1.600) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.2) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.2) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.2) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.2) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (1.600) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.2) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Toluene was not detected at the reported MDL.

U indicates that Toluene was not detected above the MDL.

J indicates that Toluene was detected below MDL and is estimated.

**BOLD** indicates that the reported Toluene concentration is in excess of the NJDEP Groundwater Quality Criteria of 1000 ug/l.

**Summary of Groundwater Analytical Results**
**Toluene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW4 | 96945 | 1/11/1989 | 0:00 | 4.00 | | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (5.000) | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | (5.000) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | 150.00 | B | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | 7 | | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | 27 | | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (1.000) | U | ug/l |
| MW4 | 90080004 | 1/8/1999 | 11:20 | (1.600) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (1.600) | U | ug/l |
| MW04 | 348654 | 5/6/2002 | 12:10 | (0.2) | U | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | (0.2) | U | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | (0.2) | U | ppb |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.2) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | (0.2) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.2) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.2) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.2) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.2) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.3) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | (5.000) | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (5.000) | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | (5.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (5) | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | (1.000) | U | ug/l |
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.2) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.2) | U | ppb |
| MW6 | 149708 | 5/18/1992 | 12:00 | 170.00 | | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | 10 | | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | (5) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (1.000) | U | ug/l |
| MW6 | 90080005 | 1/8/1999 | 13:20 | (1.600) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (1.600) | U | ug/l |
| MW06 | 349141 | 5/7/2002 | 13:25 | (0.2) | U | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | 0.3 | | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | (0.2) | U | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | (0.2) | U | ppb |
| RW09A | 347413 | 4/29/2002 | 12:00 | (0.5) | U | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | (0.5) | U | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | 0.5 | | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | (1.2) | U | ppb |
| RW1 | 105947 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | (5.000) | U | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | (5.000) | U | ug/l |
| RW10 | 90206001 | 1/19/1999 | 11:30 | (1.600) | U | ug/l |
| RW10 | 349615 | 5/9/2002 | 13:00 | (0.2) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Toluene was not detected at the reported MDL.

U indicates that Toluene was not detected above the MDL.

J indicates that Toluene was detected below MDL and is estimated.

**BOLD** indicates that the reported Toluene concentration is in excess of the NJDEP Groundwater Quality Criteria of 1000 ug/l.

**Summary of Groundwater Analytical Results**
**Toluene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW11 | 141900 | 12/2/1991 | 14:45 | 44.00 | B | ug/l |
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | (5) | U | ug/l |
| RW11 | 152982 | 8/5/1992 | 14:10 | (1) | U | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | 23 | | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 162205 | 2/17/1993 | 14:25 | (1) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | (5.000) | U | ug/l |
| RW11 | 182271 | 2/10/1994 | 15:05 | (5.00) | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (1.000) | U | ug/l |
| RW11 | 194137 | 8/11/1994 | 11:30 | (0.400) | U | ug/l |
| RW11 | 90321004 | 1/26/1999 | 14:44 | (1.600) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.2) | U | ppb |
| RW13 | 90206002 | 1/19/1999 | 12:45 | (1.600) | U | ug/l |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (1.600) | U | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | (0.2) | U | ppb |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 141899 | 12/2/1991 | 10:00 | 43.00 | B | ug/l |
| RW14 | 146087 | 2/26/1992 | 15:30 | (1) | U | mg/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | (5) | U | ug/l |
| RW14 | 153108 | 8/7/1992 | 9:00 | (1) | U | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | 7 | | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | 10 | | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | (0.2) | U | ppb |
| RW15A | 347427 | 4/29/2002 | 10:30 | (0.2) | U | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | (0.2) | U | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | (0.2) | U | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | (0.2) | U | ppb |
| RW16A | 347411 | 4/29/2002 | 11:35 | (2.4) | U | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | (2.4) | U | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **3200.00** | J | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | **3200.00** | J | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | 220.00 | B | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 146263 | 2/28/1992 | 10:00 | (1) | U | mg/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 153186 | 8/10/1992 | 12:30 | 200 | | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | 53 | | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | 12 | | ug/l |
| TH36 | 162622 | 2/25/1993 | 15:25 | 250 | | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 172231 | 8/12/1993 | 3:00 | (1.000) | U | mg/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | (5.000) | U | ug/l |
| TH36 | 182705 | 2/24/1994 | 14:00 | (5.00) | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (1.000) | U | ug/l |
| TH36 | 194288 | 8/12/1994 | 9:15 | (0.400) | U | ug/l |
| TH36 | 90113003 | 1/12/1999 | 11:48 | (1.600) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.2) | U | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | (25.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Toluene was not detected at the reported MDL.

U indicates that Toluene was not detected above the MDL.

J indicates that Toluene was detected below MDL and is estimated.

**BOLD** indicates that the reported Toluene concentration is in excess of the NJDEP Groundwater Quality Criteria of 1000 ug/l.

**Summary of Groundwater Analytical Results**
**Trichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 111372 | 1/4/1990 | 13:00 | **(5.000)** | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | **(5.000)** | U | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | **(5.000)** | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | **(5.000)** | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | **(5)** | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | **(5)** | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | **(5.000)** | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | **(2.000)** | U | ug/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.1) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.1) | U | ppb |
| MW13 | 166650 | 5/13/1993 | 14:55 | **(5)** | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | **(5.000)** | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | **(2.000)** | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.1) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.1) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.1) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | **1.5** | | ppb |
| MW16 | 167273 | 5/21/1993 | 14:00 | **(5)** | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | **3.00** | J | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | **(2.000)** | U | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | **1.3** | | ppb |
| MW17 | 166759 | 5/14/1993 | 14:20 | **(5)** | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | **(5.000)** | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | **(2.000)** | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.1) | U | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.1) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.1) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.1) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | **(5.000)** | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.1) | U | ppb |
| MW19 | 167272 | 5/21/1993 | 11:30 | **(5)** | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | **(5.000)** | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | **(2.000)** | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | 0.6 | | ppb |
| MW2 | 96943 | 1/11/1989 | 0:00 | **4.00** | | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | **(5.000)** | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.1) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.1) | U | ppb |
| MW21 | 167354 | 5/24/1993 | 15:25 | **(5)** | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | **(5.000)** | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | **(3.000)** | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.1) | U | ppb |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.1) | U | ppb |
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.1) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.1) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.1) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.1) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.1) | U | ppb |
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.1) | U | ppb |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.1) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.1) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.1) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Trichloroethylene was not detected at the reported MDL.

U indicates that Trichloroethylene was not detected above the MDL.

J indicates that Trichloroethylene was detected below MDL and is estimated.

**BOLD** indicates that the reported Trichloroethylene concentration is in excess of the NJDEP Groundwater Quality Criteria of 1 ug/l.

**Summary of Groundwater Analytical Results**
**Trichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW2A | 111373 | 1/4/1990 | 13:45 | **(5.000)** | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | **(5)** | U | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | **(5)** | U | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | **(5)** | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | **(2.000)** | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.440) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | 0.6 | | ppb |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | **(5)** | U | ug/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | **(5.000)** | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | **(5.000)** | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | **58.00** | | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | **(5)** | U | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | **(5)** | U | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | **(5)** | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | **(2.000)** | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | **2.3** | | ug/l |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.1) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | 0.8 | | ppb |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.1) | U | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.1) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.1) | U | ppb |
| MW32 | 349145 | 5/8/2002 | 10:30 | **2.4** | | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | **2.4** | | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | **2.5** | | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | **2.1** | | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | **7.5** | | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | **3.8** | | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | **3.2** | | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | **3.1** | | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | **2.3** | | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | **7.1** | | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | **2.3** | | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | **7.7** | | ppb |
| MW35 | 92394004 | 6/11/1999 | 9:45 | **16** | | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | **9.2** | | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | **11** | | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | **12** | | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.440) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.1) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | **(62.000)** | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | **42** | | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.440) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.1) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.1) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.1) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.1) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (0.440) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.1) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Trichloroethylene was not detected at the reported MDL.

U indicates that Trichloroethylene was not detected above the MDL.

J indicates that Trichloroethylene was detected below MDL and is estimated.

**BOLD** indicates that the reported Trichloroethylene concentration is in excess of the NJDEP Groundwater Quality Criteria of 1 ug/l.

**Summary of Groundwater Analytical Results**
**Trichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW4 | 96945 | 1/11/1989 | 0:00 | **43.00** | | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | **(5.000)** | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | **3.00** | J | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | **(5.000)** | U | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | **89** | | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | **92** | | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | **(5)** | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | **(2.000)** | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | **1.7** | | ug/l |
| MW04 | 348654 | 5/6/2002 | 12:10 | **31** | | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | **32** | | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | **31** | | ppb |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.1) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | (0.1) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.1) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.1) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.1) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.1) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.4) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | **(5.000)** | U | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | **(5.000)** | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | **(5.000)** | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | **(5.000)** | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | **(5)** | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | **(3.000)** | U | ug/l |
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.1) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.1) | U | ppb |
| MW6 | 149708 | 5/18/1992 | 12:00 | **13.00** | | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | **19** | | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | **13** | | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | **20** | | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | **12** | | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | **2.3** | | ug/l |
| MW06 | 349141 | 5/7/2002 | 13:25 | **1.9** | | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | **4.9** | | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | **4.6** | | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | **2.6** | | ppb |
| RW09A | 347413 | 4/29/2002 | 12:00 | **11** | | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | **7.6** | | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | **2.1** | | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | (0.6) | U | ppb |
| RW1 | 105947 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | **5** | | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | **5** | J | ug/l |
| RW10 | 349615 | 5/9/2002 | 13:00 | (0.1) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Trichloroethylene was not detected at the reported MDL.

U indicates that Trichloroethylene was not detected above the MDL.

J indicates that Trichloroethylene was detected below MDL and is estimated.

**BOLD** indicates that the reported Trichloroethylene concentration is in excess of the NJDEP Groundwater Quality Criteria of 1 ug/l.

**Summary of Groundwater Analytical Results**
**Trichloroethylene**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW11 | 141900 | 12/2/1991 | 14:45 | **(5.000)** | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | **(5)** | U | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | **(5)** | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | **(5)** | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | **(5)** | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | **(5.000)** | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | **(2.000)** | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.1) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.440) | U | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | (0.1) | U | ppb |
| RW14 | 141899 | 12/2/1991 | 10:00 | **(5.000)** | U | ug/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | **(5)** | U | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | **(5)** | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | **2** | J | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | **1.5** | | ppb |
| RW15A | 347427 | 4/29/2002 | 10:30 | **3.1** | | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | **3.4** | | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | **3.3** | | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | **3.2** | | ppb |
| RW16A | 347411 | 4/29/2002 | 11:35 | **(1.2)** | U | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | **(1.2)** | U | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **(10000.000)** | U | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | **(25.000)** | U | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | **(5.000)** | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | **(5.000)** | U | ug/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | **(5)** | U | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | **(5)** | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | **(5)** | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | **(5)** | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | **(5.000)** | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | **11** | | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | 0.9 | | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | **(25.000)** | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Trichloroethylene was not detected at the reported MDL.

U indicates that Trichloroethylene was not detected above the MDL.

J indicates that Trichloroethylene was detected below MDL and is estimated.

**BOLD** indicates that the reported Trichloroethylene concentration is in excess of the NJDEP Groundwater Quality Criteria of 1 ug/l.

**Summary of Groundwater Analytical Results**
**Vinyl Chloride**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 111372 | 1/4/1990 | 13:00 | (5.000) | U | ug/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | (5.000) | U | ug/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.000) | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.000) | U | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (5) | U | ug/l |
| MW1 | 177617 | 11/10/1993 | 9:05 | (5.000) | U | ug/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (3.000) | U | ug/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | (0.3) | U | ppb |
| MW01A | 347417 | 4/29/2002 | 12:25 | (0.3) | U | ppb |
| MW13 | 166650 | 5/13/1993 | 14:55 | (5) | U | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | (5.000) | U | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | (3.000) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (0.3) | U | ppb |
| MW13A | 347449 | 4/29/2002 | 13:45 | (0.3) | U | ppb |
| MW13AP | 347450 | 4/29/2002 | 13:50 | (0.3) | U | ppb |
| MW15 | 349626 | 5/10/2002 | 11:15 | (0.3) | U | ppb |
| MW16 | 167273 | 5/21/1993 | 14:00 | (5) | U | ug/l |
| MW16 | 177726 | 11/11/1993 | 2:00 | (5.000) | U | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | (3.000) | U | ug/l |
| MW16 | 348496 | 5/3/2002 | 14:45 | (0.3) | U | ppb |
| MW17 | 166759 | 5/14/1993 | 14:20 | (5) | U | ug/l |
| MW17 | 177618 | 11/10/1993 | 10:45 | (5.000) | U | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | (3.000) | U | ug/l |
| MW17 | 348657 | 5/6/2002 | 11:20 | (0.3) | U | ppb |
| MW17A | 347444 | 4/29/2002 | 14:15 | (0.3) | U | ppb |
| MW17B | 347445 | 4/29/2002 | 14:20 | (0.3) | U | ppb |
| MW17C | 347446 | 4/29/2002 | 14:25 | (0.3) | U | ppb |
| MW17Dup | 177621 | 11/10/1993 | 0:00 | (5.000) | U | ug/l |
| MW18 | 348659 | 5/6/2002 | 15:30 | (0.3) | U | ppb |
| MW19 | 167272 | 5/21/1993 | 11:30 | (5) | U | ug/l |
| MW19 | 177619 | 11/10/1993 | 12:45 | (5.000) | U | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | (3.000) | U | ug/l |
| MW19 | 349134 | 5/7/2002 | 0:00 | (0.3) | U | ppb |
| MW2 | 96943 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | (5.000) | U | ug/l |
| MW20 | 348658 | 5/6/2002 | 14:00 | (0.3) | U | ppb |
| MW20A | 347443 | 4/29/2002 | 14:00 | (0.3) | U | ppb |
| MW21 | 167354 | 5/24/1993 | 15:25 | (5) | U | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | (5.000) | U | ug/l |
| MW21 | 188271 | 5/17/1994 | 11:00 | (4.000) | U | ug/l |
| MW21 | 349136 | 5/8/2002 | 0:00 | (0.3) | U | ppb |
| MW24 | 349142 | 5/7/2002 | 15:55 | (0.3) | U | ppb |
| MW26A | 347418 | 4/29/2002 | 9:20 | (0.3) | U | ppb |
| MW26B | 347419 | 4/29/2002 | 9:25 | (0.3) | U | ppb |
| MW26C | 347420 | 4/29/2002 | 9:30 | (0.3) | U | ppb |
| MW26D | 347421 | 4/29/2002 | 9:35 | (0.3) | U | ppb |
| MW26E | 347422 | 4/29/2002 | 9:40 | (0.3) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Vinyl Chloride was not detected at the reported MDL.

U indicates that Vinyl Chloride was not detected above the MDL.

J indicates that Vinyl Chloride was detected below MDL and is estimated.

**BOLD** indicates that the reported Vinyl Chloride concentration is in excess of the NJDEP Groundwater Quality Criteria of 5 ug/l.

**Summary of Groundwater Analytical Results**
**Vinyl Chloride**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW27 | 349623 | 5/9/2002 | 14:40 | (0.3) | U | ppb |
| MW28AA | 347425 | 4/29/2002 | 10:00 | (0.3) | U | ppb |
| MW28AB | 347426 | 4/29/2002 | 10:05 | (0.3) | U | ppb |
| MW29 | 349139 | 5/8/2002 | 0:00 | (0.3) | U | ppb |
| MW2A | 111373 | 1/4/1990 | 13:45 | (5.000) | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | (5) | U | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | (5) | U | ug/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | (5) | U | ug/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (3.000) | U | ug/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.710) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | (0.3) | U | ppb |
| MW2A RE | 150826 | 6/17/1992 | 10:10 | (5) | U | ug/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (5.000) | U | ug/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (5.000) | U | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | **33.00** | | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | (5) | U | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | (5) | U | ug/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | (5) | U | ug/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (3.000) | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.710) | U | ug/l |
| MW03 | 348653 | 5/6/2002 | 10:00 | (0.3) | U | ppb |
| MW03A | 347428 | 4/29/2002 | 10:35 | (0.3) | U | ppb |
| MW30 | 349618 | 5/10/2002 | 8:50 | (0.3) | U | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (0.3) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (0.3) | U | ppb |
| MW32 | 349145 | 5/8/2002 | 10:30 | (0.3) | U | ppb |
| MW32A | 347447 | 4/29/2002 | 14:45 | (0.3) | U | ppb |
| MW32B | 347448 | 4/29/2002 | 14:50 | (0.3) | U | ppb |
| MW32P | 349146 | 5/8/2002 | 15:20 | (0.3) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.710) | U | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | (0.3) | U | ppb |
| MW33AA | 347441 | 4/29/2002 | 13:40 | (0.3) | U | ppb |
| MW33AP | 347442 | 4/29/2002 | 13:45 | (0.3) | U | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.710) | U | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | (0.3) | U | ppb |
| MW34A | 347437 | 4/29/2002 | 12:05 | (0.3) | U | ppb |
| MW34B | 347438 | 4/29/2002 | 12:10 | (0.3) | U | ppb |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.710) | U | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | (0.3) | U | ppb |
| MW35A | 347439 | 4/29/2002 | 12:25 | (0.3) | U | ppb |
| MW35B | 347440 | 4/29/2002 | 12:30 | (0.3) | U | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.710) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | (0.3) | U | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.710) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (0.3) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.710) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (0.3) | U | ppb |
| MW38A | 347431 | 4/29/2002 | 11:15 | (0.3) | U | ppb |
| MW38B | 347432 | 4/29/2002 | 11:20 | (0.3) | U | ppb |
| MW38C | 347433 | 4/29/2002 | 11:30 | (0.3) | U | ppb |
| MW39 | 92495001 | 6/18/1999 | 15:45 | (0.710) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | (0.3) | U | ppb |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Vinyl Chloride was not detected at the reported MDL.

U indicates that Vinyl Chloride was not detected above the MDL.

J indicates that Vinyl Chloride was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**Vinyl Chloride**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|

**BOLD** indicates that the reported Vinyl Chloride concentration is in excess of the NJDEP Groundwater Quality Criteria of 5 ug/l.

