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Date: January 28, 2009
Refer To: EP2009-0013

James P. Bearzi, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Submittal of the Periodic Monitoring Report for Vapor-Sampling Activities at Material Disposal Area L, Technical Area 54, for Fiscal Year 2008

Dear Mr. Bearzi:

Enclosed please find two hard copies with electronic files of the Periodic Monitoring Report for Vapor-Sampling Activities at Material Disposal Area L, Technical Area 54, for Fiscal Year 2008.

If you have any questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Ed Worth at (505) 606-0398 (eworth@doeal.gov).

Sincerely,

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,

David R. Gregory, Project Director
Environmental Operations
Los Alamos Site Office

MG/DG/DM/SP:sm

Enclosures: 1) Two hard copies with electronic files - Periodic Monitoring Report for Vapor-Sampling Activities at Material Disposal Area L, Technical Area 54, for Fiscal Year 2008 (LA-UR-09-0516)

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LA-UR-09-0516
January 2009
EP2009-0013

Periodic Monitoring Report for Vapor-Sampling Activities at Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, for Fiscal Year 2008

Prepared by the Environmental Programs Directorate

LA-UR-09-0516
EP2009-0013

Periodic Monitoring Report for Vapor-Sampling Activities at Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, for Fiscal Year 2008

January 2009

Responsible project leader:

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EXECUTIVE SUMMARY

This periodic monitoring report summarizes pore-gas monitoring activities conducted during fiscal year (FY) 2008 at Material Disposal Area (MDA) L, Solid Waste Management Unit 54-006, in Technical Area 54 at Los Alamos National Laboratory. The objective of the monitoring is to evaluate concentration trends of volatile organic compounds (VOCs) and tritium in subsurface vapor at MDA L over time and over their distances from known VOC source areas.

Monitoring conducted in FY2008 included field screening of ports in the 27 existing boreholes at MDA L and the one open borehole and collecting pore-gas samples for laboratory analyses of VOCs and tritium from selected ports. Analytical results confirm the presence of VOCs and tritium in vapor samples.

Validated analytical results confirm the presence of two VOC source areas. VOC concentrations in each source area decrease from the base of the shafts and pit (where organic chemicals had been disposed of) to borehole total depth (TD). Field monitoring of pore gas from locations in angled boreholes drilled from the canyon into basalt under MDA L source areas also shows decreasing VOC analytical concentrations to angled borehole TD. Pore-gas results indicate that there is no immediate threat to groundwater from the VOC.

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1.0 INTRODUCTION

This report presents vapor-monitoring results for implementation of "Interm Subsurface Vapor-Monitoring Plan for Material Disposal Area L at Technical Area 54, Revison 1" (LANL 2007, 099372). Pore-gas screening and samping were conducted during all four quarters of fiscal year (FY) 2008.

Material Disposal Area (MDA) L, Solid Waste Management Unit (SWMU) 54-006, is located in the east-central portion of Los Alamos National Laboratory (LANL or the Laboratory) on Mesita del Buey (Figure 1.0-1). It consists of 1 inactive subsurface disposal pit (Pit A), 3 inactive subsurface treatment and disposal impoundments (Impoundments B, C, and D), and 34 inactive disposal shafts (Shafts 1 to 34). Shaft 35 was never constructed. Shafts 36 and 37 are the former lead-stringer shafts that are undergoing Resource Conservation and Recovery Act (RCRA) closure and are not part of SWMU 54-006. MDA L is relatively flat, and most of the overlying surface is paved with asphalt to house ongoing waste-management activities, including the storage of chemical, hazardous, and mixed low-level wastes managed within container storage units.

During the late 1950s, the Laboratory, with the approval of the U.S. Atomic Energy Commission and on recommendation of the U.S. Geological Survey, selected Mesita del Buey within Technical Area 54 (TA-54) for underground disposal of Laboratory-generated waste (Rogers 1977, 005707; Rogers 1977, 005708, p. G-1). Since then, the main waste storage and disposal facilities for the Laboratory have been located at TA-54. MDA L is one of four inactive disposal areas on Mesita del Buey, which is bounded by Pajarito Canyon to the south and Cañada del Buey to the north.

MDA L was used for disposal of nonradiological liquid-chemical waste, including containerized and uncontainerized liquid wastes; bulk quantities of treated aqueous waste; batch-treated salt solutions; electroplating wastes (including precipitated heavy metals); and small-batch quantities of treated lithium hydride. MDA L operated from the early 1960s to 1985 when it was decommissioned (i.e., removed from service).

One pit, 3 impoundments, and 34 shafts were excavated into the overlying soil and unit 2 of the Tshirege Member of the Bandelier Tuff at MDA L. The site features are shown in Figure 1.0-2. The subsurface disposal units range in depth from 10 to 65 ft below the original ground surface. The regional aquifer is estimated to be at a depth of approximately 930 ft below ground surface (bgs), based on data from other wells at the Laboratory and the predictions of the hydrogeologic conceptual model for the Pajarito Plateau (LANL 1998, 059599). The pit, impoundments, and shafts were unlined. The bottoms of the pit and impoundments were level so liquid could spread over the entire surface area to facilitate evaporation. After they were decommissioned, the pit and impoundments were filled and covered with clean, crushed consolidated tuff. The bottom of each shaft was covered with 3 ft of crushed tuff to seal cracks and joints and a steel cap was placed over the opening. When the shafts were filled to within approximately 3 ft of the surface, they were capped with a 3-ft concrete plug (LANL 1992, 007669, p. 5-108).

Pore-gas monitoring at MDA L consists of screening 187 completed sample ports from 27 boreholes and 1 open borehole (location 54-24399). VOC and tritium samples are collected from each unit in 24 of the completed boreholes, which amounts to sampling 85 ports. Samples are also collected from 550 to 608 ft bgs from open borehole location 54-24399.

Since 1985, pore-gas monitoring has been required at MDA L. A summary of monitoring at MDA L follows.

- In 1985, the Laboratory received a compliance order from the New Mexico Environment Department (NMED) stipulating, among other requirements, characterization of pore gas at Areas G and L. The Laboratory installed seven vapor-monitoring wells to characterize pore gas.
- From 1986 to 1990, the Laboratory voluntarily installed 22 additional vapor-monitoring wells to characterize the volatile organic compound (VOC) plumes at Areas G and L.
- In 1990, the U.S. Environmental Protection Agency (EPA) issued Module VIII of the Laboratory's Hazardous Waste Facility Permit. Module VIII included requirements for quarterly pore-gas sampling at MDAs G and L as input into the RCRA facility investigation.
- In March 2005, the Compliance Order on Consent (the Consent Order) required pore-gas monitoring during the site investigations for all MDAs and required the submittal of a long-term, pore-gas monitoring plan for each MDA.
- In September 2005, the Laboratory submitted a proposed long-term monitoring plan for pore gas in Appendix I of the MDA L investigation report (LANL 2005, 092591).
- During June and July 2006, a soil-vapor extraction pilot study was conducted at MDA L. An estimated 800 lb of VOCs was removed from the eastern and western source areas (LANL 2006, 094152).
- During February and March 2007, three boreholes were drilled into the basalt at Area L, the core from each borehole was analyzed, and the boreholes were constructed as vapor-monitoring wells to characterize the VOC plume.
- In July 2007, the Laboratory received an Approval with Direction regarding the long-term subsurface vapor-monitoring plan, provided as Appendix I to the MDA L investigation report that required the Laboratory to submit a table indicating locations and port depths to be sampled (NMED 2007, 098409).
- In August 2007, the Laboratory submitted the "Interm Subsurface Vapor-Monitoring Plan for Material Disposal Area L at Technical Area 54," which included a table indicating locations and port depths to be sampled during pore-gas monitoring activities for FY2008 (LANL 2007, 098712).
- In September 2007, the Laboratory received a notice of disapproval (NOD) pertaining to the August 2007 interim plan (NMED 2007, 098559).
- In October 2007, the Laboratory submitted the "Interm Subsurface Vapor-Monitoring Plan for Material Disposal Area L at Technical Area 54, Revison 1" addressing NMED's directions provided in the September 2007 NOD (LANL 2007, 099372).
- In November 2007, the Laboratory received an approval with modifications on the revised interim monitoring plan. The modifications required increasing the number of boreholes to be screened and sampled (NMED 2007, 098999).
- In January 2008, the Laboratory submitted a proposed long-term, subsurface vapor-monitoring plan for MDA L in Appendix H of the MDA L Corrective Measures Evaulation Plan (LANL 2008, 101718).

- In May 2008, in response to NMED comments on the "Material Disposal Area L Interm Vapor-Monitoring Plan," the Laboratory submitted a revised table of pore-gas monitoring locations to NMED. Samples for VOCs and tritium needed to be taken in each geologic unit. Where two or more ports were constructed in the same geologic unit, the port closest to the base of the disposal pits was to be sampled (Table 1.0-1) (McInroy 2008, 104475).

Because sampling methods and resulting data quality have changed substantially over the years, pore-gas data before 1996 were used only semiquantitatively in the MDA L investigation work plan (LANL 2004, 087624). Data collected from 1997 to the present have been subjected to rigorous quality assurance/quality control (QA/QC) procedures. The pore-gas monitoring data for MDA L indicate that VOCs are the primary chemicals of potential concern in the subsurface at MDA L. The chemicals of concern include 1,1,1-trichloroethane (TCA), the predominant VOC detected, followed by trichloroethene (TCE), tetrachloroethene (PCE), and tritium.

Information on radioactive materials and radionuclides, including the results of sampling and analysis of radioactive constituents, is voluntarily provided to NMED in accordance with U.S. Department of Energy policy.

Analyses of the pore-gas monitoring data indicate that two sources of the subsurface vapor-phase VOC plume are present. The two unique sources are identified as western source area (shaft fields 1 to 28) and the eastern source area (shaft fields 29 to 34). Both source areas are dominated by the presence of TCA. Vertically, the plume extends between ground surface and the top of the basalt (approximately 320 ft bgs); laterally, the plume extends north-south about 1000 ft and east-west to the width of the mesa (approximately 450 ft). The plume is changing little over time in area, contaminant concentrations, or composition (LANL 2008, 101718).

2.0 SCOPE OF ACTIVITIES

The August 2007 "Interm Subsurface Vapor-Monitoring Plan for Material Disposal Area L at Technical Area 54" presented a table indicating locations and port depths to be sampled during pore-gas monitoring activities for FY2008 (LANL 2007, 098712). Pore-gas sampling for first and second quarters had access to the table submitted with this revision of the vapor-monitoring plan. In May 2008, in response to NMED comments, the Laboratory submitted a revised table of pore-gas monitoring locations to NMED. Samples for VOCs and tritium had been taken in each geologic unit. Where two or more ports were constructed in the same geologic unit, the port closest to the base of the disposal pits was to be sampled (Table 1.01) (McInroy 2008, 104475). Pore-gas sampling for third and fourth quarters used the table submitted with revison 1 of the vapor-monitoring plan.

During FY2008, the following subsurface vapor field-screening and sampling activities were completed at MDA L.

- During the first quarter (December 17 to 21, 2007), pore-gas screening at MDA L was conducted at 20 boreholes. VOC samples were collected from sampling ports of 11 boreholes, and tritium samples were collected from sampling ports of 3 boreholes (Table 2.0-1).
- During the second quarter (March 24 to May 2, 2008), pore-gas screening at MDA L was conducted at 24 boreholes. VOC samples were collected from sampling ports of 23 boreholes and from the 505- to 608-ft-depth interval using an inflatable packer sampling system. Tritum samples were collected from sampling ports of 21 boreholes (Table 2.0-2).

- During the third quarter (May 16 to June 24, 2008), pore-gas screening at MDA L was conducted at 26 boreholes. VOC samples were collected from sampling ports of 23 boreholes and from the 505- to 608-ft-depth interval within borehole location 54-24399 using an inflatable packer sampling system. Tritum samples were collected from sampling ports of 22 boreholes and from the 505- to 608-ft-depth interval within borehole location 54-24399 using an inflatable packer sampling system (Table 2.0-3).
- During the fourth quarter (August 6 to September 19, 2008), pore-gas screening at MDA L was conducted at 24 boreholes. VOC samples were collected from sampling ports of 23 boreholes and from the 505- to 608-ft-depth interval using an inflatable packer sampling system. Tritum samples were collected from sampling ports of 19 boreholes and from the 505- to 608-ft-depth interval using an inflatable packer sampling system (Table 2.0-4).

No investigation-derived waste was generated during the quarterly monitoring activities.

2.1 FY2008 Deviations

Pore-gas monitoring during the first and second quarters predated the NMED-approved Table 1.0-1, indicating the samples for VOCs and tritium that needed to be taken in each geologic unit. Tables 2.0-1 and 2.0-1 present the port depths and locations sampled during first and second quarters of FY2008.

The approved monitoring locations for third quarter are shown in Table 1.0-1. Four deviations occurred during the third quarter of pore-gas sampling. The 40-ft port depth in borehole location 54-02002 was blocked, so the 60-ft port depth was sampled for VOCs; the 120-ft port depth in borehole location 54-02024 was blocked, so the 140-ft port depth was sampled for VOCs; the FLUTe membrane in borehole 54-24244 is damaged beyond repair so was not sampled for VOCs or tritium. Tritium sampling of borehole location 54-02021 was not conducted. Sampled port depths and locations are presented in Table 2.0-3.

The approved monitoring locations for fourth quarter are shown in Table 1.0-1. Eight deviations occurred during the fourth quarter of pore-gas sampling. The 18-ft port depth was sampled for VOCs instead of the 31-ft port depth in borehole location 54-02016. The 120-ft port depth in borehole location 54-02024 was blocked, so the 140-ft port depth was sampled for VOCs. The 13-ft port depth was sampled for VOCs instead of the 31-ft port depth in borehole location 54-02089. The FLUTe membrane in borehole location 54-24244 is damaged beyond repair and was not sampled for VOCs or tritium. Tritium sampling of borehole locations 54-02002, 54-02025, 54-24243, and 54-27643 were not conducted. Sampled port depths and locations are presented in Table 2.0-4.

2.2 Vapor-Monitoring Changes since FY2007

The number of ports screened and sampled in support of MDA L subsurface vapor sampling changed from FY2007 to FY2008. In FY2007, 35 boreholes were field screened, and 10 boreholes were sampled over the course of three quarters. The number of boreholes field screened and sampled changed each quarter. Pore-gas screening and sampling for FY2007 occurred during the second, third, and fourth quarters. In FY2008, 26 boreholes were field screened, and 23 boreholes were sampled over the course of four quarters. The number of boreholes field screened and sampled changed each quarter. Tables 2.0-1 to 2.0-4 show the boreholes and port depths screened and sampled.

3.0 REGULATORY CRITERIA

The Consent Order does not identify any cleanup standards, risk-based screening levels (SLs), risk-based cleanup goals, or other regulatory criteria for pore gas at MDA L. Therefore, an analysis was conducted to evaluate the potential for contamination of groundwater by VOCs in pore gas using SLs based on groundwater cleanup levels provided in the Consent Order. The analysis evaluated the groundwater concentration that will be in equilibrium with the maximum concentration of VOCs detected at MDA L during the most recent round of monitoring.

C_{water} = C_{air}/Henry's law constant (H') **Equation 3.0-1**

Where

C_{water} = the volumetric concentration of contaminant in water, and

C_{air} = is the volumetric concentration of contaminant in air.

If the predicted concentration of a particular VOC in groundwater is less than the SL, then no potential exists for exceedances of groundwater cleanup levels. An analysis of the MDA L data is presented in section 5.0.

Because there are no SLs for pore gas that address the potential for groundwater contamination, the screening evaluation was based on groundwater standards or tap water SLs and Henry's law constants that describe the equilibrium relationship between vapor and water concentrations. The source of the Henry's law constants is the NMED soil-screening level technical background document (NMED 2006, 092513). The following dimensionless form of Henry's law constant was used:

$$H' = \frac{C_{air}}{C_{water}}$$ **Equation 3.0-1**

Where C_{air} is the volumetric concentration of contaminant in air and C_{water} is the volumetric concentration of contaminant in water. Equation 3.0-1 can be used to calculate the following screening value (SV):

$$SV = \frac{C_{air}}{1{,}000 \times H' \times SL}$$ **Equation 3.0-2**

Where C_{air} is the concentration of VOC in the pore-gas sample (µg/m^3), H' is the dimensionless Henry's law constant, SL is the screening level (µg/L), and 1000 is a conversion factor from L to m^3. The SLs are groundwater standards or tap water SLs. These levels are the EPA maximum contaminant level (MCL) or New Mexico Water Quality Control Commission (NMWQCC) groundwater standard, whichever is lower. As specified in the Consent Order, if there is no MCL or NMWQCC standard, the EPA regional tap water SL (http://www.epa.gov/region09/superfund/prg/pdf/composite_sl_table_run_12SEP2008.pdf) is used and adjusted to 10^{-5} risk for carcinogens. The numerator in Equation 3.0-2 is the actual VOC concentration in pore gas, and the denominator represents the concentration in pore gas needed to exceed the SV. Therefore, if the SV is less than 1, the concentration of VOC in pore gas would not be sufficiently high to cause the SL to be exceeded, even if the VOC plume were in contact with groundwater. Table 3.0-1 presents the concentrations of contaminants in pore gas that would exceed groundwater standards. Therefore, if the SV is less than 1, the concentration of VOC in pore gas would not be sufficiently high to cause the water SL to be exceeded, even if the VOC plume were in contact with groundwater.

4.0 MONITORING RESULTS

Monitoring activities were performed at MDA L from December 17 to December 21, 2007 (first quarter of FY2008), from March 24 to April 9, 2008 (second quarter of FY2008); from May 16 to June 16, 2008 (third quarter of FY2008); and from August 6 to September 3, 2008 (fourth quarter of FY2008). Monitoring at MDA L included field screening of subsurface vapor for VOCs, water vapor, percent carbon dioxide (CO_2), and oxygen (O_2).

FY2008 subsurface vapor monitoring was conducted at the locations and depths described in section 2.0 and shown in Tables 2.0-1 to 2.0-4. Before sampling, each interval was purged in accordance with EP-ERSS-SOP-5074, Sampling for Sub-Atmospheric Air, to ensure formation air was being collected. The vapor from each port was field screened using a Landtec GEM-500 photoionization detector equipped with an 11.7-eV lamp for percent CO2 and O2. Each interval was purged with the Landtec until CO2 and O2 readings stabilized. The stabilized percent CO2 and O2 values from the FY2008 monitoring event performed at each sampling location are shown in Table 4.0-1. After purging and stabilization, VOC field-screening results were collected using a Brüel and Kræjer (B&K) Type 1302 multigas photoacoustic analyzer to estimate contaminant concentrations. The B&K is calibrated for analysis of four organic chemicals: trichlorofluoromethane (Freon-11), PCE, TCA, and TCE. The stabilized B&K field-monitoring values in parts per million are provided in Table 4.0-2. The field-screening QA/QC program followed is presented in Appendix B.

Not all sampling ports produced adequate airflow to collect Landtec or B&K field-screening measurements because some ports were blocked. Tables 2.0-1 to 2.0-4 indicate which ports were not able to be sampled because of blockage.

5.0 ANALYTICAL DATA RESULTS

This section presents a summary of FY2008 VOC and tritium pore-gas data and an evaluation of the pore-gas VOC data.

5.1 Summary of Pore-Gas Data

Subsurface vapor samples were collected at MDA L from December 17 to December 21, 2007 (first quarter of FY2008); from March 24 to May 2, 2008 (second quarter of FY2008); from May16 to June 24, 2008 (third quarter of FY2008); and from August 6 to September 19, 2008 (fourth quarter of FY2008) in SUMMA canisters submitted for laboratory analysis of VOCs using EPA Method TO-15 and in silica gel cartridges for submittal for laboratory analysis of tritium using EPA Method 906.0.

VOC analytical data from these sampling events are presented in Table 5.1-1. Tritium analytical data from these sampling events are presented in Table 5.1-2. The QA/QC program used to review the data is presented in Appendix B. Analytical Data and Reports for Fiscal Year 2008 are included in Appendix C (on DVD included with this document).

During FY2008, 32 different VOCs were detected at least once in vapor samples collected from MDA L. TCA was detected in 285 of the 288 samples analyzed and was the VOC detected at the highest concentration. TCA was detected at a concentration of 3,500,000 µg/m^3 in borehole location 54-27642 at 27.5 ft bgs during the second quarter of FY2008 and at the same concentration in the same borehole at 113.5 ft bgs during the third quarter. TCE; 1,1-dichloroethene (DCE); 1,1,2-trichloro-1,2,2-trifluoroethane; PCE, and 1,1-dichloroethane (DCA) were also detected in at least 250 of the 288 samples analyzed.

Tritium was detected in 153 of the 267 samples analyzed at concentrations ranging from 542,010 to 66.97 pCi/L. The maxium tritium concentration was detected during the third quarter sampling event at borehole location 54-24243 at a depth of 74 ft bgs.

Concentrations of VOCs detected in analyzed samples reached a maximum concentration between 65 and 120 ft bgs near the depths of the base of the shafts and pit. Concentrations of these analytes decrease with depth. All boreholes from which analytical samples were collected were sampled at multiple depths with the exception of borehole location 54-24399, an open borehole, and borehole location 54-24238, where only one depth was sampled. The samples from each borehole show concentrations of contaminants decreasing with depth.

Concentrations of contamininants periodically sampled from 2005 to 2008 are shown in Figures 5.1-1 to 5.1-6. Trends of VOC concentrations are consistent with a diffusive plume behavior (Stauffer et al. 2000, 069794).

TCA concentrations at borehole locations 54-27643, 54-27641, 54-24399, and 54-24239 have been relatively stable since sampling began in 2007. Borehole location 54-02001 showed stable TCA concentrations since 2005. Borehole location 54-02002 showed a slight decrease of TCA concentrations during 2005 sampling, a slight increase in early 2008, and then a slight decrease later in 2008. Borehole location 54-24243 showed a slight decrease of TCA concentrations. Borehole location 54-27642 showed a slight increase of TCA concentrations. Borehole location 54-02031 showed a steep increase of TCA concentration in 2005 followed by a steep decrease in 2008 where TCA appears to stabilize. The steep increase appears to be an outlier when viewing the rest of the results (Figure 5.1-1).

TCE concentrations at borehole locations 54-24243, 54-27643, 54-24239, and 54-27641 were relatively stable and showed a slight increase in 2008. TCE concentrations at borehole location 54-27643 were stable. TCE concentrations at borehole location 54-02031 increased in 2005 then gradually decreased in 2008 where they appeared to stabilize. TCE concentrations at borehole location 54-02001 were stable until 2008 when concentrations decreased then increased. Borehole location 54-02002 showed a steep decrease in TCE concentrations in 2005; concentrations became stable after the initial decrease (Figure 5.1-2).

Concentrations of PCE at borehole locations 54-27643, 54-27641, 54-24399, and 54-02002 were relatively stable. As with the TCA concentration trend, borehole location 54-02031 showed a steep increase of PCE concentration in 2005 then a steep decrease in 2008 where PCE concentration appears to stabilize. Borehole location 54-24239 showed increasing and decreasing concentrations of PCE over time. Borehole location 54-02001 had relatively stable PCE concentrations with slight increases and decreases (Figure 5.1-3).

Concentrations of DCA at borehole locations 54-02031 and 54-02002 showed relatively stable results from 2005 to 2008. Concentrations of DCA at borehole locations 54-24243 and 54-24239 showed relatively stable results from 2007 to 2008. DCA concentrations in borehole location 54-02001 showed a steep decrease from 2005 to 2008 and then a slight increase (Figure 5.1-4).

DCE concentrations at borehole locations 54-27643, 54-27642, 54-24399, and 54-27641 showed stable results since 2007. Borehole location 54-02031 had a slight increase of DCE concentration in 2005 which decreases in 2008. Borehole location 54-02002 had relatively stable concentrations of DCE until 2008 when there was a sharp increase and then a sharp decrease. This could be an outlier result. Borehole location 54-02001 showed an increase of DCE concentration from 2005 to 2007 and then a decrease in 2008. Borehole location 54-24239 has relatively stable DCE concentrations with a slight increase and decrease. Borehole location 54-24243 DCE concentration results show a sharp increase in 2007, with a sharp decrease in 2008, followed by another sharp increase in 2008 (Figure 5.1-5).

Concentrations of 1,1,2-trichloro-1,2,2-trifluoroethane in borehole locations 54-27643, 54-27641, 54-24239, 54-24399, and 54-02031 were relatively stable over time. Borehole location 54-27642 showed a gradual increase of 1,1,2-trichloro-1,2,2-trifluoroethane concentrations from 2007 to 2008. Borehole location 54-24243 showed a gradual decrease of 1,1,2-trichloro-1,2,2-trifluoroethane concentrations from 2007 to 2008. Concentrations of 1,1,2-trichloro-1,2,2-trifluoroethane in borehole location 54-02002 showed a steep decrease in 2005 around the same time TCA and PCE showed a steep increase; the concentration then slightly increased and decreased again in 2008 (Figure 5.1-6).

5.2 Evaluation of VOC Pore-Gas Data

The VOC results from all four quarters of monitoring were screened to evaluate whether the concentrations of VOCs are a potential source of groundwater contamination. Because there are no SLs for pore gas that address the potential for groundwater contamination, the screening evaluation was based on groundwater standards or tap water SLs and Henry's law constants that describe the equilibrium relationship between vapor and water concentrations.

Equation 3.0-2 was used to screen the maximum concentrations of VOCs detected in pore-gas samples at MDA L during FY2008 sampling. The evaluation included the 29 VOCs detected for which there are MCLs, NMWQCC standards, or EPA regional tap water SLs. Table 5.2-1 shows the maximum concentrations of 12 VOCs resulting in SVs greater than 1. These VOCs are benzene, carbon tetrachloride, chloroform, DCA, 1,2-dichlorodifluoromethane, DCE, 1,2-dichloropropane, methlyene chloride, PCE, tetrahydrofuran, TCA, and TCE; 1,2-dichloroethane had the highest SV (2300). Because some SVs exceeded 1, further screening was performed using the concentrations from the deepest pore-gas sample (i.e., the sample collected closest to the regional aquifer). The deepest sample was collected from borehole location 54-24399 at a depth interval of 505 to 608 ft and had 11 VOCs detected. The results of this screening show that all concentrations from the deep sample resulted in SVs below 1. Based on this evaluation, the concentrations of VOCs in pore gas at MDA G do not pose an immediate potential source of groundwater contamination.

6.0 SUMMARY

The purpose of field screening and monitoring at MDA L is to identify changes in the configuration of the plumes, monitor changes in contaminant concentration distribution, and to identify data-gap needs for future modeling or trend analyses.

The results from the first, second, third, and fourth quarter events of FY2008 are summarized as follows.

- VOC concentrations at MDA L are consistent with a diffusive plume.
- VOC concentrations increase from ground surface to the base of the units where VOCs were disposed of.
- VOC concentrations decrease with depth from the base of the disposal units to borehole total depth (TD).
- VOC measurements over the last 10 yr show a decrease in contaminant concentrations near the source areas and an increase in contaminant concentrations at a distance from the source areas.
- VOC concentrations close to the source areas and at a distance from the source areas are moving toward equilibrium.

- VOC concentrations measured below the central portion of each source area in the basalt are below SL concentrations derived from groundwater cleanup standards.
- Tritium was detected in 153 of the 267 samples analyzed during FY2008 at concentrations ranging from 542,010 to 66.97 pCi/L.

7.0 REFERENCES AND DATA SOURCES

7.1 References

The following list includes all documents cited in this report. Parenthetical information following each reference provides the author(s), publication date, and ER ID. This information is also included in text citations. ER IDs are assigned by the Environmental Programs Directorate's Records Processing Facility (RPF) and are used to locate the document at the RPF and, where applicable, in the master reference set.

Copies of the master reference set are maintained at the NMED Hazardous Waste Bureau and the Directorate. The set was developed to ensure that the administrative authority has all material needed to review this document, and it is updated with every document submitted to the administrative authority. Documents previously submitted to the administrative authority are not included.

LANL (Los Alamos National Laboratory), May 1992. "RFI Work Plan for Operable Unit 1148," Los Alamos National Laboratory document LA-UR-92-855, Los Alamos, New Mexico. (LANL 1992, 007669)

LANL (Los Alamos National Laboratory), May 22, 1998. "Hydrogeologic Workplan," Los Alamos National Laboratory document LA-UR-01-6511, Los Alamos, New Mexico. (LANL 1998, 059599)

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NMED (New Mexico Environment Department), November 8, 2007. "Approval with Modifications for the Interim Subsurface Vapor-Monitoring Plan for Material Disposal Area (MDA) L, Solid Waste Management Unit 54-006, at Technical Area 54, Revision 1," New Mexico Environment Department letter to D. Gregory (DOE-LASO) and D. McInroy (LANL) from J.P. Bearzi (NMED-HWB), Santa Fe, New Mexico. (NMED 2007, 098999)

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7.2 Map Data Sources

Data sources used in original figures created for this report are described below and identified by legend title.

Legend Item	Data Source
Disposal pit/ impoundment	Waste Storage Features; LANL, Environment and Remediation Support Services Division, GIS/Geotechnical Services Group, EP2007-0032; 1:2,500 Scale Data; 13 April 2007.
Disposal shaft	Waste Storage Features; LANL, Environment and Remediation Support Services Division, GIS/Geotechnical Services Group, EP2007-0032; 1:2,500 Scale Data; 13 April 2007.
Elevation contour	Hypsography, 10, 20, & 100 Foot Contour Intervals; LANL, ENV Environmental Remediation and Surveillance Program; 1991.
Fence	Security and Industrial Fences and Gates; LANL, KSL Site Support Services, Planning, Locating and Mapping Section; 06 January 2004; as published 10 September 2007.
LANL boundary	LANL Areas Used and Occupied; LANL, Site Planning & Project Initiation Group, Infrastructure Planning Division; 19 September 2008.
Material disposal area	Materials Disposal Areas; LANL, ENV Environmental Remediation and Surveillance Program; ER2004-0221; 1:2,500 Scale Data; 23 April 2004.
Paved road	Paved Road Arcs; Los Alamos National Laboratory, KSL Site Support Services, Planning, Locating and Mapping Section; 06 January 2004; as published 10 September 2007.
Structure	Structures; LANL, KSL Site Support Services, Planning, Locating and Mapping Section; 06 January 2004; as published 10 September 2007.
TA boundary	Technical Area Boundaries; LANL, Site Planning & Project Initiation Group, Infrastructure Planning Division; 19 September 2007.
Unpaved road	Dirt Road Arcs; LANL, KSL Site Support Services, Planning, Locating and Mapping Section; 06 January 2004; as published 10 September 2007.
Vapor monitoring well	Point Feature Locations of the Environmental Restoration Project Database; LANL, Environment and Remediation Support Services Division, EP2007-0754; 30 November 2007.