**Summary of Groundwater Analytical Results**
**Vinyl Chloride**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW4 | 96945 | 1/11/1989 | 0:00 | **15.00** | | ug/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (5.000) | U | ug/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | 5.00 | J | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (5.000) | U | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | **52** | | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | **57** | | ug/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (5) | U | ug/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (3.000) | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (2.500) | U | ug/l |
| MW04 | 348654 | 5/6/2002 | 12:10 | **34** | | ppb |
| MW04A | 347429 | 4/29/2002 | 11:00 | **26** | | ppb |
| MW04B | 347430 | 4/29/2002 | 11:05 | **26** | | ppb |
| MW40 | 348494 | 5/3/2002 | 15:25 | (0.3) | U | ppb |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.7) | U | ppb |
| MW41 | 349619 | 5/10/2002 | 10:20 | (0.3) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.7) | U | ppb |
| MW42 | 348491 | 5/3/2002 | 9:55 | (0.3) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.7) | U | ppb |
| MW43A | 348493 | 5/3/2002 | 13:25 | (0.3) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.7) | U | ppb |
| MW44 | 348230 | 5/2/2002 | 14:30 | (0.3) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.7) | U | ppb |
| MW45 | 348492 | 5/3/2002 | 10:55 | (0.3) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.7) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | (5.000) | U | ug/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | (5.000) | U | ug/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (5.000) | U | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | (5.000) | U | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (5) | U | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | (4.000) | U | ug/l |
| MW05A | 347423 | 4/29/2002 | 9:45 | (0.3) | U | ppb |
| MW05B | 347424 | 4/29/2002 | 9:50 | (0.3) | U | ppb |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.000) | U | mg/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | (5) | U | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | (5) | U | ug/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (5) | U | ug/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (3.000) | U | ug/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.710) | U | ug/l |
| MW06 | 349141 | 5/7/2002 | 13:25 | (0.3) | U | ppb |
| MW06A | 347434 | 4/29/2002 | 11:45 | (0.3) | U | ppb |
| MW06B | 347435 | 4/29/2002 | 11:50 | (0.3) | U | ppb |
| MW06C | 347436 | 4/29/2002 | 11:55 | (0.3) | U | ppb |
| RW09A | 347413 | 4/29/2002 | 12:00 | **77** | | ppb |
| RW09B | 347414 | 4/29/2002 | 12:05 | **71** | | ppb |
| RW09C | 347415 | 4/29/2002 | 12:10 | **180** | | ppb |
| RW09D | 347416 | 4/29/2002 | 12:15 | **330** | | ppb |
| RW1 | 105947 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | (5.000) | U | ug/l |
| RW1 B | 116209 | 5/4/1990 | 13:55 | (5.000) | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Vinyl Chloride was not detected at the reported MDL.

U indicates that Vinyl Chloride was not detected above the MDL.

J indicates that Vinyl Chloride was detected below MDL and is estimated.

**BOLD** indicates that the reported Vinyl Chloride concentration is in excess of the NJDEP Groundwater Quality Criteria of 5 ug/l.

**Summary of Groundwater Analytical Results**
**Vinyl Chloride**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| RW10 | 349615 | 5/9/2002 | 13:00 | (0.3) | U | ppb |
| RW11 | 141900 | 12/2/1991 | 14:45 | (5.000) | U | ug/l |
| RW11 | 150810 | 5/13/1992 | 13:10 | (5) | U | ug/l |
| RW11 | 154495 | 9/9/1992 | 10:45 | (5) | U | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | (5) | U | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | (5) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | (5.000) | U | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | (3.000) | U | ug/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (0.3) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.710) | U | ug/l |
| RW13 | 348495 | 5/3/2002 | 15:18 | (0.3) | U | ppb |
| RW14 | 141899 | 12/2/1991 | 10:00 | (5.000) | U | ug/l |
| RW14 | 150808 | 5/13/1992 | 11:25 | (5) | U | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | (5) | U | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | (5) | U | ug/l |
| RW14 | 349625 | 5/10/2002 | 9:30 | (0.3) | U | ppb |
| RW15A | 347427 | 4/29/2002 | 10:30 | **7.3** | | ppb |
| RW15B | 347408 | 4/29/2002 | 10:35 | **7.5** | | ppb |
| RW15C | 347409 | 4/29/2002 | 10:40 | **6.8** | | ppb |
| RW15D | 347410 | 4/29/2002 | 10:45 | **7.6** | | ppb |
| RW16A | 347411 | 4/29/2002 | 11:35 | **19** | | ppb |
| RW16B | 347412 | 4/29/2002 | 11:40 | **20** | | ppb |
| RW2 | 105948 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | **(10000.000)** | U | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | **(25.000)** | U | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | (5.000) | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | (5.000) | U | ug/l |
| TH36 | 150809 | 5/13/1992 | 12:30 | (5) | U | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | (5) | U | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | (5) | U | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | (5) | U | ug/l |
| TH36 | 177724 | 11/11/1993 | 10:20 | (5.000) | U | ug/l |
| TH36 | 188272 | 5/17/1994 | 11:30 | (4.000) | U | ug/l |
| TH36 | 349616 | 5/9/2002 | 13:55 | (0.3) | U | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | **(25.000)** | U | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Vinyl Chloride was not detected at the reported MDL.

U indicates that Vinyl Chloride was not detected above the MDL.

J indicates that Vinyl Chloride was detected below MDL and is estimated.

**BOLD** indicates that the reported Vinyl Chloride concentration is in excess of the NJDEP Groundwater Quality Criteria of 5 ug/l.

**Summary of Groundwater Analytical Results**
**Total VOC TICs**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 141868 | 11/27/1991 | 16:45 | 9.00 | | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | 31 | | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | 41 | | ug/l |
| MW19 | 167272 | 5/21/1993 | 11:30 | 237 | | ug/l |
| MW21 | 172162 | 8/11/1993 | 3:35 | (0.000) | U | ug/l |
| MW2A | 154494 | 9/9/1992 | 8:30 | 505 | | ug/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | 53 | | ug/l |
| MW3 | 154207 | 9/2/1992 | 10:00 | 5586 | | ug/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | 746 | | ug/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | 162.00 | | ug/l |
| MW4 | 154208 | 9/2/1992 | 8:30 | 309 | | ug/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | 600 | | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | 230 | | ug/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | 170.00 | | ug/l |
| MW6 | 154209 | 9/2/1992 | 11:30 | 503 | | ug/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | 81 | | ug/l |
| RW11 | 141900 | 12/2/1991 | 14:45 | 9.00 | | ug/l |
| RW11 | 141900 | 12/2/1991 | 14:45 | 198.00 | | ug/l |
| RW14 | 141899 | 12/2/1991 | 10:00 | 9.00 | | ug/l |
| RW14 | 154497 | 9/9/1992 | 14:40 | 90 | | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | 345 | | ug/l |
| RW4 | 140780 | 11/8/1991 | 14:15 | 1446000 | | ug/l |
| RW5 | 140781 | 11/8/1991 | 14:45 | 110 | | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | 18.00 | | ug/l |
| TH36 | 154496 | 9/9/1992 | 12:00 | 29 | | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | 106 | | ug/l |
| X16 | 130652 | 4/26/1991 | 11:30 | 50.00 | | ug/l |
| X16 | 130857 | 5/2/1991 | 11:00 | 2062.00 | | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that VOC TIC was not detected at the reported MDL.

U indicates that VOC TIC was not detected above the MDL.

J indicates that VOC TIC was detected below MDL and is estimated.

**BOLD** indicates that the reported VOC TIC concentration is in excess of the NJDEP Groundwater Quality Criteria of 70 ug/l.

**Summary of Groundwater Analytical Results**
**Total BN TICs**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 141868 | 11/27/1991 | 16:45 | 170.00 | | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | 170.00 | | ug/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | 154 | | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | 74 | | ug/l |
| MW13 | 166650 | 5/13/1993 | 14:55 | 5 | | ug/l |
| MW13 | 177620 | 11/10/1993 | 2:25 | 5.00 | | ug/l |
| MW13 | 188143 | 5/13/1994 | 12:50 | 36 | B | ug/l |
| MW16 | 172230 | 8/12/1993 | 2:40 | 21.00 | | ug/l |
| MW16 | 188144 | 5/13/1994 | 10:40 | 14 | B | ug/l |
| MW17 | 187956 | 5/11/1994 | 14:15 | 4 | | ug/l |
| MW19 | 188145 | 5/13/1994 | 10:25 | 20 | | ug/l |
| MW21 | 167354 | 5/24/1993 | 15:25 | 172 | | ug/l |
| MW21 | 177727 | 11/11/1993 | 3:45 | 265.00 | | ug/l |
| MW2A | 149608 | 5/14/1992 | 11:00 | 261 | | ug/l |
| MW2A | 167553 | 5/27/1993 | 13:12 | 13 | | ug/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | 170.00 | | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | 4 | J | ug/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | 28100 | | ug/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | 10330 | | ug/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | 14340 | | ug/l |
| RW11 | 149563 | 5/13/1992 | 9:30 | 174 | | ug/l |
| RW11 | 157673 | 11/11/1992 | 14:30 | 251 | | ug/l |
| RW11 | 162205 | 2/17/1993 | 14:25 | 55 | | ug/l |
| RW11 | 167355 | 5/24/1993 | 16:00 | 75 | | ug/l |
| RW11 | 172163 | 8/11/1993 | 4:10 | (0.000) | U | ug/l |
| RW11 | 177725 | 11/11/1993 | 11:35 | 65.00 | | ug/l |
| RW11 | 187957 | 5/11/1994 | 13:45 | 48 | | ug/l |
| RW11 | 194137 | 8/11/1994 | 11:30 | 39 | | ug/l |
| RW14 | 141899 | 12/2/1991 | 10:00 | 193.00 | | ug/l |
| RW14 | 157929 | 11/13/1992 | 9:45 | 277 | | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | 220.00 | | ug/l |
| TH36 | 157930 | 11/13/1992 | 11:35 | 427 | | ug/l |
| TH36 | 167353 | 5/13/1993 | 15:10 | 24 | | ug/l |
| TH36 | 172231 | 8/12/1993 | 3:00 | 10.00 | | ug/l |
| TH36 | 194288 | 8/12/1994 | 9:15 | 8 | | ug/l |
| X16 | 130857 | 5/2/1991 | 11:00 | 559.00 | | ug/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that BN TIC was not detected at the reported MDL.

U indicates that BN TIC was not detected above the MDL.

J indicates that BN TIC was detected below MDL and is estimated.

**BOLD** indicates that the reported BN TIC concentration is in excess of the NJDEP Groundwater Quality Criteria of 70 ug/l.

**Summary of Groundwater Analytical Results**
**Arsenic**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW01 | 347679 | 4/30/2002 | 10:00 | (3.4) | U | ppb |
| MW03 | 348653 | 5/6/2002 | 10:00 | (3.4) | U | ppb |
| MW04 | 348654 | 5/6/2002 | 12:10 | (3.4) | U | ppb |
| MW06 | 349141 | 5/7/2002 | 13:25 | (3.4) | U | ppb |
| MW1 | 96942 | 1/11/1989 | 0:00 | (0.003) | U | mg/l |
| MW1 | 96942(d) | 1/11/1989 | 0:00 | (0.04) | U | mg/l |
| MW1 | 111372 | 1/4/1990 | 13:00 | (0.004) | U | mg/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | (0.004) | U | mg/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (0.004) | U | ug/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (3.4) | U | ppb |
| MW2 | 96943 | 1/11/1989 | 0:00 | (0.056) | U | mg/l |
| MW2 | 96943 | 1/11/1989 | 0:00 | (0.0003) | U | mg/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | (0.004) | U | mg/l |
| MW2A | 111373 | 1/4/1990 | 13:45 | (0.004) | U | mg/l |
| MW2A | 149608 | 5/14/1992 | 11:00 | (0.004) | U | mg/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (1.530) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | (6.4) | U | ppb |
| MW3 | 96944 | 1/11/1989 | 0:00 | (0.003) | U | mg/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | (0.04) | U | mg/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (0.004) | U | mg/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (0.004) | U | mg/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (0.004) | U | mg/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (1.530) | U | ug/l |
| MW30 | 349618 | 5/10/2002 | 8:50 | 6.8 | | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (3.4) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (3.4) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (1.530) | U | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | (6.4) | U | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (1.530) | U | ug/l |
| MW34 | | 5/1/2002 | 14:30 | (6.4) | U | ppb |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (1.530) | U | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | (6.4) | U | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (1.530) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | **14.8** | | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (1.530) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (3.4) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (1.530) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (3.4) | U | ppb |
| MW39 | 92459004 | 6/16/1999 | 10:15 | (1.530) | U | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | **13.5** | | ppb |
| MW4 | 96945 | 1/11/1989 | 0:00 | (0.003) | U | mg/l |
| MW4 | 96945 | 1/11/1989 | 0:00 | 0.09 | | mg/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (0.004) | U | mg/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | (0.004) | U | mg/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (0.004) | U | mg/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (1.530) | U | ug/l |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Arsenic was not detected at the reported MDL.

U indicates that Arsenic was not detected in excess of the (Method Detection Limit).

B indicates that Arsenic was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Arsenic exceeds the NJDEP Groundwater Quality Criterion of 8.0 ug/l.

**Summary of Groundwater Analytical Results**
**Arsenic**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW-40 | 201708 | 5/2/2000 | 12:00 | (3.6) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (3.6) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (3.6) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (3.6) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (3.6) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (3.6) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | (0.003) | U | mg/l |
| MW5 | 96946 | 1/11/1989 | 0:00 | 0.73 | | mg/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | (0.004) | U | mg/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (0.004) | U | mg/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | (0.004) | U | mg/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (0.004) | U | mg/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (1.530) | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | (0.004) | U | mg/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (3.4) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (1.530) | U | ug/l |
| RW9 | 132821 | 6/10/1991 | 12:00 | (0.8) | U | mg/kg |
| TH36 | 349616 | 5/9/2002 | 13:55 | **38.7** | | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | 0.007 | | mg/l |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Arsenic was not detected at the reported MDL.

U indicates that Arsenic was not detected in excess of the (Method Detection Limit).

B indicates that Arsenic was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Arsenic exceeds the NJDEP Groundwater Quality Criterion of 8.0 ug/l.

**Summary of Groundwater Analytical Results**
**Barium**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 111372 | 1/4/1990 | 13:00 | 0.131 | | mg/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | 0.108 | | mg/l |
| MW2A | 111373 | 1/4/1990 | 13:45 | 0.098 | | mg/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | 0.09 | | mg/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | 0.086 | | mg/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | 0.028 | | mg/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | 0.205 | | mg/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | 0.153 | | mg/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | 0.23 | | mg/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | 0.162 | | mg/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | 0.043 | | mg/l |
| RW9 | 132821 | 6/10/1991 | 12:00 | 2.6 | | mg/kg |
| X16 | 130652 | 4/26/1991 | 11:30 | 0.188 | | mg/l |

**NOTES:**
ug/l = micrograms per liter (parts per billion)
Results in parenthesis indicate that Barium was not detected at the reported MDL.
U indicates that Barium was not detected in excess of the (Method Detection Limit).
B indicates that Barium was detected below the MDL but greater than the Instrument Detection Limit.
**BOLD** indicates that the reported concentration of Barium exceeds the NJDEP Groundwater Quality Criterion of 2000 ug/l.

**Summary of Groundwater Analytical Results**
**Beryllium**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Unit |
|---|---|---|---|---|---|---|
| MW2A | 92343003 | 6/9/1999 | 11:46 | 0.195 | 0.195 | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | 0.195 | 0.195 | ug/l |
| MW33A | 92394002 | 6/11/1999 | 11:25 | 0.21 | 0.21 | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | 0.265 | 0.265 | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | 0.19 | 0.19 | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | 0.245 | 0.245 | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | 0.17 | 0.17 | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | 0.32 | 0.32 | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | 0.335 | 0.335 | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | 0.33 | 0.33 | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.2) | 0.1 | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.2) | 0.1 | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.2) | 0.1 | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.2) | 0.1 | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.2) | 0.1 | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.2) | 0.1 | ppb |
| MW6 | 92343002 | 6/9/1999 | 9:46 | 0.175 | 0.175 | ug/l |
| RW13 | 92394001 | 6/11/1999 | 10:40 | 0.15 | 0.15 | ug/l |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Beryllium was not detected at the reported MDL.

U indicates that Beryllium was not detected in excess of the (Method Detection Limit).

B indicates that Beryllium was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Beryllium exceeds the NJDEP Groundwater Quality Criterion of 20 ug/l.

**Summary of Groundwater Analytical Results**
**Chromium**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| DSN-003L | 104368 | 7/20/1989 | 0:00 | (0.012) | U | mg/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | 5.4 | | ppb |
| MW03 | 348653 | 5/6/2002 | 10:00 | (2.8) | U | ppb |
| MW04 | 348654 | 5/6/2002 | 12:10 | (2.8) | U | ppb |
| MW06 | 349141 | 5/7/2002 | 13:25 | (2.8) | U | ppb |
| MW13 | 349622 | 5/9/2002 | 12:45 | 4.6 | | ppb |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.472) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | (3.2) | U | ppb |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.472) | U | ug/l |
| MW30 | 349618 | 5/10/2002 | 8:50 | 13.7 | | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (2.8) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (2.8) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | 4.22 | B | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | 7 | | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | 1.26 | B | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | 6.2 | | ppb |
| MW35 | 92394004 | 6/11/1999 | 9:45 | 0.61 | B | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | 3.8 | | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | 0.78 | B | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | 29.8 | | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | 3.4 | B | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (2.8) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | 1.28 | B | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | 6.4 | | ppb |
| MW39 | 92459004 | 6/16/1999 | 10:15 | 1.77 | B | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | **155** | | ppb |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.472) | U | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (1.1) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | 1.9 | | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | 4.9 | | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | 4.4 | | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | 7.1 | | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | 7.4 | | ppb |
| MW6 | 92343002 | 6/9/1999 | 9:46 | 0.535 | B | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | (0.010) | U | mg/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | **118** | | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | 2.03 | B | ug/l |
| RW9 | 132821 | 6/10/1991 | 12:00 | 2.6 | | mg/kg |
| TH36 | 349616 | 5/9/2002 | 13:55 | 20.8 | | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | (0.01) | U | mg/l |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Chromium was not detected at the reported MDL.

U indicates that Chromium was not detected in excess of the (Method Detection Limit).

B indicates that Chromium was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Chromium exceeds the NJDEP Groundwater Quality Criterion of 100 ug/l.

**Summary of Groundwater Analytical Results**
**Copper**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| DSN-003L | 104368 | 7/20/1989 | 0:00 | 0.038 | | mg/l |
| MW1 | 88573 | 8/3/1988 | 0:00 | (0.007) | U | mg/l |
| MW1 | 96942 | 1/11/1989 | 0:00 | (0.007) | U | mg/l |
| MW1 | 100597 | 4/20/1989 | 9:35 | (0.001) | U | mg/l |
| MW1 | 104366 | 7/20/1989 | 0:00 | (0.007) | U | mg/l |
| MW1 | 108058 | 10/18/1989 | 14:00 | (0.025) | U | mg/l |
| MW1 | 93476 | 10/19/1989 | 13:00 | (0.007) | U | mg/l |
| MW1 | 111372 | 1/4/1990 | 13:00 | (0.025) | U | mg/l |
| MW1 | 114946 | 4/4/1990 | 10:00 | (0.25) | U | mg/l |
| MW1 | 118813 | 7/10/1990 | 9:15 | (0.025) | U | mg/l |
| MW1 | 122714 | 10/4/1990 | 16:00 | (0.025) | U | mg/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | (0.025) | U | mg/l |
| MW1 | 129262 | 4/3/1991 | 11:20 | (0.25) | U | mg/l |
| MW1 | 134157 | 7/2/1991 | 8:00 | (0.025) | U | mg/l |
| MW2 | 88574 | 8/3/1988 | 0:00 | (0.007) | U | mg/l |
| MW2 | 93477 | 10/19/1988 | 14:00 | (0.007) | U | mg/l |
| MW2 | 96943 | 1/11/1989 | 0:00 | (0.0007) | U | mg/l |
| MW2 | 100598 | 4/20/1989 | 10:30 | (0.001) | U | mg/l |
| MW2 | 114947 | 4/4/1990 | 11:20 | (0.25) | U | mg/l |
| MW2 | 118814 | 7/10/1990 | 10:30 | (0.025) | U | mg/l |
| MW2 | 122715 | 10/4/1990 | 14:00 | (0.025) | U | mg/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | (0.025) | U | mg/l |
| MW2A | 111373 | 1/4/1990 | 13:45 | (0.025) | U | mg/l |
| MW2A | 129263 | 4/3/1991 | 14:00 | (0.25) | U | mg/l |
| MW2A | 134158 | 7/2/1991 | 9:00 | (0.025) | U | mg/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (1.830) | U | ug/l |
| MW3 | 88824 | 8/4/1988 | 0:00 | (0.007) | U | mg/l |
| MW3 | 93478 | 10/19/1988 | 15:00 | (0.007) | U | mg/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | (0.013) | U | mg/l |
| MW3 | 100599 | 4/20/1989 | 13:00 | (0.008) | U | mg/l |
| MW3 | 104406 | 7/21/1989 | 0:00 | (0.025) | U | mg/l |
| MW3 | 108370 | 10/24/1989 | 14:00 | (0.025) | U | mg/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (0.025) | U | mg/l |
| MW3 | 114947 | 4/4/1990 | 11:20 | (0.25) | U | mg/l |
| MW3 | 118815 | 7/10/1990 | 14:10 | (0.025) | U | mg/l |
| MW3 | 122716 | 10/4/1990 | 9:30 | (0.025) | U | mg/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (0.025) | U | mg/l |
| MW3 | 129264 | 4/3/1991 | 14:50 | (0.25) | U | mg/l |
| MW3 | 134159 | 7/2/1991 | 16:00 | (0.025) | U | mg/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (1.830) | U | ug/l |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Copper was not detected at the reported MDL.

U indicates that Copper was not detected in excess of the (Method Detection Limit).

B indicates that Copper was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Copper exceeds the NJDEP Groundwater Quality Criterion of 1000 ug/l.

**Summary of Groundwater Analytical Results**
**Copper**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW33A | 92394002 | 6/11/1999 | 11:25 | (1.830) | U | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (1.830) | U | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (1.830) | U | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (1.830) | U | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (1.830) | U | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (1.830) | U | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | (1.830) | U | ug/l |
| MW4 | 88825 | 8/4/1988 | 0:00 | (0.007) | U | mg/l |
| MW4 | 93479 | 10/19/1988 | 16:00 | (0.007) | U | mg/l |
| MW4 | 96945 | 1/11/1989 | 0:00 | (0.007) | U | mg/l |
| MW4 | 100600 | 4/20/1989 | 13:50 | 0.019 | | mg/l |
| MW4 | 104407 | 7/21/1989 | 0:00 | (0.025) | U | mg/l |
| MW4 | 108371 | 10/24/1989 | 15:30 | 0.031 | | mg/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (0.025) | U | mg/l |
| MW4 | 114948 | 4/4/1990 | 13:30 | (0.25) | U | mg/l |
| MW4 | 118816 | 7/10/1990 | 15:15 | (0.025) | U | mg/l |
| MW4 | 122717 | 10/4/1990 | 11:15 | (0.025) | U | mg/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | (0.025) | U | mg/l |
| MW4 | 129265 | 4/3/1991 | 16:00 | (0.25) | U | mg/l |
| MW4 | 134160 | 7/2/1991 | 14:30 | (0.025) | U | mg/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (1.830) | U | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | 2.9 | | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | 4.1 | | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (2.7) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (2.7) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (2.7) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | 10.7 | | ppb |
| MW5 | 88826 | 8/4/1988 | 0:00 | (0.007) | U | mg/l |
| MW5 | 93480 | 10/19/1988 | 17:00 | (0.007) | U | mg/l |
| MW5 | 96946 | 1/11/1989 | 0:00 | 0.011 | | mg/l |
| MW5 | 100601 | 4/20/1989 | 14:40 | (0.007) | U | mg/l |
| MW5 | 104408 | 7/21/1989 | 0:00 | (0.025) | U | mg/l |
| MW5 | 108059 | 10/18/1989 | 16:00 | (0.025) | U | mg/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | (0.025) | U | mg/l |
| MW5 | 114950 | 4/4/1990 | 16:20 | (0.25) | U | mg/l |
| MW5 | 118817 | 7/10/1990 | 11:45 | (0.050) | U | mg/l |
| MW5 | 122718 | 10/4/1990 | 15:00 | (0.025) | U | mg/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (0.025) | U | mg/l |
| MW5 | 129266 | 4/3/1991 | 17:20 | (0.25) | U | mg/l |
| MW5 | 134161 | 7/2/1991 | 17:00 | (0.025) | U | mg/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (1.830) | U | ug/l |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (1.830) | U | ug/l |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Copper was not detected at the reported MDL.

U indicates that Copper was not detected in excess of the (Method Detection Limit).

B indicates that Copper was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Copper exceeds the NJDEP Groundwater Quality Criterion of 1000 ug/l.

**Summary of Groundwater Analytical Results**
**Lead**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| DSN-003L | 104368 | 7/20/1989 | 0:00 | 0.005 | | mg/l |
| MW01 | 347679 | 4/30/2002 | 10:00 | (2.2) | U | ppb |
| MW03 | 348653 | 5/6/2002 | 10:00 | (2.2) | U | ppb |
| MW04 | 348654 | 5/6/2002 | 12:10 | (2.2) | U | ppb |
| MW06 | 349141 | 5/7/2002 | 13:25 | (2.2) | U | ppb |
| MW1 | 88573 | 8/3/1988 | 0:00 | (0.004) | U | mg/l |
| MW1 | 96942 | 1/11/1989 | 0:00 | (0.004) | U | mg/l |
| MW1 | 100597 | 4/20/1989 | 9:35 | (0.040) | U | mg/l |
| MW1 | 104366 | 7/20/1989 | 0:00 | (0.004) | U | mg/l |
| MW1 | 108058 | 10/18/1989 | 14:00 | (0.004) | U | mg/l |
| MW1 | 93476 | 10/19/1989 | 13:00 | (0.004) | U | mg/l |
| MW1 | 111372 | 1/4/1990 | 13:00 | (0.004) | U | mg/l |
| MW1 | 114946 | 4/4/1990 | 10:00 | (0.004) | U | mg/l |
| MW1 | 118813 | 7/10/1990 | 9:15 | (0.004) | U | mg/l |
| MW1 | 122714 | 10/4/1990 | 16:00 | (0.004) | U | mg/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | (0.004) | U | mg/l |
| MW1 | 129262 | 4/3/1991 | 11:20 | (0.004) | U | mg/l |
| MW1 | 134157 | 7/2/1991 | 8:00 | (0.004) | U | mg/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (0.004) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (0.004) | U | mg/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (0.004) | U | mg/l |
| MW13 | 349622 | 5/9/2002 | 12:45 | (2.2) | U | ppb |
| MW2 | 88574 | 8/3/1988 | 0:00 | 0.007 | | mg/l |
| MW2 | 93477 | 10/19/1988 | 14:00 | (0.004) | U | mg/l |
| MW2 | 96943 | 1/11/1989 | 0:00 | (0.0004) | U | mg/l |
| MW2 | 100598 | 4/20/1989 | 10:30 | (0.053) | U | mg/l |
| MW2 | 114947 | 4/4/1990 | 11:20 | (0.004) | U | mg/l |
| MW2 | 118814 | 7/10/1990 | 10:30 | (0.004) | U | mg/l |
| MW2 | 122715 | 10/4/1990 | 14:00 | (0.004) | U | mg/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | (0.004) | U | mg/l |
| MW2A | 111373 | 1/4/1990 | 13:45 | (0.004) | U | mg/l |
| MW2A | 129263 | 4/3/1991 | 14:00 | (0.004) | U | mg/l |
| MW2A | 134158 | 7/2/1991 | 9:00 | (0.004) | U | mg/l |
| MW2A | 149608 | 5/14/1992 | 11:00 | (0.004) | U | mg/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | (0.004) | U | mg/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (0.004) | U | mg/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.525) | U | ug/l |
| MW2A | 348228 | 5/2/2002 | 10:20 | (4.6) | U | ppb |
| MW3 | 88824 | 8/4/1988 | 0:00 | 0.004 | | mg/l |
| MW3 | 93478 | 10/19/1988 | 15:00 | (0.004) | U | mg/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | (0.004) | U | mg/l |
| MW3 | 100599 | 4/20/1989 | 13:00 | (0.040) | U | mg/l |
| MW3 | 104406 | 7/21/1989 | 0:00 | (0.004) | U | mg/l |
| MW3 | 108370 | 10/24/1989 | 14:00 | (0.004) | U | mg/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (0.004) | U | mg/l |
| MW3 | 114947 | 4/4/1990 | 11:20 | (0.004) | U | mg/l |
| MW3 | 118815 | 7/10/1990 | 14:10 | (0.004) | U | mg/l |
| MW3 | 122716 | 10/4/1990 | 9:30 | (0.004) | U | mg/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (0.004) | U | mg/l |
| MW3 | 129264 | 4/3/1991 | 14:50 | (0.004) | U | mg/l |
| MW3 | 134159 | 7/2/1991 | 16:00 | (0.004) | U | mg/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (0.004) | U | mg/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | (0.004) | U | mg/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (0.004) | U | mg/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.525) | U | ug/l |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Lead was not detected at the reported MDL.

U indicates that Lead was not detected in excess of the (Method Detection Limit).

B indicates that Lead was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Lead exceeds the NJDEP Groundwater Quality Criterion of 10 ug/l.

**Summary of Groundwater Analytical Results**
**Lead**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW30 | 349618 | 5/10/2002 | 8:50 | **13.2** | | ppb |
| MW31 | 349613 | 5/9/2002 | 11:00 | (2.2) | U | ppb |
| MW31P | 349614 | 5/9/2002 | 11:05 | (2.2) | U | ppb |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.525) | U | ug/l |
| MW33A | 348225 | 5/1/2002 | 10:30 | 4.6 | | ppb |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.525) | U | ug/l |
| MW34 | 348226 | 5/1/2002 | 14:30 | 6.1 | | ppb |
| MW35 | 92394004 | 6/11/1999 | 9:45 | 0.71 | B | ug/l |
| MW35 | 348229 | 5/2/2002 | 12:40 | (4.6) | U | ppb |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.525) | U | ug/l |
| MW36 | 348655 | 5/6/2002 | 15:15 | **51.2** | | ppb |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.525) | U | ug/l |
| MW37 | 347681 | 4/30/2002 | 11:20 | (2.2) | U | ppb |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.525) | U | ug/l |
| MW38 | 347682 | 4/30/2002 | 14:45 | (2.2) | U | ppb |
| MW39 | 92459004 | 6/16/1999 | 10:15 | 1.32 | B | ug/l |
| MW39 | 349144 | 5/8/2002 | 15:20 | **114** | | ppb |
| MW4 | 88825 | 8/4/1988 | 0:00 | 0.004 | | mg/l |
| MW4 | 93479 | 10/19/1988 | 16:00 | (0.004) | U | mg/l |
| MW4 | 96945 | 1/11/1989 | 0:00 | (0.004) | U | mg/l |
| MW4 | 100600 | 4/20/1989 | 13:50 | 0.027 | | mg/l |
| MW4 | 104407 | 7/21/1989 | 0:00 | (0.004) | U | mg/l |
| MW4 | 108371 | 10/24/1989 | 15:30 | 0.005 | | mg/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (0.004) | U | mg/l |
| MW4 | 114948 | 4/4/1990 | 13:30 | (0.004) | U | mg/l |
| MW4 | 118816 | 7/10/1990 | 15:15 | (0.004) | U | mg/l |
| MW4 | 122717 | 10/4/1990 | 11:15 | (0.004) | U | mg/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | (0.004) | U | mg/l |
| MW4 | 129265 | 4/3/1991 | 16:00 | (0.004) | U | mg/l |
| MW4 | 134160 | 7/2/1991 | 14:30 | (0.004) | U | mg/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (0.004) | U | mg/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (0.004) | U | mg/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (0.004) | U | mg/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.525) | U | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (2.1) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (2.1) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (2.1) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (2.1) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (2.1) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | 3.3 | | ppb |
| MW5 | 88826 | 8/4/1988 | 0:00 | **19.7** | | mg/l |
| MW5 | 93480 | 10/19/1988 | 17:00 | (0.004) | U | mg/l |
| MW5 | 96946 | 1/11/1989 | 0:00 | (0.004) | U | mg/l |
| MW5 | 100601 | 4/20/1989 | 14:40 | (0.040) | U | mg/l |
| MW5 | 104408 | 7/21/1989 | 0:00 | (0.004) | U | mg/l |
| MW5 | 108059 | 10/18/1989 | 16:00 | (0.004) | U | mg/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | (0.004) | U | mg/l |
| MW5 | 114950 | 4/4/1990 | 16:20 | (0.004) | U | mg/l |
| MW5 | 118817 | 7/10/1990 | 11:45 | (1.000) | U | mg/l |
| MW5 | 122718 | 10/4/1990 | 15:00 | (0.004) | U | mg/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (0.004) | U | mg/l |
| MW5 | 129266 | 4/3/1991 | 17:20 | (0.004) | U | mg/l |
| MW5 | 134161 | 7/2/1991 | 17:00 | (0.004) | U | mg/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | (0.004) | U | mg/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | (0.004) | U | mg/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | 0.005 | | mg/l |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Lead was not detected at the reported MDL.

U indicates that Lead was not detected in excess of the (Method Detection Limit).

B indicates that Lead was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Lead exceeds the NJDEP Groundwater

**Summary of Groundwater Analytical Results**
**Lead**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|

Quality Criterion of 10 ug/l.

**Summary of Groundwater Analytical Results**
**Lead**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW6 | 149708 | 5/18/1992 | 12:00 | (0.004) | U | mg/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (0.004) | U | mg/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (0.004) | U | mg/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.525) | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | (0.004) | U | mg/l |
| RW11 | 349137 | 5/8/2002 | 0:00 | (2.2) | U | ppb |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.525) | U | ug/l |
| RW9 | 132821 | 6/10/1991 | 12:00 | (5) | U | mg/kg |
| TH36 | 349616 | 5/9/2002 | 13:55 | **51.4** | | ppb |
| X16 | 130652 | 4/26/1991 | 11:30 | (0.004) | U | mg/l |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Lead was not detected at the reported MDL.

U indicates that Lead was not detected in excess of the (Method Detection Limit).

B indicates that Lead was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Lead exceeds the NJDEP Groundwater Quality Criterion of 10 ug/l.

**Summary of Groundwater Analytical Results**
**Mercury**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 96942 | 1/11/1989 | 0:00 | (0.0005) | U | mg/l |
| MW1 | 111372 | 1/4/1990 | 13:00 | (0.0005) | U | mg/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | (0.0005) | U | mg/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (0.001) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (0.0005) | U | mg/l |
| MW2 | 96943 | 1/11/1989 | 0:00 | (0.0005) | U | mg/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | 0.0005 | | mg/l |
| MW2A | 111373 | 1/4/1990 | 13:45 | (0.0005) | U | mg/l |
| MW2A | 149608 | 5/14/1992 | 11:00 | (0.0005) | U | mg/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.200) | U | ug/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | (0.0005) | U | mg/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (0.0005) | U | mg/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (0.0005) | U | mg/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (0.001) | U | mg/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.200) | U | ug/l |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.200) | U | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.200) | U | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.200) | U | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.200) | U | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.200) | U | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.200) | U | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | (0.200) | U | ug/l |
| MW4 | 96945 | 1/11/1989 | 0:00 | (0.0005) | U | mg/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (0.0005) | U | mg/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | (0.0005) | U | mg/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (0.001) | U | mg/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.200) | U | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (0.1) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (0.1) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (0.1) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (0.1) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (0.1) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (0.1) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | (0.0005) | U | mg/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | (0.0005) | U | mg/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (0.0005) | U | mg/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | (0.001) | U | mg/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (0.001) | U | mg/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.200) | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | (0.005) | U | mg/l |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.200) | U | ug/l |
| RW9 | 132821 | 6/10/1991 | 12:00 | (0.1) | U | mg/kg |
| X16 | 130652 | 4/26/1991 | 11:30 | (0.0005) | U | mg/l |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Mercury was not detected at the reported MDL.

U indicates that Mercury was not detected in excess of the (Method Detection Limit).

B indicates that Mercury was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Mercury exceeds the NJDEP Groundwater Quality Criterion of 2 ug/l.

**Summary of Groundwater Analytical Results**
**Nickel**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| DSN-003L | 104368 | 7/20/1989 | 0:00 | (0.03) | U | mg/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | 2.28 | B | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | 2.28 | B | ug/l |
| MW33A | 92394002 | 6/11/1999 | 11:25 | 0.395 | B | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | 0.72 | B | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | 0.97 | B | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | 0.575 | B | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | 0.735 | B | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | 1.4 | B | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | 2.06 | B | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | 1.67 | B | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | 3.3 | | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (1.4) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | 2.8 | | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | 2.3 | | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | 1.7 | | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | 10.3 | | ppb |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.212) | U | ug/l |
| RW13 | 92394001 | 6/11/1999 | 10:40 | 0.52 | B | ug/l |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Nickel was not detected at the reporting MDL.

U indicates that Nickel was not detected in excess of the (Method Detection Limit).

B indicates that Nickel was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Nickel exceeds the NJDEP Groundwater Quality Criterion of 100 ug/l.

**Summary of Groundwater Analytical Results**
**Selenium**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 96942 | 1/11/1989 | 0:00 | (0.003) | U | mg/l |
| MW1 | 111372 | 1/4/1990 | 13:00 | (0.004) | U | mg/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | (0.004) | U | mg/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (0.004) | U | ug/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (0.004) | U | mg/l |
| MW2 | 96943 | 1/11/1989 | 0:00 | (0.003) | U | mg/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | (0.004) | U | mg/l |
| MW2A | 111373 | 1/4/1990 | 13:45 | (0.004) | U | mg/l |
| MW2A | 149608 | 5/14/1992 | 11:00 | (0.004) | U | mg/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (1.560) | U | ug/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | (0.003) | U | mg/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (0.004) | U | mg/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (0.004) | U | mg/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (0.004) | U | mg/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (1.560) | U | ug/l |
| MW33A | 92394002 | 6/11/1999 | 11:25 | 2.21 | B | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | 2.3 | B | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | 1.89 | B | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (1.560) | U | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (1.560) | U | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (1.560) | U | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | 2.31 | B | ug/l |
| MW4 | 96945 | 1/11/1989 | 0:00 | (0.003) | U | mg/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (0.004) | U | mg/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | (0.004) | U | mg/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (0.004) | U | mg/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (1.560) | U | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (4.5) | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (4.5) | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (4.5) | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (4.5) | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (4.5) | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (4.5) | U | ppb |
| MW5 | 96946 | 1/11/1989 | 0:00 | (0.003) | U | mg/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | (0.004) | U | mg/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (0.004) | U | mg/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | (0.004) | U | mg/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (0.004) | U | mg/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (1.560) | U | ug/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | (0.004) | U | mg/l |
| RW13 | 92394001 | 6/11/1999 | 10:40 | 4.03 | | ug/l |
| RW9 | 132821 | 6/10/1991 | 12:00 | (0.4) | U | mg/kg |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Selenium was not detected at the reported MDL.