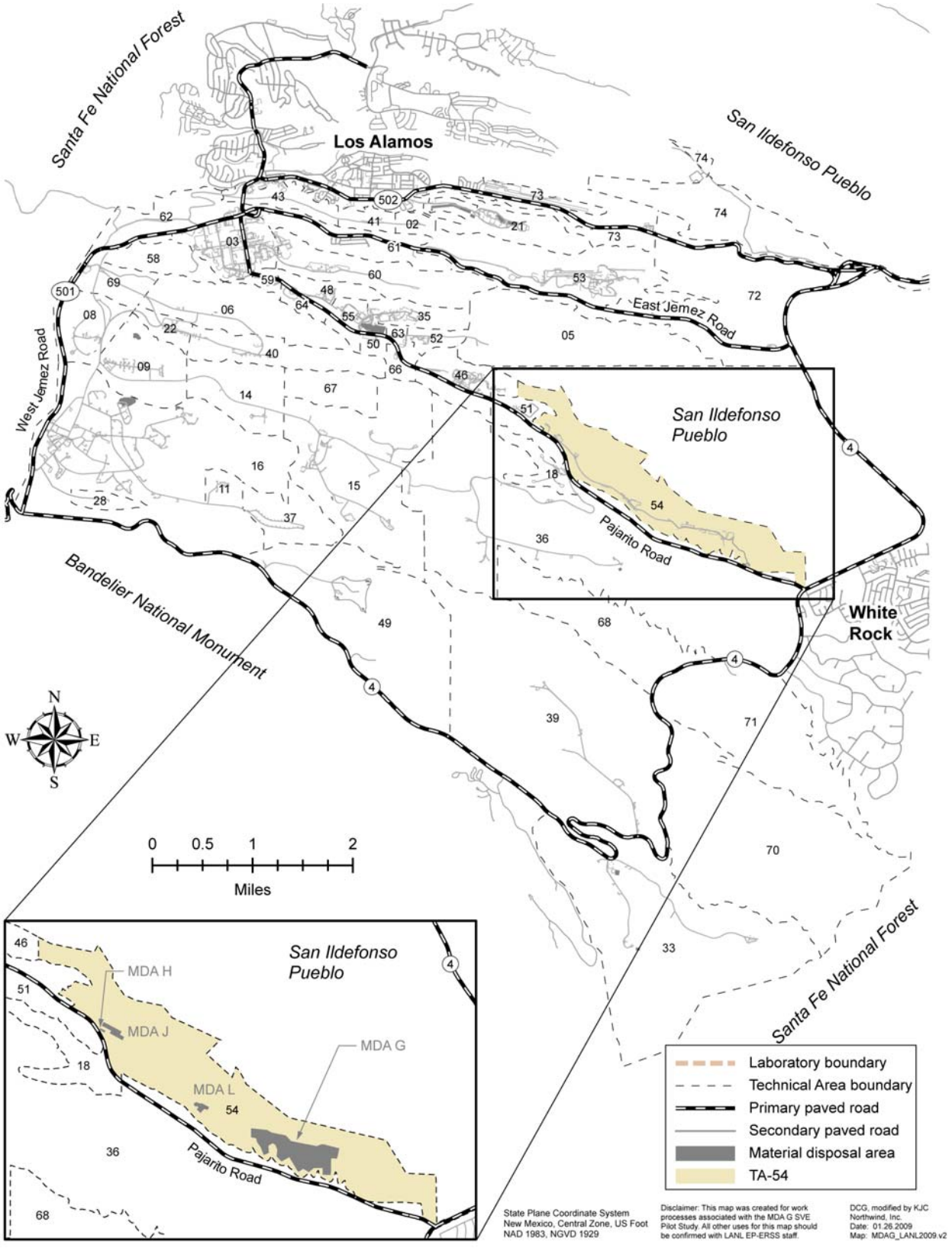

Figure 1.0-1 Location of MDA L in TA-54 with respect to Laboratory TAs and surrounding land holdings

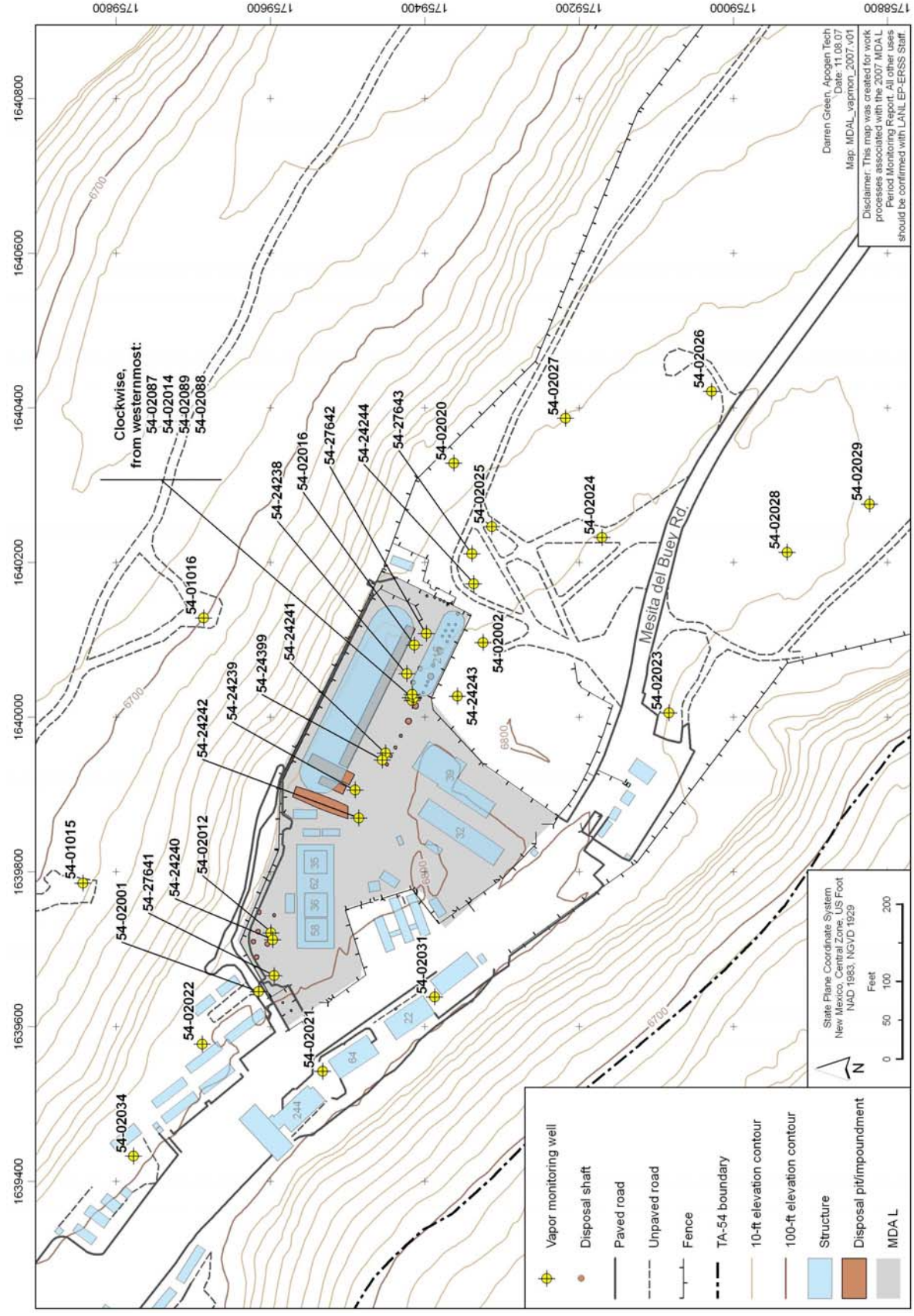

Figure 1.0-2 Locations of MDA L pore-gas monitoring boreholes

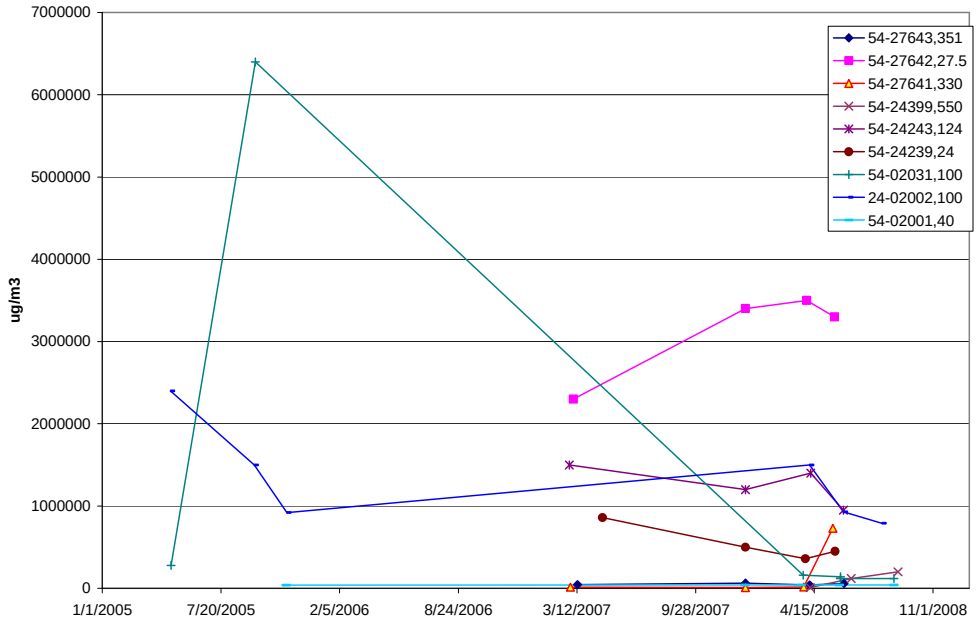

Figure 5.1-1 Trends in detected TCA concentrations from TO-15 analyses collected from 2005 to 2008

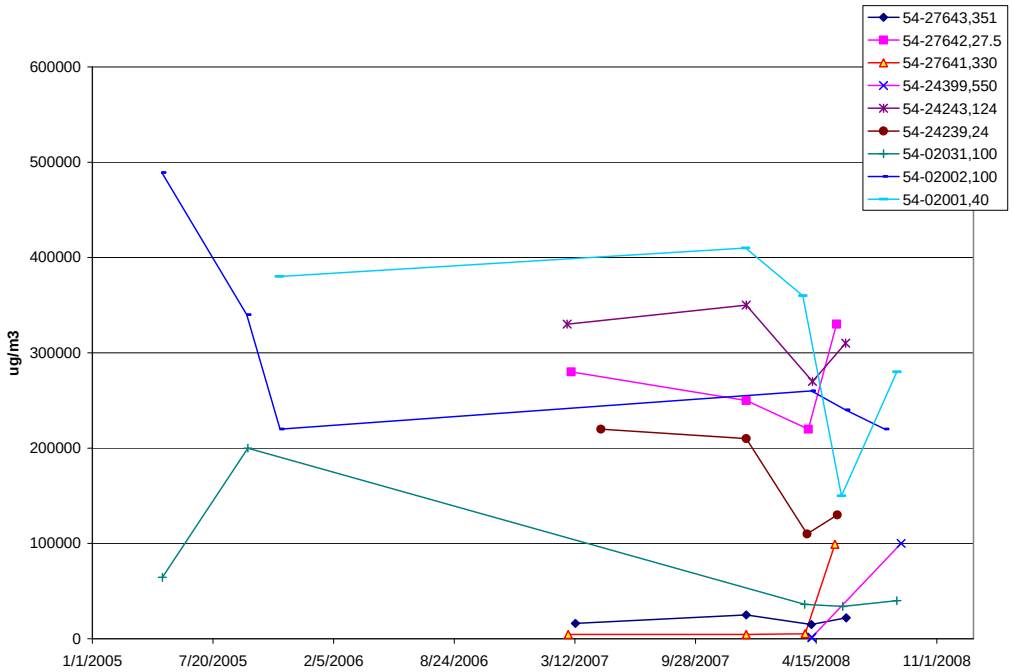

Figure 5.1-2 Trends in detected TCE concentrations from TO-15 analyses collected from 2005 to 2008

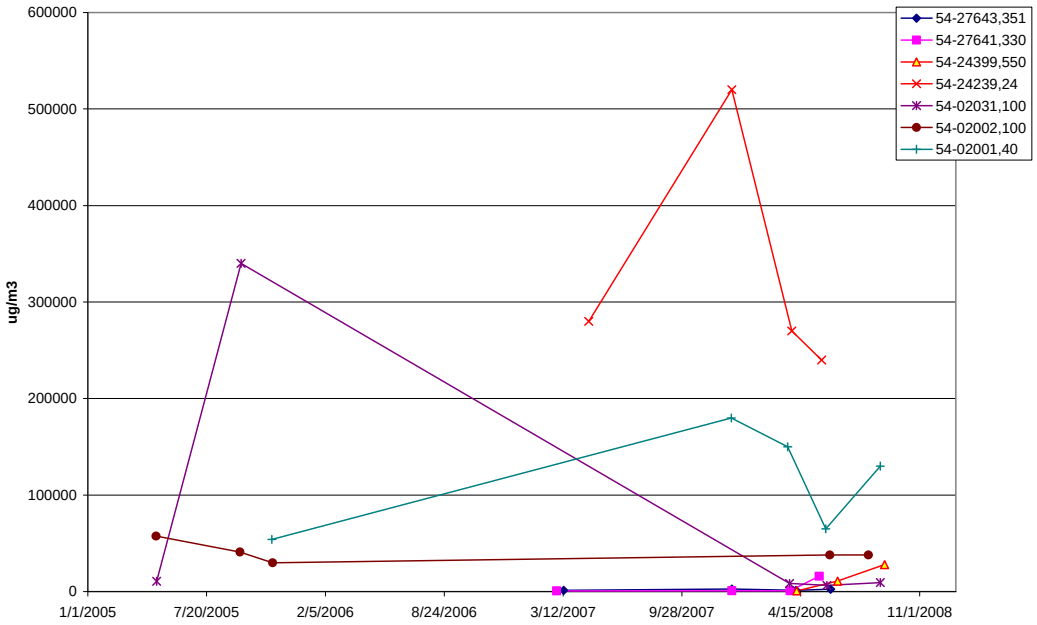

Figure 5.1-3 Trends in detected PCE concentrations from TO-15 analyses collected from 2005 to 2008

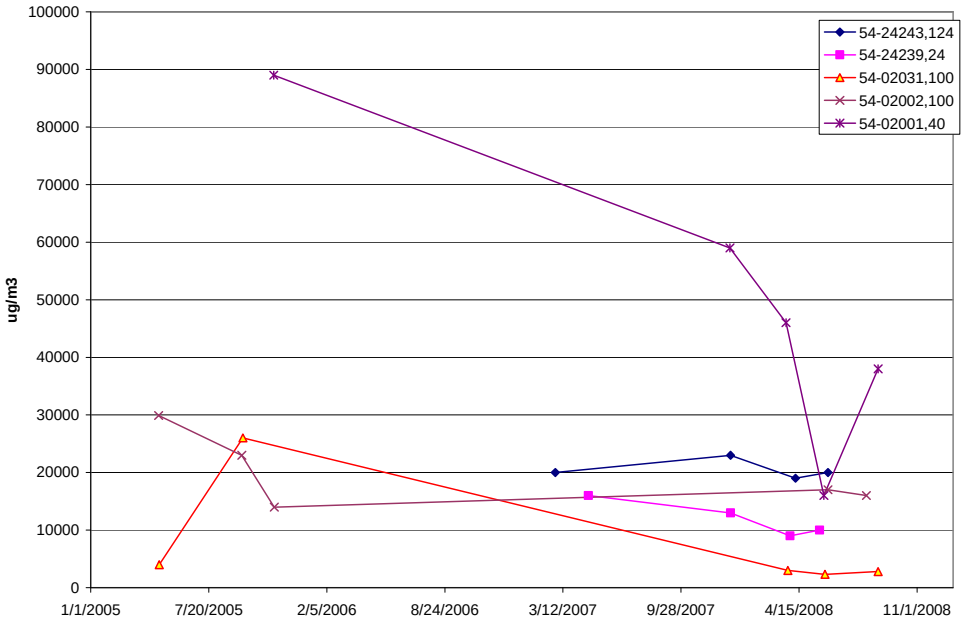

Figure 5.1-4 Trends in detected DCA concentrations from TO-15 analyses collected from 2005 to 2008

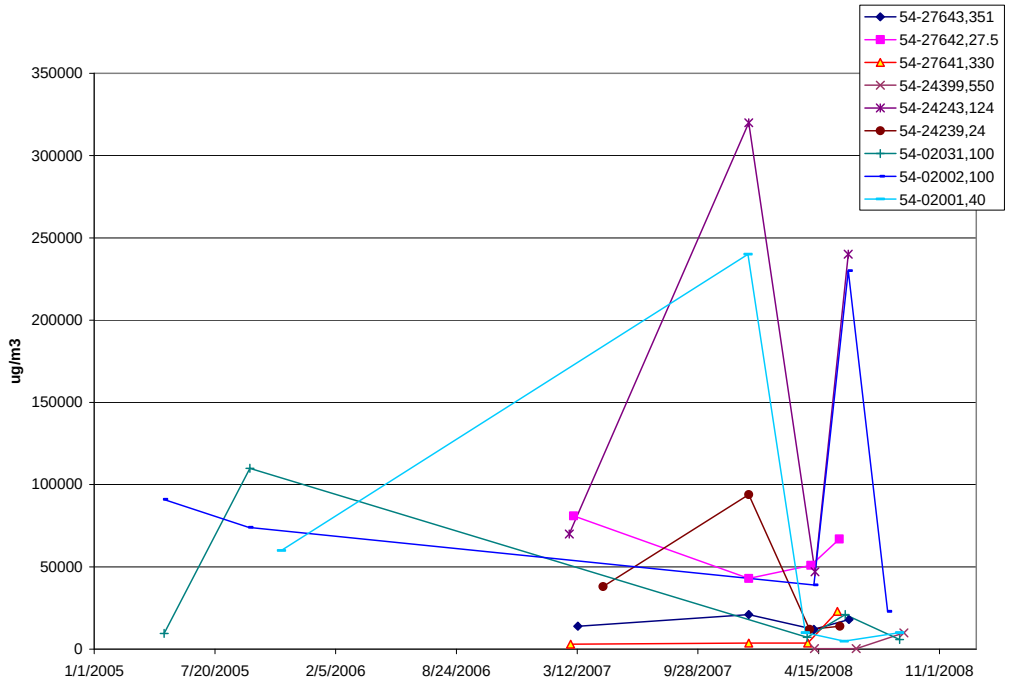

Figure 5.1-5 Trends in detected DCE concentrations from TO-15 analyses collected from 2005 to 2008

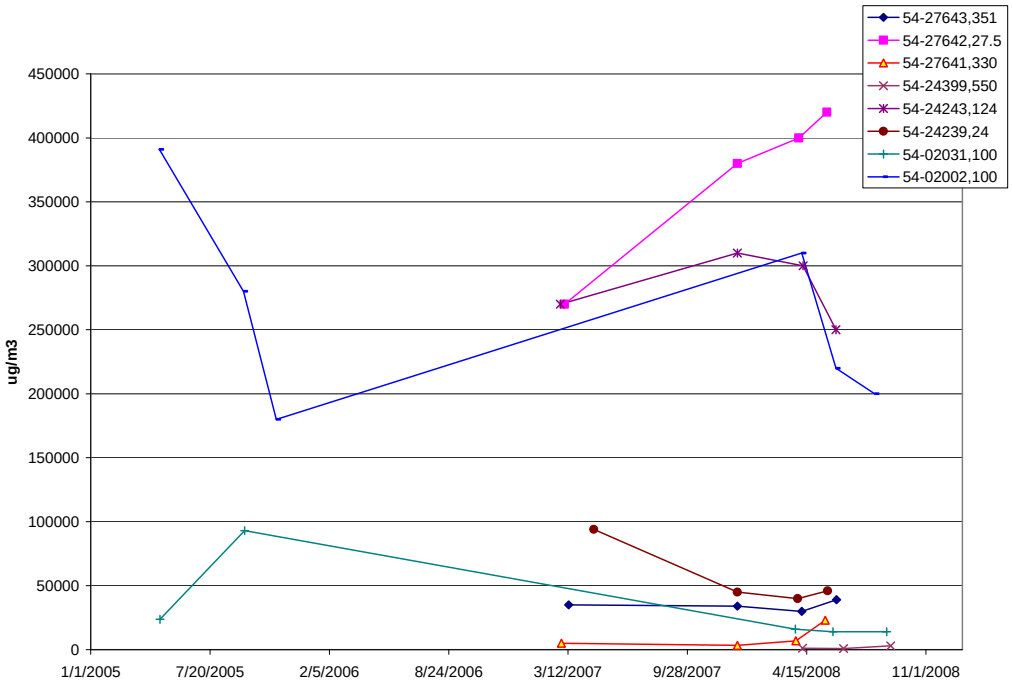

Figure 5.1-6 Trends in detected 1,1,2-trichloro-1,2,2-trifluoroethane concentrations from TO-15 analyses collected from 2005 to 2008 concentrations

Table 1.0-1
NMED-Approved MDA L
Subsurface Vapor-Monitoring Locations

Location ID	VOC Sampling Locations	Tritium Sampling Locations
54-01015	37.6, 165.4, 308.3, 333.3, 337.7, 426.5, 462.1	37.6, 165.4, 308.3, 333.3, 337.7, 426.5, 462.1
54-01016	30.8, 162.2, 274.7, 336.3, 414.3, 459.5, 517.6	30.8, 162.2, 274.7, 336.3, 414.3, 459.5, 517.6
54-02001	20, **40**, 60, **80**, 100, **120**, **140**, 160, 180, 200	20, **40**, 60, **80**, 100, **120**, **140**, 160, 180, 200
54-02002	20, **40**, 60, 80, **100**, **120**, 140, 157, **180**, 200	20, **40**, 60, 80, **100**, **120**, 140, 157, **180**, 200
54-02016	18, **31**, **82**	18, **31**, **82**
54-02020	20, 40, 60, 80, 95, 120, 140, 160, 180, 200	20, 40, 60, 80, 95, 120, 140, 160, 180, 200
54-02021	**20**, 40, 60, 80, **100**, **120**, **140**, 160, 180, 198	**20**, 40, 60, 80, **100**, **120**, **140**, 160, 180, 198
54-02022	20, **40**, 60, **80**, 100, **120**, **140**, 160, 180, 200	20, **40**, 60, **80**, 100, **120**, **140**, 160, 180, 200
54-02023	20, **40**, 60, 80, **100**, **120**, 140, **159**, 180, 200	20, **40**, 60, 80, **100**, **120**, 140, **159**, 180, 200
54-02024	20, **40**, 60, 80, **100**, **120**, 140, **160**, 180, 200	20, **40**, 60, 80, **100**, **120**, 140, **160**, 180, 200
54-02025	**20**, 60, **100**, **160**, 190	**20**, 60, **100**, **160**, 190
54-02026	**20**, 60, **100**, **160**, 200, 215	**20**, 60, **100**, **160**, 200, 215
54-02027	**20**, 60, **100**, 160, **200**, 220, 250	**20**, 60, **100**, 160, **200**, 220, 250
54-02028	**20**, 60, **100**, **160**, 200, 220, 250	**20**, 60, **100**, **160**, 200, 220, 250
54-02031	**20**, 60, **100**, **160**, 200, 220, **260**	**20**, 60, **100**, **160**, 200, 220, **260**
54-02034	**20**, **60**, 100, **160**, 200, 220, **260, 300**	**20**, **60**, 100, **160**, 200, 220, **260, 300**
54-02089	13, **31**, **46**, 86	13, **31**, **46**, 86
54-24238	44, **64**, 84	44, **64**, 84
54-24239	**25**, 50, **75**, 99.5	**25**, 50, **75**, 99.5
54-24240	**28**, **53**, 78, 103, **128**, **153**	**28**, **53**, 78, 103, **128**, **153**
54-24241	**73**, 93, **113**, **133**, 153, 173, 193	**73**, 93, **113**, **133**, 153, 173, 193
54-24242	**25**, **50**, 75, 100, 110.5	**25**, **50**, 75, 100, 110.5
54-24243	**25**, 50, **75**, 100, **125**	**25**, 50, **75**, 100, **125**
54-24244[a]	**25**, 50, 75, **100, 118.5**	**25**, 50, 75, **100, 118.5**
54-24399[b]	**505-608**	**505-608**
54-27641	**32, 82, 115, 182,** 232**, 271, 332.5**	**32, 82, 115, 182,** 232**, 271, 332.5**
54-27642	**30, 75, 116, 175,** 235**, 275, 338**	**30, 75, 116, 175,** 235**, 275, 338**
54-27643	**30, 74, 117, 167,** 235**, 275, 354**	**30, 74, 117, 167,** 235**, 275, 354**

Note: Bolded depths denote locations of SUMMA and/or tritium samples to be collected.

[a] FLUTe system damaged; no samples collected.

[b] Open borehole.

Table 2.0-1
First Quarter FY2008 MDA L
Subsurface Vapor-Monitoring Locations

Location ID	Screening Conducted	VOC Sampling Pore Depth	Tritium Sampling Pore Depth
54-01015	No	37.6, 165.4, 308.3[a], 333.3, 337.7, 426.5, 462.1	37.6, 165.4, 308.3[b], 333.3, 337.7, 426.5, 462.1
54-01016	No	30.8, 162.2, 274.7, 336.3, 414.3[b], 459.5[a], 517.6[a]	30.8, 162.2, 274.7, 336.3, 414.3[a], 459.5[a], 517.6[a]
54-02001	Yes	20, **40**, 60[a], 80, **100**, **120**, 140, 160, 180[a] **200**	20, 40, 60[a], 80, 100, 120, 140, 160, 180[a], 200
54-02002	Yes	20[a], 40, 60, 80, 100, 120, 140, 157, 180, 200	20[a], 40, 60, 80, 100, 120, 140, 160, 180, 200
54-02016	Yes	18[a], 31, 82[a]	18[a], 31, 82[a]
54-02020	No	20, 40, 60, 80, 95, 120, 140, 160, 180, 200	20, 40, 60, 80, 95, 120, 140, 160, 180, 200
54-02021	Yes	20, 40[a], 60, 80[a], 100, 120[a], 140, 160, 180, 198	20, 40[a], 60, 80[a], 100, 120[a], 140, 160, 180, 198
54-02022	Yes	20[a], **40**, 60, 80, **100**, **120**, 140, 160, 180, **200**	20[a], 40, 60, 80, 100, 120, 140, 160, 180, 200
54-02023	No	20, 40, 60, 80, 100, 120, 140, 159, 180, 200	20, 40, 60, 80, 100, 120, 140, 159, 180, 200
54-02024	Yes	20, 40, 60, 80, 100, 120, 140, 160, 180, 200	20, 40, 60, 80, 100, 120, 140, 160, 180, 200
54-02025	Yes	20, 60[a], 100, 160, 190	20, 60[a], 100, 160, 190
54-02026	No	20, 60, 100, 160, 200, 215	20, 60, 100, 160, 200, 215
54-02027	Yes	20, 60, 100, 160, 200, 220, 250	20, 60, 100, 160, 200, 220, 250
54-02028	No	20, 60, 100, 160, 200, 220, 250	20, 60, 100, 160, 200, 220, 250
54-02031	Yes	20, 60, 100, 160, 200, 220, 260	20, 60, 100, 160, 200, 220, 260
54-02034	Yes	20, 60, 100, 160, 200, 220, 260, 300	20, 60, 100, 160, 200, 220, 260, 300
54-02089	Yes	13, 31, 46, 86	13, 31, 46, 86
54-24238	Yes	44, 64, **84**	44, 64, 84
54-24239	Yes	**25**, 50, 75, **99.5**	25, 50, 75, 99.5
54-24240	Yes	**28**, 53, 78, **103**, **128**, **153**	28, 53, 78, 103, 128, 153
54-24241	Yes	73, **93**, **113**, 133, 153, 173, **193**	73, 93, 113, 133, 153, 173, 193
54-24242	Yes	**25**, 50, 75, **100**, 110.5	25, 50, 75, 100, 110.5
54-24243	Yes	**25**, 50, 75, **100**, **125**	25, 50, 75, 100, 125
54-24244[b]	No	25, 50, 75, 100, 118.5	25, 50, 75, 100, 118.5
54-24399[c]	No	505–608	505–608
54-27641	Yes	**32, 82, 115, 182, 232, 271, 332.5**	**32, 82, 115, 182, 232, 271, 332.5**
54-27642	Yes	**30, 75, 116, 175, 235, 275, 338**	**30, 75, 116, 175, 235, 275, 338**
54-27643	Yes	**30, 74, 117, 167, 235, 275, 354**	**30, 74, 117, 167, 235, 275, 354**

Note: Bolded depths denote locations of SUMMA and/or tritium samples collected during the first quarter of FY2008.

[a] Blocked port.

[b] FLUTe system damaged; no samples collected.

[c] Open borehole.

Table 2.0-2
Second Quarter FY2008
MDA L Subsurface Vapor-Monitoring Locations

Location ID	Screening Conducted	VOC Sampling Pore Depth	Tritium Sampling Pore Depth
54-01015	No	37.6, 165.4, 308.3[a], 333.3, 337.7, 426.5, 462.1	37.6, 165.4, 308.3[a], 333.3, 337.7, 426.5, 462.1
54-01016	No	30.8, 162.2, 274.7, 336.3, 414.3[a], 459.5[a], 517.6[a]	30.8, 162.2, 274.7, 336.3, 414.3[a], 459.5[a], 517.6[a]
54-02001	Yes	20, **40**, 60[a], 80, **100**, 120, **140**, 160, 180[a], **200**	20, **40**, 60[a], 80, **100**, 120, **140**, 160, 180[a], **200**
54-02002	Yes	20[a], 40, **60**, 80, **100**, **120**, 140, 157, 180, **200**	20[a], 40, **60**, 80, **100, 120**, 140, 160, 180, **200**
54-02016	Yes	18[a], **31**, 82[a]	18[a], **31, 82**[a]
54-02020	No	20, 40, 60, 80, 95, 120, 140, 160, 180, 200	20, 40, 60, 80, 95, 120, 140, 160, 180, 200
54-02021	Yes	20, 40[a], **60**, 80[a], **100**, 120[a], **140**, 160, 180, **198**	20, 40[a], **60**, 80[a], **100**, 120[a], **140**, 160, 180, **198**
54-02022	Yes	**20**, 40, 60, 80, 100[a], **120**, 140, 160, 180, **200**	20, 40, 60, 80, 100[a], 120, 140, 160, 180, 200
54-02023	Yes	20, **40**, 60, 80, **100**, **120**, 140, 159, 180[a], **200**	20, **40**, 60, 80, **100**, **120**, 140, 159, 180[a], **200**
54-02024	Yes	20, **40**, 60, 80, **100**, 120[a], 140[a], **160**, 180, **200**	20, **40**, 60, 80, **100**, 120[a], 140[a], **160**, 180, **200**
54-02025	Yes	**20**, 60[a], **100**, 160, **190**	**20**, 60[a], **100**, 160, **190**
54-02026	Yes	**20**, 60, **100**, 160, 200, **215**	**20**, 60, **100**, 160, 200, **215**
54-02027	Yes	**20**, 60, **100**, 160, 200, 220, **250**	**20**, 60, **100**, 160, 200, 220, **250**
54-02028	Yes	**20**, 60, **100**, 160, 200, 220, **250**	**20**, 60, **100**, 160, 200, 220, **250**
54-02031	Yes	**20**, 60, **100**, 160, 200, 220[a], **260**	**20**, 60, **100**, 160, **200**, 220[a], **260**
54-02034	Yes	**20**, 60, **100**, 160, 200, **220**, **260, 300**	20, 60, 100, 160, 200, 220, 260, 300
54-02089	Yes	13, **31**, 46, **86**	13, **31**, 46, **86**
54-24238	Yes	44, 64, **84**	44, 64, **84**
54-24239	Yes	**25**, 50, 75, **99.5**	**25**, 50, 75, **99.5**
54-24240	Yes	**28**, 53, 78, **103**, **128**, **153**	**28**, 53, 78, **103**, **128**, **153**
54-24241	Yes	73, **93**, **113**, 133, 153, 173, **193**	73, **93**, **113**, 133, 153, 173, **193**
54-24242	Yes	**25**, 50, 75, 100, **110.5**	**25**, 50, 75, 100, **110.5**
54-24243	Yes	**25**, 50, 75, **100**, **125**	**25**, 50, 75, **100**, **125**
54-24244[b]	No	25, 50, 75, 100, 118.5	25, 50, 75, 100, 118.5
54-24399[c]	Yes	**505–608**	505–608
54-27641	Yes	**32, 82, 115,** 182**, 232, 271, 332.5**	**32, 82, 115,** 182**, 232, 271, 332.5**
54-27642	Yes	**30, 75, 116,** 175**, 235, 275, 338**	**30, 75, 116,** 175**, 235, 275, 338**
54-27643	Yes	**30, 74, 117,** 167**, 235, 275, 354**	**30, 74, 117,** 167**, 235, 275, 354**

Note: Bolded depths denote locations of SUMMA and/or tritium samples collected during the second quarter of FY2008.