U indicates that Selenium was not detected in excess of the (Method Detection Limit).

B indicates that Selenium was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Selenium exceeds the NJDEP Groundwater Quality Criterion of 50 ug/l.

**Summary of Groundwater Analytical Results**
**Thallium**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.880) | 0.44 | U | ug/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.880) | 0.44 | U | ug/l |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.880) | 0.44 | U | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | 2.07 | 2.07 | B | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | 0.97 | 0.97 | B | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | 1.59 | 1.59 | B | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | 1.3 | 1.3 | B | ug/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | 1.7 | 1.7 | B | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | (0.880) | 0.44 | U | ug/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | 1.23 | 1.23 | B | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | (4.1) | 2.05 | U | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | (4.1) | 2.05 | U | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | (4.1) | 2.05 | U | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | (4.1) | 2.05 | U | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | (4.1) | 2.05 | U | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | (4.1) | 2.05 | U | ppb |
| MW6 | 92343002 | 6/9/1999 | 9:46 | 1.22 | 1.22 | B | ug/l |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.880) | 0.44 | U | ug/l |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in pathenthesis indicate that Thallium was not detected at the reported MDL.

U indicates that Thallium was not detected in excess of the (Method Detection Limit).

B indicates that Thallium was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Thallium exceeds the NJDEP Groundwater Quality Criterion of 10 ug/l.

**Summary of Groundwater Analytical Results**
**Zinc**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 96942 | 1/11/1989 | 0:00 | (0.02) | U | mg/l |
| MW1 | 100597 | 4/20/1989 | 9:35 | (0.200) | U | mg/l |
| MW1 | 104366 | 7/20/1989 | 0:00 | 0.027 | | mg/l |
| MW1 | 108058 | 10/18/1989 | 14:00 | 0.029 | | mg/l |
| MW1 | 93476 | 10/19/1989 | 13:00 | (0.02) | U | mg/l |
| MW1 | 111372 | 1/4/1990 | 13:00 | 0.028 | | mg/l |
| MW1 | 114946 | 4/4/1990 | 10:00 | 0.021 | | mg/l |
| MW1 | 118813 | 7/10/1990 | 9:15 | 0.029 | | mg/l |
| MW1 | 122714 | 10/4/1990 | 16:00 | 0.021 | | mg/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | 0.026 | | mg/l |
| MW1 | 129262 | 4/3/1991 | 11:20 | 0.033 | | mg/l |
| MW1 | 134157 | 7/2/1991 | 8:00 | 0.048 | | mg/l |
| MW2 | 93477 | 10/19/1988 | 14:00 | (0.021) | U | mg/l |
| MW2 | 96943 | 1/11/1989 | 0:00 | 0.065 | | mg/l |
| MW2 | 100598 | 4/20/1989 | 10:30 | (0.200) | U | mg/l |
| MW2 | 114947 | 4/4/1990 | 11:20 | (0.02) | U | mg/l |
| MW2 | 118814 | 7/10/1990 | 10:30 | 0.028 | | mg/l |
| MW2 | 122715 | 10/4/1990 | 14:00 | 0.022 | | mg/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | 0.024 | | mg/l |
| MW2A | 111373 | 1/4/1990 | 13:45 | (0.02) | U | mg/l |
| MW2A | 129263 | 4/3/1991 | 14:00 | 0.029 | | mg/l |
| MW2A | 134158 | 7/2/1991 | 9:00 | 0.02 | | mg/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | 15.9 | | ug/l |
| MW3 | 93478 | 10/19/1988 | 15:00 | 0.066 | | mg/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | (0.02) | U | mg/l |
| MW3 | 100599 | 4/20/1989 | 13:00 | 0.071 | | mg/l |
| MW3 | 104406 | 7/21/1989 | 0:00 | 0.029 | | mg/l |
| MW3 | 108370 | 10/24/1989 | 14:00 | 0.048 | | mg/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | 0.072 | | mg/l |
| MW3 | 114947 | 4/4/1990 | 11:20 | 0.059 | | mg/l |
| MW3 | 118815 | 7/10/1990 | 14:10 | 0.046 | | mg/l |
| MW3 | 122716 | 10/4/1990 | 9:30 | 0.044 | | mg/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | 0.029 | | mg/l |
| MW3 | 129264 | 4/3/1991 | 14:50 | 0.216 | | mg/l |
| MW3 | 134159 | 7/2/1991 | 16:00 | 0.081 | | mg/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | 15.9 | | ug/l |
| MW33A | 92394002 | 6/11/1999 | 11:25 | 22.2 | | ug/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | 12.2 | B | ug/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | 73.7 | | ug/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | 9.54 | B | ug/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | 9.26 | B | ug/l |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Zinc was not detected at the reported MDL.

U indicates that Zinc was not detected in excess of the (Method Detection Limit).

B indicates that Zinc was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Zinc exceeds the NJDEP Groundwater Quality Criterion of 5000 ug/l.

**Summary of Groundwater Analytical Results**
**Zinc**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW38 | 92459003 | 6/16/1999 | 12:40 | 12.5 | B | ug/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | 19.8 | | ug/l |
| MW4 | 93479 | 10/19/1988 | 16:00 | 0.053 | | mg/l |
| MW4 | 96945 | 1/11/1989 | 0:00 | (0.02) | U | mg/l |
| MW4 | 100600 | 4/20/1989 | 13:50 | 1.81 | | mg/l |
| MW4 | 104407 | 7/21/1989 | 0:00 | 0.044 | | mg/l |
| MW4 | 108371 | 10/24/1989 | 15:30 | 0.058 | | mg/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | 0.061 | | mg/l |
| MW4 | 114948 | 4/4/1990 | 13:30 | 0.082 | | mg/l |
| MW4 | 118816 | 7/10/1990 | 15:15 | 0.05 | | mg/l |
| MW4 | 122717 | 10/4/1990 | 11:15 | 0.045 | | mg/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | 0.086 | | mg/l |
| MW4 | 129265 | 4/3/1991 | 16:00 | 0.135 | | mg/l |
| MW4 | 134160 | 7/2/1991 | 14:30 | 0.185 | | mg/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | 10.2 | B | ug/l |
| MW-40 | 201708 | 5/2/2000 | 12:00 | 8.5 | | ppb |
| MW-41 | 201709 | 5/2/2000 | 12:00 | 6.1 | | ppb |
| MW-42 | 201710 | 5/2/2000 | 12:00 | 7.3 | | ppb |
| MW-43A | 201711 | 5/2/2000 | 12:00 | 15.1 | | ppb |
| MW-44 | 201712 | 5/2/2000 | 12:00 | 13.1 | | ppb |
| MW-45 | 201713 | 5/2/2000 | 12:00 | 23.3 | | ppb |
| MW5 | 93480 | 10/19/1988 | 17:00 | (0.02) | U | mg/l |
| MW5 | 96946 | 1/11/1989 | 0:00 | (0.02) | U | mg/l |
| MW5 | 100601 | 4/20/1989 | 14:40 | (0.040) | U | mg/l |
| MW5 | 104408 | 7/21/1989 | 0:00 | 0.038 | | mg/l |
| MW5 | 108059 | 10/18/1989 | 16:00 | 0.043 | | mg/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | 0.029 | | mg/l |
| MW5 | 114950 | 4/4/1990 | 16:20 | 0.034 | | mg/l |
| MW5 | 118817 | 7/10/1990 | 11:45 | 0.036 | | mg/l |
| MW5 | 122718 | 10/4/1990 | 15:00 | 0.039 | | mg/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | 0.041 | | mg/l |
| MW5 | 129266 | 4/3/1991 | 17:20 | 0.1 | | mg/l |
| MW5 | 134161 | 7/2/1991 | 17:00 | 0.077 | | mg/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | 12.5 | B | ug/l |
| RW13 | 92394001 | 6/11/1999 | 10:40 | 14.9 | B | ug/l |

**NOTES:**

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that Zinc was not detected at the reported MDL.

U indicates that Zinc was not detected in excess of the (Method Detection Limit).

B indicates that Zinc was detected below the MDL but greater than the Instrument Detection Limit.

**BOLD** indicates that the reported concentration of Zinc exceeds the NJDEP Groundwater Quality Criterion of 5000 ug/l.

**Summary of Groundwater Analytical Results**
**Total Petroleum Hydrocarbons**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW1 | 141868 | 11/27/1991 | 16:45 | (0.68) | 0.34 | U | mg/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | (0.63) | 0.315 | U | ug/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (0.63) | 0.315 | U | ug/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (0.61) | 0.305 | U | mg/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (0.60) | 0.3 | U | mg/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | (0.58) | 0.29 | U | mg/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | (0.59) | 0.295 | U | mg/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | (0.63) | 0.315 | U | mg/l |
| MW1 | 177491 | 11/9/1993 | 10:35 | (0.61) | 0.305 | U | mg/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | 0.73 | 0.73 | | mg/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (0.60) | 0.3 | U | mg/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | 2.20 | 2.2 | | mg/l |
| MW1 | 200162 | 11/8/1994 | 10:10 | (0.57) | 0.285 | U | mg/l |
| MW1 | L5-02-041-01 | 2/9/1995 | 11:45 | (1.00) | 0.5 | U | mg/l |
| MW1 | 90080001 | 1/8/1999 | 9:10 | (0.50) | 0.25 | U | mg/l |
| MW13 | 90165001 | 1/15/1999 | 11:20 | 0.60 | 0.6 | | mg/l |
| MW15 | 90206003 | 1/19/1999 | 13:20 | (0.50) | 0.25 | U | mg/l |
| MW16 | 90113002 | 1/12/1999 | 10:00 | (0.50) | 0.25 | U | mg/l |
| MW17 | 90297002 | 1/22/1999 | 13:50 | (0.50) | 0.25 | U | mg/l |
| MW18 | 90297001 | 1/22/1999 | 11:20 | 0.50 | 0.5 | | mg/l |
| MW19 | 90165002 | 1/15/1999 | 13:30 | 0.50 | 0.5 | | mg/l |
| MW2A | 141781 | 11/26/1991 | 15:00 | 1.10 | 1.1 | | mg/l |
| MW2A | 146085 | 2/26/1992 | 11:30 | 1.50 | 1.5 | | mg/l |
| MW2A | 149608 | 5/14/1992 | 11:00 | 1.80 | 1.8 | | mg/l |
| MW2A | 152922 | 8/4/1992 | 10:50 | 1.60 | 1.6 | | mg/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | (0.60) | 0.3 | U | mg/l |
| MW2A | 162142 | 2/15/1993 | 14:40 | (0.63) | 0.315 | U | mg/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | (0.57) | 0.285 | U | mg/l |
| MW2A | 172093 | 8/10/1993 | 15:30 | 0.61 | 0.61 | | mg/l |
| MW2A | 177492 | 11/9/1993 | 11:10 | 0.62 | 0.62 | | mg/l |
| MW2A | 182205 | 2/9/1994 | 15:00 | (0.56) | 0.28 | U | mg/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (0.59) | 0.295 | U | mg/l |
| MW2A | 193949 | 8/9/1994 | 11:20 | 0.85 | 0.85 | | mg/l |
| MW2A | 200163 | 11/8/1994 | 10:35 | (0.58) | 0.29 | U | mg/l |
| MW2A | L5-02-041-02 | 2/9/1995 | 15:00 | (1.00) | 0.5 | U | mg/l |
| MW2 | 90080002 | 1/8/1999 | 9:34 | (0.50) | 0.25 | U | mg/l |
| MW2A | 92343003 | 6/9/1999 | 11:46 | (0.50) | 0.25 | U | mg/l |
| MW20 | 90321001 | 1/26/1999 | 9:47 | 0.80 | 0.8 | | mg/l |
| MW24 | 90080006 | 1/8/1999 | 14:00 | (0.50) | 0.25 | U | mg/l |
| MW25 | 159104 | 12/8/1992 | 15:10 | 110.00 | 110 | | mg/l |
| MW25 | 162024 | 2/10/1993 | 11:00 | 3.50 | 3.5 | | mg/l |
| MW25 | 90321003 | 1/26/1999 | 13:35 | (0.50) | 0.25 | U | mg/l |
| MW26 | 159105 | 12/8/1992 | 11:35 | 260.00 | 260 | | mg/l |
| MW26 | 162025 | 2/10/1993 | 13:15 | 79.00 | 79 | | mg/l |
| MW27 | 90206004 | 1/19/1999 | 13:55 | (0.60) | 0.3 | U | mg/l |
| MW29 | 90321002 | 1/26/1999 | 10:20 | (0.50) | 0.25 | U | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that TPHC was not detected at the reported MDL.

U indicates that TPHC was not detected above the MDL.

J indicates that TPHC was detected below MDL and is estimated.

**BOLD** indicates excedence of TPHC

**Summary of Groundwater Analytical Results**
**Total Petroleum Hydrocarbons**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW3 | 141865 | 11/27/1991 | 10:00 | (0.70) | 0.35 | U | mg/l |
| MW3 | 146202 | 2/27/1992 | 11:45 | 1.30 | 1.3 | | mg/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | 1.70 | 1.7 | | mg/l |
| MW3 | 152923 | 8/4/1992 | 14:15 | (0.60) | 0.3 | U | mg/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | (0.59) | 0.295 | U | mg/l |
| MW3 | 162143 | 2/15/1993 | 14:00 | (0.60) | 0.3 | U | mg/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | (0.58) | 0.29 | U | mg/l |
| MW3 | 172094 | 8/10/1993 | 16:00 | (0.61) | 0.305 | U | mg/l |
| MW3 | 177493 | 11/9/1993 | 2:40 | (0.56) | 0.28 | U | mg/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (0.56) | 0.28 | U | mg/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (0.60) | 0.3 | U | mg/l |
| MW3 | 193950 | 8/9/1994 | 13:30 | (0.61) | 0.305 | U | mg/l |
| MW3 | 200164 | 11/8/1994 | 11:20 | (0.57) | 0.285 | U | mg/l |
| MW3 | L5-02-041-03 | 2/9/1995 | 15:40 | (1.00) | 0.5 | U | mg/l |
| MW3 | 90080003 | 1/8/1999 | 10:35 | (0.50) | 0.25 | U | mg/l |
| MW3 | 92343004 | 6/9/1999 | 13:20 | (0.50) | 0.25 | U | mg/l |
| MW30 | 90297003 | 1/22/1999 | 14:15 | (0.50) | 0.25 | U | mg/l |
| MW31 | 90113001 | 1/12/1999 | 7:45 | (0.50) | 0.25 | U | mg/l |
| MW32 | 90113004 | 1/12/1999 | 14:40 | (0.50) | 0.25 | U | mg/l |
| MW33A | 92394002 | 6/11/1999 | 11:25 | (0.50) | 0.25 | U | mg/l |
| MW34 | 92394003 | 6/11/1999 | 12:10 | (0.50) | 0.25 | U | mg/l |
| MW35 | 92394004 | 6/11/1999 | 9:45 | (0.50) | 0.25 | U | mg/l |
| MW36 | 92459001 | 6/16/1999 | 12:05 | (0.50) | 0.25 | U | mg/l |
| MW37 | 92459002 | 6/16/1999 | 23:20 | (0.50) | 0.25 | U | mg/l |
| MW38 | 92459003 | 6/16/1999 | 12:40 | (0.50) | 0.25 | u | mg/l |
| MW39 | 92459004 | 6/16/1999 | 10:15 | (0.50) | 0.25 | u | mg/l |
| MW4 | 141866 | 11/27/1991 | 11:45 | (0.70) | 0.35 | U | mg/l |
| MW4 | 146201 | 2/27/1992 | 10:30 | (0.63) | 0.315 | U | mg/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (0.60) | 0.3 | U | mg/l |
| MW4 | 152981 | 8/5/1992 | 11:15 | (0.62) | 0.31 | U | mg/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | (0.56) | 0.28 | U | mg/l |
| MW4 | 162203 | 2/17/1993 | 8:50 | (0.62) | 0.31 | U | mg/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (0.60) | 0.3 | U | mg/l |
| MW4 | 172095 | 8/10/1993 | 16:30 | (0.58) | 0.29 | U | mg/l |
| MW4Dup | 172096 | 8/10/1993 | 0:00 | (0.59) | 0.295 | U | mg/l |
| MW4 | 177494 | 11/9/1993 | 3:00 | (0.56) | 0.28 | U | mg/l |
| MW4 | 182269 | 2/10/1994 | 14:05 | (0.56) | 0.28 | U | mg/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (0.60) | 0.3 | U | mg/l |
| MW4 | 193951 | 8/9/1994 | 14:30 | (0.63) | 0.315 | U | mg/l |
| MW4 | 200165 | 11/8/1994 | 13:45 | (0.57) | 0.285 | U | mg/l |
| MW4 | L5-02-041-04 | 2/9/1995 | 16:10 | (1.00) | 0.5 | U | mg/l |
| MW4 | 90080004 | 1/8/1999 | 11:20 | (0.50) | 0.25 | U | mg/l |
| MW4 | 92343005 | 6/9/1999 | 13:50 | (0.50) | 0.25 | U | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that TPHC was not detected at the reported MDL.

U indicates that TPHC was not detected above the MDL.

J indicates that TPHC was detected below MDL and is estimated.

**BOLD** indicates excedence of TPHC

**Summary of Groundwater Analytical Results**
**Total Petroleum Hydrocarbons**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW5 | 141867 | 11/27/1991 | 14:45 | 88.00 | 88 | | mg/l |
| MW5 | 143587 | 1/2/1992 | 11:00 | 2.70 | 2.7 | | mg/l |
| MW5 | 146264 | 2/28/1992 | 11:45 | 23.00 | 23 | | mg/l |
| MW5 | 153109 | 8/7/1992 | 10:45 | 5.80 | 5.8 | | mg/l |
| MW5 | 157931 | 11/13/1992 | 14:55 | 140.00 | 140 | | mg/l |
| MW5 | 162026 | 2/10/1993 | 15:25 | 120.00 | 120 | | mg/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | 1000.00 | 1000 | | mg/l |
| MW5 | 172232 | 8/12/1993 | 3:40 | 340.00 | 340 | | mg/l |
| MW5 | 177817 | 11/12/1993 | 2:15 | 6800.00 | 6800 | | mg/l |
| MW5 | 182704 | 2/24/1994 | 12:35 | 6900.00 | 6900 | | mg/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | 50.00 | 50 | | mg/l |
| MW5 | 194290 | 8/12/1994 | 14:00 | 95.00 | 95 | | mg/l |
| MW6 | 141780 | 11/26/1991 | 9:30 | (0.71) | 0.355 | U | mg/l |
| MW6 | 146086 | 2/26/1992 | 14:00 | (0.63) | 0.315 | U | mg/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (0.61) | 0.305 | U | mg/l |
| MW6 | 152980 | 8/5/1992 | 8:30 | (0.61) | 0.305 | U | mg/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | (0.60) | 0.3 | U | mg/l |
| MW6 | 162204 | 2/17/1993 | 11:00 | (0.60) | 0.3 | U | mg/l |
| MW6Dup | 162206 | 2/17/1993 | 0:00 | (0.60) | 0.3 | U | mg/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (0.60) | 0.3 | U | mg/l |
| MW6 | 172229 | 8/12/1993 | 11:15 | (0.61) | 0.305 | U | mg/l |
| MW6 | 177818 | 11/12/1993 | 10:45 | (0.62) | 0.31 | U | mg/l |
| MW6 | 182270 | 2/10/1994 | 14:40 | (0.56) | 0.28 | U | mg/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (0.57) | 0.285 | U | mg/l |
| MW6 | 194023 | 8/10/1994 | 10:50 | 0.72 | 0.72 | | mg/l |
| MW6 | 200166 | 11/8/1994 | 14:25 | (0.56) | 0.28 | U | mg/l |
| MW6 | L5-02-041-05 | 2/9/1995 | 16:45 | (1.00) | 0.5 | U | mg/l |
| MW6 | 90080005 | 1/8/1999 | 13:20 | (0.50) | 0.25 | U | mg/l |
| MW6 | 92343002 | 6/9/1999 | 9:46 | (0.50) | 0.25 | U | mg/l |
| RW1 | 105947 | 8/23/1989 | 0:00 | (0.81) | 0.405 | U | ug/l |
| RW10 | 90206001 | 1/19/1999 | 11:30 | (0.60) | 0.3 | U | mg/l |
| RW11 | 90321004 | 1/26/1999 | 14:44 | (0.60) | 0.3 | U | mg/l |
| RW13 | 90206002 | 1/19/1999 | 12:45 | 1.40 | 1.4 | | mg/l |
| RW13 | 92394001 | 6/11/1999 | 10:40 | (0.50) | 0.25 | U | mg/l |
| RW2 | 105948 | 8/23/1989 | 0:00 | 6.40 | 6.4 | | ug/l |
| RW5 | 105949 | 8/23/1989 | 0:00 | 1.00 | 1 | | ug/l |
| RW6 | 105950 | 8/23/1989 | 0:00 | (0.80) | 0.4 | U | ug/l |
| TH36 | 90113003 | 1/12/1999 | 11:48 | (0.50) | 0.25 | U | mg/l |
| X16 | 130652 | 4/26/1991 | 11:30 | 14.00 | 14 | | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

ug/l = micrograms per liter (parts per billion)

Results in parenthesis indicate that TPHC was not detected at the reported MDL.

U indicates that TPHC was not detected above the MDL.

J indicates that TPHC was detected below MDL and is estimated.

**BOLD** indicates excedence of TPHC

**Summary of Groundwater Analytical Results**
**5-Day Biochemical Oxygen Demand**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| DSN-003L | 104368 | 7/20/1989 | 0:00 | (3.00) | 1.5 | U | mg/l |
| MW1 | 88573 | 8/3/1988 | 0:00 | (3.00) | 1.5 | U | mg/l |
| MW1 | 96942 | 1/11/1989 | 0:00 | (3.00) | 1.5 | U | mg/l |
| MW1 | 100597 | 4/20/1989 | 9:35 | (3.00) | 1.5 | U | mg/l |
| MW1 | 104366 | 7/20/1989 | 0:00 | (3.00) | 1.5 | U | mg/l |
| MW1 | 108058 | 10/18/1989 | 14:00 | (3.00) | 1.5 | U | mg/l |
| MW1 | 93476 | 10/19/1989 | 13:00 | (3.00) | 1.5 | U | mg/l |
| MW1 | 111372 | 1/4/1990 | 13:00 | (3.00) | 1.5 | U | mg/l |
| MW1 | 114946 | 4/4/1990 | 10:00 | (2.00) | 1.0 | U | mg/l |
| MW1 | 118813 | 7/10/1990 | 9:15 | (2.00) | 1.0 | U | mg/l |
| MW1 | 122714 | 10/4/1990 | 16:00 | (2.00) | 1.0 | U | mg/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | (2.00) | 1.0 | U | mg/l |
| MW1 | 129262 | 4/3/1991 | 11:20 | 3.00 | 3.0 | | mg/l |
| MW1 | 134157 | 7/2/1991 | 8:00 | (2.00) | 1.0 | U | mg/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | (2.00) | 1.0 | U | mg/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (2.00) | 1.0 | U | mg/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (2.00) | 1.0 | U | mg/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (2.00) | 1.0 | U | mg/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | (2.00) | 1.0 | U | mg/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | 7.00 | 7.0 | | mg/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | (2.00) | 1.0 | U | mg/l |
| MW1 | 177491 | 11/9/1993 | 10:35 | (2.00) | 1.0 | U | mg/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | (2.00) | 1.0 | U | mg/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (2.00) | 1.0 | U | mg/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | (2.00) | 1.0 | U | mg/l |
| MW1 | 200162 | 11/8/1994 | 10:10 | (2.00) | 1.0 | U | mg/l |
| MW1 | L5-02-041-01 | 2/9/1995 | 11:45 | 2.40 | 2.4 | | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that BOD was not detected at the reported MDL.

U indicates that BOD was not detected above the MDL.

J indicates that BOD was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**5-Day Biochemical Oxygen Demand**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW2 | 88574 | 8/3/1988 | 0:00 | (3.00) | 1.5 | U | mg/l |
| MW2 | 93477 | 10/19/1988 | 14:00 | (3.00) | 1.5 | U | mg/l |
| MW2 | 96943 | 1/11/1989 | 0:00 | (3.00) | 1.5 | U | mg/l |
| MW2 | 100598 | 4/20/1989 | 10:30 | (3.00) | 1.5 | U | mg/l |
| MW2A | 111373 | 1/4/1990 | 13:45 | 11.00 | 11.0 | | mg/l |
| MW2 | 114947 | 4/4/1990 | 11:20 | 5.00 | 5.0 | | mg/l |
| MW2 | 118814 | 7/10/1990 | 10:30 | (2.00) | 1.0 | U | mg/l |
| MW2 | 122715 | 10/4/1990 | 14:00 | 2.00 | 2.0 | | mg/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | 5.00 | 5.0 | | mg/l |
| MW2A | 129263 | 4/3/1991 | 14:00 | 3.00 | 3.0 | | mg/l |
| MW2A | 134158 | 7/2/1991 | 9:00 | (2.00) | 1.0 | U | mg/l |
| MW2A | 141781 | 11/26/1991 | 15:00 | (2.00) | 1.0 | U | mg/l |
| MW2A | 146085 | 2/26/1992 | 11:30 | (2.00) | 1.0 | U | mg/l |
| MW2A | 149608 | 5/14/1992 | 11:00 | 5.00 | 5.0 | | mg/l |
| MW2A | 152922 | 8/4/1992 | 10:50 | (2.00) | 1.0 | U | mg/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | 6.00 | 6.0 | | mg/l |
| MW2A | 162142 | 2/15/1993 | 14:40 | (2.00) | 1.0 | U | mg/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | (2.00) | 1.0 | U | mg/l |
| MW2A | 172093 | 8/10/1993 | 15:30 | (2.00) | 1.0 | U | mg/l |
| MW2A | 177492 | 11/9/1993 | 11:10 | (2.00) | 1.0 | U | mg/l |
| MW2A | 182205 | 2/9/1994 | 15:00 | (2.00) | 1.0 | U | mg/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (2.00) | 1.0 | U | mg/l |
| MW2A | 193949 | 8/9/1994 | 11:20 | (2.00) | 1.0 | U | mg/l |
| MW2A | 200163 | 11/8/1994 | 10:35 | (2.00) | 1.0 | U | mg/l |
| MW2A | L5-02-041-02 | 2/9/1995 | 15:00 | (2.00) | 1.0 | U | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that BOD was not detected at the reported MDL.

U indicates that BOD was not detected above the MDL.

J indicates that BOD was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**5-Day Biochemical Oxygen Demand**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW3 | 88824 | 8/4/1988 | 0:00 | (3.00) | 1.5 | U | mg/l |
| MW3 | 93478 | 10/19/1988 | 15:00 | (3.00) | 1.5 | U | mg/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | (3.00) | 1.5 | U | mg/l |
| MW3 | 100599 | 4/20/1989 | 13:00 | (3.00) | 1.5 | U | mg/l |
| MW3 | 104406 | 7/21/1989 | 0:00 | (3.00) | 1.5 | U | mg/l |
| MW3 | 108370 | 10/24/1989 | 14:00 | (3.00) | 1.5 | U | mg/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | (3.00) | 1.5 | U | mg/l |
| MW3 | 114947 | 4/4/1990 | 11:20 | (2.00) | 1.0 | U | mg/l |
| MW3 | 118815 | 7/10/1990 | 14:10 | (2.00) | 1.0 | U | mg/l |
| MW3 | 122716 | 10/4/1990 | 9:30 | (2.00) | 1.0 | U | mg/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | (2.00) | 1.0 | U | mg/l |
| MW3 | 129264 | 4/3/1991 | 14:50 | 3.00 | 3.0 | | mg/l |
| MW3 | 134159 | 7/2/1991 | 16:00 | (2.00) | 1.0 | U | mg/l |
| MW3 | 141865 | 11/27/1991 | 10:00 | (2.00) | 1.0 | U | mg/l |
| MW3 | 146202 | 2/27/1992 | 11:45 | (2.00) | 1.0 | U | mg/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (2.00) | 1.0 | U | mg/l |
| MW3 | 152923 | 8/4/1992 | 14:15 | (2.00) | 1.0 | U | mg/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | 17.00 | 17.0 | | mg/l |
| MW3 | 162143 | 2/15/1993 | 14:00 | (2.00) | 1.0 | U | mg/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | (2.00) | 1.0 | U | mg/l |
| MW3 | 172094 | 8/10/1993 | 16:00 | (2.00) | 1.0 | U | mg/l |
| MW3 | 177493 | 11/9/1993 | 2:40 | (2.00) | 1.0 | U | mg/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (2.00) | 1.0 | U | mg/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (2.00) | 1.0 | U | mg/l |
| MW3 | 193950 | 8/9/1994 | 13:30 | (2.00) | 1.0 | U | mg/l |
| MW3 | 200164 | 11/8/1994 | 11:20 | (2.00) | 1.0 | U | mg/l |
| MW3 | L5-02-041-03 | 2/9/1995 | 15:40 | (2.00) | 1.0 | U | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that BOD was not detected at the reported MDL.

U indicates that BOD was not detected above the MDL.

J indicates that BOD was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**5-Day Biochemical Oxygen Demand**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW4 | 88825 | 8/4/1988 | 0:00 | (3.00) | 1.5 | U | mg/l |
| MW4 | 93479 | 10/19/1988 | 16:00 | (3.00) | 1.5 | U | mg/l |
| MW4 | 96945 | 1/11/1989 | 0:00 | (3.00) | 1.5 | U | mg/l |
| MW4 | 100600 | 4/20/1989 | 13:50 | (3.00) | 1.5 | U | mg/l |
| MW4 | 104407 | 7/21/1989 | 0:00 | (3.00) | 1.5 | U | mg/l |
| MW4 | 108371 | 10/24/1989 | 15:30 | (3.00) | 1.5 | U | mg/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | (3.00) | 1.5 | U | mg/l |
| MW4 | 114948 | 4/4/1990 | 13:30 | (2.00) | 1.0 | U | mg/l |
| MW4 | 118816 | 7/10/1990 | 15:15 | 3.00 | 3.0 | | mg/l |
| MW4 | 122717 | 10/4/1990 | 11:15 | (2.00) | 1.0 | U | mg/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | 8.00 | 8.0 | | mg/l |
| MW4 | 129265 | 4/3/1991 | 16:00 | 6.00 | 6.0 | | mg/l |
| MW4 | 134160 | 7/2/1991 | 14:30 | (2.00) | 1.0 | U | mg/l |
| MW4 | 141866 | 11/27/1991 | 11:45 | (2.00) | 1.0 | U | mg/l |
| MW4 | 146201 | 2/27/1992 | 10:30 | (2.00) | 1.0 | U | mg/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | (2.00) | 1.0 | U | mg/l |
| MW4 | 152981 | 8/5/1992 | 11:15 | (2.00) | 1.0 | U | mg/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | 31.00 | 31.0 | | mg/l |
| MW4 | 162203 | 2/17/1993 | 8:50 | (2.00) | 1.0 | U | mg/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | (2.00) | 1.0 | U | mg/l |
| MW4 | 172095 | 8/10/1993 | 16:30 | (2.00) | 1.0 | U | mg/l |
| MW4Dup | 172096 | 8/10/1993 | 0:00 | (2.00) | 1.0 | U | mg/l |
| MW4 | 177494 | 11/9/1993 | 3:00 | (2.00) | 1.0 | U | mg/l |
| MW4 | 182269 | 2/10/1994 | 14:05 | (2.00) | 1.0 | U | mg/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | (2.00) | 1.0 | U | mg/l |
| MW4 | 193951 | 8/9/1994 | 14:30 | (2.00) | 1.0 | U | mg/l |
| MW4 | 200165 | 11/8/1994 | 13:45 | (2.00) | 1.0 | U | mg/l |
| MW4 | L5-02-041-04 | 2/9/1995 | 16:10 | (2.00) | 1.0 | U | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that BOD was not detected at the reported MDL.

U indicates that BOD was not detected above the MDL.

J indicates that BOD was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**5-Day Biochemical Oxygen Demand**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW5 | 88826 | 8/4/1988 | 0:00 | (3.00) | 1.5 | U | mg/l |
| MW5 | 93480 | 10/19/1988 | 17:00 | (3.00) | 1.5 | U | mg/l |
| MW5 | 96946 | 1/11/1989 | 0:00 | 8.00 | 8.0 | | mg/l |
| MW5 | 100601 | 4/20/1989 | 14:40 | 4.00 | 4.0 | | mg/l |
| MW5 | 104408 | 7/21/1989 | 0:00 | (3.00) | 1.5 | U | mg/l |
| MW5 | 108059 | 10/18/1989 | 16:00 | (3.00) | 1.5 | U | mg/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | 10.00 | 10.0 | | mg/l |
| MW5 | 114950 | 4/4/1990 | 16:20 | 7.00 | 7.0 | | mg/l |
| MW5 | 118817 | 7/10/1990 | 11:45 | 5.00 | 5.0 | | mg/l |
| MW5 | 122718 | 10/4/1990 | 15:00 | (2.00) | 1.0 | U | mg/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | (2.00) | 1.0 | U | mg/l |
| MW5 | 129266 | 4/3/1991 | 17:20 | 5.00 | 5.0 | | mg/l |
| MW5 | 134161 | 7/2/1991 | 17:00 | (2.00) | 1.0 | U | mg/l |
| MW5 | 141867 | 11/27/1991 | 14:45 | (2.00) | 1.0 | U | mg/l |
| MW5 | 146264 | 2/28/1992 | 11:45 | 18.00 | 18.0 | | mg/l |
| MW5 RE | 150811 | 6/16/1992 | 14:45 | 4.00 | 4.0 | | mg/l |
| MW5 | 153109 | 8/7/1992 | 10:45 | 7.00 | 7.0 | | mg/l |
| MW5 | 157931 | 11/13/1992 | 14:55 | 9.00 | 9.0 | | mg/l |
| MW5 | 162026 | 2/10/1993 | 15:25 | 48.00 | 48.0 | | mg/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | 160.00 | 160.0 | | mg/l |
| MW5 | 172232 | 8/12/1993 | 3:40 | 44.00 | 44.0 | | mg/l |
| MW5 | 177817 | 11/12/1993 | 2:15 | (0.50) | 0.3 | U | mg/l |
| MW5 | 182704 | 2/24/1994 | 12:35 | 153.00 | 153.0 | | mg/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | 14.00 | 14.0 | | mg/l |
| MW5 | 194290 | 8/12/1994 | 14:00 | 99.00 | 99.0 | | mg/l |
| MW6 | 141780 | 11/26/1991 | 9:30 | (2.00) | 1.0 | U | mg/l |
| MW6 | 146086 | 2/26/1992 | 14:00 | (2.00) | 1.0 | U | mg/l |
| MW6 | 150756 | 6/15/1992 | 13:10 | (2.00) | 1.0 | U | mg/l |
| MW6 | 152980 | 8/5/1992 | 8:30 | (2.00) | 1.0 | U | mg/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | 16.00 | 16.0 | | mg/l |
| MW6 | 162204 | 2/17/1993 | 11:00 | (2.00) | 1.0 | U | mg/l |
| MW6Dup | 162206 | 2/17/1993 | 0:00 | (2.00) | 1.0 | U | mg/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | (2.00) | 1.0 | U | mg/l |
| MW6 | 172229 | 8/12/1993 | 11:15 | (2.00) | 1.0 | U | mg/l |
| MW6 | 177818 | 11/12/1993 | 10:45 | 4.91 | 4.9 | | mg/l |
| MW6 | 182270 | 2/10/1994 | 14:40 | (2.00) | 1.0 | U | mg/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | (2.00) | 1.0 | U | mg/l |
| MW6 | 194023 | 8/10/1994 | 10:50 | (2.00) | 1.0 | U | mg/l |
| MW6 | 200166 | 11/8/1994 | 14:25 | (2.00) | 1.0 | U | mg/l |
| MW6 | L5-02-041-05 | 2/9/1995 | 16:45 | (2.00) | 1.0 | U | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that BOD was not detected at the reported MDL.

U indicates that BOD was not detected above the MDL.