[a] Blocked port.

[b] FLUTe system damaged; no samples collected.

[c] Open borehole.

Table 2.0-3
Third Quarter FY2008
MDA L Subsurface Vapor-Monitoring Locations

Location ID	Screening Conducted	VOC Sampling Pore Depth	Tritium Sampling Pore Depth
54-01015	Yes	37.6, 165.4, 308.3[a], 333.3, 337.7, 426.5, 462.1	37.6, 165.4, 308.3[a], 333.3, 337.7, 426.5, 462.1
54-01016	Yes	30.8, 162.2, 274.7, 336.3, 414.3[a], 459.5[a], 517.6[a]	30.8, 162.2, 274.7, 336.3, 414.3[a], 459.5[a], 517.6[a]
54-02001	Yes	20, **40**, 60[a], **80**, 100, **120**, **140**, 160[a], 180[a] 200	20, **40**, 60[a], **80**, 100, **120**, **140**, 160[a], 180[a], 200
54-02002	Yes	20[a], 40[a], **60**, 80[a], **100**, **120**, 140, 157, **180**, 200	20[a], 40[a], **60**, 80[a], **100**, **120**, 140, 160, **180**, 200
54-02016	Yes	18[a], **31**, **82**	18[a], **31, 82**
54-02020	No	20, 40, 60, 80, 95, 120, 140, 160, 180, 200	20, 40, 60, 80, 95, 120, 140, 160, 180, 200
54-02021	Yes	**20**, 40[a], 60, 80, **100**, **120**, **140**, 160, 180, 198	20, 40[a], 60, 80, 100, 120, 140, 160, 180, 198
54-02022	Yes	20, **40**, 60, **80**, 100[a], **120**, **140**, 160, 180, 200	20, **40**, 60, **80**, 100[a], **120**, **140**, 160, 180, 200
54-02023	Yes	20, **40**, 60, 80, **100**, **120**, 140, **159**, 180[a], 200	20, **40**, 60, 80, **100**, **120**, 140, **159**, 180[a], 200
54-02024	Yes	20, **40**, 60, 80, **100**, 120[a], **140**, **160**, 180, 200	20, **40**, 60, 80, **100**, 120[a], **140**, **160**, 180, 200
54-02025	Yes	**20**, 60[a], **100**, **160**, 190	**20**, 60[a], **100**, **160**, 190
54-02026	Yes	**20**, 60, **100**, **160**, 200, 215	**20**, 60, **100**, **160**, 200, 215
54-02027	Yes	**20**, 60, **100**, 160, **200**, 220, 250	**20**, 60, **100**, 160, **200**, 220, 250
54-02028	Yes	**20**, 60, **100**, **160**, 200, 220, 250	**20**, 60, **100**, **160**, 200, 220, 250
54-02031	Yes	**20**, 60, **100**, **160**, 200, 220[a], **260**	**20**, 60, **100**, **160**, 200, 220[a], **260**
54-02034	Yes	**20**, **60**, 100, **160**, 200, 220, **260, 300**	**20**, **60**, 100, **160**, 200, 220, **260, 300**
54-02089	Yes	13, **31**, **46**, 86	13, **31**, **46**, 86
54-24238	Yes	44, **64**, 84	44, **64**, 84
54-24239	Yes	**25**, 50, **75**, 99.5	**25**, 50, **75**, 99.5
54-24240	Yes	**28**, **53**, 78, 103, **128**, **153**	**28**, **53**, 78, 103, **128**, **153**
54-24241	Yes	**73**, 93, **113**, **133**, 153, 173, 193	**73**, 93, **113**, **133**, 153, 173, 193
54-24242	Yes	**25**, **50**, 75, 100, 110.5	**25**, **50**, 75, 100, 110.5
54-24243	Yes	**25**, 50, **75**, 100, **125**	**25**, 50, **75**, 100, **125**
54-24244[b]	No	25, 50, 75, 100, 118.5	25, 50, 75, 100, 118.5
54-24399[c]	Yes	**505–608**	**505–608**
54-27641	Yes	**32, 82, 115, 182,** 232**, 271, 332.5**	**32, 82, 115, 182,** 232**, 271, 332.5**
54-27642	Yes	**30, 75, 116, 175,** 235**, 275, 338**	**30, 75, 116, 175,** 235**, 275, 338**
54-27643	Yes	**30, 74, 117, 167,** 235**, 275, 354**	**30, 74, 117, 167,** 235**, 275, 354**

Note: Bolded depths denote locations of SUMMA and/or tritium samples collected during the third quarter of FY2008.

[a] Blocked port.

[b] FLUTe system damaged; no samples collected.

[c] Open borehole.

Table 2.0-4
Fourth Quarter FY2008
MDA L Subsurface Vapor-Monitoring Locations

Location ID	Screening Conducted	VOC Sampling Pore Depth	Tritium Sampling Pore Depth
54-01015	No	37.6, 165.4, 308.3[a], 333.3, 337.7, 426.5, 462.1	37.6, 165.4, 308.3[a], 333.3, 337.7, 426.5, 462.1
54-01016	No	30.8, 162.2, 274.7, 336.3, 414.3[a], 459.5[a], 517.6[a]	30.8, 162.2, 274.7, 336.3, 414.3[a], 459.5[a], 517.6[a]
54-02001	Yes	20, **40**, 60[a], **80**, 100, **120**, **140**, 160[a], 180[a], 200	20, **40**, 60[a], **80**, 100, **120**, **140**, 160[a], 180[a], 200
54-02002	Yes	20[a], **40**, 60, 80[a], **100**, **120**, 140, 157, **180**, 200	20[a], 40, 60, 80[a], 100, 120, 140, 160, 180, 200
54-02016	Yes	**18**, **31**, 82	**18**, **31**, 82
54-02020	No	20, 40, 60, 80, 95, 120, 140, 160, 180, 200	20, 40, 60, 80, 95, 120, 140, 160, 180, 200
54-02021	Yes	**20**, 40, 60, 80, **100**, **120**, **140**, 160, 180, 198	**20**, 40, 60, 80, **100**, **120**, **140**, 160, 180, 198
54-02022	Yes	20, **40**, 60, **80**, 100, **120**, **140**, 160, 180, 200	20, **40**, 60, **80**, 100, **120**, **140**, 160, 180, 200
54-02023	Yes	20, **40**, 60, 80, **100**, **120**, 140, **159**, 180, 200	20, **40**, 60, 80, **100**, **120**, 140, **159**, 180, 200
54-02024	Yes	20, **40**, 60, 80, **100**, 120[a], **140**, **160**, 180, 200	20, **40**, 60, 80, **100**, 120[a], **140**, **160**, 180, 200
54-02025	Yes	**20**, 60, **100**, **160**, 190	20, 60, 100, 160, 190
54-02026	Yes	**20**, 60, **100**, **160**, 200, 215	**20**, 60, **100**, **160**, 200, 215
54-02027	Yes	**20**, 60, **100**, 160, **200**, 220, 250	**20**, 60, **100**, 160, **200**, 220, 250
54-02028	Yes	**20**, 60, **100**, **160**, 200, 220, 250	**20**, 60, **100**, **160**, 200, 220, 250
54-02031	Yes	**20**, 60, **100**, **160**, 200, 220, **260**	**20**, 60, **100**, **160**, 200, 220, **260**
54-02034	Yes	**20**, **60**, 100, **160**, 200, 220, **260, 300**	**20**, **60**, 100, **160**, 200, 220, **260, 300**
54-02089	Yes	**13**, 31, **46**, 86	**13**, 31, **46**, 86
54-24238	Yes	44, **64**, 84	44, **64**, 84
54-24239	Yes	**25**, 50, **75**, 99.5	**25**, 50, **75**, 99.5
54-24240	Yes	**28**, **53**, 78, 103, **128**, **153**	**28**, **53**, 78, 103, **128**, **153**
54-24241	Yes	**73**, 93, **113**, **133**, 153, 173, 193	**73**, 93, **113**, **133**, 153, 173, 193
54-24242	Yes	**25**, **50**, 75, 100, 110.5	**25**, **50**, 75, 100, 110.5
54-24243	Yes	**25**, 50, **75**, 100, **125**	25, 50, 75, 100, 125
54-24244[b]	No	25, 50, 75, 100, 118.5	25, 50, 75, 100, 118.5
54-24399[c]	Yes	**505–608**	**505–608**
54-27641	Yes	**32, 82, 115, 182,** 232**, 271, 332.5**	**32, 82, 115, 182,** 232**, 271, 332.5**
54-27642	Yes	**30, 75, 116, 175,** 235**, 275, 338**	**30, 75, 116, 175,** 235**, 275, 338**
54-27643	Yes	**30, 74, 117, 167,** 235**, 275, 354**	30, 74, 117, 167, 235, 275, 354

Note: Bolded depths denote locations of SUMMA and/or tritium samples collected during the fourth quarter of FY2008.

[a] Blocked port.

[b] FLUTe system damaged; no samples collected.

[c] Open borehole.

Table 3.0-1
Henry's Law Constants, Groundwater Standards, and
Calculated Concentrations Exceeding Groundwater Standards for Selected VOCs

VOC	Dimensionless Henry's Law Constant (H')	Groundwater Standard (µg/L)	Concentration in Pore Gas Which Would Exceed Groundwater Standard (ug/L)
Acetone	0.0016	22000[a]	35200
Benzene	0.228	5[b]	1140
Butadiene[1,3-]	7.3	0.13	949
Butanone[2-]	0.0011	7100[a]	7810
Carbon Disulfide	1.2	1000[a]	1200000
Carbon Tetrachloride	1.25	5[b]	6250
Chlorobenzene	0.15	100	15000
Chlorodifluoromethane	4.1	100,000	410000000
Chloroform	0.15	100	15000
Chloromethane	na[d]	na	na
Cyclohexane	8.2	13,000	106600000
Dichlorodifluoromethane	4.1	350[a]	1435000
Dichloroethane[1,1-]	0.23	25[c]	5750
Dichloroethene[1,1-]	1.1	5[c]	5500
Dichloropropane[1,2-]	.11	5[b]	550
Ethanol	200	na	na
Ethylbenzene	0.323	700[b]	226100
Ethyltoluene[4-]	na	na	na
Hexane	5	880[a]	4400000
Methanol	0.00011	18,000	1980
Methylene Chloride	0.09	5[b]	450
n-Heptane	0.0012	na	na
Propylene	na	na	na
Styrene	0.11	100	11000
PCE	0.754	5[b]	3770
Toluene	0.272	750[c]	204000
Trichloro-1,2,2-trifluoroethane[1,1,2-]	21.4	59,000[a]	1262600000
TCA	0.705	60[c]	42300
TCE	0.422	5[b]	2110
Freon-11	4	1300[a]	5200000
Tetrahydrofuran	0.002895	8.8[b]	25.476
Trimethylbenzene[1,2,4-]	0.23	15[a]	3450
Trimethylbenzene[1,3,5-]	0.32	12[a]	3840
Xylene[1,2-]	0.213	10000[b]	2130000
Xylene[1,3-]+Xylene[1,4-]	0.3	10000[a]	3000000

Note: Calculated concentrations in pore gas exceeding groundwater standard derived using denominator from Equation 3.0-3.

[a] EPA regional tap water screening levels (http://www.epa.gov/region09/superfund/prg/pdf/composite_sl_table_run_12SEP2008.pdf).

[b] EPA MCL (40 Code of Federal Regulations 141.61).

[c] NMWQCC groundwater standard (20.6.2.3103 New Mexico Administrative Code).

Table 4.0-1
Field-Screening Results Using the Landtech GEM-500

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	Result Q1 FY2008 (%)	Result Q2 FY2008 (%)	Result Q3 FY2008 (%)	Result Q4 FY2008 (%)
54-01015	37.6	42.8	CO_2	NA*	NA	0.4	NA
54-01015	37.6	42.8	O_2	NA	NA	21	NA
54-01015	165.4	188.2	CO_2	NA	NA	0.4	NA
54-01015	165.4	188.2	O_2	NA	NA	21.1	NA
54-01015	308.3	350.8	CO_2	NA	NA	NA	NA
54-01015	308.3	350.8	O_2	NA	NA	NA	NA
54-01015	333.3	379.3	CO_2	NA	NA	0	NA
54-01015	333.3	379.3	O_2	NA	NA	21.3	NA
54-01015	377.7	429.8	CO_2	NA	NA	0	NA
54-01015	377.7	429.8	O_2	NA	NA	21.3	NA
54-01015	426.5	485.3	CO_2	NA	NA	0	NA
54-01015	426.5	485.3	O_2	NA	NA	21.3	NA
54-01015	462.1	525.8	CO_2	NA	NA	0	NA
54-01015	462.1	525.8	O_2	NA	NA	21.3	NA
54-01016	30.8	35.8	CO_2	NA	NA	0.5	NA
54-01016	30.8	35.8	O_2	NA	NA	20.5	NA
54-01016	162.2	188.3	CO_2	NA	NA	0.6	NA
54-01016	162.2	188.3	O_2	NA	NA	20.4	NA
54-01016	274.7	318.8	CO_2	NA	NA	0.3	NA
54-01016	274.7	318.8	O_2	NA	NA	20.5	NA
54-01016	336.3	390.3	CO_2	NA	NA	0.2	NA
54-01016	336.3	390.3	O_2	NA	NA	20.8	NA
54-01016	414.3	480.8	CO_2	NA	NA	NA	NA
54-01016	414.3	480.8	O_2	NA	NA	NA	NA
54-01016	459.5	533.3	CO_2	NA	NA	NA	NA
54-01016	459.5	533.3	O_2	NA	NA	NA	NA
54-01016	517.6	600.7	CO_2	NA	NA	NA	NA
54-01016	517.6	600.7	O_2	NA	NA	NA	NA
54-02001	20	20	CO_2	0.8	1.4	1.4	1.1
54-02001	20	20	O_2	20.2	19.6	20	20
54-02001	40	40	CO_2	1.1	1.4	1.2	0.8
54-02001	40	40	O_2	20.1	19.799999	19.8	20
54-02001	60	60	CO_2	0.8	NA	1	0.6
54-02001	60	60	O_2	20	NA	19.9	20

Table 4.0-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	Q1 FY2008 (%)	Q2 FY2008 (%)	Q3 FY2008 (%)	Q4 FY2008 (%)
54-02001	80	80	CO_2	0.8	1.3	1	0.7
54-02001	80	80	O_2	20	19.9	20.2	20.02
54-02001	100	100	CO_2	0.3	1.2	0.9	0.6
54-02001	100	100	O_2	20.6	19.9	20.4	20.02
54-02001	120	120	CO_2	0.7	1.1	0.8	0.6
54-02001	120	120	O_2	20	19.799999	20.8	20.02
54-02001	140	140	CO_2	0.7	1.2	0.8	0.6
54-02001	140	140	O_2	19.9	20.1	20.8	20.02
54-02001	160	160	CO_2	0.6	0.9	0.7	0.5
54-02001	160	160	O_2	19.8	20.9	20.8	20.02
54-02001	180	180	CO_2	1	NA	0.5	0.4
54-02001	180	180	O_2	19.2	NA	21.2	20.02
54-02001	200	200	CO_2	0.6	0.9	0.6	0.4
54-02001	200	200	O_2	19.6	20.6	21.2	20.02
54-02002	20	20	CO_2	0.4	NA	NA	0
54-02002	20	20	O_2	20.4	NA	NA	20.9
54-02002	40	40	CO_2	1.3	NA	NA	0
54-02002	40	40	O_2	19	NA	NA	20.9
54-02002	60	60	CO_2	1.7	2.2	1.7	0
54-02002	60	60	O_2	18.6	18.700001	19.5	20.8
54-02002	80	80	CO_2	1.7	NA	NA	1.4
54-02002	80	80	O_2	18.6	NA	NA	19.5
54-02002	100	100	CO_2	1.6	2	1.7	1.4
54-02002	100	100	O_2	18.5	18.799999	19.7	19.5
54-02002	120	120	CO_2	1.4	1.8	1.6	1.1
54-02002	120	120	O_2	18.6	19	19.8	19.5
54-02002	140	140	CO_2	1.2	1.6	1.4	1.2
54-02002	140	140	O_2	18.8	19.1	19.8	19.5
54-02002	157	157	CO_2	1.1	1.5	1.3	0.9
54-02002	157	157	O_2	18.8	19.4	20	19.8
54-02002	180	180	CO_2	1.4	1.9	1.7	1.2
54-02002	180	180	O_2	18.4	19	19.8	19.5
54-02002	200	200	CO_2	0.8	1.2	1	0.7
54-02002	200	200	O_2	19	19.6	20.2	19.9
54-02016	18	18	CO_2	0.1	NA	2.1	1.7
54-02016	18	18	O_2	20.6	NA	19	19.2

Table 4.0-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	Q1 FY2008 (%)	Q2 FY2008 (%)	Q3 FY2008 (%)	Q4 FY2008 (%)
54-02016	31	31	CO_2	3.3	3.4000001	3.1	2.5
54-02016	31	31	O_2	16.7	17.700001	18.2	18.1
54-02016	82	82	CO_2	2.4	NA	2.6	2.1
54-02016	82	82	O_2	17.5	NA	18.7	18.5
54-02021	20	20	CO_2	0.6	0.8	0.7	0.2
54-02021	20	20	O_2	20.5	20.799999	20.7	20.8
54-02021	40	40	CO_2	0.6	NA	0.8	0.4
54-02021	40	40	O_2	20.3	NA	20.7	20.4
54-02021	60	60	CO_2	0.6	0.9	0.8	0.4
54-02021	60	60	O_2	20.3	20.6	20.7	20.4
54-02021	80	80	CO_2	0.6	0.9	0.8	0.4
54-02021	80	80	O_2	20.3	20.5	20.7	20.4
54-02021	100	100	CO_2	0.6	0.9	0.8	0.5
54-02021	100	100	O_2	20.2	20.299999	20.7	20.3
54-02021	120	120	CO_2	0.5	NA	0.7	0.4
54-02021	120	120	O_2	20.2	NA	20.9	20.3
54-02021	140	140	CO_2	0.5	0.9	0.8	0.4
54-02021	140	140	O_2	20.2	20.200001	20.8	20.3
54-02021	160	160	CO_2	0.5	0.9	0.7	0.2
54-02021	160	160	O_2	20.1	20.4	21	20.4
54-02021	180	180	CO_2	0.5	0.8	0.7	0.4
54-02021	180	180	O_2	19.9	20.299999	21.2	20.3
54-02021	198	198	CO_2	0.5	0.8	0.6	0.4
54-02021	198	198	O_2	20.1	20.200001	21.1	20.3
54-02022	20	20	CO_2	0.8	1.2	1.1	0.8
54-02022	20	20	O_2	20.1	20.200001	20.6	20
54-02022	40	40	CO_2	0.8	1.1	1.1	0.7
54-02022	40	40	O_2	20.2	20.1	20.6	20.2
54-02022	60	60	CO_2	0.7	1.3	1.1	0.7
54-02022	60	60	O_2	20.1	20.299999	20.5	20.1
54-02022	80	80	CO_2	0.7	1.2	1.1	0.7
54-02022	80	80	O_2	20.1	20.299999	20.6	20.1
54-02022	100	100	CO_2	0.6	1.2	1	0.6
54-02022	100	100	O_2	20	20.299999	20.7	20.3
54-02022	120	120	CO_2	0.6	1.2	1	0.6
54-02022	120	120	O_2	20	20.200001	20.6	20.1

Table 4.0-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	Q1 FY2008 (%)	Q2 FY2008 (%)	Q3 FY2008 (%)	Q4 FY2008 (%)
54-02022	140	140	CO_2	0.6	1.1	0.9	0.5
54-02022	140	140	O_2	20	20.299999	20.7	20.2
54-02022	160	160	CO_2	0.6	1	0.9	0.5
54-02022	160	160	O_2	19.9	20.200001	20.7	20.2
54-02022	180	180	CO_2	0.5	0.9	0.9	0.5
54-02022	180	180	O_2	20	20.200001	20.7	20.4
54-02022	200	200	CO_2	0.5	0.9	0.8	0.4
54-02022	200	200	O_2	20	20.200001	20.7	20.4
54-02023	20	20	CO_2	NA	1.7	1.5	1.5
54-02023	20	20	O_2	NA	19.799999	20.3	19.7
54-02023	40	40	CO_2	NA	1.6	1.2	1.2
54-02023	40	40	O_2	NA	19.700001	20.2	19.8
54-02023	60	60	CO_2	NA	0.8	0.6	0.6
54-02023	60	60	O_2	NA	20	20.7	20.3
54-02023	80	80	CO_2	NA	1.2	0.7	0.8
54-02023	80	80	O_2	NA	19.799999	20.6	20.2
54-02023	100	100	CO_2	NA	1.1	0.8	0.8
54-02023	100	100	O_2	NA	20	20.5	20.2
54-02023	120	120	CO_2	NA	0.9	0.7	0.7
54-02023	120	120	O_2	NA	20.1	20.8	20.2
54-02023	140	140	CO_2	NA	0.8	0.6	0.6
54-02023	140	140	O_2	NA	20	20.8	20.2
54-02023	159	159	CO_2	NA	0.7	0.5	0.5
54-02023	159	159	O_2	NA	20.200001	21.1	20.4
54-02023	180	180	CO_2	NA	blocked	0.5	0.7
54-02023	180	180	O_2	NA	blocked	21	20.3
54-02023	200	200	CO_2	NA	0.7	0.3	0.5
54-02023	200	200	O_2	NA	20.200001	21	20.3
54-02024	20	20	CO_2	0.4	0.7	0.9	0.6
54-02024	20	20	O_2	20.7	20	20.7	20.7
54-02024	40	40	CO_2	0.5	0.6	0.7	0.4
54-02024	40	40	O_2	20.7	20	20.8	20.7
54-02024	60	60	CO_2	0.4	0.7	0.7	0.5
54-02024	60	60	O_2	20.7	20	20.6	20.7
54-02024	80	80	CO_2	0.5	0.7	0.6	0.4
54-02024	80	80	O_2	20.7	19.9	20.7	20.6

Table 4.0-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	Q1 FY2008 (%)	Q2 FY2008 (%)	Q3 FY2008 (%)	Q4 FY2008 (%)
54-02024	100	100	CO_2	0.5	0.7	0.6	0.4
54-02024	100	100	O_2	20.7	20	21	20.6
54-02024	120	120	CO_2	0.5	NA	0.6	NA
54-02024	120	120	O_2	20.7	NA	21	NA
54-02024	140	140	CO_2	0.5	NA	0.5	0.4
54-02024	140	140	O_2	20.7	NA	21.3	20.7
54-02024	160	160	CO_2	0.4	0.7	0.5	0.3
54-02024	160	160	O_2	20.6	19.799999	21.2	20.6
54-02024	180	180	CO_2	0.4	0.6	0.4	0.3
54-02024	180	180	O_2	20.6	19.9	21.2	20.7
54-02024	200	200	CO_2	0.4	0.6	0.4	0.3
54-02024	200	200	O_2	20.6	19.9	21	20.8
54-02025	20	20	CO_2	0.5	0.9	0.8	0.6
54-02025	20	20	O_2	20.4	20	20.4	20.6
54-02025	60	60	CO_2	0.1	NA	NA	0.1
54-02025	60	60	O_2	20.6	NA	NA	20.8
54-02025	100	100	CO_2	0.6	0.9	0.8	0.6
54-02025	100	100	O_2	20.3	20.1	20.5	20.2
54-02025	160	160	CO_2	0.6	0.9	0.8	0.5
54-02025	160	160	O_2	20.3	20.299999	20.4	20.2
54-02025	190	190	CO_2	0.4	0.8	0.6	0.4
54-02025	190	190	O_2	20.4	20.200001	20.7	20.3
54-02026	20	20	CO_2	NA	0.8	0.2	0.6
54-02026	20	20	O_2	NA	20.200001	18.8	20.7
54-02026	60	60	CO_2	NA	0.8	0.1	0.5
54-02026	60	60	O_2	NA	20.200001	18.7	20.5
54-02026	100	100	CO_2	NA	0.8	0	0.5
54-02026	100	100	O_2	NA	20.200001	18.7	20.5
54-02026	160	160	CO_2	NA	0.7	0	0.4
54-02026	160	160	O_2	NA	20.200001	18.7	20.6
54-02026	200	200	CO_2	NA	0.6	0	0.2
54-02026	200	200	O_2	NA	20.299999	18.5	20.9
54-02026	215	215	CO_2	NA	0.6	0	0.1
54-02026	215	215	O_2	NA	20.299999	18.4	20.9
54-02027	20	20	CO_2	0.4	0.8	0.7	0.5
54-02027	20	20	O_2	20.6	20.200001	20.8	20.8

Table 4.0-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	Q1 FY2008 (%)	Q2 FY2008 (%)	Q3 FY2008 (%)	Q4 FY2008 (%)
54-02027	60	60	CO_2	0.4	0.7	0.6	0.5
54-02027	60	60	O_2	20.6	20.200001	20.8	20.6
54-02027	100	100	CO_2	0.4	0.7	0.6	0.4
54-02027	100	100	O_2	20.6	20.1	20.6	20.5
54-02027	160	160	CO_2	0.4	0.6	0.5	0.3
54-02027	160	160	O_2	20.6	20.200001	20.6	20.5
54-02027	200	200	CO_2	0.3	0.5	0.4	0.2
54-02027	200	200	O_2	20.7	20.299999	20.6	20.5
54-02027	220	220	CO_2	0.3	0.5	0.4	0.2
54-02027	220	220	O_2	20.9	20.299999	20.6	20.5
54-02027	250	250	CO_2	0.3	0.4	0.3	0.1
54-02027	250	250	O_2	20.8	20.299999	20.8	20.5
54-02028	20	20	CO_2	NA	0.5	0.1	0.3
54-02028	20	20	O_2	NA	20.299999	19.1	20.8
54-02028	60	60	CO_2	NA	0.5	0	0.2
54-02028	60	60	O_2	NA	20.4	18.9	20.7
54-02028	100	100	CO_2	NA	0.5	0	0.2
54-02028	100	100	O_2	NA	20.4	18.6	20.5
54-02028	160	160	CO_2	NA	0.3	0	0.1
54-02028	160	160	O_2	NA	20.6	18.5	20.7
54-02028	200	200	CO_2	NA	0.4	0	0.7
54-02028	200	200	O_2	NA	20.4	18.4	20.7
54-02028	220	220	CO_2	NA	0.4	0	0.1
54-02028	220	220	O_2	NA	20.299999	18.5	20.8
54-02028	250	250	CO_2	NA	0.3	0	0
54-02028	250	250	O_2	NA	20.299999	18.5	20.7
54-02031	20	20	CO_2	0.6	1.5	1.5	1.5
54-02031	20	20	O_2	19.9	19.6	20.1	19.8
54-02031	60	60	CO_2	0.7	1.2	1.1	0.7
54-02031	60	60	O_2	19.7	19.9	20.3	20.4
54-02031	100	100	CO_2	0.6	1	0.9	0.6
54-02031	100	100	O_2	20.1	20.1	20.5	20.2
54-02031	160	160	CO_2	0.5	0.9	0.8	0.5
54-02031	160	160	O_2	20.5	20.1	20.7	20.3
54-02031	200	200	CO_2	0.6	0.8	0.7	0.8
54-02031	200	200	O_2	20.4	20.1	20.8	20.3

Table 4.0-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	Q1 FY2008 (%)	Q2 FY2008 (%)	Q3 FY2008 (%)	Q4 FY2008 (%)
54-02031	220	220	CO_2	0.5	NA	0.7	0.6
54-02031	220	220	O_2	20.4	NA	21.1	20.2
54-02031	260	260	CO_2	0.6	0.8	0.6	0.4
54-02031	260	260	O_2	20.4	20.200001	21.2	20.5
54-02034	20	20	CO_2	1.8	2.0999999	1.6	1.6
54-02034	20	20	O_2	19.7	19.6	20.5	19.5
54-02034	60	60	CO_2	1	1.6	1	0.8
54-02034	60	60	O_2	20.4	20	20.1	20.1
54-02034	100	100	CO_2	0.7	1.4	0.3	0.7
54-02034	100	100	O_2	20.5	20.299999	21.3	20.2
54-02034	160	160	CO_2	0.5	0.9	0.6	0.5
54-02034	160	160	O_2	20.9	20.6	21.2	20.7
54-02034	200	200	CO_2	0.3	0.8	0.6	0.4
54-02034	200	200	O_2	21.1	20.6	21.1	20.5
54-02034	220	220	CO_2	0.4	0.7	0.5	0.4
54-02034	220	220	O_2	20.7	20.700001	21	20.5
54-02034	260	260	CO_2	0	0.5	0.4	0.2
54-02034	260	260	O_2	21.4	20.700001	21.1	20.7
54-02034	300	300	CO_2	0	0.3	0.2	0
54-02034	300	300	O_2	21.1	20.799999	21.3	20.8
54-02089	13	13	CO_2	4.3	3.8	3.5	3
54-02089	13	13	O_2	15.3	17.1	17.6	17.4
54-02089	31	31	CO_2	3.3	3.5999999	0	3.4
54-02089	31	31	O_2	16.1	17.1	21.7	16.5
54-02089	46	46	CO_2	3.3	4.1999998	3.6	3.5
54-02089	46	46	O_2	16.1	16.1	17.2	16.2
54-02089	86	86	CO_2	3.9	3.5999999	3.4	2.9
54-02089	86	86	O_2	15.5	16.799999	17.3	17.1
54-24238	44	44	CO_2	3.9	4.1999998	4	3.1
54-24238	44	44	O_2	16.1	16.1	16.5	16.5
54-24238	64	64	CO_2	3.3	3	3.5	2.7
54-24238	64	64	O_2	16.6	18	17.1	17.2
54-24238	84	84	CO_2	2.9	3.4000001	3.2	1.6
54-24238	84	84	O_2	17.1	17.1	17.4	18.9
54-24239	25	25	CO_2	1.3	1.6	1.1	1.2
54-24239	25	25	O_2	19.6	19.4	20.1	19.6

Table 4.0-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	Q1 FY2008 (%)	Q2 FY2008 (%)	Q3 FY2008 (%)	Q4 FY2008 (%)
54-24239	50	50	CO_2	1.3	1.7	1.4	1.2
54-24239	50	50	O_2	19.5	19.4	20.1	19.7
54-24239	75	75	CO_2	1.4	1.7	1.4	1.2
54-24239	75	75	O_2	19.5	19.4	20.1	19.7
54-24239	99.5	99.5	CO_2	1.4	1.7	1.3	1.1
54-24239	99.5	99.5	O_2	19.5	19.299999	20.1	19.7
54-24240	28	28	CO_2	1.5	2.7	2.5	2.3
54-24240	28	28	O_2	19.5	18.299999	18.9	17.9
54-24240	53	53	CO_2	1.9	2.3	2.4	1.8
54-24240	53	53	O_2	19	18.700001	19	18.7
54-24240	78	78	CO_2	1.4	1.5	1.7	1.1
54-24240	78	78	O_2	19.6	19.5	19.8	19.5
54-24240	103	103	CO_2	1	1.2	1.2	0.8
54-24240	103	103	O_2	20.1	19.9	20.1	19.9
54-24240	128	128	CO_2	0.8	1	1	0.7
54-24240	128	128	O_2	20.3	20	20.5	20
54-24240	153	153	CO_2	0.7	0.9	0.9	0.6
54-24240	153	153	O_2	20.4	20.1	20.6	20.2
54-24241	73	73	CO_2	0.8	1.6	1.9	1.8
54-24241	73	73	O_2	19.7	17.799999	19.1	18.6
54-24241	93	93	CO_2	0.8	1.4	1.6	1.6
54-24241	93	93	O_2	19.7	17.9	19.4	18.9
54-24241	113	113	CO_2	0.6	1.2	1.2	1.3
54-24241	113	113	O_2	20.1	18.200001	19.7	19.1
54-24241	133	133	CO_2	0.8	0.6	1.1	1.1
54-24241	133	133	O_2	19.9	19.1	19.8	19.3
54-24241	153	153	CO_2	0.6	0.5	1	0.9
54-24241	153	153	O_2	20.2	19.200001	19.9	19.5
54-24241	173	173	CO_2	0.7	0.6	1.8	0.9
54-24241	173	173	O_2	20.1	19.1	19.3	19.6
54-24241	193	193	CO_2	0.7	0.9	0.9	0.9
54-24241	193	193	O_2	20	18.5	20.3	19.6
54-24242	25	25	CO_2	1.2	1.6	1.7	1.3
54-24242	25	25	O_2	19.9	19.5	19.7	19.2
54-24242	50	50	CO_2	1.3	1.9	1.7	1.3
54-24242	50	50	O_2	19.9	19	19.7	19.4

Table 4.0-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	Q1 FY2008 (%)	Q2 FY2008 (%)	Q3 FY2008 (%)	Q4 FY2008 (%)
54-24242	75	75	CO_2	1.2	1.9	1.7	1.3
54-24242	75	75	O_2	20	19	19.6	19.3
54-24242	100	100	CO_2	1.2	1.9	1.7	1.3
54-24242	100	100	O_2	20	19.1	19.6	19.4
54-24242	110.5	110.5	CO_2	0	1.8	-	1.3
54-24242	110.5	110.5	O_2	21.4	19	-	19.6
54-24243	25	25	CO_2	1.8	1.2	2	1.5
54-24243	25	25	O_2	18	18.200001	19.4	19.3
54-24243	50	50	CO_2	2.1	2.5999999	2.3	1.8
54-24243	50	50	O_2	17.4	18.200001	18.7	18.7
54-24243	75	75	CO_2	2	1.7	2.2	1.7
54-24243	75	75	O_2	17.5	19.200001	18.7	18.3
54-24243	100	100	CO_2	1.8	2.4000001	2	1.5
54-24243	100	100	O_2	17.6	18.4	18.7	18.9
54-24243	125	125	CO_2	1.6	2.0999999	1.6	1.2
54-24243	125	125	O_2	18.2	18.799999	18.7	19.2
54-24399	550	608	CO_2	NA	NA	0.1	0
54-24399	550	608	O_2	NA	NA	21.2	20.9
54-27641	32	32	CO_2	1.4	1.7	1.6	1.3
54-27641	32	32	O_2	19.4	19.6	19.6	19.5
54-27641	82	82	CO_2	0.8	1.4	1.1	0.8
54-27641	82	82	O_2	19.9	19.799999	20.1	20.1
54-27641	115	115	CO_2	0.7	1.2	1.1	0.8
54-27641	115	115	O_2	20.1	19.9	20.1	20
54-27641	182	182	CO_2	0.6	0.9	0.9	0.6
54-27641	182	182	O_2	20.5	20.1	20.2	20.2
54-27641	232	232	CO_2	0.5	0.8	0.7	0.5
54-27641	232	232	O_2	20.5	20.200001	20	20.2
54-27641	272	272	CO_2	0.4	0.6	0.5	0.3
54-27641	272	272	O_2	20.8	20.4	20.3	20.4
54-27641	332	332	CO_2	0.2	0.3	0.2	0.1
54-27641	332	332	O_2	21.1	20.700001	20.5	20.5
54-27642	30	30	CO_2	2.5	3.0999999	2.9	2.1
54-27642	30	30	O_2	17.6	17.6	18	18.6
54-27642	75	75	CO_2	1.8	2.4000001	2.3	1.8
54-27642	75	75	O_2	18.9	18.299999	18.3	19

Table 4.0-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	Q1 FY2008 (%)	Q2 FY2008 (%)	Q3 FY2008 (%)	Q4 FY2008 (%)
54-27642	116	116	CO_2	2.3	3	2.8	2.4
54-27642	116	116	O_2	17.6	17.4	17.5	18.1
54-27642	175	175	CO_2	1	1.4	1.3	0.9
54-27642	175	175	O_2	19.4	19.1	19.4	19.6
54-27642	235	235	CO_2	0.7	1	0.9	0.7
54-27642	235	235	O_2	19.8	19.5	19.8	19.8
54-27642	275	275	CO_2	0.6	0.8	0.6	0.5
54-27642	275	275	O_2	20	19.700001	19.8	20
54-27642	338	338	CO_2	0.3	0.3	0.2	0.1
54-27642	338	338	O_2	20.6	20.1	20.5	20.5
54-27643	30	30	CO_2	0.8	1.2	1	0.8
54-27643	30	30	O_2	19.2	19.4	20.4	20.2
54-27643	74	74	CO_2	0.8	1.3	1	0.8
54-27643	74	74	O_2	19	19.4	20.2	19.9
54-27643	117	117	CO_2	0.8	1.2	1	0.7
54-27643	117	117	O_2	19	19.6	20.1	20
54-27643	167	167	CO_2	0.7	1	0.8	0.6
54-27643	167	167	O_2	19.3	19.700001	20.2	20.4
54-27643	235	235	CO_2	0.5	0.8	0.6	0.5
54-27643	235	235	O_2	19.5	19.799999	20.4	20.3
54-27643	275	275	CO_2	0.4	0.7	0.5	0.3
54-27643	275	275	O_2	19.6	20.1	20.5	20.3
54-27643	354	354	CO_2	0.2	0.4	0.2	0.1
54-27643	354	354	O_2	20.2	20.299999	20.7	20.5

*NA = Not analyzed.

Table 4.0-2
Field-Screening Results Using B&K Multigas Analyzer

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	Q1 FY2008 (ppm)	Q2 FY2008 (ppm)	Q3 FY2008 (ppm)	Q4 FY2008 (ppm)
54-01015	37.6	42.8	Freon-11	NA[a]	NA	0.053	NA
54-01015	37.6	42.8	PCE	NA	NA	0.671	NA
54-01015	37.6	42.8	TCA	NA	NA	3.07	NA
54-01015	37.6	42.8	TCE	NA	NA	0.83	NA
54-01015	165.4	188.2	Freon-11	NA	NA	0.217	NA
54-01015	165.4	188.2	PCE	NA	NA	1.63	NA
54-01015	165.4	188.2	TCA	NA	NA	5.71	NA
54-01015	165.4	188.2	TCE	NA	NA	1.83	NA
54-01015	308.3	350.8	Freon-11	NA	NA	-[b]	NA
54-01015	308.3	350.8	PCE	NA	NA	-	NA
54-01015	308.3	350.8	TCA	NA	NA	-	NA
54-01015	308.3	350.8	TCE	NA	NA	-	NA
54-01015	333.3	379.3	Freon-11	NA	NA	-0.013	NA
54-01015	333.3	379.3	PCE	NA	NA	0.261	NA
54-01015	333.3	379.3	TCA	NA	NA	0.874	NA
54-01015	333.3	379.3	TCE	NA	NA	0.362	NA
54-01015	377.7	429.8	Freon-11	NA	NA	-0.028	NA
54-01015	377.7	429.8	PCE	NA	NA	0.231	NA
54-01015	377.7	429.8	TCA	NA	NA	0.963	NA
54-01015	377.7	429.8	TCE	NA	NA	0.336	NA
54-01015	426.5	485.3	Freon-11	NA	NA	-0.016	NA
54-01015	426.5	485.3	PCE	NA	NA	0.246	NA
54-01015	426.5	485.3	TCA	NA	NA	0.968	NA
54-01015	426.5	485.3	TCE	NA	NA	0.283	NA
54-01015	462.1	525.8	Freon-11	NA	NA	-0.031	NA
54-01015	462.1	525.8	PCE	NA	NA	0.253	NA
54-01015	462.1	525.8	TCA	NA	NA	0.983	NA
54-01015	462.1	525.8	TCE	NA	NA	0.199	NA
54-01016	30.8	35.8	Freon-11	NA	NA	0.395	NA
54-01016	30.8	35.8	PCE	NA	NA	2.48	NA
54-01016	30.8	35.8	TCA	NA	NA	8.5	NA
54-01016	30.8	35.8	TCE	NA	NA	1.79	NA
54-01016	162.2	188.3	Freon-11	NA	NA	0.957	NA
54-01016	162.2	188.3	PCE	NA	NA	5.61	NA
54-01016	162.2	188.3	TCA	NA	NA	13.61	NA

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-01016	162.2	188.3	TCE	NA	NA	3.56	NA
54-01016	274.7	318.8	Freon-11	NA	NA	0.362	NA
54-01016	274.7	318.8	PCE	NA	NA	2.36	NA
54-01016	274.7	318.8	TCA	NA	NA	4.26	NA
54-01016	274.7	318.8	TCE	NA	NA	0.981	NA
54-01016	336.3	390.3	Freon-11	NA	NA	-0.061	NA
54-01016	336.3	390.3	PCE	NA	NA	0.216	NA
54-01016	336.3	390.3	TCA	NA	NA	1.5	NA
54-01016	336.3	390.3	TCE	NA	NA	0.264	NA
54-01016	414.3	480.8	Freon-11	NA	NA	NA	NA
54-01016	414.3	480.8	PCE	NA	NA	NA	NA
54-01016	414.3	480.8	TCA	NA	NA	NA	NA
54-01016	414.3	480.8	TCE	NA	NA	NA	NA
54-01016	459.5	533.3	Freon-11	NA	NA	NA	NA
54-01016	459.5	533.3	PCE	NA	NA	NA	NA
54-01016	459.5	533.3	TCA	NA	NA	NA	NA
54-01016	459.5	533.3	TCE	NA	NA	NA	NA
54-01016	517.6	600.7	Freon-11	NA	NA	NA	NA
54-01016	517.6	600.7	PCE	NA	NA	NA	NA
54-01016	517.6	600.7	TCA	NA	NA	NA	NA
54-01016	517.6	600.7	TCE	NA	NA	NA	NA
54-02001	20.0	20.0	Freon-11	2.82	3.52	1.18	1.78
54-02001	20.0	20.0	PCE	27.6	29.1	13.8	28.2
54-02001	20.0	20.0	TCA	214	209	76.9	182
54-02001	20.0	20.0	TCE	90.7	93.8	38.8	91.6
54-02001	40.0	40.0	Freon-11	3.79	4.58	1.23	2.68
54-02001	40.0	40.0	PCE	398	47.5	16.4	43.7
54-02001	40.0	40.0	TCA	315	313	88.7	255
54-02001	40.0	40.0	TCE	77.6	83.7	25.6	73.3
54-02001	60.0	60.0	Freon-11	NA	NA	0.113	0.664
54-02001	60.0	60.0	PCE	NA	NA	1.92	10.9
54-02001	60.0	60.0	TCA	NA	NA	10.4	62.8
54-02001	60.0	60.0	TCE	NA	NA	2.45	15.3
54-02001	80.0	80.0	Freon-11	3.35	3.54	0.921	1.98
54-02001	80.0	80.0	PCE	34.6	35.8	14.6	32.6
54-02001	80.0	80.0	TCA	315	308	938	228

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-02001	80.0	80.0	TCE	48.6	51.6	18	44
54-02001	100.0	100.0	Freon-11	0.154	2.38	0.336	1.31
54-02001	100.0	100.0	PCE	4.26	24.2	4.61	20
54-02001	100.0	100.0	TCA	16.5	251	36.6	161
54-02001	100.0	100.0	TCE	5.6	41.9	6.32	29.2
54-02001	120.0	120.0	Freon-11	2.44	1.82	0.495	1.7
54-02001	120.0	120.0	PCE	14.3	15.9	4.61	17.2
54-02001	120.0	120.0	TCA	251	269	58.8	220
54-02001	120.0	120.0	TCE	37.1	46.2	9.5	36.5
54-02001	140.0	140.0	Freon-11	2.53	2.2	0.647	1.98
54-02001	140.0	140.0	PCE	17.1	17.2	6.51	21.2
54-02001	140.0	140.0	TCA	270	283	78.8	254
54-02001	140.0	140.0	TCE	41.4	45	12.6	42
54-02001	160.0	160.0	Freon-11	0.616	1.68	NA	0.641
54-02001	160.0	160.0	PCE	3.92	7.07	NA	5.76
54-02001	160.0	160.0	TCA	65.5	148	NA	74
54-02001	160.0	160.0	TCE	12.7	26.4	NA	14
54-02001	180.0	180.0	Freon-11	NA	NA	NA	0.237
54-02001	180.0	180.0	PCE	NA	NA	NA	3.07
54-02001	180.0	180.0	TCA	NA	NA	NA	17.7
54-02001	180.0	180.0	TCE	NA	NA	NA	7.23
54-02001	200.0	200.0	Freon-11	2.23	0.198	1.55	1.65
54-02001	200.0	200.0	PCE	9.55	2.47	9.05	9.6
54-02001	200.0	200.0	TCA	128	25.5	107	125
54-02001	200.0	200.0	TCE	26	5.44	22.3	25.7
54-02002	20	20	Freon-11	NA	NA	NA	0.26
54-02002	20	20	PCE	NA	NA	NA	1.51
54-02002	20	20	TCA	NA	NA	NA	6.8
54-02002	20	20	TCE	NA	NA	NA	0.735
54-02002	40	40	Freon-11	4.01	NA	NA	10.6
54-02002	40	40	PCE	18.7	NA	NA	53.8
54-02002	40	40	TCA	82.6	NA	NA	224
54-02002	40	40	TCE	10.2	NA	NA	37.2
54-02002	60	60	Freon-11	13.1	8.97	11	9
54-02002	60	60	PCE	58.2	43	58.5	62.2
54-02002	60	60	TCA	252	194	240	269

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-02002	60	60	TCE	34.7	27.1	35.1	39.5
54-02002	80	80	Freon-11	7.48	NA	NA	2.55
54-02002	80	80	PCE	32.2	NA	NA	17.9
54-02002	80	80	TCA	139	NA	NA	76.7
54-02002	80	80	TCE	20.6	NA	NA	13.5
54-02002	100	100	Freon-11	15	9.93	12.3	10.4
54-02002	100	100	PCE	62.3	44.9	62	67.6
54-02002	100	100	TCA	265	190	240	281
54-02002	100	100	TCE	43	32.4	43.4	48.3
54-02002	120	120	Freon-11	15.3	9.72	12.8	9.84
54-02002	120	120	PCE	57.1	39.6	57.8	56.9
54-02002	120	120	TCA	249	173	220	240
54-02002	120	120	TCE	42.1	30.6	40.3	43
54-02002	140	140	Freon-11	15.9	9.63	132	2.19
54-02002	140	140	PCE	54.5	36	53.1	20.5
54-02002	140	140	TCA	237	153	201	94.7
54-02002	140	140	TCE	41	28.3	38.5	15.5
54-02002	157	157	Freon-11	15.6	5.93	5.27	5.58
54-02002	157	157	PCE	50.6	21.1	21.3	28
54-02002	157	157	TCA	205	87.9	77	113
54-02002	157	157	TCE	35.9	17.4	16.2	21.2
54-02002	180	180	Freon-11	14.4	9.32	12.6	10.5
54-02002	180	180	PCE	52.3	38.1	55.8	59.7
54-02002	180	180	TCA	212	169	215	252
54-02002	180	180	TCE	33.6	30.5	39.9	45.7
54-02002	200	200	Freon-11	14.8	9.51	12.9	11.1
54-02002	200	200	PCE	45.6	31.9	46.7	50.7
54-02002	200	200	TCA	148	115	151	179
54-02002	200	200	TCE	26	24	33.4	38.3
54-02016	18.0	18.0	Freon-11	NA	NA	NA	NA
54-02016	18.0	18.0	PCE	NA	NA	NA	NA
54-02016	18.0	18.0	TCA	NA	NA	NA	NA
54-02016	18.0	18.0	TCE	NA	NA	NA	NA
54-02016	31.0	31.0	Freon-11	20.3	14.8	16.7	NA
54-02016	31.0	31.0	PCE	98.6	75	92.1	NA
54-02016	31.0	31.0	TCA	351	246	274	NA

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-02016	31.0	31.0	TCE	55.1	35.7	41.6	NA
54-02016	82.0	82.0	Freon-11	NA	NA	11.4	8.3
54-02016	82.0	82.0	PCE	NA	NA	62	61
54-02016	82.0	82.0	TCA	NA	NA	163	229
54-02016	82.0	82.0	TCE	NA	NA	19.8	32.8
54-02021	20	20	Freon-11	0.299	0.185	0.149	0.8
54-02021	20	20	PCE	1.54	1.53	0.567	4.73
54-02021	20	20	TCA	16.1	23.5	6.22	49.4
54-02021	20	20	TCE	3.77	2.44	1.6	9.96
54-02021	40	40	Freon-11	NA	NA	NA	0.173
54-02021	40	40	PCE	NA	NA	NA	0.855
54-02021	40	40	TCA	NA	NA	NA	13.5
54-02021	40	40	TCE	NA	NA	NA	2.78
54-02021	60	60	Freon-11	0.378	0.965	0.111	0.216
54-02021	60	60	PCE	1.94	2.22	0.448	1.8
54-02021	60	60	TCA	33.2	47.8	6.47	35.2
54-02021	60	60	TCE	6.65	6.17	1.36	6.78
54-02021	80	80	Freon-11	NA	NA	0.0499	0.101
54-02021	80	80	PCE	NA	NA	0.553	0.934
54-02021	80	80	TCA	NA	NA	5.56	13.6
54-02021	80	80	TCE	NA	NA	1.08	2.73
54-02021	100	100	Freon-11	0.671	0.541	0.0837	0.493
54-02021	100	100	PCE	3.43	3.34	0.57	3.59
54-02021	100	100	TCA	57.1	75.5	12.1	61.4
54-02021	100	100	TCE	10.4	13.5	2.3	10.7
54-02021	120	120	Freon-11	NA	NA	0.0531	0.142
54-02021	120	120	PCE	NA	NA	-0.374	0.285
54-02021	120	120	TCA	NA	NA	5.94	4.99
54-02021	120	120	TCE	NA	NA	1.61	0.813
54-02021	140	140	Freon-11	0.994	0.993	0.189	0.689
54-02021	140	140	PCE	4.61	3.58	1.13	4.55
54-02021	140	140	TCA	68.8	75.5	16.2	74
54-02021	140	140	TCE	12.7	13.5	2.91	13.2
54-02021	160	160	Freon-11	0.55	NA	0.314	0.262
54-02021	160	160	PCE	2.7	NA	1.67	1.89
54-02021	160	160	TCA	34.7	NA	24.8	25.4

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-02021	160	160	TCE	7.28	NA	4.93	5.14
54-02021	180	180	Freon-11	1.01	0.836	0.866	0.716
54-02021	180	180	PCE	4.75	4.55	4.43	4.3
54-02021	180	180	TCA	65.6	73.2	60.7	73
54-02021	180	180	TCE	12.6	13.7	11.2	13.2
54-02021	198	198	Freon-11	1.1	1.16	0.807	0.891
54-02021	198	198	PCE	4.55	4.06	3.96	4.36
54-02021	198	198	TCA	43.9	51.8	40.9	53.3
54-02021	198	198	TCE	9.86	10.2	8.83	10.6
54-02022	20	20	Freon-11	NA	0.498	0.338	0.25
54-02022	20	20	PCE	NA	2.6	2.7	2.91
54-02022	20	20	TCA	NA	56.4	29.8	44.5
54-02022	20	20	TCE	NA	7.48	5.6	7.46
54-02022	40	40	Freon-11	0.777	0.205	0.661	0.427
54-02022	40	40	PCE	4.85	1.3	5.55	4.96
54-02022	40	40	TCA	90.5	30.4	74.3	79.2
54-02022	40	40	TCE	13.8	4.95	12.7	13
54-02022	60	60	Freon-11	0.818	0.922	0.789	0.54
54-02022	60	60	PCE	5.23	4.55	5.66	5.35
54-02022	60	60	TCA	110	114	89.3	93.5
54-02022	60	60	TCE	16.4	16.7	14.3	14.9
54-02022	80	80	Freon-11	1.07	1.08	0.738	0.606
54-02022	80	80	PCE	5.31	5.57	5.62	5.49
54-02022	80	80	TCA	124	120	98.1	103
54-02022	80	80	TCE	18.3	17.4	15.7	15.9
54-02022	100	100	Freon-11	0.23	NA	0.274	0.444
54-02022	100	100	PCE	1.5	NA	190	3.36
54-02022	100	100	TCA	39	NA	28.7	71.6
54-02022	100	100	TCE	6.73	NA	5.11	10.7
54-02022	120	120	Freon-11	1.24	1.13	0.922	0.733
54-02022	120	120	PCE	5.14	5.06	5.7	5.12
54-02022	120	120	TCA	135	136	107	116
54-02022	120	120	TCE	21.5	21	17.3	18.1
54-02022	140	140	Freon-11	1.34	1.18	0.965	0.844
54-02022	140	140	PCE	5.6	4.16	5.1	4.55
54-02022	140	140	TCA	115	118	89.4	98

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-02022	140	140	TCE	19.6	20.1	15.7	15.9
54-02022	160	160	Freon-11	1.5	1.31	1.01	0.863
54-02022	160	160	PCE	5.15	4.35	5.31	4.89
54-02022	160	160	TCA	94.5	101	81.6	97.6
54-02022	160	160	TCE	16.5	17.7	14.9	16.9
54-02022	180	180	Freon-11	1.25	1.04	0.924	0.854
54-02022	180	180	PCE	4.45	3.32	4.5	4.45
54-02022	180	180	TCA	69	75.7	60.4	77
54-02022	180	180	TCE	13.5	14.6	12	14
54-02022	200	200	Freon-11	1.1	1.15	0.91	0.824
54-02022	200	200	PCE	3.55	3.96	4.15	3.83
54-02022	200	200	TCA	50.9	55.9	45.3	59.8
54-02022	200	200	TCE	11.1	11	9.66	11.4
54-02023	20	20	Freon-11	NA	0.847	0.517	0.481
54-02023	20	20	PCE	NA	2.35	2.76	2.57
54-02023	20	20	TCA	NA	-12	11.6	5.41
54-02023	20	20	TCE	NA	1.41	2.37	2.24
54-02023	40	40	Freon-11	NA	0.829	0.648	0.548
54-02023	40	40	PCE	NA	2.67	2.77	3
54-02023	40	40	TCA	NA	-6.6	16.4	6.37
54-02023	40	40	TCE	NA	2.17	3.27	2.82
54-02023	60	60	Freon-11	NA	1.67	1.76	1.52
54-02023	60	60	PCE	NA	5.73	7.3	6.89
54-02023	60	60	TCA	NA	7.75	20.4	14.7
54-02023	60	60	TCE	NA	3.27	4.89	4.89
54-02023	80	80	Freon-11	NA	1.12	1.52	0.803
54-02023	80	80	PCE	NA	3.64	6.21	3.91
54-02023	80	80	TCA	NA	2.85	20.5	7.41
54-02023	80	80	TCE	NA	2.32	4.01	1.99
54-02023	100	100	Freon-11	NA	1.13	1.3	1.29
54-02023	100	100	PCE	NA	4.08	5.33	5.67
54-02023	100	100	TCA	NA	4.05	20.6	14.3
54-02023	100	100	TCE	NA	2.87	3.92	4.19
54-02023	120	120	Freon-11	NA	1.3	1.43	1.19
54-02023	120	120	PCE	NA	4.61	5.81	5.53
54-02023	120	120	TCA	NA	7.05	21.8	13.9

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-02023	120	120	TCE	NA	3.09	4.63	3.8
54-02023	140	140	Freon-11	NA	0.939	1.42	0.153
54-02023	140	140	PCE	NA	3.29	5.27	0.471
54-02023	140	140	TCA	NA	5.34	20.2	1.9
54-02023	140	140	TCE	NA	1.91	4.13	1.35
54-02023	159	159	Freon-11	NA	1.62	1.4	0.804
54-02023	159	159	PCE	NA	5.76	5.35	4.76
54-02023	159	159	TCA	NA	10.1	15.6	10.1
54-02023	159	159	TCE	NA	3.16	3.27	3.15
54-02023	180	180	Freon-11	NA	NA	1.41	0.221
54-02023	180	180	PCE	NA	NA	5.1	0.526
54-02023	180	180	TCA	NA	NA	14.7	0.986
54-02023	180	180	TCE	NA	NA	3.17	0.655
54-02023	200	200	Freon-11	NA	1.69	1.01	1.58
54-02023	200	200	PCE	NA	6.15	4.97	8
54-02023	200	200	TCA	NA	9.98	14.2	17.4
54-02023	200	200	TCE	NA	3.26	1.98	4.72
54-02024	20	20	Freon-11	0.818	0.731	0.768	0.565
54-02024	20	20	PCE	3.75	2.79	3.24	3.13
54-02024	20	20	TCA	8.11	3.37	4.35	6.84
54-02024	20	20	TCE	2.25	1.94	2.67	2.93
54-02024	40	40	Freon-11	0.827	0.832	0.997	0.831
54-02024	40	40	PCE	3.64	3.04	3.95	3.98
54-02024	40	40	TCA	10.6	4.59	8.04	10.7
54-02024	40	40	TCE	3.57	2.23	2.8	3.38
54-02024	60	60	Freon-11	1.49	1.03	1.34	1.1
54-02024	60	60	PCE	5.57	3.72	5.24	5.51
54-02024	60	60	TCA	13.4	7.1	11.8	15.9
54-02024	60	60	TCE	3.18	2.81	3.42	4.15
54-02024	80	80	Freon-11	1.67	1.83	1.71	1.38
54-02024	80	80	PCE	6.28	4.68	6.48	6.72
54-02024	80	80	TCA	18.4	10.5	17.5	21.3
54-02024	80	80	TCE	5.05	3.38	4.27	5.16
54-02024	100	100	Freon-11	2.06	1.62	2.04	1.67
54-02024	100	100	PCE	7.13	5.75	7.72	7.88
54-02024	100	100	TCA	22.4	12.4	20.7	23.7

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-02024	100	100	TCE	5.6	3.8	4.91	5.61
54-02024	120	120	Freon-11	2.59	NA	NA	NA
54-02024	120	120	PCE	6.88	NA	NA	NA
54-02024	120	120	TCA	22.9	NA	NA	NA
54-02024	120	120	TCE	6.44	NA	NA	NA
54-02024	140	140	Freon-11	2.92	NA	2.33	1.67
54-02024	140	140	PCE	8.93	NA	8.78	7.72
54-02024	140	140	TCA	25.9	NA	21.3	22.3
54-02024	140	140	TCE	5.8	NA	5.25	5.14
54-02024	160	160	Freon-11	3.25	2.25	2.7	2.3
54-02024	160	160	PCE	10.7	7.8	10.2	10.8
54-02024	160	160	TCA	29.1	17.5	24.5	30.4
54-02024	160	160	TCE	6.49	4.78	5.94	6.86
54-02024	180	180	Freon-11	3.41	2.31	2.82	2.25
54-02024	180	180	PCE	11	8.07	10.6	10.4
54-02024	180	180	TCA	29.2	17.9	24.6	28.4
54-02024	180	180	TCE	6.8	4.86	5.78	6.3
54-02024	200	200	Freon-11	3.67	2.07	2.3	1.27
54-02024	200	200	PCE	11.5	7.24	8.63	5.83
54-02024	200	200	TCA	27	14.6	19.6	14.7
54-02024	200	200	TCE	5.82	3.93	4.62	2.25
54-02025	20	20	Freon-11	2.57	1.99	2.46	1.94
54-02025	20	20	PCE	9.25	7.89	11.1	11
54-02025	20	20	TCA	395	27.9	42.7	48.2
54-02025	20	20	TCE	7.21	5.74	7.58	8.6
54-02025	60	60	Freon-11	0.118	NA	NA	0.363
54-02025	60	60	PCE	0.757	NA	NA	1.42
54-02025	60	60	TCA	0.888	NA	NA	6.71
54-02025	60	60	TCE	0.822	NA	NA	0.853
54-02025	100	100	Freon-11	5.99	4.27	5.47	4.45
54-02025	100	100	PCE	19.5	15.2	21	21.8
54-02025	100	100	TCA	81.4	57.5	74.9	86.5
54-02025	100	100	TCE	14.8	11.2	14.7	16.5
54-02025	160	160	Freon-11	7.64	5.32	6.73	5.62
54-02025	160	160	PCE	24.1	18.5	25.2	26.9
54-02025	160	160	TCA	88.5	62	79.3	93.9

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-02025	160	160	TCE	16.3	12	15.7	18.1
54-02025	190	190	Freon-11	6.2	6.5	7	6.35
54-02025	190	190	PCE	19.3	19.2	25.9	29.6
54-02025	190	190	TCA	60.7	55	67.6	88.3
54-02025	190	190	TCE	12.2	11.5	14	18.4
54-02026	20	20	Freon-11	NA	0.117	0.062	0.0822
54-02026	20	20	PCE	NA	0.551	0.53	0.518
54-02026	20	20	TCA	NA	–7.5	–1.8	–1.4
54-02026	20	20	TCE	NA	0.444	1.03	0.703
54-02026	60	60	Freon-11	NA	0.158	0.094	0.151
54-02026	60	60	PCE	NA	0.814	0.926	0.733
54-02026	60	60	TCA	NA	–-8.2	–0.474	1.01
54-02026	60	60	TCE	NA	0.579	1.1	0.74
54-02026	100	100	Freon-11	NA	0.209	0.201	0.148
54-02026	100	100	PCE	NA	0.972	1.09	1.07
54-02026	100	100	TCA	NA	–7.2	0.576	2.34
54-02026	100	100	TCE	NA	0.552	1.06	1.06
54-02026	160	160	Freon-11	NA	0.259	0.296	0.315
54-02026	160	160	PCE	NA	1.11	1.71	1.53
54-02026	160	160	TCA	NA	–-4.8	1.83	3.46
54-02026	160	160	TCE	NA	0.631	1.19	1.07
54-02026	200	200	Freon-11	NA	0.269	0.324	0.311
54-02026	200	200	PCE	NA	1.19	1.63	1.62
54-02026	200	200	TCA	NA	–4.4	1.7	2.97
54-02026	200	200	TCE	NA	0.585	1.05	1.1
54-02026	215	215	Freon-11	NA	0.14	0.203	0.295
54-02026	215	215	PCE	NA	0.863	1.01	1.34
54-02026	215	215	TCA	NA	–3.1	0.803	2.37
54-02026	215	215	TCE	NA	0.515	0.773	0.85
54-02027	20	20	Freon-11	0.551	0.34	0.403	0.308
54-02027	20	20	PCE	2.25	1.5	2.01	1.98
54-02027	20	20	TCA	2.22	–3.2	2.05	3.6
54-02027	20	20	TCE	0.89	0.89	1.44	1.47
54-02027	60	60	Freon-11	1.39	0.765	0.989	0.726
54-02027	60	60	PCE	3.92	2.8	4.13	3.95
54-02027	60	60	TCA	8.22	2.55	8.15	10.4