J indicates that BOD was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**Chemical Oxygen Damand**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| DSN-003L | 104368 | 7/20/1989 | 0:00 | 40.00 | 40 | | mg/l |
| MW1 | 88573 | 8/3/1988 | 0:00 | (2.00) | 1 | U | mg/l |
| MW1 | 96942 | 1/11/1989 | 0:00 | (2.00) | 1 | U | mg/l |
| MW1 | 100597 | 4/20/1989 | 9:35 | 7.00 | 7 | | mg/l |
| MW1 | 104366 | 7/20/1989 | 0:00 | 9.00 | 9 | | mg/l |
| MW1 | 108058 | 10/18/1989 | 14:00 | 5.00 | 5 | | mg/l |
| MW1 | 93476 | 10/19/1989 | 13:00 | 55.00 | 55 | | mg/l |
| MW1 | 111372 | 1/4/1990 | 13:00 | 4.00 | 4 | | mg/l |
| MW1 | 114946 | 4/4/1990 | 10:00 | 3.00 | 3 | | mg/l |
| MW1 | 118813 | 7/10/1990 | 9:15 | 23.00 | 23 | | mg/l |
| MW1 | 122714 | 10/4/1990 | 16:00 | 7.00 | 7 | | mg/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | (5.00) | 2.5 | U | mg/l |
| MW1 | 129262 | 4/3/1991 | 11:20 | (5.00) | 2.5 | U | mg/l |
| MW1 | 134157 | 7/2/1991 | 8:00 | 6.00 | 6 | | mg/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | (5.00) | 2.5 | U | mg/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | (5.00) | 2.5 | U | mg/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (5.00) | 2.5 | U | mg/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (5.00) | 2.5 | U | mg/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | (5.00) | 2.5 | U | mg/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | (5.00) | 2.5 | U | mg/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | 21.00 | 21 | | mg/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | 8.00 | 8 | | mg/l |
| MW1 | 177491 | 11/9/1993 | 10:35 | (5.00) | 2.5 | U | mg/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | (5.00) | 2.5 | U | mg/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | 8.00 | 8 | | mg/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | (5.00) | 2.5 | U | mg/l |
| MW1 | 200162 | 11/8/1994 | 10:10 | (5.00) | 2.5 | U | mg/l |
| MW1 | L5-02-041-01 | 2/9/1995 | 11:45 | 7.90 | 7.9 | | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that COD was not detected at the reported MDL.

U indicates that COD was not detected above the MDL.

J indicates that COD was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**Chemical Oxygen Damand**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW2 | 88574 | 8/3/1988 | 0:00 | 6.00 | 6 | | mg/l |
| MW2 | 93477 | 10/19/1988 | 14:00 | 34.00 | 34 | | mg/l |
| MW2 | 96943 | 1/11/1989 | 0:00 | 10.00 | 10 | | mg/l |
| MW2 | 100598 | 4/20/1989 | 10:30 | 28.00 | 28 | | mg/l |
| MW2A | 111373 | 1/4/1990 | 13:45 | 7.00 | 7 | | mg/l |
| MW2 | 114947 | 4/4/1990 | 11:20 | 5.00 | 5 | | mg/l |
| MW2 | 118814 | 7/10/1990 | 10:30 | 29.00 | 29 | | mg/l |
| MW2 | 122715 | 10/4/1990 | 14:00 | (5.00) | 2.5 | U | mg/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | 11.00 | 11 | | mg/l |
| MW2A | 129263 | 4/3/1991 | 14:00 | 12.00 | 12 | | mg/l |
| MW2A | 134158 | 7/2/1991 | 9:00 | 7.00 | 7 | | mg/l |
| MW2A | 141781 | 11/26/1991 | 15:00 | (5.00) | 2.5 | U | mg/l |
| MW2A | 146085 | 2/26/1992 | 11:30 | (5.00) | 2.5 | U | mg/l |
| MW2A | 149608 | 5/14/1992 | 11:00 | (2.00) | 1 | U | mg/l |
| MW2A | 152922 | 8/4/1992 | 10:50 | (5.00) | 2.5 | U | mg/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | (5.00) | 2.5 | U | mg/l |
| MW2A | 162142 | 2/15/1993 | 14:40 | (5.00) | 2.5 | U | mg/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | (5.00) | 2.5 | U | mg/l |
| MW2A | 172093 | 8/10/1993 | 15:30 | (5.00) | 2.5 | U | mg/l |
| MW2A | 177492 | 11/9/1993 | 11:10 | (5.00) | 2.5 | U | mg/l |
| MW2A | 182205 | 2/9/1994 | 15:00 | (5.00) | 2.5 | U | mg/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | 15.00 | 15 | | mg/l |
| MW2A | 193949 | 8/9/1994 | 11:20 | (5.00) | 2.5 | U | mg/l |
| MW2A | 200163 | 11/8/1994 | 10:35 | (5.00) | 2.5 | U | mg/l |
| MW2A | L5-02-041-02 | 2/9/1995 | 15:00 | (7.00) | 3.5 | U | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

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mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that COD was not detected at the reported MDL.

U indicates that COD was not detected above the MDL.

J indicates that COD was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**Chemical Oxygen Damand**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW3 | 88824 | 8/4/1988 | 0:00 | 9.00 | 9 | | mg/l |
| MW3 | 93478 | 10/19/1988 | 15:00 | 9.00 | 9 | | mg/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | 5.00 | 5 | | mg/l |
| MW3 | 100599 | 4/20/1989 | 13:00 | 11.00 | 11 | | mg/l |
| MW3 | 104406 | 7/21/1989 | 0:00 | 74.00 | 74 | | mg/l |
| MW3 | 108370 | 10/24/1989 | 14:00 | 7.00 | 7 | | mg/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | 10.00 | 10 | | mg/l |
| MW3 | 114947 | 4/4/1990 | 11:20 | (2.00) | 1 | U | mg/l |
| MW3 | 118815 | 7/10/1990 | 14:10 | 9.00 | 9 | | mg/l |
| MW3 | 122716 | 10/4/1990 | 9:30 | (5.00) | 2.5 | U | mg/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | 6.00 | 6 | | mg/l |
| MW3 | 129264 | 4/3/1991 | 14:50 | (5.00) | 2.5 | U | mg/l |
| MW3 | 134159 | 7/2/1991 | 16:00 | (5.00) | 2.5 | U | mg/l |
| MW3 | 141865 | 11/27/1991 | 10:00 | (5.00) | 2.5 | U | mg/l |
| MW3 | 146202 | 2/27/1992 | 11:45 | (5.00) | 2.5 | U | mg/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (5.00) | 2.5 | U | mg/l |
| MW3 | 152923 | 8/4/1992 | 14:15 | (5.00) | 2.5 | U | mg/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | 94.00 | 94 | | mg/l |
| MW3 | 162143 | 2/15/1993 | 14:00 | (5.00) | 2.5 | U | mg/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | 7.00 | 7 | | mg/l |
| MW3 | 172094 | 8/10/1993 | 16:00 | (5.00) | 2.5 | U | mg/l |
| MW3 | 177493 | 11/9/1993 | 2:40 | (5.00) | 2.5 | U | mg/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (5.00) | 2.5 | U | mg/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | 5.00 | 5 | | mg/l |
| MW3 | 193950 | 8/9/1994 | 13:30 | (5.00) | 2.5 | U | mg/l |
| MW3 | 200164 | 11/8/1994 | 11:20 | (5.00) | 2.5 | U | mg/l |
| MW3 | L5-02-041-03 | 2/9/1995 | 15:40 | 11.00 | 11 | | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that COD was not detected at the reported MDL.

U indicates that COD was not detected above the MDL.

J indicates that COD was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**Chemical Oxygen Damand**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW4 | 88825 | 8/4/1988 | 0:00 | 34.00 | 34 | | mg/l |
| MW4 | 93479 | 10/19/1988 | 16:00 | 62.00 | 62 | | mg/l |
| MW4 | 96945 | 1/11/1989 | 0:00 | 42.00 | 42 | | mg/l |
| MW4 | 100600 | 4/20/1989 | 13:50 | 46.00 | 46 | | mg/l |
| MW4 | 104407 | 7/21/1989 | 0:00 | 40.00 | 40 | | mg/l |
| MW4 | 108371 | 10/24/1989 | 15:30 | 36.00 | 36 | | mg/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | 50.00 | 50 | | mg/l |
| MW4 | 114948 | 4/4/1990 | 13:30 | 43.00 | 43 | | mg/l |
| MW4 | 118816 | 7/10/1990 | 15:15 | 43.00 | 43 | | mg/l |
| MW4 | 122717 | 10/4/1990 | 11:15 | 52.00 | 52 | | mg/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | 72.00 | 72 | | mg/l |
| MW4 | 129265 | 4/3/1991 | 16:00 | 45.00 | 45 | | mg/l |
| MW4 | 134160 | 7/2/1991 | 14:30 | 49.00 | 49 | | mg/l |
| MW4 | 141866 | 11/27/1991 | 11:45 | 36.00 | 36 | | mg/l |
| MW4 | 146201 | 2/27/1992 | 10:30 | 32.00 | 32 | | mg/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | 38.00 | 38 | | mg/l |
| MW4 | 152981 | 8/5/1992 | 11:15 | 11.00 | 11 | | mg/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | 220.00 | 220 | | mg/l |
| MW4 | 162203 | 2/17/1993 | 8:50 | 21.00 | 21 | | mg/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | 26.00 | 26 | | mg/l |
| MW4 | 172095 | 8/10/1993 | 16:30 | 29.00 | 29 | | mg/l |
| MW4Dup | 172096 | 8/10/1993 | 0:00 | (5.00) | 2.5 | U | mg/l |
| MW4 | 177494 | 11/9/1993 | 3:00 | 36.00 | 36 | | mg/l |
| MW4 | 182269 | 2/10/1994 | 14:05 | 25.00 | 25 | | mg/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | 16.00 | 16 | | mg/l |
| MW4 | 193951 | 8/9/1994 | 14:30 | 19.00 | 19 | | mg/l |
| MW4 | 200165 | 11/8/1994 | 13:45 | 32.00 | 32 | | mg/l |
| MW4 | L5-02-041-04 | 2/9/1995 | 16:10 | 31.00 | 31 | | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that COD was not detected at the reported MDL.

U indicates that COD was not detected above the MDL.

J indicates that COD was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**Chemical Oxygen Damand**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW5 | 88826 | 8/4/1988 | 0:00 | 5.00 | 5 | | mg/l |
| MW5 | 93480 | 10/19/1988 | 17:00 | 41.00 | 41 | | mg/l |
| MW5 | 96946 | 1/11/1989 | 0:00 | 25.00 | 25 | | mg/l |
| MW5 | 100601 | 4/20/1989 | 14:40 | 39.00 | 39 | | mg/l |
| MW5 | 104408 | 7/21/1989 | 0:00 | 35.00 | 35 | | mg/l |
| MW5 | 108059 | 10/18/1989 | 16:00 | 32.00 | 32 | | mg/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | 25.00 | 25 | | mg/l |
| MW5 | 114950 | 4/4/1990 | 16:20 | 24.00 | 24 | | mg/l |
| MW5 | 118817 | 7/10/1990 | 11:45 | 20.00 | 20 | | mg/l |
| MW5 | 122718 | 10/4/1990 | 15:00 | 28.00 | 28 | | mg/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | 19.00 | 19 | | mg/l |
| MW5 | 129266 | 4/3/1991 | 17:20 | 25.00 | 25 | | mg/l |
| MW5 | 134161 | 7/2/1991 | 17:00 | 32.00 | 32 | | mg/l |
| MW5 | 141867 | 11/27/1991 | 14:45 | 19.00 | 19 | | mg/l |
| MW5 | 146264 | 2/28/1992 | 11:45 | 22.00 | 22 | | mg/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | 19.00 | 19 | | mg/l |
| MW5 | 153109 | 8/7/1992 | 10:45 | 18.00 | 18 | | mg/l |
| MW5 | 157931 | 11/13/1992 | 14:55 | 15.00 | 15 | | mg/l |
| MW5 | 162026 | 2/10/1993 | 15:25 | 39.00 | 39 | | mg/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | 36.00 | 36 | | mg/l |
| MW5 | 172232 | 8/12/1993 | 3:40 | 33.00 | 33 | | mg/l |
| MW5 | 177817 | 11/12/1993 | 2:15 | 26.00 | 26 | | mg/l |
| MW5 | 182704 | 2/24/1994 | 12:35 | 31.00 | 31 | | mg/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | 17.00 | 17 | | mg/l |
| MW5 | 194290 | 8/12/1994 | 14:00 | 230.00 | 230 | | mg/l |
| MW6 | 141780 | 11/26/1991 | 9:30 | (5.00) | 2.5 | U | mg/l |
| MW6 | 146086 | 2/26/1992 | 14:00 | (5.00) | 2.5 | U | mg/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (5.00) | 2.5 | U | mg/l |
| MW6 | 152980 | 8/5/1992 | 8:30 | (2.00) | 1 | U | mg/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | 22.00 | 22 | | mg/l |
| MW6 | 162204 | 2/17/1993 | 11:00 | (5.00) | 2.5 | U | mg/l |
| MW6Dup | 162206 | 2/17/1993 | 0:00 | (5.00) | 2.5 | U | mg/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | 8.00 | 8 | | mg/l |
| MW6 | 172229 | 8/12/1993 | 11:15 | (5.00) | 2.5 | U | mg/l |
| MW6 | 177818 | 11/12/1993 | 10:45 | (5.00) | 2.5 | U | mg/l |
| MW6 | 182270 | 2/10/1994 | 14:40 | (5.00) | 2.5 | U | mg/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | 9.00 | 9 | | mg/l |
| MW6 | 194023 | 8/10/1994 | 10:50 | (5.00) | 2.5 | U | mg/l |
| MW6 | 200166 | 11/8/1994 | 14:25 | (5.00) | 2.5 | U | mg/l |
| MW6 | L5-02-041-05 | 2/9/1995 | 16:45 | (7.00) | 3.5 | U | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that COD was not detected at the reported MDL.

U indicates that COD was not detected above the MDL.

J indicates that COD was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**Total Dissolved Solids**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW1 | 88573 | 8/3/1988 | 0:00 | 107 | | mg/l |
| MW1 | 96942 | 1/11/1989 | 0:00 | 190 | | mg/l |
| MW1 | 100597 | 4/20/1989 | 9:35 | 207 | | mg/l |
| MW1 | 104366 | 7/20/1989 | 0:00 | 194 | | mg/l |
| MW1 | 108058 | 10/18/1989 | 14:00 | 120 | | mg/l |
| MW1 | 93476 | 10/19/1989 | 13:00 | 147 | | mg/l |
| MW1 | 111372 | 1/4/1990 | 13:00 | 165 | | mg/l |
| MW1 | 114946 | 4/4/1990 | 10:00 | 132 | | mg/l |
| MW1 | 118813 | 7/10/1990 | 9:15 | 132 | | mg/l |
| MW1 | 122714 | 10/4/1990 | 16:00 | 143 | | mg/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | 116 | | mg/l |
| MW1 | 129262 | 4/3/1991 | 11:20 | 128 | | mg/l |
| MW1 | 134157 | 7/2/1991 | 8:00 | 130 | | mg/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | 178 | | mg/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | 140 | | mg/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | 175 | | mg/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | 155 | | mg/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | 160 | | mg/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | 150 | | mg/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | 170 | | mg/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | 168 | | mg/l |
| MW1 | 177491 | 11/9/1993 | 10:35 | 1422 | | mg/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | 133 | | mg/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | 140 | | mg/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | 182 | | mg/l |
| MW1 | 200162 | 11/8/1994 | 10:10 | 132 | | mg/l |
| MW1 | L5-02-041-01 | 2/9/1995 | 11:45 | 170 | | mg/l |

**Summary of Groundwater Analytical Results**
**Total Dissolved Solids**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW2 | 88574 | 8/3/1988 | 0:00 | 180 | | mg/l |
| MW2 | 93477 | 10/19/1988 | 14:00 | 250 | | mg/l |
| MW2 | 96943 | 1/11/1989 | 0:00 | 260 | | mg/l |
| MW2 | 100598 | 4/20/1989 | 10:30 | 270 | | mg/l |
| MW2A | 111373 | 1/4/1990 | 13:45 | 330 | | mg/l |
| MW2 | 114947 | 4/4/1990 | 11:20 | 308 | | mg/l |
| MW2 | 118814 | 7/10/1990 | 10:30 | 318 | | mg/l |
| MW2 | 122715 | 10/4/1990 | 14:00 | 248 | | mg/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | 260 | | mg/l |
| MW2A | 129263 | 4/3/1991 | 14:00 | 253 | | mg/l |
| MW2A | 134158 | 7/2/1991 | 9:00 | 263 | | mg/l |
| MW2A | 141781 | 11/26/1991 | 15:00 | 280 | | mg/l |
| MW2A | 146085 | 2/26/1992 | 11:30 | 280 | | mg/l |
| MW2A | 149608 | 5/14/1992 | 11:00 | 270 | | mg/l |
| MW2A | 152922 | 8/4/1992 | 10:50 | 307 | | mg/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | 300 | | mg/l |
| MW2A | 162142 | 2/15/1993 | 14:40 | 317 | | mg/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | 380 | | mg/l |
| MW2A | 172093 | 8/10/1993 | 15:30 | 440 | | mg/l |
| MW2A | 177492 | 11/9/1993 | 11:10 | 378 | | mg/l |
| MW2A | 182205 | 2/9/1994 | 15:00 | 387 | | mg/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | 312 | | mg/l |
| MW2A | 193949 | 8/9/1994 | 11:20 | 478 | | mg/l |
| MW2A | 200163 | 11/8/1994 | 10:35 | 367 | | mg/l |
| MW2A | L5-02-041-02 | 2/9/1995 | 15:00 | 310 | | mg/l |

**Summary of Groundwater Analytical Results**
**Total Dissolved Solids**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW3 | 88824 | 8/4/1988 | 0:00 | 383 | | mg/l |
| MW3 | 93478 | 10/19/1988 | 15:00 | 383 | | mg/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | 390 | | mg/l |
| MW3 | 100599 | 4/20/1989 | 13:00 | 386 | | mg/l |
| MW3 | 104406 | 7/21/1989 | 0:00 | 428 | | mg/l |
| MW3 | 108370 | 10/24/1989 | 14:00 | 388 | | mg/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | 470 | | mg/l |
| MW3 | 114947 | 4/4/1990 | 11:20 | 406 | | mg/l |
| MW3 | 118815 | 7/10/1990 | 14:10 | 405 | | mg/l |
| MW3 | 122716 | 10/4/1990 | 9:30 | 433 | | mg/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | 405 | | mg/l |
| MW3 | 129264 | 4/3/1991 | 14:50 | 375 | | mg/l |
| MW3 | 134159 | 7/2/1991 | 16:00 | 420 | | mg/l |
| MW3 | 141865 | 11/27/1991 | 10:00 | 420 | | mg/l |
| MW3 | 146202 | 2/27/1992 | 11:45 | 390 | | mg/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | 362 | | mg/l |
| MW3 | 152923 | 8/4/1992 | 14:15 | 405 | | mg/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | 367 | | mg/l |
| MW3 | 162143 | 2/15/1993 | 14:00 | 350 | | mg/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | 333 | | mg/l |
| MW3 | 172094 | 8/10/1993 | 16:00 | 287 | | mg/l |
| MW3 | 177493 | 11/9/1993 | 2:40 | 365 | | mg/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | 352 | | mg/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | 315 | | mg/l |
| MW3 | 193950 | 8/9/1994 | 13:30 | 412 | | mg/l |
| MW3 | 200164 | 11/8/1994 | 11:20 | 362 | | mg/l |
| MW3 | L5-02-041-03 | 2/9/1995 | 15:40 | 410 | | mg/l |