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-02027	60	60	TCE	1.67	1.67	2.41	2.68
54-02027	100	100	Freon-11	1.6	1.06	1.34	1
54-02027	100	100	PCE	5.3	3.69	5.57	5.08
54-02027	100	100	TCA	12.3	5.67	12	13.9
54-02027	100	100	TCE	2.69	2.07	3.01	3.21
54-02027	160	160	Freon-11	1.83	1.32	1.75	1.47
54-02027	160	160	PCE	6.68	5.01	7.29	7.34
54-02027	160	160	TCA	13.9	8	14.3	17.4
54-02027	160	160	TCE	3.41	2.36	3.44	3.28
54-02027	200	200	Freon-11	1.92	1.32	1.71	1.4
54-02027	200	200	PCE	6.95	5.1	7.02	6.78
54-02027	200	200	TCA	12.8	7	12.1	14.3
54-02027	200	200	TCE	2.78	2.16	2.8	2.51
54-02027	220	220	Freon-11	1.7	1.25	1.67	1.31
54-02027	220	220	PCE	6.77	4.83	6.88	6.75
54-02027	220	220	TCA	10.7	5.88	10.5	13.2
54-02027	220	220	TCE	2.89	1.92	2.62	2.97
54-02027	250	250	Freon-11	1.53	1.04	1.39	1.18
54-02027	250	250	PCE	5.56	4.13	5.71	5.73
54-02027	250	250	TCA	6.21	3.05	7.68	9.33
54-02027	250	250	TCE	1.95	1.5	2.09	2.17
54-02028	20	20	Freon-11	NA	0.19	0.133	0.106
54-02028	20	20	PCE	NA	0.711	0.779	0.393
54-02028	20	20	TCA	NA	–2	–0.143	–1.5
54-02028	20	20	TCE	NA	0.51	1.05	0.688
54-02028	60	60	Freon-11	NA	0.118	0.163	0.177
54-02028	60	60	PCE	NA	0.897	0.839	0.828
54-02028	60	60	TCA	NA	–1.6	0.0231	–0.072
54-02028	60	60	TCE	NA	0.675	1.03	0.848
54-02028	100	100	Freon-11	NA	0.285	0.295	0.274
54-02028	100	100	PCE	NA	1.24	1.26	1.26
54-02028	100	100	TCA	NA	–1.3	0.623	0.726
54-02028	100	100	TCE	NA	0.493	1.02	0.674
54-02028	160	160	Freon-11	NA	0.243	0.302	0.341
54-02028	160	160	PCE	NA	1.09	0.982	0.568
54-02028	160	160	TCA	NA	–0.558	0.437	0.949

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-02028	160	160	TCE	NA	0.915	0.688	0.457
54-02028	200	200	Freon-11	NA	0.329	0.313	0.449
54-02028	200	200	PCE	NA	1.48	1.83	1.85
54-02028	200	200	TCA	NA	–0.702	1.27	1.54
54-02028	200	200	TCE	NA	0.757	1.2	0.457
54-02028	220	220	Freon-11	NA	0.425	0.335	0.347
54-02028	220	220	PCE	NA	1.69	1.82	1.88
54-02028	220	220	TCA	NA	–1	1.05	1.96
54-02028	220	220	TCE	NA	0.294	1.3	0.858
54-02028	250	250	Freon-11	NA	0.39	0.272	0.278
54-02028	250	250	PCE	NA	1.34	1.45	0.892
54-02028	250	250	TCA	NA	–0.988	0.548	1.1
54-02028	250	250	TCE	NA	0.126	0.901	0.815
54-02031	20	20	Freon-11	0.333	0.459	0.162	0.23
54-02031	20	20	PCE	1.65	2.61	1.86	2.1
54-02031	20	20	TCA	9.37	–3.4	5.2	10.7
54-02031	20	20	TCE	3.12	3.52	3.12	3.87
54-02031	60	60	Freon-11	0.797	0.838	0.48	0.41
54-02031	60	60	PCE	3.79	4.5	2.87	3.62
54-02031	60	60	TCA	22.5	16.4	13.6	21.9
54-02031	60	60	TCE	6.38	6.84	4.64	6.65
54-02031	100	100	Freon-11	1.11	1.18	0.663	0.902
54-02031	100	100	PCE	5.29	5.82	3.33	5.78
54-02031	100	100	TCA	31.4	26.8	18.3	32.4
54-02031	100	100	TCE	8.19	8.11	5.14	7.78
54-02031	160	160	Freon-11	1.39	1.41	0.556	1.09
54-02031	160	160	PCE	6.15	6.39	3.14	6.9
54-02031	160	160	TCA	31	27.8	14.3	31.9
54-02031	160	160	TCE	8.24	8.27	4.47	7.81
54-02031	200	200	Freon-11	1.49	1.1	1.25	1.14
54-02031	200	200	PCE	6.24	5.11	6.18	6.66
54-02031	200	200	TCA	26.2	18.3	24.3	28.1
54-02031	200	200	TCE	7.06	5.51	6.5	7.32
54-02031	220	220	Freon-11	0.128	NA	0.157	0.139
54-02031	220	220	PCE	1.21	NA	0.828	0.579
54-02031	220	220	TCA	3.11	NA	2.63	2.08

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-02031	220	220	TCE	2.04	NA	0.936	0.794
54-02031	260	260	Freon-11	0.847	0.897	0.794	0.794
54-02031	260	260	PCE	3.96	3.97	4.3	4.04
54-02031	260	260	TCA	13	11.4	13	13.5
54-02031	260	260	TCE	3.78	3.78	3.81	384
54-02034	20	20	Freon-11	0.0342	–0.122	–0.11	–0.048
54-02034	20	20	PCE	0.926	1.41	0.341	0.234
54-02034	20	20	TCA	9.31	6.61	6.3	3.92
54-02034	20	20	TCE	–0.59	–0.209	1.58	1.56
54-02034	60	60	Freon-11	0.227	0.441	–0.04	–0.0582
54-02034	60	60	PCE	0.733	0.569	0.398	0.523
54-02034	60	60	TCA	9.46	8.79	5.93	8.12
54-02034	60	60	TCE	1.02	0.87	1.68	2.25
54-02034	100	100	Freon-11	0.145	–0.211	0.128	0.0611
54-02034	100	100	PCE	0.885	0.478	0.318	0.498
54-02034	100	100	TCA	9.76	9.16	2.86	9.98
54-02034	100	100	TCE	1.72	2.75	1.19	2.57
54-02034	160	160	Freon-11	0.262	0.313	0.023	0.012
54-02034	160	160	PCE	0.376	1.54	0.314	0.533
54-02034	160	160	TCA	4.73	4.01	1.45	7.24
54-02034	160	160	TCE	1.18	1.14	0.5	1.66
54-02034	200	200	Freon-11	0.121	–0.055	0.022	0.0835
54-02034	200	200	PCE	0.425	0.894	0.276	0.619
54-02034	200	200	TCA	2.78	1.64	1.08	4.84
54-02034	200	200	TCE	0.962	1.08	0.553	1.3
54-02034	220	220	Freon-11	0.11	0.106	0.019	0.107
54-02034	220	220	PCE	0.62	0.22	0.17	0.394
54-02034	220	220	TCA	2.1	2.01	0.783	3.9
54-02034	220	220	TCE	0.633	1.27	0.388	0.957
54-02034	260	260	Freon-11	–0.044	0.124	–0.027	–0.825
54-02034	260	260	PCE	0.0645	0.065	0.133	–0.0241
54-02034	260	260	TCA	–0.597	–2.2	0.054	0.881
54-02034	260	260	TCE	0.215	–0.131	0.29	0.365
54-02034	300	300	Freon-11	–0.128	–0.09	–0.022	–0.029
54-02034	300	300	PCE	0.125	0.323	0.047	–0.025
54-02034	300	300	TCA	–1.7	–3	–0.335	–0.107

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-02034	300	300	TCE	0.598	0.872	0.143	0.417
54-02089	13	13	Freon-11	26.8	14.2	19.7	11.5
54-02089	13	13	PCE	128	69.5	108	86.3
54-02089	13	13	TCA	383	221	325	315
54-02089	13	13	TCE	128	78.7	115	104
54-02089	31	31	Freon-11	20.3	13.3	23.6	17.3
54-02089	31	31	PCE	94.6	60.9	128	128
54-02089	31	31	TCA	299	191	383	395
54-02089	31	31	TCE	81.4	58.1	117	114
54-02089	46	46	Freon-11	34.3	24.2	30.8	24.5
54-02089	46	46	PCE	161	124	174	183
54-02089	46	46	TCA	579	411	505	535
54-02089	46	46	TCE	140	110	140	141
54-02089	86	86	Freon-11	34.8	16.7	26.4	24.7
54-02089	86	86	PCE	165	84.2	144	181
54-02089	86	86	TCA	539	313	463	567
54-02089	86	86	TCE	140	78	120	143
54-24238	44	44	Freon-11	35.3	22.7	26.7	24
54-24238	44	44	PCE	171	120	153	183
54-24238	44	44	TCA	629	429	477	643
54-24238	44	44	TCE	129	95.4	111	130
54-24238	64	64	Freon-11	37.6	26.6	28.4	25.8
54-24238	64	64	PCE	181	140	161	194
54-24238	64	64	TCA	722	556	551	770
54-24238	64	64	TCE	127	92.5	98.5	130
54-24238	84	84	Freon-11	36.3	25.9	31.4	23.1
54-24238	84	84	PCE	171	133	176	168
54-24238	84	84	TCA	621	488	559	573
54-24238	84	84	TCE	126	91.1	109	123
54-24239	25	25	Freon-11	5.16	3.52	1.9	2.75
54-24239	25	25	PCE	125	48.4	99.9	63
54-24239	25	25	TCA	107	108	85.9	132
54-24239	25	25	TCE	30.3	26.6	30.7	34.7
54-24239	50	50	Freon-11	9.03	4.14	6.37	3.46
54-24239	50	50	PCE	93.8	53.2	93.1	69.1
54-24239	50	50	TCA	227	126	196	157

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-24239	50	50	TCE	51.4	30.8	51.7	40.9
54-24239	75	75	Freon-11	8.51	4.51	5.34	3.95
54-24239	75	75	PCE	107	55.3	108	71.3
54-24239	75	75	TCA	206	137	179	175
54-24239	75	75	TCE	47.4	33.9	49.7	44.9
54-24239	99.5	99.5	Freon-11	7.14	4.95	3.81	4.42
54-24239	99.5	99.5	PCE	127	53.5	114	70.2
54-24239	99.5	99.5	TCA	171	146	144	188
54-24239	99.5	99.5	TCE	43.4	35.5	44.3	47.7
54-24240	28	28	Freon-11	5.3	9.08	5.33	6.28
54-24240	28	28	PCE	53.9	81.6	71.9	85.3
54-24240	28	28	TCA	281	367	331	391
54-24240	28	28	TCE	104	133	133	187
54-24240	53	53	Freon-11	15.2	12.5	10.6	10.2
54-24240	53	53	PCE	93.9	88.5	88.6	88.4
54-24240	53	53	TCA	709	439	572	555
54-24240	53	53	TCE	154	117	168	168
54-24240	78	78	Freon-11	9.73	4.38	6.69	5.85
54-24240	78	78	PCE	64.2	40.8	67.4	62.4
54-24240	78	78	TCA	440	280	383	352
54-24240	78	78	TCE	96.9	61	99.6	89.6
54-24240	103	103	Freon-11	5.95	3.1	3.79	3.4
54-24240	103	103	PCE	42.7	27.9	44.1	40.8
54-24240	103	103	TCA	346	245	314	294
54-24240	103	103	TCE	70.7	50.9	69.4	65
54-24240	128	128	Freon-11	4.78	2.72	3.25	2.96
54-24240	128	128	PCE	30.3	19.8	32.7	27.2
54-24240	128	128	TCA	297	205	287	260
54-24240	128	128	TCE	60.4	43	59.9	55
54-24240	153	153	Freon-11	4.19	2.53	2.97	2.62
54-24240	153	153	PCE	25.7	16.8	26.8	20.2
54-24240	153	153	TCA	272	170	250	200
54-24240	153	153	TCE	55.6	37	54.8	44
54-24241	73	73	Freon-11	11.1	7.88	8.6	9.66
54-24241	73	73	PCE	65.1	46.2	60.4	88.7
54-24241	73	73	TCA	320	239	226	384

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-24241	73	73	TCE	49.8	41.6	46.4	69.6
54-24241	93	93	Freon-11	9.77	7.32	7.4	8.86
54-24241	93	93	PCE	56.5	43.2	50	79.5
54-24241	93	93	TCA	245	198	178	312
54-24241	93	93	TCE	45.4	39.8	37.2	62.9
54-24241	113	113	Freon-11	7.68	8.04	6.8	7.88
54-24241	113	113	PCE	42.7	45.5	41.6	65.8
54-24241	113	113	TCA	183	193	141	243
54-24241	113	113	TCE	37.7	42	32	49.8
54-24241	133	133	Freon-11	8.97	7.85	6.98	7.43
54-24241	133	133	PCE	47.1	40.2	41.6	58.4
54-24241	133	133	TCA	182	159	142	204
54-24241	133	133	TCE	38.7	37.7	34	45.7
54-24241	153	153	Freon-11	7.75	7.89	7.14	7.52
54-24241	153	153	PCE	39.6	37.7	41.2	55.9
54-24241	153	153	TCA	150	142	140	192
54-24241	153	153	TCE	33.8	34.7	33	43.8
54-24241	173	173	Freon-11	7.91	7.37	9.56	7.75
54-24241	173	173	PCE	38.3	36.8	69.7	54.6
54-24241	173	173	TCA	152	139	294	181
54-24241	173	173	TCE	33.5	34.6	55.2	42.6
54-24241	193	193	Freon-11	8.23	8.77	7.79	8.01
54-24241	193	193	PCE	40.3	39.6	43.4	53.3
54-24241	193	193	TCA	150	144	141	171
54-24241	193	193	TCE	34.9	36.4	34.6	41.1
54-24242	25	25	Freon-11	5.1	3.02	4.41	2.03
54-24242	25	25	PCE	59.7	67.4	64.9	143
54-24242	25	25	TCA	137	60.1	125	89.1
54-24242	25	25	TCE	32.7	19.2	31.2	29.6
54-24242	50	50	Freon-11	6.16	6.61	5.42	4.36
54-24242	50	50	PCE	68.7	70.5	73.2	75.8
54-24242	50	50	TCA	170	160	148	163
54-24242	50	50	TCE	40.9	35.5	36.8	40.2
54-24242	75	75	Freon-11	6.44	5.96	5.84	3.91
54-24242	75	75	PCE	68.8	80.2	75.8	87.4
54-24242	75	75	TCA	178	145	160	153

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-24242	75	75	TCE	42.9	33.4	39.5	39.8
54-24242	100	100	Freon-11	6.97	4.84	6.42	3.49
54-24242	100	100	PCE	68.2	88.1	74.9	124
54-24242	100	100	TCA	188	114	171	150
54-24242	100	100	TCE	45.1	29.8	41.7	45.8
54-24242	110.5	110.5	Freon-11	–0.032	6.31	NA	5.78
54-24242	110.5	110.5	PCE	0.981	66.2	NA	94.2
54-24242	110.5	110.5	TCA	–0.619	157	NA	219
54-24242	110.5	110.5	TCE	0.379	35.5	NA	55.2
54-24243	25	25	Freon-11	12.8	8.44	11.4	8.34
54-24243	25	25	PCE	61.7	42.6	62.7	60.8
54-24243	25	25	TCA	201	142	188	198
54-24243	25	25	TCE	39.1	28.5	38.6	40.9
54-24243	50	50	Freon-11	18.7	14.9	20	15.5
54-24243	50	50	PCE	89.4	74.5	110	113
54-24243	50	50	TCA	260	210	276	298
54-24243	50	50	TCE	51	38.4	56.4	62.7
54-24243	75	75	Freon-11	22.3	15.1	20	15.9
54-24243	75	75	PCE	102	72.4	106	110
54-24243	75	75	TCA	333	238	302	325
54-24243	75	75	TCE	64.8	45.4	64.3	70.1
54-24243	100	100	Freon-11	20.5	13.9	17.7	13.7
54-24243	100	100	PCE	88	63.3	88.6	-88.7
54-24243	100	100	TCA	337	240	296	315
54-24243	100	100	TCE	65.2	46.3	63.1	65.4
54-24243	125	125	Freon-11	18.7	12.2	15.9	12
54-24243	125	125	PCE	74.6	51.8	73.5	71.3
54-24243	125	125	TCA	311	206	261	272
54-24243	125	125	TCE	62.8	39.6	55	52.5
54-24399	550	608	Freon-11	NA	NA	–0.012	–0.0785
54-24399	550	608	PCE	NA	NA	0.387	1.42
54-24399	550	608	TCA	NA	NA	1.16	1.84
54-24399	550	608	TCE	NA	NA	0.691	1.23
54-27641	32	32	Freon-11	5.25	3.94	5.1	3.98
54-27641	32	32	PCE	49.8	38.2	55	54.2
54-27641	32	32	TCA	376	242	283	295

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-27641	32	32	TCE	119	76.1	97	109
54-27641	82	82	Freon-11	4.46	2.7	3.47	2.98
54-27641	82	82	PCE	46.5	31.5	44.4	48.1
54-27641	82	82	TCA	338	218	230	270
54-27641	82	82	TCE	52.4	36.6	42.5	52
54-27641	115	115	Freon-11	3.39	1.98	2.74	2.45
54-27641	115	115	PCE	27.2	17.7	27.9	30
54-27641	115	115	TCA	298	187	224	251
54-27641	115	115	TCE	48	30.4	38.4	45.4
54-27641	182	182	Freon-11	3	1.92	2.39	2.15
54-27641	182	182	PCE	14.1	9.76	13.2	14.2
54-27641	182	182	TCA	187	135	159	173
54-27641	182	182	TCE	36.1	25.5	29.7	33.6
54-27641	232	232	Freon-11	2.49	1.3	1.66	1.84
54-27641	232	232	PCE	10.2	6.05	8.62	10.4
54-27641	232	232	TCA	83.6	50.8	63.5	87.1
54-27641	232	232	TCE	19.7	11.6	14.9	19.5
54-27641	272	272	Freon-11	1.59	0.826	1.23	1.23
54-27641	272	272	PCE	6.03	3.51	5.75	6.64
54-27641	272	272	TCA	24.5	13.8	22.5	33.1
54-27641	272	272	TCE	7.48	4.28	6.44	8.85
54-27641	332	332	Freon-11	0.241	0.061	0.144	0.192
54-27641	332	332	PCE	1.23	0.776	1.11	1.29
54-27641	332	332	TCA	–0.11	–1.3	–0.8	2.48
54-27641	332	332	TCE	1.64	0.695	1.13	1.47
54-27642	30	30	Freon-11	20.1	14.4	16	14.4
54-27642	30	30	PCE	93.9	72.7	90.1	105
54-27642	30	30	TCA	706	542	570	675
54-27642	30	30	TCE	48.5	343	41.2	48.1
54-27642	75	75	Freon-11	24.2	16.2	20.7	16.6
54-27642	75	75	PCE	93.4	69.3	96.2	101
54-27642	75	75	TCA	416	297	345	376
54-27642	75	75	TCE	83	57.4	71.1	75.5
54-27642	116	116	Freon-11	27.9	18.7	24.6	19.7
54-27642	116	116	PCE	127	91.8	129	138
54-27642	116	116	TCA	570	442	529	569

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-27642	116	116	TCE	87.5	60.8	75.6	83.2
54-27642	175	175	Freon-11	22.1	14.4	18.8	15.2
54-27642	175	175	PCE	71.2	51	70.3	73.5
54-27642	175	175	TCA	290	199	235	272
54-27642	175	175	TCE	57.7	40.5	50.8	55.8
54-27642	235	235	Freon-11	18.6	12.1	15.7	13.1
54-27642	235	235	PCE	58.5	41.9	57.9	61.5
54-27642	235	235	TCA	170	118	143	165
54-27642	235	235	TCE	38.5	27.3	34.6	38.7
54-27642	275	275	Freon-11	13.5	8.83	11.5	9.81
54-27642	275	275	PCE	43.5	30.8	42.5	45.9
54-27642	275	275	TCA	93.7	65.2	81.6	93.5
54-27642	275	275	TCE	24.7	17.1	21.9	25.4
54-27642	338	338	Freon-11	3.29	2.3	2.88	2.54
54-27642	338	338	PCE	11.3	8.19	11.3	12.4
54-27642	338	338	TCA	12.3	8.1	14.3	15.8
54-27642	338	338	TCE	5.54	3.24	4.95	5.96
54-27643	30	30	Freon-11	4.47	3.25	4.23	3.14
54-27643	30	30	PCE	18.1	14.2	20.2	20.4
54-27643	30	30	TCA	87.2	58	87.2	88.5
54-27643	30	30	TCE	14.6	9.62	13.8	13.4
54-27643	74	74	Freon-11	7.31	4.76	6.2	4.84
54-27643	74	74	PCE	27.7	20.3	29.1	29.6
54-27643	74	74	TCA	126	81.4	113	119
54-27643	74	74	TCE	23.2	15.9	22.5	22.9
54-27643	117	117	Freon-11	9.87	5.61	8.53	5.81
54-27643	117	117	PCE	32.8	20.2	32.9	29.6
54-27643	117	117	TCA	145	83.5	125	120
54-27643	117	117	TCE	25.8	15.3	23.7	23
54-27643	167	167	Freon-11	12.3	5.98	10.7	6.38
54-27643	167	167	PCE	38.5	20.1	39.1	30
54-27643	167	167	TCA	145	69.2	121	101
54-27643	167	167	TCE	26.7	12.9	24.8	19.7
54-27643	235	235	Freon-11	11.4	6.88	10.1	6.71
54-27643	235	235	PCE	36.2	23.5	37.1	31.3
54-27643	235	235	TCA	97.5	60	84.1	78.4

Table 4.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Borehole Length at Sampling Port (ft)	Analyte	B&K Result Q1 FY2008 (ppm)	B&K Result Q2 FY2008 (ppm)	B&K Result Q3 FY2008 (ppm)	B&K Result Q4 FY2008 (ppm)
54-27643	235	235	TCE	20.4	12.9	18.9	17.6
54-27643	275	275	Freon-11	8.98	3.88	7.87	5.02
54-27643	275	275	PCE	28.8	13.6	29.1	23.3
54-27643	275	275	TCA	58.6	26.1	50.9	45.3
54-27643	275	275	TCE	13.8	6.24	12.6	11.4
54-27643	354	354	Freon-11	2.54	0.549	2.64	1.41
54-27643	354	354	PCE	9.17	2.02	10.3	6.62
54-27643	354	354	TCA	7.59	1.41	10.3	7.02
54-27643	354	354	TCE	3.91	1.03	3.28	2.4

[a] NA = Not analyzed.

[b] - = Port blocked or partially blocked (B&K readings are low and/or unstable).

Table 5.1-1
FY2008 VOC Pore-Gas Results at MDA L

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	Analytical Result (µg/m^3)
54-02001	40	Carbon Tetrachloride	8/27/2008	1700
54-02001	40	Carbon Tetrachloride	3/24/2008	1700
54-02001	40	Chloroform	3/24/2008	4500
54-02001	40	Chloroform	5/27/2008	2000
54-02001	40	Cyclohexane	3/24/2008	36,000
54-02001	40	Cyclohexane	5/27/2008	6200
54-02001	40	Dichlorodifluoromethane	8/27/2008	8000
54-02001	40	Dichlorodifluoromethane	12/20/2007	10,000
54-02001	40	Dichlorodifluoromethane	5/27/2008	5900
54-02001	40	Dichlorodifluoromethane	3/24/2008	14,000
54-02001	40	DCA	8/27/2008	38,000
54-02001	40	DCA	12/20/2007	59,000
54-02001	40	DCA	3/24/2008	46,000
54-02001	40	DCA	5/27/2008	16,000
54-02001	40	Dichloroethane[1,2-]	8/27/2008	80,000
54-02001	40	Dichloroethane[1,2-]	5/27/2008	40,000
54-02001	40	Dichloroethane[1,2-]	3/24/2008	72,000
54-02001	40	Dichloroethane[1,2-]	12/20/2007	83,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02001	40	DCE	8/27/2008	10,000
54-02001	40	DCE	12/20/2007	240,000
54-02001	40	DCE	3/24/2008	10,000
54-02001	40	DCE	5/27/2008	4800
54-02001	40	Dichloropropane[1,2-]	8/27/2008	3000
54-02001	40	Dichloropropane[1,2-]	12/20/2007	2900
54-02001	40	Dichloropropane[1,2-]	3/24/2008	2300
54-02001	40	Hexane	8/27/2008	740
54-02001	40	Methylene Chloride	8/27/2008	36,000
54-02001	40	Methylene Chloride	3/24/2008	51,000
54-02001	40	Methylene Chloride	5/27/2008	20,000
54-02001	40	Propanol[2-]	5/27/2008	3500
54-02001	40	PCE	8/27/2008	130,000
54-02001	40	PCE	5/27/2008	65,000
54-02001	40	PCE	12/20/2007	180,000
54-02001	40	PCE	3/24/2008	150,000
54-02001	40	Toluene	8/27/2008	1000
54-02001	40	Toluene	5/27/2008	2400
54-02001	40	Toluene	3/24/2008	1100
54-02001	40	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/27/2008	36,000
54-02001	40	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/24/2008	36,000
54-02001	40	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/27/2008	17,000
54-02001	40	TCA	8/27/2008	680,000
54-02001	40	TCA	5/27/2008	570,000
54-02001	40	TCA	12/20/2007	1,300,000
54-02001	40	TCA	3/24/2008	1,300,000
54-02001	40	TCE	8/27/2008	280,000
54-02001	40	TCE	12/20/2007	410,000
54-02001	40	TCE	3/24/2008	360,000
54-02001	40	TCE	5/27/2008	150,000
54-02001	40	Freon-11	8/27/2008	8500
54-02001	40	Freon-11	12/20/2007	8700
54-02001	40	Freon-11	3/24/2008	10,000
54-02001	40	Freon-11	5/27/2008	5200
54-02001	80	Carbon Tetrachloride	8/27/2008	1400
54-02001	80	Chloroform	5/27/2008	2500
54-02001	80	Cyclohexane	5/27/2008	7400

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02001	80	Dichlorodifluoromethane	8/27/2008	7000
54-02001	80	Dichlorodifluoromethane	5/27/2008	4600
54-02001	80	DCA	8/27/2008	31,000
54-02001	80	DCA	5/27/2008	16,000
54-02001	80	Dichloroethane[1,2-]	8/27/2008	61,000
54-02001	80	Dichloroethane[1,2-]	5/27/2008	38,000
54-02001	80	Dichloroethane[1,2-]	8/27/2008	61,000
54-02001	80	DCE	8/27/2008	11,000
54-02001	80	DCE	5/27/2008	6400
54-02001	80	Dichloropropane[1,2-]	8/27/2008	3900
54-02001	80	Hexane	8/27/2008	700
54-02001	80	Methylene Chloride	8/27/2008	40,000
54-02001	80	Methylene Chloride	5/27/2008	25,000
54-02001	80	PCE	8/27/2008	130,000
54-02001	80	PCE	5/27/2008	66,000
54-02001	80	Toluene	8/27/2008	760
54-02001	80	Toluene	5/27/2008	1900
54-02001	80	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/27/2008	28,000
54-02001	80	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/27/2008	14,000
54-02001	80	TCA	8/27/2008	680,000
54-02001	80	TCA	5/27/2008	650,000
54-02001	80	TCE	8/27/2008	200,000
54-02001	80	TCE	5/27/2008	110,000
54-02001	80	Freon-11	8/27/2008	6500
54-02001	80	Freon-11	5/27/2008	4700
54-02001	100	Chloroform	3/24/2008	4500
54-02001	100	Cyclohexane	3/24/2008	33,000
54-02001	100	Dichlorodifluoromethane	3/24/2008	6500
54-02001	100	Dichlorodifluoromethane	12/20/2007	3300
54-02001	100	DCA	3/24/2008	31,000
54-02001	100	DCA	12/20/2007	15,000
54-02001	100	Dichloroethane[1,2-]	3/24/2008	52,000
54-02001	100	Dichloroethane[1,2-]	12/20/2007	27,000
54-02001	100	DCE	12/20/2007	100,000
54-02001	100	DCE	3/24/2008	13,000
54-02001	100	Dichloropropane[1,2-]	12/20/2007	1400
54-02001	100	Dichloropropane[1,2-]	3/24/2008	2800

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02001	100	Methylene Chloride	3/24/2008	46,000
54-02001	100	PCE	3/24/2008	98,000
54-02001	100	PCE	12/20/2007	54,000
54-02001	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/24/2008	23,000
54-02001	100	TCA	3/24/2008	1,200,000
54-02001	100	TCA	12/20/2007	430,000
54-02001	100	TCE	3/24/2008	200,000
54-02001	100	TCE	12/20/2007	99,000
54-02001	100	Freon-11	3/24/2008	5800
54-02001	100	Freon-11	12/20/2007	2600
54-02001	120	Carbon Tetrachloride	8/27/2008	1100
54-02001	120	Chloroform	3/24/2008	4600
54-02001	120	Chloroform	5/27/2008	2400
54-02001	120	Cyclohexane	3/24/2008	24,000
54-02001	120	Cyclohexane	5/27/2008	7200
54-02001	120	Dichlorodifluoromethane	8/27/2008	4300
54-02001	120	Dichlorodifluoromethane	3/24/2008	3400
54-02001	120	Dichlorodifluoromethane	12/20/2007	5400
54-02001	120	Dichlorodifluoromethane	5/27/2008	2800
54-02001	120	DCA	8/27/2008	25,000
54-02001	120	DCA	5/27/2008	13,000
54-02001	120	DCA	3/24/2008	25,000
54-02001	120	DCA	12/20/2007	28,000
54-02001	120	Dichloroethane[1,2-]	8/27/2008	40,000
54-02001	120	Dichloroethane[1,2-]	5/27/2008	28,000
54-02001	120	Dichloroethane[1,2-]	3/24/2008	36,000
54-02001	120	Dichloroethane[1,2-]	12/20/2007	52,000
54-02001	120	DCE	8/27/2008	17,000
54-02001	120	DCE	5/27/2008	10,000
54-02001	120	DCE	3/24/2008	16,000
54-02001	120	DCE	12/20/2007	230,000
54-02001	120	Dichloropropane[1,2-]	8/27/2008	4600
54-02001	120	Dichloropropane[1,2-]	5/27/2008	1800
54-02001	120	Dichloropropane[1,2-]	12/20/2007	4300
54-02001	120	Dichloropropane[1,2-]	3/24/2008	3800
54-02001	120	Methylene Chloride	8/27/2008	32,000
54-02001	120	Methylene Chloride	5/27/2008	20,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02001	120	Methylene Chloride	3/24/2008	36,000
54-02001	120	Propylene	3/24/2008	3600
54-02001	120	PCE	8/27/2008	60,000
54-02001	120	PCE	5/27/2008	26,000
54-02001	120	PCE	3/24/2008	50,000
54-02001	120	PCE	12/20/2007	52,000
54-02001	120	Toluene	5/27/2008	2900
54-02001	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/27/2008	22,000
54-02001	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/27/2008	13000
54-02001	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/24/2008	20,000
54-02001	120	TCA	8/27/2008	700,000
54-02001	120	TCA	5/27/2008	680,000
54-02001	120	TCA	3/24/2008	810,000
54-02001	120	TCA	12/20/2007	1,100,000
54-02001	120	TCE	8/27/2008	180,000
54-02001	120	TCE	5/27/2008	100,000
54-02001	120	TCE	12/20/2007	230,000
54-02001	120	TCE	3/24/2008	200,000
54-02001	120	Freon-11	8/27/2008	4300
54-02001	120	Freon-11	5/27/2008	3200
54-02001	120	Freon-11	12/20/2007	4900
54-02001	140	Carbon Tetrachloride	8/27/2008	1200
54-02001	140	Chloroform	5/27/2008	3300
54-02001	140	Cyclohexane	5/27/2008	8600
54-02001	140	Dichlorodifluoromethane	8/27/2008	4800
54-02001	140	Dichlorodifluoromethane	5/27/2008	3300
54-02001	140	DCA	8/27/2008	28,000
54-02001	140	DCA	5/27/2008	16,000
54-02001	140	Dichloroethane[1,2-]	5/27/2008	36,000
54-02001	140	Dichloroethane[1,2-]	8/27/2008	48,000
54-02001	140	DCE	5/27/2008	11,000
54-02001	140	DCE	8/27/2008	17,000
54-02001	140	Dichloropropane[1,2-]	8/27/2008	5100
54-02001	140	Dichloropropane[1,2-]	5/27/2008	2500
54-02001	140	Methylene Chloride	8/27/2008	37,000
54-02001	140	Methylene Chloride	5/27/2008	26,000
54-02001	140	Propanol[2-]	5/27/2008	13,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02001	140	PCE	8/27/2008	74,000
54-02001	140	PCE	5/27/2008	35,000
54-02001	140	Toluene	5/27/2008	1700 (J)*
54-02001	140	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/27/2008	24,000
54-02001	140	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/27/2008	16,000
54-02001	140	TCA	8/27/2008	710,000
54-02001	140	TCA	5/27/2008	800,000
54-02001	140	TCE	8/27/2008	190,000
54-02001	140	TCE	5/27/2008	120,000
54-02001	140	Freon-11	8/27/2008	4600
54-02001	140	Freon-11	5/27/2008	4200
54-02001	200	Carbon Tetrachloride	3/25/2008	780
54-02001	200	Chloroform	3/25/2008	1500
54-02001	200	Cyclohexane	3/25/2008	12,000
54-02001	200	Dichlorodifluoromethane	3/25/2008	2200
54-02001	200	Dichlorodifluoromethane	12/20/2007	4200
54-02001	200	DCA	12/20/2007	13,000
54-02001	200	DCA	3/25/2008	7500
54-02001	200	Dichloroethane[1,2-]	3/25/2008	3300
54-02001	200	Dichloroethane[1,2-]	12/20/2007	6000
54-02001	200	DCE	3/25/2008	13,000
54-02001	200	DCE	12/20/2007	140,000
54-02001	200	Dichloropropane[1,2-]	12/20/2007	920
54-02001	200	Dichloropropane[1,2-]	3/25/2008	460
54-02001	200	Methylene Chloride	3/25/2008	8300
54-02001	200	PCE	3/25/2008	11,000
54-02001	200	PCE	12/20/2007	21,000
54-02001	200	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/25/2008	13,000
54-02001	200	TCA	12/20/2007	550,000
54-02001	200	TCA	3/25/2008	440,000
54-02001	200	TCE	12/20/2007	150,000
54-02001	200	TCE	3/25/2008	90,000
54-02001	200	Freon-11	12/20/2007	4200
54-02001	200	Freon-11	3/25/2008	2400
54-02002	40	Benzene	8/7/2008	2000
54-02002	40	Carbon Tetrachloride	8/7/2008	2900
54-02002	40	Chlorobenzene	8/7/2008	1200