**Summary of Groundwater Analytical Results**
**Total Dissolved Solids**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW4 | 88825 | 8/4/1988 | 0:00 | 797 | | mg/l |
| MW4 | 93479 | 10/19/1988 | 16:00 | 900 | | mg/l |
| MW4 | 96945 | 1/11/1989 | 0:00 | 748 | | mg/l |
| MW4 | 100600 | 4/20/1989 | 13:50 | 910 | | mg/l |
| MW4 | 104407 | 7/21/1989 | 0:00 | 800 | | mg/l |
| MW4 | 108371 | 10/24/1989 | 15:30 | 708 | | mg/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | 128 | | mg/l |
| MW4 | 114948 | 4/4/1990 | 13:30 | 922 | | mg/l |
| MW4 | 118816 | 7/10/1990 | 15:15 | 928 | | mg/l |
| MW4 | 122717 | 10/4/1990 | 11:15 | 1000 | | mg/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | 953 | | mg/l |
| MW4 | 129265 | 4/3/1991 | 16:00 | 915 | | mg/l |
| MW4 | 134160 | 7/2/1991 | 14:30 | 950 | | mg/l |
| MW4 | 141866 | 11/27/1991 | 11:45 | 900 | | mg/l |
| MW4 | 146201 | 2/27/1992 | 10:30 | 878 | | mg/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | 857 | | mg/l |
| MW4 | 152981 | 8/5/1992 | 11:15 | 857 | | mg/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | 727 | | mg/l |
| MW4 | 162203 | 2/17/1993 | 8:50 | 863 | | mg/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | 765 | | mg/l |
| MW4 | 172095 | 8/10/1993 | 16:30 | 498 | | mg/l |
| MW4Dup | 172096 | 8/10/1993 | 0:00 | 408 | | mg/l |
| MW4 | 177494 | 11/9/1993 | 3:00 | 847 | | mg/l |
| MW4 | 182269 | 2/10/1994 | 14:05 | 817 | | mg/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | 752 | | mg/l |
| MW4 | 193951 | 8/9/1994 | 14:30 | 842 | | mg/l |
| MW4 | 200165 | 11/8/1994 | 13:45 | 900 | | mg/l |
| MW4 | L5-02-041-04 | 2/9/1995 | 16:10 | 900 | | mg/l |

**Summary of Groundwater Analytical Results**
**Total Dissolved Solids**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW5 | 88826 | 8/4/1988 | 0:00 | 410 | | mg/l |
| MW5 | 93480 | 10/19/1988 | 17:00 | (313) | U | mg/l |
| MW5 | 96946 | 1/11/1989 | 0:00 | 326 | | mg/l |
| MW5 | 100601 | 4/20/1989 | 14:40 | 473 | | mg/l |
| MW5 | 104408 | 7/21/1989 | 0:00 | 396 | | mg/l |
| MW5 | 108059 | 10/18/1989 | 16:00 | 330 | | mg/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | 400 | | mg/l |
| MW5 | 114950 | 4/4/1990 | 16:20 | 470 | | mg/l |
| MW5 | 118817 | 7/10/1990 | 11:45 | 347 | | mg/l |
| MW5 | 122718 | 10/4/1990 | 15:00 | 381 | | mg/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | 422 | | mg/l |
| MW5 | 129266 | 4/3/1991 | 17:20 | 440 | | mg/l |
| MW5 | 134161 | 7/2/1991 | 17:00 | 450 | | mg/l |
| MW5 | 141867 | 11/27/1991 | 14:45 | 400 | | mg/l |
| MW5 | 146264 | 2/28/1992 | 11:45 | 350 | | mg/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | 333 | | mg/l |
| MW5 | 153109 | 8/7/1992 | 10:45 | 317 | | mg/l |
| MW5 | 157931 | 11/13/1992 | 14:55 | 332 | | mg/l |
| MW5 | 162026 | 2/10/1993 | 15:25 | 410 | | mg/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | 473 | | mg/l |
| MW5 | 172232 | 8/12/1993 | 3:40 | 460 | | mg/l |
| MW5 | 177817 | 11/12/1993 | 2:15 | 403 | | mg/l |
| MW5 | 182704 | 2/24/1994 | 12:35 | 463 | | mg/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | 397 | | mg/l |
| MW5 | 194290 | 8/12/1994 | 14:00 | 382 | | mg/l |
| MW6 | 141780 | 11/26/1991 | 9:30 | 482 | | mg/l |
| MW6 | 146086 | 2/26/1992 | 14:00 | 525 | | mg/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | 495 | | mg/l |
| MW6 | 152980 | 8/5/1992 | 8:30 | 458 | | mg/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | 420 | | mg/l |
| MW6 | 162204 | 2/17/1993 | 11:00 | 473 | | mg/l |
| MW6Dup | 162206 | 2/17/1993 | 0:00 | 468 | | mg/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | 623 | | mg/l |
| MW6 | 172229 | 8/12/1993 | 11:15 | 545 | | mg/l |
| MW6 | 177818 | 11/12/1993 | 10:45 | 2 | | mg/l |
| MW6 | 182270 | 2/10/1994 | 14:40 | 418 | | mg/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | 450 | | mg/l |
| MW6 | 194023 | 8/10/1994 | 10:50 | 478 | | mg/l |
| MW6 | 200166 | 11/8/1994 | 14:25 | 337 | | mg/l |
| MW6 | L5-02-041-05 | 2/9/1995 | 16:45 | 390 | | mg/l |
| RW1 | 116208 | 5/4/1990 | 13:45 | 335 | | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that TDS was not detected at the reported MDL.

U indicates that TDS was not detected above the MDL.

J indicates that TDS was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**Total Organic Carbon**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW1 | 88573 | 8/3/1988 | 0:00 | 1.00 | 1.0 | | mg/l |
| MW1 | 96942 | 1/11/1989 | 0:00 | 1.00 | 1.0 | | mg/l |
| MW1 | 100597 | 4/20/1989 | 9:35 | 2.00 | 2.0 | | mg/l |
| MW1 | 104366 | 7/20/1989 | 0:00 | 2.50 | 2.5 | | mg/l |
| MW1 | 108058 | 10/18/1989 | 14:00 | 2.00 | 2.0 | | mg/l |
| MW1 | 93476 | 10/19/1989 | 13:00 | 1.00 | 1.0 | | mg/l |
| MW1 | 111372 | 1/4/1990 | 13:00 | 2.00 | 2.0 | | mg/l |
| MW1 | 114946 | 4/4/1990 | 10:00 | 2.00 | 2.0 | | mg/l |
| MW1 | 118813 | 7/10/1990 | 9:15 | 2.00 | 2.0 | | mg/l |
| MW1 | 122714 | 10/4/1990 | 16:00 | 2.00 | 2.0 | | mg/l |
| MW1 | 126327 | 1/9/1991 | 11:30 | 1.30 | 1.3 | | mg/l |
| MW1 | 129262 | 4/3/1991 | 11:20 | 1.10 | 1.1 | | mg/l |
| MW1 | 134157 | 7/2/1991 | 8:00 | 1.20 | 1.2 | | mg/l |
| MW1 | 141868 | 11/27/1991 | 16:45 | (1.00) | 0.5 | U | mg/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | (1.00) | 0.5 | U | mg/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | (1.00) | 0.5 | U | mg/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | (1.00) | 0.5 | U | mg/l |
| MW1 | 157615 | 11/10/1992 | 9:20 | 1.60 | 1.6 | | mg/l |
| MW1 | 162141 | 2/15/1993 | 12:00 | 1.20 | 1.2 | | mg/l |
| MW1 | 166597 | 5/12/1993 | 9:20 | 4.30 | 4.3 | | mg/l |
| MW1 | 172092 | 8/10/1993 | 14:50 | (1.00) | 0.5 | U | mg/l |
| MW1 | 177491 | 11/9/1993 | 10:35 | 1.10 | 1.1 | | mg/l |
| MW1 | 182204 | 2/9/1994 | 14:30 | (1.00) | 0.5 | U | mg/l |
| MW1 | 187877 | 5/10/1994 | 11:40 | (1.00) | 0.5 | U | mg/l |
| MW1 | 193948 | 8/9/1994 | 10:40 | (1.00) | 0.5 | U | mg/l |
| MW1 | 200162 | 11/8/1994 | 10:10 | (1.00) | 0.5 | U | mg/l |
| MW1 | L5-02-041-01 | 2/9/1995 | 11:45 | 7.40 | 7.4 | | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that TOC was not detected at the reported MDL.

U indicates that TOC was not detected above the MDL.

J indicates that TOC was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**Total Organic Carbon**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW2 | 88574 | 8/3/1988 | 0:00 | 2.00 | 2.0 | | mg/l |
| MW2 | 93477 | 10/19/1988 | 14:00 | (1.00) | 0.5 | U | mg/l |
| MW2 | 96943 | 1/11/1989 | 0:00 | 24.00 | 24.0 | | mg/l |
| MW2 | 100598 | 4/20/1989 | 10:30 | 6.00 | 6.0 | | mg/l |
| MW2A | 111373 | 1/4/1990 | 13:45 | 780.00 | 780.0 | | mg/l |
| MW2 | 114947 | 4/4/1990 | 11:20 | 1600.00 | 1600.0 | | mg/l |
| MW2 | 118814 | 7/10/1990 | 10:30 | 79.00 | 79.0 | | mg/l |
| MW2 | 122715 | 10/4/1990 | 14:00 | 96.00 | 96.0 | | mg/l |
| MW2 | 126328 | 1/9/1991 | 14:30 | 430.00 | 430.0 | | mg/l |
| MW2A | 129263 | 4/3/1991 | 14:00 | 1.70 | 1.7 | | mg/l |
| MW2A | 134158 | 7/2/1991 | 9:00 | (1.00) | 0.5 | U | mg/l |
| MW2A | 141781 | 11/26/1991 | 15:00 | (1.00) | 0.5 | U | mg/l |
| MW2A | 146085 | 2/26/1992 | 11:30 | 220.00 | 220.0 | | mg/l |
| MW2A | 149608 | 5/14/1992 | 11:00 | 1.20 | 1.2 | | mg/l |
| MW2A | 152922 | 8/4/1992 | 10:50 | (1.00) | 0.5 | U | mg/l |
| MW2A | 157616 | 11/10/1992 | 16:15 | 10.20 | 10.2 | | mg/l |
| MW2A | 162142 | 2/15/1993 | 14:40 | (1.00) | 0.5 | U | mg/l |
| MW2A | 166598 | 5/12/1993 | 10:35 | (1.00) | 0.5 | U | mg/l |
| MW2A | 172093 | 8/10/1993 | 15:30 | (1.00) | 0.5 | U | mg/l |
| MW2A | 177492 | 11/9/1993 | 11:10 | (1.00) | 0.5 | U | mg/l |
| MW2A | 182205 | 2/9/1994 | 15:00 | (1.00) | 0.5 | U | mg/l |
| MW2A | 187878 | 5/10/1994 | 13:30 | (1.00) | 0.5 | U | mg/l |
| MW2A | 193949 | 8/9/1994 | 11:20 | (1.00) | 0.5 | U | mg/l |
| MW2A | 200163 | 11/8/1994 | 10:35 | 1.10 | 1.1 | | mg/l |
| MW2A | L5-02-041-02 | 2/9/1995 | 15:00 | 15.00 | 15.0 | | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that TOC was not detected at the reported MDL.

U indicates that TOC was not detected above the MDL.

J indicates that TOC was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**Total Organic Carbon**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW3 | 88824 | 8/4/1988 | 0:00 | 3.00 | 3.0 | | mg/l |
| MW3 | 93478 | 10/19/1988 | 15:00 | (1.00) | 0.5 | U | mg/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | 2.00 | 2.0 | | mg/l |
| MW3 | 100599 | 4/20/1989 | 13:00 | 3.00 | 3.0 | | mg/l |
| MW3 | 104406 | 7/21/1989 | 0:00 | 2.00 | 2.0 | | mg/l |
| MW3 | 108370 | 10/24/1989 | 14:00 | 1.00 | 1.0 | | mg/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | 2.00 | 2.0 | | mg/l |
| MW3 | 114947 | 4/4/1990 | 11:20 | 1.00 | 1.0 | | mg/l |
| MW3 | 118815 | 7/10/1990 | 14:10 | 1.00 | 1.0 | | mg/l |
| MW3 | 122716 | 10/4/1990 | 9:30 | 2.00 | 2.0 | | mg/l |
| MW3 | 126421 | 1/10/1991 | 0:00 | 1.50 | 1.5 | | mg/l |
| MW3 | 129264 | 4/3/1991 | 14:50 | 2.60 | 2.6 | | mg/l |
| MW3 | 134159 | 7/2/1991 | 16:00 | 1.40 | 1.4 | | mg/l |
| MW3 | 141865 | 11/27/1991 | 10:00 | 1.40 | 1.4 | | mg/l |
| MW3 | 146202 | 2/27/1992 | 11:45 | 2.50 | 2.5 | | mg/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | (1.00) | 0.5 | U | mg/l |
| MW3 | 152923 | 8/4/1992 | 14:15 | (1.00) | 0.5 | U | mg/l |
| MW3 | 157617 | 11/10/1992 | 12:15 | 38.00 | 38.0 | | mg/l |
| MW3 | 162143 | 2/15/1993 | 14:00 | 1.10 | 1.1 | | mg/l |
| MW3 | 166599 | 5/12/1993 | 13:30 | (1.00) | 0.5 | U | mg/l |
| MW3 | 172094 | 8/10/1993 | 16:00 | 1.60 | 1.6 | | mg/l |
| MW3 | 177493 | 11/9/1993 | 2:40 | 1.80 | 1.8 | | mg/l |
| MW3 | 182268 | 2/10/1994 | 11:10 | (1.00) | 0.5 | U | mg/l |
| MW3 | 187879 | 5/10/1994 | 14:10 | (1.00) | 0.5 | U | mg/l |
| MW3 | 193950 | 8/9/1994 | 13:30 | 1.40 | 1.4 | | mg/l |
| MW3 | 200164 | 11/8/1994 | 11:20 | 1.80 | 1.8 | | mg/l |
| MW3 | L5-02-041-03 | 2/9/1995 | 15:40 | 20.00 | 20.0 | | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that TOC was not detected at the reported MDL.

U indicates that TOC was not detected above the MDL.

J indicates that TOC was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**Total Organic Carbon**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW4 | 88825 | 8/4/1988 | 0:00 | 13.00 | 13.0 | | mg/l |
| MW4 | 93479 | 10/19/1988 | 16:00 | (1.00) | 0.5 | U | mg/l |
| MW4 | 96945 | 1/11/1989 | 0:00 | 15.00 | 15.0 | | mg/l |
| MW4 | 100600 | 4/20/1989 | 13:50 | 18.00 | 18.0 | | mg/l |
| MW4 | 104407 | 7/21/1989 | 0:00 | 18.00 | 18.0 | | mg/l |
| MW4 | 108371 | 10/24/1989 | 15:30 | 12.00 | 12.0 | | mg/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | 15.00 | 15.0 | | mg/l |
| MW4 | 114948 | 4/4/1990 | 13:30 | 18.00 | 18.0 | | mg/l |
| MW4 | 118816 | 7/10/1990 | 15:15 | 15.00 | 15.0 | | mg/l |
| MW4 | 122717 | 10/4/1990 | 11:15 | 18.00 | 18.0 | | mg/l |
| MW4 | 126422 | 1/10/1991 | 14:30 | 32.50 | 32.5 | | mg/l |
| MW4 | 129265 | 4/3/1991 | 16:00 | 16.50 | 16.5 | | mg/l |
| MW4 | 134160 | 7/2/1991 | 14:30 | 13.70 | 13.7 | | mg/l |
| MW4 | 141866 | 11/27/1991 | 11:45 | 15.00 | 15.0 | | mg/l |
| MW4 | 146201 | 2/27/1992 | 10:30 | 13.20 | 13.2 | | mg/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | 12.20 | 12.2 | | mg/l |
| MW4 | 152981 | 8/5/1992 | 11:15 | 11.80 | 11.8 | | mg/l |
| MW4 | 157671 | 11/11/1992 | 9:15 | 72.30 | 72.3 | | mg/l |
| MW4 | 162203 | 2/17/1993 | 8:50 | 11.30 | 11.3 | | mg/l |
| MW4 | 166648 | 5/13/1993 | 9:50 | 9.00 | 9.0 | | mg/l |
| MW4 | 172095 | 8/10/1993 | 16:30 | 7.20 | 7.2 | | mg/l |
| MW4Dup | 172096 | 8/10/1993 | 0:00 | 1.50 | 1.5 | | mg/l |
| MW4 | 177494 | 11/9/1993 | 3:00 | 8.00 | 8.0 | | mg/l |
| MW4 | 182269 | 2/10/1994 | 14:05 | 9.70 | 9.7 | | mg/l |
| MW4 | 187880 | 5/10/1994 | 14:35 | 7.50 | 7.5 | | mg/l |
| MW4 | 193951 | 8/9/1994 | 14:30 | 8.10 | 8.1 | | mg/l |
| MW4 | 200165 | 11/8/1994 | 13:45 | 39.50 | 39.5 | | mg/l |
| MW4 | L5-02-041-04 | 2/9/1995 | 16:10 | 69.00 | 69.0 | | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that TOC was not detected at the reported MDL.

U indicates that TOC was not detected above the MDL.