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02002	40	Chloroform	8/7/2008	17,000
54-02002	40	DCA	8/7/2008	8100
54-02002	40	Dichloroethane[1,2-]	8/7/2008	12,000
54-02002	40	DCE	8/7/2008	21,000
54-02002	40	Dichloropropane[1,2-]	8/7/2008	27,000
54-02002	40	Hexane	8/7/2008	720
54-02002	40	Methylene Chloride	8/7/2008	36,000
54-02002	40	PCE	8/7/2008	24,000
54-02002	40	Toluene	8/7/2008	4200
54-02002	40	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/7/2008	120,000
54-02002	40	TCA	8/7/2008	490,000
54-02002	40	TCE	8/7/2008	150,000
54-02002	40	Freon-11	8/7/2008	14,000
54-02002	40	Xylene[1,2-]	8/7/2008	2300
54-02002	40	Xylene[1,3-]+Xylene[1,4-]	8/7/2008	1100
54-02002	60	Carbon Tetrachloride	6/3/2008	4000
54-02002	60	Chloroform	6/3/2008	22,000
54-02002	60	Cyclohexane	6/3/2008	12,000
54-02002	60	Dichlorodifluoromethane	6/3/2008	1300
54-02002	60	DCA	6/3/2008	20,000
54-02002	60	DCA	4/7/2008	22,000
54-02002	60	Dichloroethane[1,2-]	6/3/2008	7400
54-02002	60	DCE	6/3/2008	280,000
54-02002	60	DCE	4/7/2008	29,000
54-02002	60	Dichloropropane[1,2-]	4/7/2008	47,000
54-02002	60	Dichloropropane[1,2-]	6/3/2008	49,000
54-02002	60	Methylene Chloride	6/3/2008	4500
54-02002	60	PCE	6/3/2008	37,000
54-02002	60	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/3/2008	210,000
54-02002	60	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/7/2008	290,000
54-02002	60	TCA	6/3/2008	920,000
54-02002	60	TCA	4/7/2008	1,600,000
54-02002	60	TCE	6/3/2008	230,000
54-02002	60	TCE	4/7/2008	230,000
54-02002	60	Freon-11	6/3/2008	11,000
54-02002	100	Benzene	8/7/2008	2000
54-02002	100	Benzene	6/3/2008	1700

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02002	100	Carbon Tetrachloride	8/7/2008	3600
54-02002	100	Carbon Tetrachloride	6/3/2008	5100
54-02002	100	Chlorobenzene	8/7/2008	1700
54-02002	100	Chlorobenzene	6/3/2008	1500
54-02002	100	Chloroform	8/7/2008	23,000
54-02002	100	Chloroform	6/3/2008	25,000
54-02002	100	Chloroform	4/7/2008	27,000
54-02002	100	Cyclohexane	6/3/2008	13,000
54-02002	100	Dichlorodifluoromethane	6/3/2008	1700
54-02002	100	DCA	8/7/2008	16,000
54-02002	100	DCA	6/3/2008	17,000
54-02002	100	Dichloroethane[1,2-]	8/7/2008	17,000
54-02002	100	Dichloroethane[1,2-]	6/3/2008	17,000
54-02002	100	DCE	8/7/2008	23,000
54-02002	100	DCE	4/7/2008	39,000
54-02002	100	DCE	6/3/2008	230,000
54-02002	100	Dichloropropane[1,2-]	8/7/2008	55,000
54-02002	100	Dichloropropane[1,2-]	6/3/2008	52,000
54-02002	100	Dichloropropane[1,2-]	4/7/2008	55,000
54-02002	100	Ethanol	6/3/2008	5700
54-02002	100	Methylene Chloride	8/7/2008	38,000
54-02002	100	Methylene Chloride	4/7/2008	59,000
54-02002	100	Methylene Chloride	6/3/2008	43,000
54-02002	100	PCE	8/7/2008	38,000
54-02002	100	PCE	6/3/2008	38,000
54-02002	100	Tetrahydrofuran	8/7/2008	21,000
54-02002	100	Tetrahydrofuran	6/3/2008	23,000
54-02002	100	Toluene	8/7/2008	7100
54-02002	100	Toluene	6/3/2008	6600
54-02002	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/7/2008	200,000
54-02002	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/7/2008	310,000
54-02002	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/3/2008	220,000
54-02002	100	TCA	8/7/2008	790,000
54-02002	100	TCA	6/3/2008	930,000
54-02002	100	TCA	4/7/2008	1,500,000
54-02002	100	TCE	8/7/2008	220,000
54-02002	100	TCE	4/7/2008	260,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02002	100	TCE	6/3/2008	240,000
54-02002	100	Freon-11	8/7/2008	15,000
54-02002	100	Freon-11	6/3/2008	18,000
54-02002	100	Xylene[1,2-]	8/7/2008	3400
54-02002	100	Xylene[1,2-]	6/3/2008	2800
54-02002	100	Xylene[1,3-]+Xylene[1,4-]	8/7/2008	3000
54-02002	100	Xylene[1,3-]+Xylene[1,4-]	6/3/2008	2800
54-02002	120	Benzene	8/7/2008	2200
54-02002	120	Benzene	6/3/2008	2100
54-02002	120	Carbon Tetrachloride	8/7/2008	3600
54-02002	120	Carbon Tetrachloride	6/3/2008	5300
54-02002	120	Chlorobenzene	8/7/2008	1700
54-02002	120	Chlorobenzene	6/3/2008	1600
54-02002	120	Chloroform	8/7/2008	22,000
54-02002	120	Chloroform	4/7/2008	25,000
54-02002	120	Chloroform	6/3/2008	25,000
54-02002	120	Cyclohexane	6/3/2008	12,000
54-02002	120	Dichlorodifluoromethane	6/3/2008	1800
54-02002	120	DCA	8/7/2008	13,000
54-02002	120	DCA	6/3/2008	15,000
54-02002	120	Dichloroethane[1,2-]	8/7/2008	17,000
54-02002	120	Dichloroethane[1,2-]	4/7/2008	18,000
54-02002	120	Dichloroethane[1,2-]	6/3/2008	18,000
54-02002	120	DCE	8/7/2008	25,000
54-02002	120	DCE	4/7/2008	40,000
54-02002	120	DCE	6/3/2008	190,000
54-02002	120	Dichloropropane[1,2-]	8/7/2008	44,000
54-02002	120	Dichloropropane[1,2-]	4/7/2008	42,000
54-02002	120	Dichloropropane[1,2-]	6/3/2008	46,000
54-02002	120	Ethanol	6/3/2008	6400
54-02002	120	Hexane	6/3/2008	790
54-02002	120	Methylene Chloride	8/7/2008	44,000
54-02002	120	Methylene Chloride	6/3/2008	52,000
54-02002	120	Methylene Chloride	4/7/2008	60,000
54-02002	120	PCE	8/7/2008	34,000
54-02002	120	PCE	6/3/2008	36,000
54-02002	120	Tetrahydrofuran	8/7/2008	6000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02002	120	Tetrahydrofuran	6/3/2008	7000
54-02002	120	Toluene	8/7/2008	5200
54-02002	120	Toluene	6/3/2008	5000
54-02002	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/7/2008	170,000
54-02002	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/3/2008	210,000
54-02002	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/7/2008	270,000
54-02002	120	TCA	8/7/2008	700,000
54-02002	120	TCA	6/3/2008	900,000
54-02002	120	TCA	4/7/2008	1,200,000
54-02002	120	TCE	8/7/2008	200,000
54-02002	120	TCE	4/7/2008	240,000
54-02002	120	TCE	6/3/2008	250,000
54-02002	120	Freon-11	8/7/2008	16,000
54-02002	120	Freon-11	6/3/2008	20,000
54-02002	120	Xylene[1,2-]	8/7/2008	3200
54-02002	120	Xylene[1,2-]	6/3/2008	2800
54-02002	120	Xylene[1,3-]+Xylene[1,4-]	8/7/2008	2100
54-02002	120	Xylene[1,3-]+Xylene[1,4-]	6/3/2008	2000
54-02002	180	Benzene	8/7/2008	2200
54-02002	180	Benzene	6/3/2008	1900
54-02002	180	Carbon Tetrachloride	8/7/2008	3500
54-02002	180	Carbon Tetrachloride	6/3/2008	5100
54-02002	180	Chlorobenzene	8/7/2008	1600
54-02002	180	Chlorobenzene	6/3/2008	1300
54-02002	180	Chloroform	8/7/2008	22,000
54-02002	180	Chloroform	6/3/2008	24,000
54-02002	180	Cyclohexane	6/3/2008	12,000
54-02002	180	Dichlorodifluoromethane	6/3/2008	1800
54-02002	180	DCA	8/7/2008	12,000
54-02002	180	DCA	6/3/2008	14,000
54-02002	180	Dichloroethane[1,2-]	8/7/2008	17,000
54-02002	180	Dichloroethane[1,2-]	6/3/2008	17,000
54-02002	180	DCE	8/7/2008	25,000
54-02002	180	DCE	6/3/2008	190,000
54-02002	180	Dichloropropane[1,2-]	8/7/2008	43,000
54-02002	180	Dichloropropane[1,2-]	6/3/2008	42,000
54-02002	180	Ethanol	6/3/2008	5800

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02002	180	Hexane	6/3/2008	780
54-02002	180	Methylene Chloride	8/7/2008	44,000
54-02002	180	Methylene Chloride	6/3/2008	49,000
54-02002	180	PCE	8/7/2008	32,000
54-02002	180	PCE	6/3/2008	31,000
54-02002	180	Tetrahydrofuran	8/7/2008	4500
54-02002	180	Tetrahydrofuran	6/3/2008	5400
54-02002	180	Toluene	8/7/2008	4300
54-02002	180	Toluene	6/3/2008	3800
54-02002	180	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/7/2008	170,000
54-02002	180	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/3/2008	200,000
54-02002	180	TCA	8/7/2008	680,000
54-02002	180	TCA	6/3/2008	820,000
54-02002	180	TCE	8/7/2008	200,000
54-02002	180	TCE	6/3/2008	220,000
54-02002	180	Freon-11	8/7/2008	16,000
54-02002	180	Freon-11	6/3/2008	20,000
54-02002	180	Xylene[1,2-]	8/7/2008	3000
54-02002	180	Xylene[1,2-]	6/3/2008	2100
54-02002	180	Xylene[1,3-]+Xylene[1,4-]	8/7/2008	1600
54-02002	180	Xylene[1,3-]+Xylene[1,4-]	6/3/2008	1100
54-02002	200	Chloroform	4/7/2008	25,000
54-02002	200	DCA	4/7/2008	8300
54-02002	200	Dichloroethane[1,2-]	4/7/2008	8600
54-02002	200	DCE	4/7/2008	61,000
54-02002	200	Dichloropropane[1,2-]	4/7/2008	17,000
54-02002	200	Methylene Chloride	4/7/2008	66,000
54-02002	200	PCE	4/7/2008	20,000
54-02002	200	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/7/2008	260,000
54-02002	200	TCA	4/7/2008	910,000
54-02002	200	TCE	4/7/2008	200,000
54-02002	200	Freon-11	4/7/2008	32,000
54-02016	18	Benzene	8/20/2008	3300
54-02016	18	Carbon Tetrachloride	8/20/2008	6300
54-02016	18	Chloroform	8/20/2008	40,000
54-02016	18	DCA	8/20/2008	31,000
54-02016	18	Dichloroethane[1,2-]	8/20/2008	44,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02016	18	DCE	8/20/2008	56,000
54-02016	18	Dichloropropane[1,2-]	8/20/2008	160,000
54-02016	18	Ethanol	8/20/2008	10,000
54-02016	18	Methylene Chloride	8/20/2008	150,000
54-02016	18	PCE	8/20/2008	66,000
54-02016	18	Toluene	8/20/2008	2800
54-02016	18	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/20/2008	380,000
54-02016	18	TCA	8/20/2008	1,500,000
54-02016	18	TCE	8/20/2008	440,000
54-02016	18	Freon-11	8/20/2008	25,000
54-02016	31	Carbon Tetrachloride	4/1/2008	3000
54-02016	31	Carbon Tetrachloride	8/20/2008	2800
54-02016	31	Chloroform	4/1/2008	16,000
54-02016	31	Chloroform	5/16/2008	12,000
54-02016	31	Chloroform	8/20/2008	16,000
54-02016	31	Cyclohexane	5/16/2008	14,000
54-02016	31	Cyclohexane	4/1/2008	37,000
54-02016	31	DCA	5/16/2008	20,000
54-02016	31	DCA	4/1/2008	25,000
54-02016	31	DCA	8/20/2008	23,000
54-02016	31	Dichloroethane[1,2-]	5/16/2008	71,000
54-02016	31	Dichloroethane[1,2-]	4/1/2008	79,000
54-02016	31	Dichloroethane[1,2-]	8/20/2008	110,000
54-02016	31	DCE	4/1/2008	29,000
54-02016	31	DCE	5/16/2008	28,000
54-02016	31	DCE	8/20/2008	26,000
54-02016	31	Dichloropropane[1,2-]	4/1/2008	42,000
54-02016	31	Dichloropropane[1,2-]	5/16/2008	25,000
54-02016	31	Dichloropropane[1,2-]	8/20/2008	46,000
54-02016	31	Methylene Chloride	4/1/2008	3000
54-02016	31	Methylene Chloride	5/16/2008	2400
54-02016	31	Propanol[2-]	5/16/2008	12,000
54-02016	31	PCE	4/1/2008	30,000
54-02016	31	PCE	5/16/2008	12,000
54-02016	31	PCE	8/20/2008	34,000
54-02016	31	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/16/2008	310,000
54-02016	31	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/1/2008	390,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02016	31	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/20/2008	280,000
54-02016	31	TCA	5/16/2008	1,200,000
54-02016	31	TCA	4/1/2008	1,400,000
54-02016	31	TCA	8/20/2008	920,000
54-02016	31	TCE	4/1/2008	290,000
54-02016	31	TCE	5/16/2008	160,000
54-02016	31	TCE	8/20/2008	250,000
54-02016	31	Freon-11	5/16/2008	9900
54-02016	31	Freon-11	4/1/2008	9900
54-02016	31	Freon-11	8/20/2008	8100
54-02016	82	Chloroform	5/16/2008	5800
54-02016	82	Cyclohexane	5/16/2008	9400
54-02016	82	DCA	5/16/2008	11,000
54-02016	82	Dichloroethane[1,2-]	5/16/2008	4600
54-02016	82	DCE	5/16/2008	21,000
54-02016	82	Dichloropropane[1,2-]	5/16/2008	9200
54-02016	82	Propanol[2-]	5/16/2008	23,000
54-02016	82	PCE	5/16/2008	51,000
54-02016	82	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/16/2008	240,000
54-02016	82	TCA	5/16/2008	870,000
54-02016	82	TCE	5/16/2008	110,000
54-02016	82	Freon-11	5/16/2008	7500
54-02021	20	Carbon Tetrachloride	8/25/2008	460 (J)
54-02021	20	Chloroform	5/28/2008	270
54-02021	20	Chloroform	8/25/2008	800 (J)
54-02021	20	Cyclohexane	5/28/2008	900
54-02021	20	Dichlorodifluoromethane	5/28/2008	300
54-02021	20	Dichlorodifluoromethane	8/25/2008	1200 (J)
54-02021	20	DCA	5/28/2008	1400
54-02021	20	DCA	8/25/2008	3300 (J)
54-02021	20	Dichloroethane[1,2-]	5/28/2008	1200
54-02021	20	Dichloroethane[1,2-]	8/25/2008	1400 (J)
54-02021	20	DCE	5/28/2008	1800
54-02021	20	DCE	8/25/2008	7400 (J)
54-02021	20	Methylene Chloride	8/25/2008	3400 (J)
54-02021	20	PCE	5/28/2008	2400
54-02021	20	PCE	8/25/2008	5400 (J)

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02021	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/28/2008	1800
54-02021	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/25/2008	8800 (J)
54-02021	20	TCA	5/28/2008	85,000
54-02021	20	TCA	8/25/2008	180,000 (J)
54-02021	20	TCE	5/28/2008	14,000
54-02021	20	TCE	8/25/2008	44,000 (J)
54-02021	20	Freon-11	5/28/2008	430
54-02021	20	Freon-11	8/25/2008	1500 (J)
54-02021	60	Chloroform	3/26/2008	850
54-02021	60	Dichlorodifluoromethane	3/26/2008	840
54-02021	60	DCA	3/26/2008	4600
54-02021	60	Dichloroethane[1,2-]	3/26/2008	4700
54-02021	60	DCE	3/26/2008	5900
54-02021	60	Methylene Chloride	3/26/2008	780
54-02021	60	PCE	3/26/2008	4300
54-02021	60	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/26/2008	4700
54-02021	60	TCA	3/26/2008	220,000
54-02021	60	TCE	3/26/2008	37,000
54-02021	100	Chloroform	3/26/2008	1200
54-02021	100	Chloroform	8/25/2008	1100 (J)
54-02021	100	Cyclohexane	5/28/2008	1100
54-02021	100	Dichlorodifluoromethane	3/26/2008	1100
54-02021	100	Dichlorodifluoromethane	8/25/2008	960 (J)
54-02021	100	DCA	5/28/2008	1700
54-02021	100	DCA	3/26/2008	5500
54-02021	100	DCA	8/25/2008	5600 (J)
54-02021	100	Dichloroethane[1,2-]	5/28/2008	2700
54-02021	100	Dichloroethane[1,2-]	3/26/2008	7600
54-02021	100	Dichloroethane[1,2-]	8/25/2008	6800 (J)
54-02021	100	DCE	5/28/2008	2100
54-02021	100	DCE	3/26/2008	8100
54-02021	100	DCE	8/25/2008	5900 (J)
54-02021	100	Dichloropropane[1,2-]	3/26/2008	980
54-02021	100	Dichloropropane[1,2-]	8/25/2008	1000 (J)
54-02021	100	Methylene Chloride	3/26/2008	3200
54-02021	100	Methylene Chloride	5/28/2008	980
54-02021	100	Methylene Chloride	8/25/2008	2600 (J)

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02021	100	PCE	5/28/2008	2600
54-02021	100	PCE	3/26/2008	6500
54-02021	100	PCE	8/25/2008	8100 (J)
54-02021	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/28/2008	2300
54-02021	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/26/2008	6400
54-02021	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/25/2008	6700 (J)
54-02021	100	TCA	5/28/2008	110,000
54-02021	100	TCA	3/26/2008	330,000
54-02021	100	TCA	8/25/2008	250,000 (J)
54-02021	100	TCE	5/28/2008	18,000
54-02021	100	TCE	3/26/2008	54,000
54-02021	100	TCE	8/25/2008	55,000 (J)
54-02021	100	Freon-11	3/26/2008	1200
54-02021	120	Chloroform	5/28/2008	210
54-02021	120	Chloroform	8/25/2008	970
54-02021	120	Cyclohexane	5/28/2008	660
54-02021	120	Dichlorodifluoromethane	5/28/2008	250
54-02021	120	Dichlorodifluoromethane	8/25/2008	820
54-02021	120	DCA	5/28/2008	920
54-02021	120	DCA	8/25/2008	4700
54-02021	120	Dichloroethane[1,2-]	5/28/2008	1300
54-02021	120	Dichloroethane[1,2-]	8/25/2008	5000
54-02021	120	DCE	5/28/2008	1300
54-02021	120	DCE	8/25/2008	5100
54-02021	120	Dichloropropane[1,2-]	8/25/2008	780
54-02021	120	Methylene Chloride	5/28/2008	640
54-02021	120	Methylene Chloride	8/25/2008	2600
54-02021	120	PCE	5/28/2008	1300
54-02021	120	PCE	8/25/2008	7000
54-02021	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/28/2008	1500
54-02021	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/25/2008	5900
54-02021	120	TCA	5/28/2008	64,000
54-02021	120	TCA	8/25/2008	220,000
54-02021	120	TCE	5/28/2008	9900
54-02021	120	TCE	8/25/2008	50000
54-02021	120	Freon-11	5/28/2008	300
54-02021	140	Carbon Tetrachloride	8/25/2008	250 (J)

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02021	140	Chloroform	3/26/2008	1300
54-02021	140	Chloroform	5/28/2008	430
54-02021	140	Chloroform	8/25/2008	650 (J)
54-02021	140	Cyclohexane	5/28/2008	1700
54-02021	140	Dichlorodifluoromethane	5/28/2008	460
54-02021	140	Dichlorodifluoromethane	3/26/2008	1500
54-02021	140	Dichlorodifluoromethane	8/25/2008	560 (J)
54-02021	140	DCA	5/28/2008	1900
54-02021	140	DCA	3/26/2008	5500
54-02021	140	DCA	8/25/2008	3100 (J)
54-02021	140	Dichloroethane[1,2-]	5/28/2008	1800
54-02021	140	Dichloroethane[1,2-]	3/26/2008	6000
54-02021	140	Dichloroethane[1,2-]	8/25/2008	2700 (J)
54-02021	140	DCE	3/26/2008	9400
54-02021	140	DCE	5/28/2008	12,000
54-02021	140	DCE	8/25/2008	3700 (J)
54-02021	140	Dichloropropane[1,2-]	8/25/2008	470 (J)
54-02021	140	Methylene Chloride	3/26/2008	4000
54-02021	140	Methylene Chloride	5/28/2008	1600
54-02021	140	Methylene Chloride	8/25/2008	1700 (J)
54-02021	140	PCE	3/26/2008	6100
54-02021	140	PCE	5/28/2008	2600
54-02021	140	PCE	8/25/2008	4600 (J)
54-02021	140	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/26/2008	8100
54-02021	140	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/28/2008	3100
54-02021	140	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/25/2008	4400 (J)
54-02021	140	TCA	3/26/2008	350,000
54-02021	140	TCA	5/28/2008	100,000
54-02021	140	TCA	8/25/2008	120,000 (J)
54-02021	140	TCE	3/26/2008	58,000
54-02021	140	TCE	5/28/2008	20,000
54-02021	140	TCE	8/25/2008	30,000 (J)
54-02021	140	Freon-11	3/26/2008	1700
54-02021	140	Freon-11	5/28/2008	600
54-02021	140	Freon-11	8/25/2008	700 (J)
54-02021	198	Chloroform	3/26/2008	930
54-02021	198	Dichlorodifluoromethane	3/26/2008	1600

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02021	198	DCA	3/26/2008	3700
54-02021	198	Dichloroethane[1,2-]	3/26/2008	1700
54-02021	198	DCE	3/26/2008	9100
54-02021	198	Methylene Chloride	3/26/2008	3700
54-02021	198	PCE	3/26/2008	4700
54-02021	198	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/26/2008	8800
54-02021	198	TCA	3/26/2008	230,000
54-02021	198	TCE	3/26/2008	46,000
54-02021	198	Freon-11	3/26/2008	1700
54-02022	40	Chloroform	3/25/2008	590
54-02022	40	Chloroform	12/21/2007	1600
54-02022	40	Cyclohexane	3/25/2008	4400
54-02022	40	Dichlorodifluoromethane	3/25/2008	540
54-02022	40	Dichlorodifluoromethane	12/21/2007	1800
54-02022	40	Dichlorodifluoromethane	8/28/2008	1200
54-02022	40	DCA	3/25/2008	3700
54-02022	40	DCA	5/23/2008	7500
54-02022	40	DCA	12/21/2007	8400
54-02022	40	DCA	8/28/2008	7800
54-02022	40	Dichloroethane[1,2-]	12/21/2007	13,000
54-02022	40	Dichloroethane[1,2-]	5/23/2008	7800
54-02022	40	Dichloroethane[1,2-]	3/25/2008	3900
54-02022	40	Dichloroethane[1,2-]	8/28/2008	8600
54-02022	40	DCE	5/23/2008	5700
54-02022	40	DCE	3/25/2008	2300
54-02022	40	DCE	12/21/2007	99,000
54-02022	40	DCE	8/28/2008	5000
54-02022	40	Dichloropropane[1,2-]	3/25/2008	520
54-02022	40	Dichloropropane[1,2-]	12/21/2007	1300
54-02022	40	Dichloropropane[1,2-]	8/28/2008	1300
54-02022	40	Methylene Chloride	12/21/2007	740
54-02022	40	Methylene Chloride	3/25/2008	220
54-02022	40	Methylene Chloride	8/28/2008	410
54-02022	40	PCE	12/21/2007	13,000
54-02022	40	PCE	3/25/2008	5700
54-02022	40	PCE	5/23/2008	3700
54-02022	40	PCE	8/28/2008	16,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02022	40	Toluene	5/23/2008	2100
54-02022	40	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	5200
54-02022	40	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/25/2008	2600
54-02022	40	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/23/2008	6700
54-02022	40	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/28/2008	6100
54-02022	40	TCA	3/25/2008	180,000
54-02022	40	TCA	12/21/2007	380,000
54-02022	40	TCA	5/23/2008	350,000
54-02022	40	TCA	8/28/2008	290,000
54-02022	40	TCE	5/23/2008	39,000
54-02022	40	TCE	12/21/2007	72,000
54-02022	40	TCE	3/25/2008	29,000
54-02022	40	TCE	8/28/2008	65,000
54-02022	40	Freon-11	12/21/2007	1600
54-02022	80	Chloroform	8/28/2008	1600
54-02022	80	Dichlorodifluoromethane	8/28/2008	1300
54-02022	80	DCA	5/23/2008	8400
54-02022	80	DCA	8/28/2008	9000
54-02022	80	Dichloroethane[1,2-]	5/23/2008	10,000
54-02022	80	Dichloroethane[1,2-]	8/28/2008	11,000
54-02022	80	DCE	5/23/2008	7000
54-02022	80	DCE	8/28/2008	6300
54-02022	80	Dichloropropane[1,2-]	8/28/2008	1700
54-02022	80	Methylene Chloride	5/23/2008	3700
54-02022	80	Methylene Chloride	8/28/2008	3000
54-02022	80	PCE	5/23/2008	4000
54-02022	80	PCE	8/28/2008	15,000
54-02022	80	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/23/2008	7800
54-02022	80	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/28/2008	6600
54-02022	80	TCA	5/23/2008	440,000
54-02022	80	TCA	8/28/2008	350,000
54-02022	80	TCE	5/23/2008	49,000
54-02022	80	TCE	8/28/2008	78,000
54-02022	100	Chloroform	12/21/2007	2200
54-02022	100	Dichlorodifluoromethane	12/21/2007	2300
54-02022	100	DCA	12/21/2007	11,000
54-02022	100	Dichloroethane[1,2-]	12/21/2007	18,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02022	100	DCE	12/21/2007	140,000
54-02022	100	Dichloropropane[1,2-]	12/21/2007	1700
54-02022	100	Methylene Chloride	12/21/2007	5400
54-02022	100	PCE	12/21/2007	13,000
54-02022	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	6800
54-02022	100	TCA	12/21/2007	540,000
54-02022	100	TCE	12/21/2007	100,000
54-02022	100	Freon-11	12/21/2007	2200
54-02022	120	Chloroform	12/21/2007	2200
54-02022	120	Chloroform	3/25/2008	1700
54-02022	120	Cyclohexane	3/25/2008	14,000
54-02022	120	Dichlorodifluoromethane	3/25/2008	1700
54-02022	120	Dichlorodifluoromethane	12/21/2007	2400
54-02022	120	Dichlorodifluoromethane	5/23/2008	2000
54-02022	120	Dichlorodifluoromethane	8/28/2008	1500
54-02022	120	DCA	3/25/2008	8800
54-02022	120	DCA	5/23/2008	8700
54-02022	120	DCA	12/21/2007	11,000
54-02022	120	DCA	8/28/2008	9400
54-02022	120	Dichloroethane[1,2-]	3/25/2008	9400
54-02022	120	Dichloroethane[1,2-]	5/23/2008	9000
54-02022	120	Dichloroethane[1,2-]	12/21/2007	14,000
54-02022	120	Dichloroethane[1,2-]	8/28/2008	9800
54-02022	120	DCE	5/23/2008	10,000
54-02022	120	DCE	12/21/2007	120,000
54-02022	120	DCE	3/25/2008	8900
54-02022	120	DCE	8/28/2008	8900
54-02022	120	Dichloropropane[1,2-]	12/21/2007	1500
54-02022	120	Dichloropropane[1,2-]	3/25/2008	1200
54-02022	120	Dichloropropane[1,2-]	8/28/2008	1600
54-02022	120	Methylene Chloride	12/21/2007	5500
54-02022	120	Methylene Chloride	3/25/2008	4100
54-02022	120	Methylene Chloride	5/23/2008	4400
54-02022	120	Methylene Chloride	8/28/2008	3800
54-02022	120	PCE	3/25/2008	9800
54-02022	120	PCE	12/21/2007	12,000
54-02022	120	PCE	5/23/2008	3400

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02022	120	PCE	8/28/2008	13,000
54-02022	120	Toluene	5/23/2008	1400
54-02022	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/23/2008	9000
54-02022	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/25/2008	7200
54-02022	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	4600
54-02022	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/28/2008	7800
54-02022	120	TCA	5/23/2008	500,000
54-02022	120	TCA	12/21/2007	580,000
54-02022	120	TCA	3/25/2008	560,000
54-02022	120	TCA	8/28/2008	400,000
54-02022	120	TCE	5/23/2008	56,000
54-02022	120	TCE	3/25/2008	85,000
54-02022	120	TCE	12/21/2007	110,000
54-02022	120	TCE	8/28/2008	91,000
54-02022	120	Freon-11	5/23/2008	2200
54-02022	120	Freon-11	12/21/2007	2300
54-02022	140	Dichlorodifluoromethane	5/23/2008	1900
54-02022	140	Dichlorodifluoromethane	8/28/2008	1500
54-02022	140	DCA	5/23/2008	6600
54-02022	140	DCA	8/28/2008	7300
54-02022	140	Dichloroethane[1,2-]	5/23/2008	4400
54-02022	140	Dichloroethane[1,2-]	8/28/2008	5200
54-02022	140	DCE	5/23/2008	11,000
54-02022	140	DCE	8/28/2008	10,000
54-02022	140	Dichloropropane[1,2-]	8/28/2008	1000
54-02022	140	Methylene Chloride	5/23/2008	6000
54-02022	140	Methylene Chloride	8/28/2008	5400
54-02022	140	Propanol[2-]	5/23/2008	3500
54-02022	140	PCE	5/23/2008	2800
54-02022	140	PCE	8/28/2008	9500
54-02022	140	Toluene	5/23/2008	1500
54-02022	140	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/23/2008	8400
54-02022	140	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/28/2008	7700
54-02022	140	TCA	5/23/2008	400,000
54-02022	140	TCA	8/28/2008	330,000
54-02022	140	TCE	5/23/2008	48,000
54-02022	140	TCE	8/28/2008	80,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02022	140	Freon-11	5/23/2008	2500
54-02022	200	Carbon Tetrachloride	12/21/2007	620
54-02022	200	Carbon Tetrachloride	3/25/2008	420
54-02022	200	Chloroform	12/21/2007	870
54-02022	200	Chloroform	3/25/2008	740
54-02022	200	Cyclohexane	3/25/2008	6800
54-02022	200	Dichlorodifluoromethane	12/21/2007	2500
54-02022	200	Dichlorodifluoromethane	3/25/2008	1600
54-02022	200	DCA	12/21/2007	3600
54-02022	200	DCA	3/25/2008	3300
54-02022	200	Dichloroethane[1,2-]	12/21/2007	850
54-02022	200	Dichloroethane[1,2-]	3/25/2008	600
54-02022	200	DCE	12/21/2007	50,000
54-02022	200	DCE	3/25/2008	10,000
54-02022	200	Methylene Chloride	12/21/2007	4100
54-02022	200	Methylene Chloride	3/25/2008	3600
54-02022	200	PCE	3/25/2008	4100
54-02022	200	PCE	12/21/2007	5400
54-02022	200	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/25/2008	7600
54-02022	200	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	6500
54-02022	200	TCA	3/25/2008	250,000
54-02022	200	TCA	12/21/2007	240,000
54-02022	200	TCE	12/21/2007	56,000
54-02022	200	TCE	3/25/2008	46,000
54-02022	200	Freon-11	3/25/2008	1900
54-02022	200	Freon-11	12/21/2007	2400
54-02023	40	Benzene	8/15/2008	30
54-02023	40	Carbon Tetrachloride	6/9/2008	280
54-02023	40	Carbon Tetrachloride	8/15/2008	190
54-02023	40	Chloroform	6/9/2008	1500
54-02023	40	Chloroform	4/8/2008	1600
54-02023	40	Chloroform	8/15/2008	1600
54-02023	40	Cyclohexane	6/9/2008	710
54-02023	40	Dichlorodifluoromethane	6/9/2008	280
54-02023	40	Dichlorodifluoromethane	8/15/2008	190
54-02023	40	DCA	4/8/2008	510
54-02023	40	DCA	6/9/2008	520

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02023	40	DCA	8/15/2008	510
54-02023	40	Dichloroethane[1,2-]	6/9/2008	78
54-02023	40	Dichloroethane[1,2-]	8/15/2008	78
54-02023	40	DCE	4/8/2008	3000
54-02023	40	DCE	6/9/2008	6700
54-02023	40	DCE	8/15/2008	2400
54-02023	40	Dichloropropane[1,2-]	6/9/2008	420
54-02023	40	Dichloropropane[1,2-]	8/15/2008	490
54-02023	40	Methylene Chloride	6/9/2008	61
54-02023	40	Methylene Chloride	8/15/2008	56
54-02023	40	PCE	6/9/2008	1600
54-02023	40	PCE	4/8/2008	1400
54-02023	40	PCE	8/15/2008	1700
54-02023	40	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/9/2008	13,000
54-02023	40	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/8/2008	16,000
54-02023	40	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/15/2008	12,000
54-02023	40	TCA	6/9/2008	53,000
54-02023	40	TCA	4/8/2008	58,000
54-02023	40	TCA	8/15/2008	38,000
54-02023	40	TCE	6/9/2008	13,000
54-02023	40	TCE	4/8/2008	14,000
54-02023	40	TCE	8/15/2008	12,000
54-02023	40	Freon-11	6/9/2008	2000
54-02023	40	Freon-11	4/8/2008	2000
54-02023	40	Freon-11	8/15/2008	1900
54-02023	100	Benzene	6/9/2008	120
54-02023	100	Benzene	8/15/2008	130
54-02023	100	Carbon Tetrachloride	6/9/2008	520
54-02023	100	Carbon Tetrachloride	8/15/2008	360
54-02023	100	Chloroform	6/9/2008	2600
54-02023	100	Chloroform	4/8/2008	2200
54-02023	100	Chloroform	8/15/2008	2400
54-02023	100	Cyclohexane	6/9/2008	1200
54-02023	100	Dichlorodifluoromethane	6/9/2008	510
54-02023	100	Dichlorodifluoromethane	8/15/2008	330
54-02023	100	DCA	6/9/2008	850
54-02023	100	DCA	8/15/2008	760

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02023	100	Dichloroethane[1,2-]	6/9/2008	230
54-02023	100	Dichloroethane[1,2-]	8/15/2008	220
54-02023	100	DCE	6/9/2008	11,000
54-02023	100	DCE	4/8/2008	5000
54-02023	100	DCE	8/15/2008	4000
54-02023	100	Dichloropropane[1,2-]	6/9/2008	660
54-02023	100	Dichloropropane[1,2-]	8/15/2008	730
54-02023	100	Methylene Chloride	6/9/2008	660
54-02023	100	Methylene Chloride	8/15/2008	570
54-02023	100	PCE	6/9/2008	2600
54-02023	100	PCE	8/15/2008	2700
54-02023	100	Toluene	6/9/2008	100
54-02023	100	Toluene	8/15/2008	140
54-02023	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/9/2008	23,000
54-02023	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/8/2008	25,000
54-02023	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/15/2008	20,000
54-02023	100	TCA	6/9/2008	89,000
54-02023	100	TCA	4/8/2008	87,000
54-02023	100	TCA	8/15/2008	63,000
54-02023	100	TCE	6/9/2008	24,000
54-02023	100	TCE	4/8/2008	20,000
54-02023	100	TCE	8/15/2008	21,000
54-02023	100	Freon-11	6/9/2008	3300
54-02023	100	Freon-11	4/8/2008	2800
54-02023	100	Freon-11	8/15/2008	2800
54-02023	120	Benzene	6/9/2008	150
54-02023	120	Benzene	4/8/2008	170
54-02023	120	Benzene	8/15/2008	180
54-02023	120	Carbon Tetrachloride	6/9/2008	620
54-02023	120	Carbon Tetrachloride	4/8/2008	640
54-02023	120	Carbon Tetrachloride	8/15/2008	470
54-02023	120	Chloroform	6/9/2008	2800
54-02023	120	Chloroform	4/8/2008	2400
54-02023	120	Chloroform	8/15/2008	2500
54-02023	120	Cyclohexane	6/9/2008	1300
54-02023	120	Dichlorodifluoromethane	6/9/2008	590
54-02023	120	Dichlorodifluoromethane	4/8/2008	620

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02023	120	Dichlorodifluoromethane	8/15/2008	380
54-02023	120	DCA	6/9/2008	900
54-02023	120	DCA	4/8/2008	1200
54-02023	120	DCA	8/15/2008	780
54-02023	120	Dichloroethane[1,2-]	4/8/2008	200
54-02023	120	Dichloroethane[1,2-]	6/9/2008	200
54-02023	120	Dichloroethane[1,2-]	8/15/2008	180
54-02023	120	DCE	4/8/2008	5600
54-02023	120	DCE	6/9/2008	13,000
54-02023	120	DCE	8/15/2008	4600
54-02023	120	Dichloropropane[1,2-]	4/8/2008	720
54-02023	120	Dichloropropane[1,2-]	6/9/2008	630
54-02023	120	Dichloropropane[1,2-]	8/15/2008	650
54-02023	120	Methylene Chloride	4/8/2008	600
54-02023	120	Methylene Chloride	6/9/2008	450
54-02023	120	Methylene Chloride	8/15/2008	460
54-02023	120	PCE	4/8/2008	2700
54-02023	120	PCE	6/9/2008	2800
54-02023	120	PCE	8/15/2008	2800
54-02023	120	Toluene	4/8/2008	110
54-02023	120	Toluene	8/15/2008	140
54-02023	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/8/2008	27,000
54-02023	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/9/2008	26,000
54-02023	120	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/15/2008	22,000
54-02023	120	TCA	4/8/2008	91,000
54-02023	120	TCA	6/9/2008	95,000
54-02023	120	TCA	8/15/2008	65,000
54-02023	120	TCE	6/9/2008	26,000
54-02023	120	TCE	4/8/2008	23,000
54-02023	120	TCE	8/15/2008	22,000
54-02023	120	Freon-11	6/9/2008	3900
54-02023	120	Freon-11	4/8/2008	3400
54-02023	120	Freon-11	8/15/2008	3000
54-02023	159	Benzene	6/9/2008	210
54-02023	159	Benzene	8/15/2008	290
54-02023	159	Carbon Tetrachloride	6/9/2008	840
54-02023	159	Carbon Tetrachloride	8/15/2008	740

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02023	159	Chloroform	6/9/2008	2200
54-02023	159	Chloroform	8/15/2008	2400
54-02023	159	Cyclohexane	6/9/2008	1200
54-02023	159	Dichlorodifluoromethane	6/9/2008	720
54-02023	159	Dichlorodifluoromethane	8/15/2008	540
54-02023	159	DCA	6/9/2008	680
54-02023	159	DCA	8/15/2008	720
54-02023	159	DCE	6/9/2008	12,000
54-02023	159	DCE	8/15/2008	6400
54-02023	159	Dichloropropane[1,2-]	6/9/2008	310
54-02023	159	Dichloropropane[1,2-]	8/15/2008	400
54-02023	159	Methylene Chloride	6/9/2008	380
54-02023	159	Methylene Chloride	8/15/2008	500
54-02023	159	PCE	6/9/2008	2300
54-02023	159	PCE	8/15/2008	2800
54-02023	159	Toluene	6/9/2008	110
54-02023	159	Toluene	8/15/2008	220
54-02023	159	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/9/2008	29,000
54-02023	159	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/15/2008	28,000
54-02023	159	TCA	6/9/2008	86,000
54-02023	159	TCA	8/15/2008	69,000
54-02023	159	TCE	6/9/2008	24,000
54-02023	159	TCE	8/15/2008	25,000
54-02023	159	Freon-11	6/9/2008	3900
54-02023	159	Freon-11	8/15/2008	3700
54-02023	200	Chloroform	4/8/2008	2100
54-02023	200	DCE	4/8/2008	8600
54-02023	200	Methylene Chloride	4/8/2008	1200
54-02023	200	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/8/2008	39,000
54-02023	200	TCA	4/8/2008	94,000
54-02023	200	TCE	4/8/2008	25,000
54-02023	200	Freon-11	4/8/2008	4000
54-02024	40	Carbon Tetrachloride	6/9/2008	410
54-02024	40	Carbon Tetrachloride	8/6/2008	240
54-02024	40	Chloroform	6/9/2008	2300
54-02024	40	Chloroform	4/3/2008	1800
54-02024	40	Chloroform	8/6/2008	1900

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02024	40	Cyclohexane	6/9/2008	960
54-02024	40	Dichlorodifluoromethane	6/9/2008	250
54-02024	40	Dichlorodifluoromethane	8/6/2008	150
54-02024	40	DCA	6/9/2008	810
54-02024	40	DCA	8/6/2008	640
54-02024	40	Dichloroethane[1,2-]	6/9/2008	250
54-02024	40	Dichloroethane[1,2-]	8/6/2008	210
54-02024	40	DCE	4/3/2008	2700
54-02024	40	DCE	6/9/2008	7600
54-02024	40	DCE	8/6/2008	2000
54-02024	40	Dichloropropane[1,2-]	6/9/2008	1400
54-02024	40	Dichloropropane[1,2-]	8/6/2008	1300
54-02024	40	PCE	4/3/2008	1700
54-02024	40	PCE	6/9/2008	2600
54-02024	40	PCE	8/6/2008	2200
54-02024	40	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/9/2008	15,000
54-02024	40	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/3/2008	17,000
54-02024	40	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/6/2008	12,000
54-02024	40	TCA	6/9/2008	72,000
54-02024	40	TCA	4/3/2008	63,000
54-02024	40	TCA	8/6/2008	47,000
54-02024	40	TCE	4/3/2008	13,000
54-02024	40	TCE	6/9/2008	17,000
54-02024	40	TCE	8/6/2008	13,000
54-02024	40	Freon-11	4/3/2008	2200
54-02024	40	Freon-11	6/9/2008	2500
54-02024	40	Freon-11	8/6/2008	1800
54-02024	100	Benzene	6/9/2008	200
54-02024	100	Benzene	8/6/2008	260
54-02024	100	Carbon Tetrachloride	6/9/2008	820
54-02024	100	Carbon Tetrachloride	8/6/2008	650
54-02024	100	Chloroform	6/9/2008	4000
54-02024	100	Chloroform	4/3/2008	3600
54-02024	100	Chloroform	8/6/2008	4200
54-02024	100	Cyclohexane	6/9/2008	1700
54-02024	100	Dichlorodifluoromethane	6/9/2008	530
54-02024	100	Dichlorodifluoromethane	8/6/2008	380

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02024	100	DCA	6/9/2008	1300
54-02024	100	DCA	8/6/2008	1300
54-02024	100	Dichloroethane[1,2-]	6/9/2008	790
54-02024	100	Dichloroethane[1,2-]	8/6/2008	820
54-02024	100	DCE	6/9/2008	16,000
54-02024	100	DCE	4/3/2008	5700
54-02024	100	DCE	8/6/2008	4800
54-02024	100	Dichloropropane[1,2-]	6/9/2008	2300
54-02024	100	Dichloropropane[1,2-]	8/6/2008	2700
54-02024	100	Methylene Chloride	4/3/2008	2100
54-02024	100	Methylene Chloride	6/9/2008	1700
54-02024	100	Methylene Chloride	8/6/2008	1500
54-02024	100	PCE	6/9/2008	4400
54-02024	100	PCE	8/6/2008	5200
54-02024	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/9/2008	30,000
54-02024	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/3/2008	33,000
54-02024	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/6/2008	28,000
54-02024	100	TCA	6/9/2008	120,000
54-02024	100	TCA	4/3/2008	120,000
54-02024	100	TCA	8/6/2008	97,000
54-02024	100	TCE	6/9/2008	31,000
54-02024	100	TCE	4/3/2008	24,000
54-02024	100	TCE	8/6/2008	31,000
54-02024	100	Freon-11	6/9/2008	4900
54-02024	100	Freon-11	4/3/2008	4200
54-02024	100	Freon-11	8/6/2008	4200
54-02024	140	Benzene	6/9/2008	420
54-02024	140	Benzene	8/6/2008	440
54-02024	140	Carbon Tetrachloride	6/9/2008	1200
54-02024	140	Carbon Tetrachloride	8/6/2008	820
54-02024	140	Chloroform	6/9/2008	5600
54-02024	140	Chloroform	8/6/2008	4700
54-02024	140	Cyclohexane	6/9/2008	2200
54-02024	140	Dichlorodifluoromethane	6/9/2008	840
54-02024	140	Dichlorodifluoromethane	8/6/2008	500
54-02024	140	DCA	6/9/2008	1600
54-02024	140	DCA	8/6/2008	1300

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02024	140	Dichloroethane[1,2-]	6/9/2008	1100
54-02024	140	Dichloroethane[1,2-]	8/6/2008	950
54-02024	140	DCE	6/9/2008	19,000
54-02024	140	DCE	8/6/2008	6300
54-02024	140	Dichloropropane[1,2-]	6/9/2008	2500
54-02024	140	Dichloropropane[1,2-]	8/6/2008	2400
54-02024	140	Methylene Chloride	6/9/2008	5100
54-02024	140	Methylene Chloride	8/6/2008	4000
54-02024	140	PCE	6/9/2008	5600
54-02024	140	PCE	8/6/2008	5200
54-02024	140	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/9/2008	44,000
54-02024	140	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/6/2008	33,000
54-02024	140	TCA	6/9/2008	160,000
54-02024	140	TCA	8/6/2008	100,000
54-02024	140	TCE	6/9/2008	42,000
54-02024	140	TCE	8/6/2008	34,000
54-02024	140	Freon-11	6/9/2008	7000
54-02024	140	Freon-11	8/6/2008	5000
54-02024	160	Benzene	6/9/2008	480
54-02024	160	Benzene	8/6/2008	560
54-02024	160	Carbon Tetrachloride	6/9/2008	1200
54-02024	160	Carbon Tetrachloride	8/6/2008	930
54-02024	160	Chloroform	6/9/2008	5600
54-02024	160	Chloroform	4/3/2008	4700
54-02024	160	Chloroform	8/6/2008	5100
54-02024	160	Cyclohexane	6/9/2008	2200
54-02024	160	Dichlorodifluoromethane	6/9/2008	880
54-02024	160	Dichlorodifluoromethane	8/6/2008	580
54-02024	160	DCA	6/9/2008	1500
54-02024	160	DCA	8/6/2008	1300
54-02024	160	Dichloroethane[1,2-]	6/9/2008	1100
54-02024	160	Dichloroethane[1,2-]	8/6/2008	1000
54-02024	160	DCE	6/9/2008	19,000
54-02024	160	DCE	4/3/2008	8600
54-02024	160	DCE	8/6/2008	7400
54-02024	160	Dichloropropane[1,2-]	6/9/2008	2300
54-02024	160	Dichloropropane[1,2-]	8/6/2008	2400

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02024	160	Methylene Chloride	6/9/2008	6600
54-02024	160	Methylene Chloride	4/3/2008	5800
54-02024	160	Methylene Chloride	8/6/2008	5600
54-02024	160	PCE	6/9/2008	5400
54-02024	160	PCE	4/3/2008	3700
54-02024	160	PCE	8/6/2008	5500
54-02024	160	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/9/2008	46,000
54-02024	160	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/3/2008	45,000
54-02024	160	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/6/2008	37,000
54-02024	160	TCA	6/9/2008	160,000
54-02024	160	TCA	4/3/2008	140,000
54-02024	160	TCA	8/6/2008	100,000
54-02024	160	TCE	6/9/2008	42,000
54-02024	160	TCE	4/3/2008	34,000
54-02024	160	TCE	8/6/2008	36,000
54-02024	160	Freon-11	4/3/2008	5700
54-02024	160	Freon-11	6/9/2008	7200
54-02024	160	Freon-11	8/6/2008	5500
54-02024	200	Chloroform	4/3/2008	4400
54-02024	200	DCE	4/3/2008	10,000
54-02024	200	Methylene Chloride	4/3/2008	7300
54-02024	200	PCE	4/3/2008	2900
54-02024	200	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/3/2008	51,000
54-02024	200	TCA	4/3/2008	130,000
54-02024	200	TCE	4/3/2008	32,000
54-02024	200	Freon-11	4/3/2008	5800
54-02025	20	Acetone	5/30/2008	1100 (J)
54-02025	20	Carbon Disulfide	5/30/2008	670
54-02025	20	Carbon Tetrachloride	8/13/2008	1000
54-02025	20	Chloroform	5/30/2008	4000
54-02025	20	Chloroform	4/4/2008	5000
54-02025	20	Chloroform	8/13/2008	6800
54-02025	20	DCA	5/30/2008	2000
54-02025	20	DCA	4/4/2008	2300
54-02025	20	DCA	8/13/2008	2900
54-02025	20	Dichloroethane[1,2-]	5/30/2008	560
54-02025	20	Dichloroethane[1,2-]	8/13/2008	1200

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02025	20	DCE	5/30/2008	9000
54-02025	20	DCE	4/4/2008	5000
54-02025	20	DCE	8/13/2008	4300
54-02025	20	Dichloropropane[1,2-]	4/4/2008	6500
54-02025	20	Dichloropropane[1,2-]	5/30/2008	3600
54-02025	20	Dichloropropane[1,2-]	8/13/2008	10,000
54-02025	20	Methylene Chloride	5/30/2008	410
54-02025	20	Propanol[2-]	5/30/2008	3600
54-02025	20	PCE	5/30/2008	82,000
54-02025	20	PCE	4/4/2008	7000
54-02025	20	PCE	8/13/2008	12,000
54-02025	20	Toluene	5/30/2008	660
54-02025	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/4/2008	40,000
54-02025	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/30/2008	36,000
54-02025	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/13/2008	39,000
54-02025	20	TCA	5/30/2008	150,000
54-02025	20	TCA	4/4/2008	220,000
54-02025	20	TCA	8/13/2008	210,000
54-02025	20	TCE	4/4/2008	33,000
54-02025	20	TCE	5/30/2008	16,000
54-02025	20	TCE	8/13/2008	46,000
54-02025	20	Freon-11	4/4/2008	4500
54-02025	20	Freon-11	5/30/2008	5000
54-02025	20	Freon-11	8/13/2008	4900
54-02025	100	Benzene	8/13/2008	880
54-02025	100	Carbon Disulfide	5/30/2008	630
54-02025	100	Carbon Tetrachloride	8/13/2008	1700
54-02025	100	Chloroform	5/30/2008	7700
54-02025	100	Chloroform	4/4/2008	9500
54-02025	100	Chloroform	8/13/2008	11,000
54-02025	100	Dichlorodifluoromethane	5/30/2008	980
54-02025	100	Dichlorodifluoromethane	8/13/2008	610
54-02025	100	DCA	5/30/2008	3300
54-02025	100	DCA	8/13/2008	3900
54-02025	100	Dichloroethane[1,2-]	5/30/2008	2900
54-02025	100	Dichloroethane[1,2-]	8/13/2008	5500
54-02025	100	DCE	4/4/2008	12,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02025	100	DCE	5/30/2008	18,000
54-02025	100	DCE	8/13/2008	10,000
54-02025	100	Dichloropropane[1,2-]	5/30/2008	5800
54-02025	100	Dichloropropane[1,2-]	4/4/2008	12,000
54-02025	100	Dichloropropane[1,2-]	8/13/2008	15,000
54-02025	100	Ethanol	8/13/2008	1500
54-02025	100	Methylene Chloride	5/30/2008	8900
54-02025	100	Methylene Chloride	4/4/2008	8600
54-02025	100	Methylene Chloride	8/13/2008	8800
54-02025	100	Propanol[2-]	5/30/2008	1900
54-02025	100	PCE	4/4/2008	9800
54-02025	100	PCE	5/30/2008	56,000
54-02025	100	PCE	8/13/2008	16,000
54-02025	100	Tetrahydrofuran	5/30/2008	620
54-02025	100	Tetrahydrofuran	8/13/2008	1100
54-02025	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/30/2008	72,000
54-02025	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/4/2008	76,000
54-02025	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/13/2008	65,000
54-02025	100	TCA	5/30/2008	230,000
54-02025	100	TCA	4/4/2008	330,000
54-02025	100	TCA	8/13/2008	280,000
54-02025	100	TCE	4/4/2008	60,000
54-02025	100	TCE	5/30/2008	26,000
54-02025	100	TCE	8/13/2008	77,000
54-02025	100	Freon-11	5/30/2008	12,000
54-02025	100	Freon-11	4/4/2008	9800
54-02025	100	Freon-11	8/13/2008	9800
54-02025	100	Xylene[1,2-]	8/13/2008	1200
54-02025	160	Benzene	5/30/2008	690
54-02025	160	Benzene	8/13/2008	1400
54-02025	160	Carbon Disulfide	5/30/2008	640
54-02025	160	Carbon Tetrachloride	5/30/2008	1300
54-02025	160	Carbon Tetrachloride	8/13/2008	2000
54-02025	160	Chloroform	5/30/2008	9200
54-02025	160	Chloroform	8/13/2008	12,000
54-02025	160	Dichlorodifluoromethane	5/30/2008	1300
54-02025	160	Dichlorodifluoromethane	8/13/2008	940

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02025	160	DCA	5/30/2008	3300
54-02025	160	DCA	8/13/2008	3500
54-02025	160	Dichloroethane[1,2-]	5/30/2008	2900
54-02025	160	Dichloroethane[1,2-]	8/13/2008	5000
54-02025	160	DCE	5/30/2008	27,000
54-02025	160	DCE	8/13/2008	15,000
54-02025	160	Dichloropropane[1,2-]	5/30/2008	5400
54-02025	160	Dichloropropane[1,2-]	8/13/2008	13,000
54-02025	160	Hexane	8/13/2008	420
54-02025	160	Methylene Chloride	5/30/2008	21,000
54-02025	160	Methylene Chloride	8/13/2008	20,000
54-02025	160	PCE	5/30/2008	45,000
54-02025	160	PCE	8/13/2008	15,000
54-02025	160	Toluene	5/30/2008	1000
54-02025	160	Toluene	8/13/2008	2700
54-02025	160	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/30/2008	93,000
54-02025	160	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/13/2008	78,000
54-02025	160	TCA	5/30/2008	240,000
54-02025	160	TCA	8/13/2008	260,000
54-02025	160	TCE	5/30/2008	32,000
54-02025	160	TCE	8/13/2008	84,000
54-02025	160	Freon-11	5/30/2008	15,000
54-02025	160	Freon-11	8/13/2008	12,000
54-02025	160	Xylene[1,2-]	8/13/2008	1200
54-02025	160	Xylene[1,3-]+Xylene[1,4-]	8/13/2008	540
54-02025	190	Chloroform	4/4/2008	10,000
54-02025	190	DCE	4/4/2008	22,000
54-02025	190	Methylene Chloride	4/4/2008	21,000
54-02025	190	PCE	4/4/2008	7700
54-02025	190	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/4/2008	100,000
54-02025	190	TCA	4/4/2008	300,000
54-02025	190	TCE	4/4/2008	70,000
54-02025	190	Freon-11	4/4/2008	13,000
54-02026	20	Carbon Tetrachloride	8/13/2008	40
54-02026	20	Chloroform	4/9/2008	240
54-02026	20	Chloroform	6/5/2008	200
54-02026	20	Chloroform	8/13/2008	250

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02026	20	Cyclohexane	6/5/2008	67
54-02026	20	Dichlorodifluoromethane	6/5/2008	40
54-02026	20	Dichlorodifluoromethane	8/13/2008	36
54-02026	20	DCA	6/5/2008	38
54-02026	20	DCA	8/13/2008	47
54-02026	20	DCE	6/5/2008	790
54-02026	20	DCE	4/9/2008	350
54-02026	20	DCE	8/13/2008	280
54-02026	20	Dichloropropane[1,2-]	8/13/2008	37
54-02026	20	PCE	6/5/2008	220
54-02026	20	PCE	4/9/2008	270
54-02026	20	PCE	8/13/2008	240
54-02026	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/5/2008	1700
54-02026	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/9/2008	2300
54-02026	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/13/2008	2000
54-02026	20	TCA	4/9/2008	7900
54-02026	20	TCA	6/5/2008	5000
54-02026	20	TCA	8/13/2008	6500
54-02026	20	TCE	4/9/2008	1800
54-02026	20	TCE	6/5/2008	1400
54-02026	20	TCE	8/13/2008	1700
54-02026	20	Freon-11	6/5/2008	220
54-02026	20	Freon-11	4/9/2008	250
54-02026	20	Freon-11	8/13/2008	240
54-02026	100	Carbon Disulfide	8/13/2008	140
54-02026	100	Carbon Tetrachloride	6/5/2008	100
54-02026	100	Carbon Tetrachloride	8/13/2008	100
54-02026	100	Chloroform	4/9/2008	450
54-02026	100	Chloroform	6/5/2008	430
54-02026	100	Chloroform	8/13/2008	510
54-02026	100	Cyclohexane	6/5/2008	140
54-02026	100	Dichlorodifluoromethane	6/5/2008	110
54-02026	100	Dichlorodifluoromethane	8/13/2008	91
54-02026	100	DCA	6/5/2008	84
54-02026	100	DCA	8/13/2008	100
54-02026	100	DCE	4/9/2008	780
54-02026	100	DCE	6/5/2008	1700

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02026	100	DCE	8/13/2008	890
54-02026	100	Dichloropropane[1,2-]	6/5/2008	57
54-02026	100	Dichloropropane[1,2-]	8/13/2008	63
54-02026	100	Methylene Chloride	6/5/2008	33
54-02026	100	Methylene Chloride	8/13/2008	47
54-02026	100	PCE	6/5/2008	470
54-02026	100	PCE	4/9/2008	410
54-02026	100	PCE	8/13/2008	420
54-02026	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/5/2008	4200
54-02026	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/9/2008	4800
54-02026	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/13/2008	5200
54-02026	100	TCA	4/9/2008	14,000
54-02026	100	TCA	6/5/2008	11,000
54-02026	100	TCA	8/13/2008	14,000
54-02026	100	TCE	4/9/2008	3100
54-02026	100	TCE	6/5/2008	3100
54-02026	100	TCE	8/13/2008	3400
54-02026	100	Freon-11	6/5/2008	540
54-02026	100	Freon-11	4/9/2008	510
54-02026	100	Freon-11	8/13/2008	600
54-02026	160	Carbon Tetrachloride	6/5/2008	170
54-02026	160	Carbon Tetrachloride	8/13/2008	180
54-02026	160	Chloroform	6/5/2008	500
54-02026	160	Chloroform	8/13/2008	540
54-02026	160	Cyclohexane	6/5/2008	200
54-02026	160	Dichlorodifluoromethane	6/5/2008	190
54-02026	160	Dichlorodifluoromethane	8/13/2008	160
54-02026	160	DCA	6/5/2008	98
54-02026	160	DCA	8/13/2008	100
54-02026	160	DCE	6/5/2008	2400
54-02026	160	DCE	8/13/2008	1500
54-02026	160	Methylene Chloride	6/5/2008	190
54-02026	160	Methylene Chloride	8/13/2008	230
54-02026	160	PCE	6/5/2008	630
54-02026	160	PCE	8/13/2008	560
54-02026	160	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/5/2008	6700
54-02026	160	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/13/2008	7500