J indicates that TOC was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**Total Organic Carbon**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Interp.R | Q | Unit |
|---|---|---|---|---|---|---|---|
| MW5 | 88826 | 8/4/1988 | 0:00 | 5.00 | 5.0 | | mg/l |
| MW5 | 93480 | 10/19/1988 | 17:00 | (1.00) | 0.5 | U | mg/l |
| MW5 | 96946 | 1/11/1989 | 0:00 | 15.00 | 15.0 | | mg/l |
| MW5 | 100601 | 4/20/1989 | 14:40 | 25.00 | 25.0 | | mg/l |
| MW5 | 104408 | 7/21/1989 | 0:00 | 17.00 | 17.0 | | mg/l |
| MW5 | 108059 | 10/18/1989 | 16:00 | 12.00 | 12.0 | | mg/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | 10.00 | 10.0 | | mg/l |
| MW5 | 114950 | 4/4/1990 | 16:20 | 18.00 | 18.0 | | mg/l |
| MW5 | 118817 | 7/10/1990 | 11:45 | 8.00 | 8.0 | | mg/l |
| MW5 | 122718 | 10/4/1990 | 15:00 | 12.00 | 12.0 | | mg/l |
| MW5 | 126423 | 1/10/1991 | 16:30 | 7.80 | 7.8 | | mg/l |
| MW5 | 129266 | 4/3/1991 | 17:20 | 14.00 | 14.0 | | mg/l |
| MW5 | 134161 | 7/2/1991 | 17:00 | 14.50 | 14.5 | | mg/l |
| MW5 | 141867 | 11/27/1991 | 14:45 | 11.00 | 11.0 | | mg/l |
| MW5 | 146264 | 2/28/1992 | 11:45 | 15.20 | 15.2 | | mg/l |
| MW5 | 149707 | 5/18/1992 | 10:15 | 42.60 | 42.6 | | mg/l |
| MW5 | 153109 | 8/7/1992 | 10:45 | 9.80 | 9.8 | | mg/l |
| MW5 | 157931 | 11/13/1992 | 14:55 | 123.00 | 123.0 | | mg/l |
| MW5 | 162026 | 2/10/1993 | 15:25 | 150.00 | 150.0 | | mg/l |
| MW5 | 167356 | 5/24/1993 | 16:35 | 23.00 | 23.0 | | mg/l |
| MW5 | 172232 | 8/12/1993 | 3:40 | 23.00 | 23.0 | | mg/l |
| MW5 | 177817 | 11/12/1993 | 2:15 | 77.50 | 77.5 | | mg/l |
| MW5 | 182704 | 2/24/1994 | 12:35 | 41.50 | 41.5 | | mg/l |
| MW5 | 188273 | 5/17/1994 | 13:45 | 7.30 | 7.3 | | mg/l |
| MW5 | 194290 | 8/12/1994 | 14:00 | 16.80 | 16.8 | | mg/l |
| MW6 | 141780 | 11/26/1991 | 9:30 | (1.00) | 0.5 | U | mg/l |
| MW6 | 146086 | 2/26/1992 | 14:00 | 1.60 | 1.6 | | mg/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | (1.00) | 0.5 | U | mg/l |
| MW6 | 152980 | 8/5/1992 | 8:30 | (1.00) | 0.5 | U | mg/l |
| MW6 | 157672 | 11/11/1992 | 11:35 | 19.20 | 19.2 | | mg/l |
| MW6 | 162204 | 2/17/1993 | 11:00 | 1.90 | 1.9 | | mg/l |
| MW6Dup | 162206 | 2/17/1993 | 0:00 | 8.80 | 8.8 | | mg/l |
| MW6 | 166649 | 5/13/1993 | 13:30 | 1.90 | 1.9 | | mg/l |
| MW6 | 172229 | 8/12/1993 | 11:15 | (1.00) | 0.5 | U | mg/l |
| MW6 | 177818 | 11/12/1993 | 10:45 | 122.00 | 122.0 | | mg/l |
| MW6 | 182270 | 2/10/1994 | 14:40 | (1.00) | 0.5 | U | mg/l |
| MW6 | 187955 | 5/11/1994 | 13:30 | 1.30 | 1.3 | | mg/l |
| MW6 | 194023 | 8/10/1994 | 10:50 | (1.00) | 0.5 | U | mg/l |
| MW6 | 200166 | 11/8/1994 | 14:25 | (1.00) | 0.5 | U | mg/l |
| MW6 | L5-02-041-05 | 2/9/1995 | 16:45 | 20.00 | 20.0 | | mg/l |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that TOC was not detected at the reported MDL.

U indicates that TOC was not detected above the MDL.

J indicates that TOC was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**pH**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| DSN-003L | 104367 | 7/20/1989 | 0:00 | 7.77 | | mg/l |
| MW1 | 88573 | 8/3/1988 | 0:00 | 7.47 | | mg/l |
| MW1 | 96942 | 1/11/1989 | 0:00 | 8.17 | | mg/l |
| MW1 | 100597 | 4/20/1989 | 9:35 | 7.78 | | mg/l |
| MW1 | 104366 | 7/20/1989 | 0:00 | 7.96 | | mg/l |
| MW1 | 108058 | 10/18/1989 | 14:00 | 8.16 | | mg/l |
| MW1 | 93476 | 10/19/1989 | 13:00 | 7.53 | | mg/l |
| MW1 | 111372 | 1/4/1990 | 13:00 | 8.23 | | mg/l |
| MW1 | 114946 | 4/4/1990 | 10:00 | 8.28 | | mg/l |
| MW1 | 118813 | 7/10/1990 | 9:15 | 8.18 | | NA |
| MW1 | 122714 | 10/4/1990 | 16:00 | 8.18 | | NA |
| MW1 | 126327 | 1/9/1991 | 11:30 | 8.51 | | NA |
| MW1 | 129262 | 4/3/1991 | 11:20 | 8.15 | | NA |
| MW1 | 134157 | 7/2/1991 | 8:00 | 7.51 | | NA |
| MW1 | 141868 | 11/27/1991 | 16:45 | 8.13 | | mg/l |
| MW1 | 146053 | 2/25/1992 | 14:15 | 223.00 | | mg/l |
| MW1 | 149519 | 5/12/1992 | 10:45 | 8.51 | | mg/l |
| MW1 | 152921 | 8/4/1992 | 9:00 | 8.21 | | SU |
| MW1 | 157615 | 11/10/1992 | 9:20 | 7.69 | | SU |
| MW2 | 88574 | 8/3/1988 | 0:00 | 7.11 | | mg/l |
| MW2 | 93477 | 10/19/1988 | 14:00 | 7.13 | | mg/l |
| MW2 | 96943 | 1/11/1989 | 0:00 | 7.89 | | mg/l |
| MW2 | 100598 | 4/20/1989 | 10:30 | 7.70 | | mg/l |
| MW2A | 111373 | 1/4/1990 | 13:45 | 8.68 | | mg/l |
| MW2 | 114947 | 4/4/1990 | 11:20 | 8.60 | | NA |
| MW2 | 118814 | 7/10/1990 | 10:30 | 8.28 | | NA |
| MW2 | 122715 | 10/4/1990 | 14:00 | 8.36 | | NA |
| MW2 | 126328 | 1/9/1991 | 14:30 | 8.43 | | mg/l |
| MW2A | 129263 | 4/3/1991 | 14:00 | 8.29 | | NA |
| MW2A | 134158 | 7/2/1991 | 9:00 | 8.39 | | NA |
| MW2A | 141781 | 11/26/1991 | 15:00 | 8.53 | | mg/l |
| MW2A | 146085 | 2/26/1992 | 11:30 | 7.96 | | mg/l |
| MW2A | 149608 | 5/14/1992 | 11:00 | 8.02 | | SU |
| MW2A | 152922 | 8/4/1992 | 10:50 | 8.00 | | SU |
| MW2A | 157616 | 11/10/1992 | 16:15 | 7.61 | | SU |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that pH was not detected at the reported MDL.

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J indicates that pH was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**pH**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW3 | 88824 | 8/4/1988 | 0:00 | 6.54 | | mg/l |
| MW3 | 93478 | 10/19/1988 | 15:00 | 6.44 | | mg/l |
| MW3 | 96944 | 1/11/1989 | 0:00 | 7.49 | | mg/l |
| MW3 | 100599 | 4/20/1989 | 13:00 | 7.15 | | mg/l |
| MW3 | 104406 | 7/21/1989 | 0:00 | 7.11 | | mg/l |
| MW3 | 108370 | 10/24/1989 | 14:00 | 7.13 | | mg/l |
| MW3 | 111374 | 1/4/1990 | 9:45 | 7.39 | | mg/l |
| MW3 | 114947 | 4/4/1990 | 11:20 | 7.45 | | mg/l |
| MW3 | 118815 | 7/10/1990 | 14:10 | 7.31 | | NA |
| MW3 | 122716 | 10/4/1990 | 9:30 | 7.28 | | NA |
| MW3 | 126421 | 1/10/1991 | 0:00 | 7.36 | | NA |
| MW3 | 129264 | 4/3/1991 | 14:50 | 7.33 | | NA |
| MW3 | 134159 | 7/2/1991 | 16:00 | 7.39 | | NA |
| MW3 | 141865 | 11/27/1991 | 10:00 | 7.14 | | NA |
| MW3 | 146202 | 2/27/1992 | 11:45 | 7.09 | | mg/l |
| MW3 | 149520 | 5/12/1992 | 14:45 | 7.75 | | mg/l |
| MW3 | 152923 | 8/4/1992 | 14:15 | 7.11 | | SU |
| MW3 | 157617 | 11/10/1992 | 12:15 | 7.02 | | SU |
| MW4 | 88825 | 8/4/1988 | 0:00 | 6.45 | | mg/l |
| MW4 | 93479 | 10/19/1988 | 16:00 | 6.32 | | mg/l |
| MW4 | 96945 | 1/11/1989 | 0:00 | 7.28 | | mg/l |
| MW4 | 100600 | 4/20/1989 | 13:50 | 6.81 | | mg/l |
| MW4 | 104407 | 7/21/1989 | 0:00 | 6.89 | | mg/l |
| MW4 | 108371 | 10/24/1989 | 15:30 | 6.82 | | mg/l |
| MW4 | 111375 | 1/4/1990 | 10:30 | 7.07 | | mg/l |
| MW4 | 114948 | 4/4/1990 | 13:30 | 7.09 | | mg/l |
| MW4 | 118816 | 7/10/1990 | 15:15 | 6.98 | | NA |
| MW4 | 122717 | 10/4/1990 | 11:15 | 6.99 | | NA |
| MW4 | 126422 | 1/10/1991 | 14:30 | 7.01 | | NA |
| MW4 | 129265 | 4/3/1991 | 16:00 | 6.91 | | NA |
| MW4 | 134160 | 7/2/1991 | 14:30 | 7.03 | | NA |
| MW4 | 141866 | 11/27/1991 | 11:45 | 6.90 | | NA |
| MW4 | 146201 | 2/27/1992 | 10:30 | 6.73 | | mg/l |
| MW4 | 149521 | 5/12/1992 | 11:50 | 7.35 | | mg/l |
| MW4 | 152981 | 8/5/1992 | 11:15 | 6.87 | | SU |
| MW4 | 157671 | 11/11/1992 | 9:15 | 6.70 | | SU |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that pH was not detected at the reported MDL.

U indicates that pH was not detected above the MDL.

J indicates that pH was detected below MDL and is estimated.

**Summary of Groundwater Analytical Results**
**pH**
Ingersoll Rand
Phillipsburg, New Jersey

| Field ID | Lab ID | Date | Time | Result | Q | Unit |
|---|---|---|---|---|---|---|
| MW5 | 88826 | 8/4/1988 | 0:00 | 6.42 | | mg/l |
| MW5 | 93480 | 10/19/1988 | 17:00 | 6.55 | | mg/l |
| MW5 | 96946 | 1/11/1989 | 0:00 | 7.26 | | mg/l |
| MW5 | 100601 | 4/20/1989 | 14:40 | 6.84 | | mg/l |
| MW5 | 104408 | 7/21/1989 | 0:00 | 6.81 | | mg/l |
| MW5 | 108059 | 10/18/1989 | 16:00 | 7.13 | | mg/l |
| MW5 | 111376 | 1/4/1990 | 14:45 | 7.13 | | mg/l |
| MW5 | 114950 | 4/4/1990 | 16:20 | 6.95 | | mg/l |
| MW5 | 118817 | 7/10/1990 | 11:45 | 7.05 | | NA |
| MW5 | 122718 | 10/4/1990 | 15:00 | 6.94 | | NA |
| MW5 | 126423 | 1/10/1991 | 16:30 | 6.85 | | NA |
| MW5 | 129266 | 4/3/1991 | 17:20 | 6.66 | | NA |
| MW5 | 134161 | 7/2/1991 | 17:00 | 7.02 | | NA |
| MW5 | 141867 | 11/27/1991 | 14:45 | 6.72 | | NA |
| MW5 | 146264 | 2/28/1992 | 11:45 | 7.11 | | NA |
| MW5 | 149707 | 5/18/1992 | 10:15 | 6.72 | | mg/l |
| MW5 | 153109 | 8/7/1992 | 10:45 | 7.34 | | SU |
| MW5 | 157931 | 11/13/1992 | 14:55 | 6.97 | | SU |
| MW6 | 141780 | 11/26/1991 | 9:30 | 7.73 | | mg/l |
| MW6 | 146086 | 2/26/1992 | 14:00 | 7.07 | | mg/l |
| MW6 | 149708 | 5/18/1992 | 12:00 | 6.94 | | mg/l |
| MW6 | 152980 | 8/5/1992 | 8:30 | 7.15 | | SU |
| MW6 | 157672 | 11/11/1992 | 11:35 | 7.06 | | SU |
| RW1 | 116208 | 5/4/1990 | 13:45 | 7.45 | | mg/l |
| RW11 | 141900 | 12/2/1991 | 14:45 | 7.92 | | ug/l |
| RW11 | 149563 | 5/13/1992 | 9:30 | 7.92 | | SU |
| RW11 | 152982 | 8/5/1992 | 14:10 | 7.65 | | SU |
| RW11 | 157673 | 11/11/1992 | 14:30 | 7.73 | | SU |
| RW14 | 141899 | 12/2/1991 | 10:00 | 7.92 | | NA |
| RW14 | 146087 | 2/26/1992 | 15:30 | 7.53 | | NA |
| RW14 | 149564 | 5/13/1992 | 11:30 | 7.50 | | SU |
| RW14 | 153108 | 8/7/1992 | 9:00 | 7.76 | | SU |
| RW14 | 157929 | 11/13/1992 | 9:45 | | U | ug/l |
| TH36 | 143553 | 12/31/1991 | 10:30 | 7.41 | | NA |
| TH36 | 149565 | 5/13/1992 | 14:30 | 7.45 | | SU |
| TH36 | 153186 | 8/10/1992 | 12:30 | 7.43 | | SU |
| TH36 | 157930 | 11/13/1992 | 11:35 | 7.23 | | SU |

**NOTES:**

Interp.R. = Interpreted Result (I.e., if not detected, then 1/2 MDL)

Q = Laboratory Qualifier

mg/l = milligrams per liter (parts per million)

Results in parenthesis indicate that pH was not detected at the reported MDL.

U indicates that pH was not detected above the MDL.

J indicates that pH was detected below MDL and is estimated.

# APPENDIX F

## Well Construction Variance

ENSR International
20 New England Avenue
Piscataway, New Jersey 08904
(732) 981-0200
FAX (732) 981-0116
www.ensr.com

November 22, 2004

Michael Miller
New Jersey Department of Environmental Protection
Bureau of Water Allocation
401 East State Street
P.O. Box 028
Trenton, New Jersey 08625

**RE: Request for Variance**
**Ingersoll Rand - Phillipsburg, NJ**
**(ENSR Project Number 03710-162)**

Dear Mr. Miller:

Based on site observations, monitoring well, MW-51, has collapsed due to the presence of a highly-fractured and chemically-weathered area of bedrock at approximately 130 feet below ground surface (bgs). ENSR is requesting a variance to install a new well using alternative construction methods to prevent the possibility to collapse. The new monitoring well, MW-51A, would be drilled within a 10 to 20 ft radius of MW-51 and is intended to intercept the same fracture zone in the bedrock.

ENSR proposes to install 25 feet of 6-inch diameter slotted steel casing at a proposed depth of 115 to 140 feet within a 10-inch diameter borehole. The slotted casing will allow for water infiltration while eliminating the potential of collapse. The remaining riser would be 6-inch diameter solid steel casing.

Packers or similar materials will be placed above the top of the slotted casing (within the annular space) to prevent sand or grouting material to infiltrate into the fracture zones. Approximately 2 feet of sand would be placed on the packers and the remaining annular space would be grouted to surface. Please find attached a diagram of the proposed well construction.

ENSR will not be able to conduct down-hole geophysical investigations due to the possibility of collapse.

In the past, attempts have been made to re-drill MW-51; however, the borehole continuously collapsed during the drilling activities. Therefore, ENSR is also proposing to abandon MW-51, by re-drilling to 155 ft and grouting to surface.

It is our intention to get NJDEP approval prior to determining a final well construction and abandonment. Based on our sampling schedule, well installation activities have been tentatively scheduled to begin the week of December 6, 2004 pending approval of this request for variance.

Please feel free to contact myself or Gregg Micalizio if you should have any questions or comments.

Sincerely,

Nadia S. Oliveira
Project Specialist

Gregg R. Micalizio
Project Manager

*j:\project\ingersoll rand\03710-162\aco\correspondence\mw-51 variance\request for variance 2004_rev.doc*

attachment

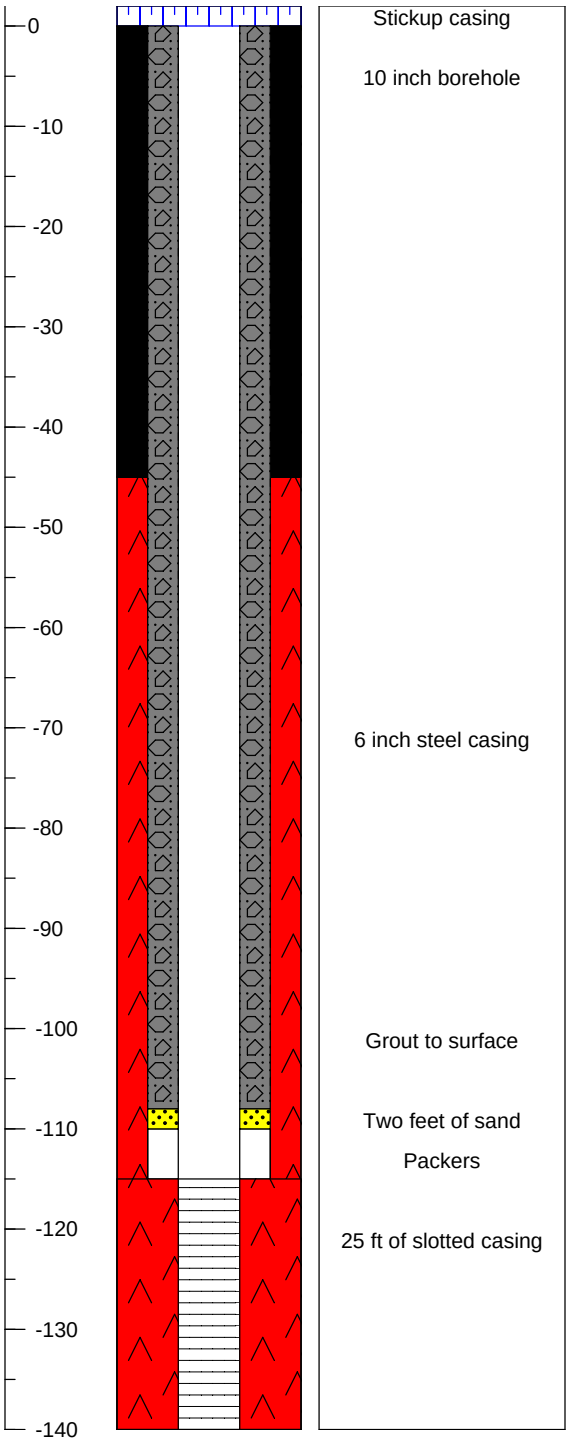
cc: David Sordi (IR)
Michael Assante (Plainfield Well Drilling)
Gary Sanderson (NJDEP)
David Froehlich (NJDEP)
File 03710-162-7.2

**Client:**
**Location:**
**Project #**
**Geologist:**
**Drilling Company:**
**Drilling Method:** Air Rotary

**Drilling Date:**
**Well Completion Date:**
**Borehole Depth:**
**State Plane X:**
**Y:**

# MW-51A

| Depth | Construction | Construction Description | Lithologic Description |
|---|---|---|---|




Proposed monitoring well construction if borehole collapses while drilling.
6 inch steel casing installed 115 ft into bedrock and with 25 ft of slotted casing.

**Notes:**