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02026	160	TCA	6/5/2008	14,000
54-02026	160	TCA	8/13/2008	17,000
54-02026	160	TCE	6/5/2008	4300
54-02026	160	TCE	8/13/2008	4600
54-02026	160	Freon-11	6/5/2008	810
54-02026	160	Freon-11	8/13/2008	860
54-02026	215	Chloroform	4/9/2008	200
54-02026	215	Dichlorodifluoromethane	4/9/2008	120
54-02026	215	DCE	4/9/2008	810
54-02026	215	Methylene Chloride	4/9/2008	130
54-02026	215	PCE	4/9/2008	240
54-02026	215	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/9/2008	4200
54-02026	215	TCA	4/9/2008	8400
54-02026	215	TCE	4/9/2008	2100
54-02026	215	Freon-11	4/9/2008	450
54-02027	20	Carbon Tetrachloride	6/4/2008	76
54-02027	20	Chloroform	4/3/2008	970
54-02027	20	Chloroform	6/4/2008	960
54-02027	20	Chloroform	8/14/2008	1100
54-02027	20	Cyclohexane	6/4/2008	280
54-02027	20	Dichlorodifluoromethane	6/4/2008	120
54-02027	20	Dichlorodifluoromethane	8/14/2008	120
54-02027	20	DCA	6/4/2008	210
54-02027	20	DCA	8/14/2008	250
54-02027	20	DCE	4/3/2008	1300
54-02027	20	DCE	6/4/2008	4000
54-02027	20	DCE	8/14/2008	1300
54-02027	20	Dichloropropane[1,2-]	6/4/2008	340
54-02027	20	Dichloropropane[1,2-]	8/14/2008	410
54-02027	20	Methylene Chloride	6/4/2008	31
54-02027	20	PCE	4/3/2008	790
54-02027	20	PCE	6/4/2008	940
54-02027	20	PCE	8/14/2008	960
54-02027	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/3/2008	8500
54-02027	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/4/2008	6400
54-02027	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/14/2008	7800
54-02027	20	TCA	6/4/2008	22,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02027	20	TCA	4/3/2008	28,000
54-02027	20	TCA	8/14/2008	29,000
54-02027	20	TCE	6/4/2008	5600
54-02027	20	TCE	4/3/2008	5800
54-02027	20	TCE	8/14/2008	6600
54-02027	20	Freon-11	4/3/2008	1100
54-02027	20	Freon-11	6/4/2008	880
54-02027	20	Freon-11	8/14/2008	1100
54-02027	100	Benzene	6/4/2008	110
54-02027	100	Carbon Tetrachloride	6/4/2008	410
54-02027	100	Chloroform	4/3/2008	2700
54-02027	100	Chloroform	6/4/2008	2800
54-02027	100	Chloroform	8/14/2008	2600
54-02027	100	Cyclohexane	6/4/2008	960
54-02027	100	Dichlorodifluoromethane	6/4/2008	360
54-02027	100	Dichlorodifluoromethane	8/14/2008	320
54-02027	100	DCA	6/4/2008	610
54-02027	100	DCA	8/14/2008	560
54-02027	100	Dichloroethane[1,2-]	6/4/2008	220
54-02027	100	DCE	6/4/2008	7600
54-02027	100	DCE	4/3/2008	3600
54-02027	100	DCE	8/14/2008	3900
54-02027	100	Dichloropropane[1,2-]	6/4/2008	1100
54-02027	100	Dichloropropane[1,2-]	8/14/2008	970
54-02027	100	Methylene Chloride	6/4/2008	800
54-02027	100	Methylene Chloride	4/3/2008	950
54-02027	100	Methylene Chloride	8/14/2008	860
54-02027	100	PCE	6/4/2008	2900
54-02027	100	PCE	4/3/2008	2000
54-02027	100	PCE	8/14/2008	2000
54-02027	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/4/2008	21,000
54-02027	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/3/2008	23,000
54-02027	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/14/2008	21,000
54-02027	100	TCA	6/4/2008	73,000
54-02027	100	TCA	4/3/2008	74,000
54-02027	100	TCA	8/14/2008	65,000
54-02027	100	TCE	6/4/2008	17,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02027	100	TCE	4/3/2008	16,000
54-02027	100	TCE	8/14/2008	16,000
54-02027	100	Freon-11	6/4/2008	2600
54-02027	100	Freon-11	4/3/2008	2600
54-02027	100	Freon-11	8/14/2008	2700
54-02027	200	Benzene	6/4/2008	300
54-02027	200	Benzene	8/14/2008	280
54-02027	200	Carbon Tetrachloride	6/4/2008	810
54-02027	200	Carbon Tetrachloride	8/14/2008	690
54-02027	200	Chloroform	6/4/2008	2600
54-02027	200	Chloroform	8/14/2008	2600
54-02027	200	Cyclohexane	6/4/2008	950
54-02027	200	Dichlorodifluoromethane	6/4/2008	630
54-02027	200	Dichlorodifluoromethane	8/14/2008	520
54-02027	200	DCA	6/4/2008	490
54-02027	200	DCA	8/14/2008	460
54-02027	200	Dichloroethane[1,2-]	6/4/2008	120
54-02027	200	DCE	6/4/2008	10,000
54-02027	200	DCE	8/14/2008	6700
54-02027	200	Dichloropropane[1,2-]	6/4/2008	400
54-02027	200	Dichloropropane[1,2-]	8/14/2008	400
54-02027	200	Methylene Chloride	6/4/2008	3000
54-02027	200	Methylene Chloride	8/14/2008	3400
54-02027	200	PCE	6/4/2008	2900
54-02027	200	PCE	8/14/2008	2400
54-02027	200	Toluene	6/4/2008	790
54-02027	200	Toluene	8/14/2008	700
54-02027	200	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/4/2008	27,000
54-02027	200	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/14/2008	29,000
54-02027	200	TCA	6/4/2008	69,000
54-02027	200	TCA	8/14/2008	64,000
54-02027	200	TCE	6/4/2008	19,000
54-02027	200	TCE	8/14/2008	18,000
54-02027	200	Freon-11	6/4/2008	3000
54-02027	200	Freon-11	8/14/2008	3300
54-02027	250	Chloroform	4/3/2008	1400
54-02027	250	DCE	4/3/2008	6100

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02027	250	Methylene Chloride	4/3/2008	1500
54-02027	250	PCE	4/3/2008	1500
54-02027	250	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/3/2008	25,000
54-02027	250	TCA	4/3/2008	46,000
54-02027	250	TCE	4/3/2008	12,000
54-02027	250	Freon-11	4/3/2008	2500
54-02028	20	Carbon Tetrachloride	6/5/2008	160
54-02028	20	Carbon Tetrachloride	8/14/2008	44
54-02028	20	Chloroform	6/5/2008	220
54-02028	20	Chloroform	4/8/2008	330
54-02028	20	Chloroform	8/14/2008	260
54-02028	20	Cyclohexane	6/5/2008	130
54-02028	20	Dichlorodifluoromethane	6/5/2008	200
54-02028	20	Dichlorodifluoromethane	8/14/2008	34
54-02028	20	DCA	6/5/2008	56
54-02028	20	DCA	8/14/2008	77
54-02028	20	DCE	6/5/2008	2000
54-02028	20	DCE	4/8/2008	450
54-02028	20	DCE	8/14/2008	350
54-02028	20	Dichloropropane[1,2-]	8/14/2008	87
54-02028	20	Methylene Chloride	6/5/2008	120
54-02028	20	PCE	4/8/2008	320
54-02028	20	PCE	6/5/2008	350
54-02028	20	PCE	8/14/2008	290
54-02028	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/5/2008	5500
54-02028	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/8/2008	3100
54-02028	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/14/2008	2200
54-02028	20	TCA	4/8/2008	12,000
54-02028	20	TCA	6/5/2008	9300
54-02028	20	TCA	8/14/2008	8800
54-02028	20	TCE	4/8/2008	2800
54-02028	20	TCE	6/5/2008	3000
54-02028	20	TCE	8/14/2008	2300
54-02028	20	Freon-11	6/5/2008	700
54-02028	20	Freon-11	4/8/2008	390
54-02028	20	Freon-11	8/14/2008	300
54-02028	100	Carbon Tetrachloride	6/5/2008	99

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02028	100	Carbon Tetrachloride	8/14/2008	95
54-02028	100	Chloroform	4/8/2008	500
54-02028	100	Chloroform	6/5/2008	480
54-02028	100	Chloroform	8/14/2008	480
54-02028	100	Cyclohexane	6/5/2008	190
54-02028	100	Dichlorodifluoromethane	6/5/2008	110
54-02028	100	Dichlorodifluoromethane	8/14/2008	89
54-02028	100	DCA	6/5/2008	130
54-02028	100	DCA	8/14/2008	120
54-02028	100	DCE	4/8/2008	870
54-02028	100	DCE	6/5/2008	2100
54-02028	100	DCE	8/14/2008	940
54-02028	100	Dichloropropane[1,2-]	6/5/2008	96
54-02028	100	Dichloropropane[1,2-]	8/14/2008	100
54-02028	100	Methylene Chloride	6/5/2008	95
54-02028	100	Methylene Chloride	8/14/2008	110
54-02028	100	PCE	6/5/2008	500
54-02028	100	PCE	8/14/2008	430
54-02028	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/8/2008	5300
54-02028	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/5/2008	4500
54-02028	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/14/2008	4800
54-02028	100	TCA	4/8/2008	16,000
54-02028	100	TCA	6/5/2008	14,000
54-02028	100	TCA	8/14/2008	15,000
54-02028	100	TCE	6/5/2008	4000
54-02028	100	TCE	4/8/2008	4200
54-02028	100	TCE	8/14/2008	4300
54-02028	100	Freon-11	4/8/2008	610
54-02028	100	Freon-11	6/5/2008	620
54-02028	100	Freon-11	8/14/2008	670
54-02028	160	Carbon Tetrachloride	6/5/2008	120
54-02028	160	Carbon Tetrachloride	8/14/2008	140
54-02028	160	Chloroform	6/5/2008	340
54-02028	160	Chloroform	8/14/2008	410
54-02028	160	Cyclohexane	6/5/2008	140
54-02028	160	Dichlorodifluoromethane	6/5/2008	130
54-02028	160	Dichlorodifluoromethane	8/14/2008	140

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02028	160	DCA	6/5/2008	86
54-02028	160	DCA	8/14/2008	96
54-02028	160	DCE	6/5/2008	2200
54-02028	160	DCE	8/14/2008	1200
54-02028	160	Dichloropropane[1,2-]	8/14/2008	36
54-02028	160	Methylene Chloride	6/5/2008	180
54-02028	160	Methylene Chloride	8/14/2008	210
54-02028	160	PCE	6/5/2008	390
54-02028	160	PCE	8/14/2008	410
54-02028	160	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/5/2008	4600
54-02028	160	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/14/2008	5600
54-02028	160	TCA	6/5/2008	10,000
54-02028	160	TCA	8/14/2008	14,000
54-02028	160	TCE	6/5/2008	3400
54-02028	160	TCE	8/14/2008	4200
54-02028	160	Freon-11	6/5/2008	600
54-02028	160	Freon-11	8/14/2008	720
54-02028	250	Chloroform	4/8/2008	230
54-02028	250	DCE	4/8/2008	1500
54-02028	250	Methylene Chloride	4/8/2008	170
54-02028	250	PCE	4/8/2008	320
54-02028	250	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/8/2008	7000
54-02028	250	TCA	4/8/2008	12000
54-02028	250	TCE	4/8/2008	3300
54-02028	250	Freon-11	4/8/2008	730
54-02031	20	Carbon Tetrachloride	8/27/2008	150
54-02031	20	Chloroform	5/29/2008	540
54-02031	20	Cyclohexane	5/29/2008	880
54-02031	20	Dichlorodifluoromethane	5/29/2008	250
54-02031	20	Dichlorodifluoromethane	8/27/2008	220
54-02031	20	DCA	3/27/2008	1300
54-02031	20	DCA	5/29/2008	900
54-02031	20	DCA	8/27/2008	1100
54-02031	20	Dichloroethane[1,2-]	5/29/2008	200
54-02031	20	Dichloroethane[1,2-]	8/27/2008	230
54-02031	20	DCE	5/29/2008	7200
54-02031	20	DCE	3/27/2008	3000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02031	20	DCE	8/27/2008	2200
54-02031	20	Dichloropropane[1,2-]	8/27/2008	120
54-02031	20	PCE	5/29/2008	2400
54-02031	20	PCE	3/27/2008	3300
54-02031	20	PCE	8/27/2008	3700
54-02031	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/29/2008	4000
54-02031	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/27/2008	5500
54-02031	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/27/2008	4200
54-02031	20	TCA	5/29/2008	54,000
54-02031	20	TCA	3/27/2008	69,000
54-02031	20	TCA	8/27/2008	52,000
54-02031	20	TCE	5/29/2008	12,000
54-02031	20	TCE	3/27/2008	14,000
54-02031	20	TCE	8/27/2008	16,000
54-02031	20	Freon-11	5/29/2008	550
54-02031	20	Freon-11	8/27/2008	500
54-02031	100	Carbon Tetrachloride	8/27/2008	530
54-02031	100	Chloroform	5/29/2008	1300
54-02031	100	Cyclohexane	5/29/2008	2400
54-02031	100	Dichlorodifluoromethane	5/29/2008	740
54-02031	100	Dichlorodifluoromethane	8/27/2008	670
54-02031	100	DCA	3/27/2008	3000
54-02031	100	DCA	5/29/2008	2300
54-02031	100	DCA	8/27/2008	2800
54-02031	100	Dichloroethane[1,2-]	5/29/2008	1300
54-02031	100	Dichloroethane[1,2-]	8/27/2008	1300
54-02031	100	DCE	5/29/2008	21,000
54-02031	100	DCE	3/27/2008	7200
54-02031	100	DCE	8/27/2008	5900
54-02031	100	Dichloropropane[1,2-]	8/27/2008	390
54-02031	100	Methylene Chloride	5/29/2008	1000
54-02031	100	Methylene Chloride	8/27/2008	960
54-02031	100	PCE	5/29/2008	6500
54-02031	100	PCE	3/27/2008	8400
54-02031	100	PCE	8/27/2008	9400
54-02031	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/29/2008	14000
54-02031	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/27/2008	16000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02031	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/27/2008	14000
54-02031	100	TCA	5/29/2008	140,000
54-02031	100	TCA	3/27/2008	160,000
54-02031	100	TCA	8/27/2008	120,000
54-02031	100	TCE	5/29/2008	34,000
54-02031	100	TCE	3/27/2008	36,000
54-02031	100	TCE	8/27/2008	40,000
54-02031	100	Freon-11	5/29/2008	1700
54-02031	100	Freon-11	8/27/2008	1500
54-02031	160	Carbon Tetrachloride	8/27/2008	660
54-02031	160	Chloroform	5/29/2008	1100
54-02031	160	Cyclohexane	5/29/2008	2000
54-02031	160	Dichlorodifluoromethane	5/29/2008	770
54-02031	160	Dichlorodifluoromethane	8/27/2008	880
54-02031	160	DCA	5/29/2008	1700
54-02031	160	DCA	8/27/2008	2400
54-02031	160	Dichloroethane[1,2-]	5/29/2008	800
54-02031	160	Dichloroethane[1,2-]	8/27/2008	860
54-02031	160	DCE	5/29/2008	18,000
54-02031	160	DCE	8/27/2008	7000
54-02031	160	Dichloropropane[1,2-]	8/27/2008	300
54-02031	160	Methylene Chloride	5/29/2008	1200
54-02031	160	Methylene Chloride	8/27/2008	1400
54-02031	160	PCE	5/29/2008	5400
54-02031	160	PCE	8/27/2008	9600
54-02031	160	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/29/2008	14000
54-02031	160	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/27/2008	18,000
54-02031	160	TCA	5/29/2008	110,000
54-02031	160	TCA	8/27/2008	120,000
54-02031	160	TCE	5/29/2008	30,000
54-02031	160	TCE	8/27/2008	41,000
54-02031	160	Freon-11	5/29/2008	1800
54-02031	160	Freon-11	8/27/2008	1900
54-02031	260	Carbon Disulfide	5/29/2008	110
54-02031	260	Carbon Tetrachloride	5/29/2008	160
54-02031	260	Carbon Tetrachloride	8/27/2008	540
54-02031	260	Chloroform	5/29/2008	210

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02031	260	Cyclohexane	5/29/2008	430
54-02031	260	Dichlorodifluoromethane	5/29/2008	260
54-02031	260	Dichlorodifluoromethane	8/27/2008	780
54-02031	260	DCA	5/29/2008	290
54-02031	260	DCA	8/27/2008	1100
54-02031	260	Dichloroethane[1,2-]	8/27/2008	190
54-02031	260	DCE	5/29/2008	3800
54-02031	260	DCE	3/27/2008	8000
54-02031	260	DCE	8/27/2008	6200
54-02031	260	Methylene Chloride	5/29/2008	260
54-02031	260	Methylene Chloride	3/27/2008	1300
54-02031	260	Methylene Chloride	8/27/2008	780
54-02031	260	PCE	3/27/2008	5600
54-02031	260	PCE	5/29/2008	1300
54-02031	260	PCE	8/27/2008	5900
54-02031	260	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/27/2008	20,000
54-02031	260	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/29/2008	4800
54-02031	260	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/27/2008	15,000
54-02031	260	TCA	3/27/2008	93,000
54-02031	260	TCA	5/29/2008	24,000
54-02031	260	TCA	8/27/2008	68,000
54-02031	260	TCE	5/29/2008	6600
54-02031	260	TCE	3/27/2008	24,000
54-02031	260	TCE	8/27/2008	25,000
54-02031	260	Freon-11	3/27/2008	2200
54-02031	260	Freon-11	5/29/2008	560
54-02031	260	Freon-11	8/27/2008	1700
54-02034	20	Chloroform	3/26/2008	99
54-02034	20	Chloroform	5/27/2008	83
54-02034	20	Chloroform	8/29/2008	90
54-02034	20	Cyclohexane	5/27/2008	380
54-02034	20	Cyclohexane	3/26/2008	800
54-02034	20	Dichlorodifluoromethane	3/26/2008	150
54-02034	20	Dichlorodifluoromethane	5/27/2008	120
54-02034	20	Dichlorodifluoromethane	8/29/2008	86
54-02034	20	DCA	3/26/2008	300
54-02034	20	DCA	5/27/2008	240

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02034	20	DCA	8/29/2008	240
54-02034	20	DCE	3/26/2008	580
54-02034	20	DCE	5/27/2008	2200
54-02034	20	DCE	8/29/2008	430
54-02034	20	PCE	3/26/2008	480
54-02034	20	PCE	5/27/2008	340
54-02034	20	PCE	8/29/2008	420
54-02034	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/26/2008	510
54-02034	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/27/2008	440
54-02034	20	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/29/2008	360
54-02034	20	TCA	5/27/2008	24,000
54-02034	20	TCA	3/26/2008	33.000
54-02034	20	TCA	8/29/2008	20,000
54-02034	20	TCE	5/27/2008	3500
54-02034	20	TCE	3/26/2008	4600
54-02034	20	TCE	8/29/2008	3800
54-02034	20	Freon-11	5/27/2008	130
54-02034	60	Chloroform	5/27/2008	100
54-02034	60	Chloroform	8/29/2008	150
54-02034	60	Cyclohexane	5/27/2008	510
54-02034	60	Dichlorodifluoromethane	5/27/2008	160
54-02034	60	Dichlorodifluoromethane	8/29/2008	170
54-02034	60	DCA	5/27/2008	410
54-02034	60	DCA	8/29/2008	590
54-02034	60	Dichloroethane[1,2-]	5/27/2008	140
54-02034	60	Dichloroethane[1,2-]	8/29/2008	190
54-02034	60	DCE	5/27/2008	3000
54-02034	60	DCE	8/29/2008	970
54-02034	60	Methylene Chloride	5/27/2008	93
54-02034	60	Methylene Chloride	8/29/2008	75
54-02034	60	PCE	5/27/2008	420
54-02034	60	PCE	8/29/2008	770
54-02034	60	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/27/2008	600
54-02034	60	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/29/2008	740
54-02034	60	TCA	5/27/2008	32,000
54-02034	60	TCA	8/29/2008	35,000
54-02034	60	TCE	5/27/2008	5100

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02034	60	TCE	8/29/2008	8100
54-02034	60	Freon-11	5/27/2008	180
54-02034	100	Chloroform	3/26/2008	170
54-02034	100	Cyclohexane	3/26/2008	1400
54-02034	100	Dichlorodifluoromethane	3/26/2008	270
54-02034	100	DCA	3/26/2008	700
54-02034	100	Dichloroethane[1,2-]	3/26/2008	230
54-02034	100	DCE	3/26/2008	1300
54-02034	100	Ethanol	3/26/2008	180
54-02034	100	Methylene Chloride	3/26/2008	140
54-02034	100	PCE	3/26/2008	770
54-02034	100	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/26/2008	960
54-02034	100	TCA	3/26/2008	56,000
54-02034	100	TCE	3/26/2008	9800
54-02034	100	Freon-11	3/26/2008	290
54-02034	160	Cyclohexane	5/27/2008	380
54-02034	160	Dichlorodifluoromethane	5/27/2008	240
54-02034	160	Dichlorodifluoromethane	8/29/2008	280
54-02034	160	DCA	5/27/2008	240
54-02034	160	DCA	8/29/2008	340
54-02034	160	DCE	5/27/2008	2600
54-02034	160	DCE	8/29/2008	1400
54-02034	160	Methylene Chloride	5/27/2008	130
54-02034	160	Methylene Chloride	8/29/2008	130
54-02034	160	PCE	5/27/2008	260
54-02034	160	PCE	8/29/2008	480
54-02034	160	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/27/2008	830
54-02034	160	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/29/2008	1100
54-02034	160	TCA	5/27/2008	21,000
54-02034	160	TCA	8/29/2008	24,000
54-02034	160	TCE	5/27/2008	3800
54-02034	160	TCE	8/29/2008	6100
54-02034	160	Freon-11	5/27/2008	300
54-02034	220	Acetone	3/26/2008	130
54-02034	220	Carbon Tetrachloride	3/26/2008	55 (J)
54-02034	220	Cyclohexane	3/26/2008	450
54-02034	220	Dichlorodifluoromethane	3/26/2008	300

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02034	220	DCA	3/26/2008	120
54-02034	220	DCE	3/26/2008	1200
54-02034	220	Methylene Chloride	3/26/2008	72
54-02034	220	PCE	3/26/2008	200
54-02034	220	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/26/2008	960
54-02034	220	TCA	3/26/2008	16,000
54-02034	220	TCE	3/26/2008	2400
54-02034	220	Freon-11	3/26/2008	400
54-02034	260	Acetone	5/27/2008	24
54-02034	260	Benzene	5/27/2008	5.2
54-02034	260	Butanone[2-]	5/27/2008	4
54-02034	260	Carbon Tetrachloride	3/26/2008	32
54-02034	260	Carbon Tetrachloride	5/27/2008	12
54-02034	260	Cyclohexane	5/27/2008	31
54-02034	260	Dichlorodifluoromethane	3/26/2008	150
54-02034	260	Dichlorodifluoromethane	5/27/2008	65
54-02034	260	Dichlorodifluoromethane	8/29/2008	120
54-02034	260	DCA	5/27/2008	4.2
54-02034	260	DCA	3/26/2008	11
54-02034	260	DCE	3/26/2008	430
54-02034	260	DCE	5/27/2008	220
54-02034	260	DCE	8/29/2008	370
54-02034	260	Propylene	5/27/2008	7.1
54-02034	260	PCE	3/26/2008	52
54-02034	260	PCE	5/27/2008	17
54-02034	260	Toluene	5/27/2008	6.6
54-02034	260	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/26/2008	380
54-02034	260	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/27/2008	200
54-02034	260	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/29/2008	460
54-02034	260	TCA	5/27/2008	1400
54-02034	260	TCA	3/26/2008	3800
54-02034	260	TCA	8/29/2008	3100
54-02034	260	TCE	5/27/2008	69
54-02034	260	TCE	3/26/2008	240
54-02034	260	TCE	8/29/2008	230
54-02034	260	Freon-11	3/26/2008	280
54-02034	260	Freon-11	5/27/2008	120

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02034	300	Acetone	3/26/2008	9.8
54-02034	300	Carbon Tetrachloride	3/26/2008	7.2
54-02034	300	Cyclohexane	5/27/2008	4.3
54-02034	300	Dichlorodifluoromethane	5/27/2008	23
54-02034	300	Dichlorodifluoromethane	3/26/2008	38
54-02034	300	DCE	3/26/2008	79
54-02034	300	DCE	5/27/2008	47
54-02034	300	DCE	8/29/2008	62
54-02034	300	PCE	3/26/2008	17
54-02034	300	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/26/2008	100
54-02034	300	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/27/2008	62
54-02034	300	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/29/2008	110
54-02034	300	TCA	5/27/2008	180
54-02034	300	TCA	3/26/2008	370
54-02034	300	TCA	8/29/2008	280
54-02034	300	TCE	5/27/2008	5.7
54-02034	300	TCE	3/26/2008	38
54-02034	300	Freon-11	3/26/2008	84
54-02034	300	Freon-11	5/27/2008	48
54-02089	13	Carbon Tetrachloride	8/21/2008	3300
54-02089	13	Chloroform	8/21/2008	20,000
54-02089	13	DCA	8/21/2008	42,000
54-02089	13	Dichloroethane[1,2-]	8/21/2008	200,000
54-02089	13	DCE	8/21/2008	14,000
54-02089	13	Dichloropropane[1,2-]	8/21/2008	89,000
54-02089	13	PCE	8/21/2008	37,000
54-02089	13	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/21/2008	230,000
54-02089	13	TCA	8/21/2008	820,000
54-02089	13	TCE	8/21/2008	380,000
54-02089	13	Freon-11	8/21/2008	9900
54-02089	28.5	Acetone	5/19/2008	12,000
54-02089	28.5	Carbon Tetrachloride	4/2/2008	5400
54-02089	28.5	Chloroform	4/2/2008	25,000
54-02089	28.5	Chloroform	5/19/2008	30,000
54-02089	28.5	Cyclohexane	4/2/2008	55,000
54-02089	28.5	Cyclohexane	5/19/2008	34,000
54-02089	28.5	DCA	5/19/2008	63,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02089	28.5	DCA	4/2/2008	50,000
54-02089	28.5	Dichloroethane[1,2-]	4/2/2008	56,000
54-02089	28.5	Dichloroethane[1,2-]	5/19/2008	100,000
54-02089	28.5	DCE	4/2/2008	27,000
54-02089	28.5	DCE	5/19/2008	38,000
54-02089	28.5	Dichloropropane[1,2-]	4/2/2008	130,000
54-02089	28.5	Dichloropropane[1,2-]	5/19/2008	150,000
54-02089	28.5	PCE	4/2/2008	33,000
54-02089	28.5	PCE	5/19/2008	26,000
54-02089	28.5	Toluene	5/19/2008	15,000
54-02089	28.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/2/2008	430,000
54-02089	28.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/19/2008	580,000
54-02089	28.5	TCA	4/2/2008	1,600,000
54-02089	28.5	TCA	5/19/2008	2,000,000
54-02089	28.5	TCE	5/19/2008	600,000
54-02089	28.5	TCE	4/2/2008	560,000
54-02089	28.5	Freon-11	5/19/2008	21,000
54-02089	28.5	Freon-11	4/2/2008	15,000
54-02089	43.5	Chloroform	5/19/2008	48,000
54-02089	43.5	Cyclohexane	5/19/2008	43,000
54-02089	43.5	DCA	5/19/2008	80,000
54-02089	43.5	Dichloroethane[1,2-]	5/19/2008	61,000
54-02089	43.5	DCE	5/19/2008	49,000
54-02089	43.5	Dichloropropane[1,2-]	5/19/2008	310,,000
54-02089	43.5	PCE	5/19/2008	67,000
54-02089	43.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/19/2008	760,000
54-02089	43.5	TCA	5/19/2008	3,100,000
54-02089	43.5	TCE	5/19/2008	950,000
54-02089	43.5	Freon-11	5/19/2008	28,000
54-02089	46	Carbon Tetrachloride	8/21/2008	6800
54-02089	46	Chloroform	8/21/2008	38,000
54-02089	46	DCA	8/21/2008	60,000
54-02089	46	Dichloroethane[1,2-]	8/21/2008	69,000
54-02089	46	DCE	8/21/2008	30,000
54-02089	46	Dichloropropane[1,2-]	8/21/2008	270,000
54-02089	46	PCE	8/21/2008	57000
54-02089	46	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/21/2008	570,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-02089	46	TCA	8/21/2008	1,700,000
54-02089	46	TCE	8/21/2008	640,000
54-02089	46	Freon-11	8/21/2008	16,000
54-02089	83.5	Carbon Tetrachloride	4/2/2008	7700
54-02089	83.5	Chloroform	4/2/2008	41,000
54-02089	83.5	Cyclohexane	4/2/2008	73,000
54-02089	83.5	Dichlorodifluoromethane	4/2/2008	3100
54-02089	83.5	DCA	4/2/2008	54,000
54-02089	83.5	Dichloroethane[1,2-]	4/2/2008	25,000
54-02089	83.5	DCE	4/2/2008	50,000
54-02089	83.5	Dichloropropane[1,2-]	4/2/2008	290,000
54-02089	83.5	Methylene Chloride	4/2/2008	3300
54-02089	83.5	PCE	4/2/2008	54,000
54-02089	83.5	Tetrahydrofuran	4/2/2008	1800
54-02089	83.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/2/2008	600,000
54-02089	83.5	TCA	4/2/2008	2,700,000
54-02089	83.5	TCE	4/2/2008	770,000
54-02089	83.5	Freon-11	4/2/2008	23,000
54-24238	63	Chloroform	5/16/2008	33,000
54-24238	63	DCA	5/16/2008	43,000
54-24238	63	Dichloroethane[1,2-]	5/16/2008	71,000
54-24238	63	DCE	5/16/2008	41,000
54-24238	63	Dichloropropane[1,2-]	5/16/2008	200,000
54-24238	63	Methylene Chloride	5/16/2008	340,000
54-24238	63	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/16/2008	520,000
54-24238	63	TCA	5/16/2008	1,500,000
54-24238	63	TCE	5/16/2008	400,000
54-24238	64	Benzene	8/20/2008	2600
54-24238	64	Carbon Tetrachloride	8/20/2008	6300
54-24238	64	Chloroform	8/20/2008	45,000
54-24238	64	Dichlorodifluoromethane	8/20/2008	3400
54-24238	64	DCA	8/20/2008	49,000
54-24238	64	Dichloroethane[1,2-]	8/20/2008	110,000
54-24238	64	DCE	8/20/2008	47,000
54-24238	64	Dichloropropane[1,2-]	8/20/2008	340,000
54-24238	64	Hexane	8/20/2008	1800
54-24238	64	Methylene Chloride	8/20/2008	390,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24238	64	PCE	8/20/2008	71,000
54-24238	64	Tetrahydrofuran	8/20/2008	4000
54-24238	64	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/20/2008	570,000
54-24238	64	TCA	8/20/2008	1,700,000
54-24238	64	TCE	8/20/2008	570,000
54-24238	64	Freon-11	8/20/2008	19,000
54-24238	83	Benzene	4/1/2008	2000
54-24238	83	Carbon Tetrachloride	4/1/2008	6800
54-24238	83	Chloroform	12/21/2007	35,000
54-24238	83	Chloroform	4/1/2008	46,000
54-24238	83	Cyclohexane	4/1/2008	70,000
54-24238	83	Dichlorodifluoromethane	4/1/2008	3900
54-24238	83	DCA	12/21/2007	35,000
54-24238	83	DCA	4/1/2008	49,000
54-24238	83	Dichloroethane[1,2-]	12/21/2007	37,000
54-24238	83	Dichloroethane[1,2-]	4/1/2008	61,000
54-24238	83	DCE	4/1/2008	57,000
54-24238	83	DCE	12/21/2007	68,000
54-24238	83	Dichloropropane[1,2-]	12/21/2007	240,000
54-24238	83	Dichloropropane[1,2-]	4/1/2008	320,000
54-24238	83	Methylene Chloride	4/1/2008	200,000
54-24238	83	PCE	12/21/2007	51,000
54-24238	83	PCE	4/1/2008	67,000
54-24238	83	Tetrahydrofuran	4/1/2008	8000
54-24238	83	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/1/2008	630,000
54-24238	83	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	480,000
54-24238	83	TCA	12/21/2007	2,100,000
54-24238	83	TCA	4/1/2008	2,500,000
54-24238	83	TCE	4/1/2008	660,000
54-24238	83	TCE	12/21/2007	510,000
54-24238	83	Freon-11	12/21/2007	23,000
54-24238	83	Freon-11	4/1/2008	25,000
54-24239	24	Butanol[1-]	5/20/2008	12,000
54-24239	24	Carbon Tetrachloride	12/21/2007	4300
54-24239	24	Carbon Tetrachloride	3/27/2008	3300
54-24239	24	Carbon Tetrachloride	5/20/2008	2500
54-24239	24	Chloroform	12/21/2007	14,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24239	24	Chloroform	3/27/2008	14,000
54-24239	24	Chloroform	5/20/2008	9200
54-24239	24	Cyclohexane	3/27/2008	14,000
54-24239	24	Cyclohexane	5/20/2008	4000
54-24239	24	Dichlorodifluoromethane	12/21/2007	1000
54-24239	24	Dichlorodifluoromethane	3/27/2008	980
54-24239	24	DCA	12/21/2007	13,000
54-24239	24	DCA	3/27/2008	13,000
54-24239	24	DCA	5/20/2008	9800
54-24239	24	Dichloroethane[1,2-]	12/21/2007	5400
54-24239	24	Dichloroethane[1,2-]	3/27/2008	5200
54-24239	24	Dichloroethane[1,2-]	5/20/2008	3400
54-24239	24	DCE	12/21/2007	94,000
54-24239	24	DCE	3/27/2008	18,000
54-24239	24	DCE	5/20/2008	14,000
54-24239	24	Dichloropropane[1,2-]	12/21/2007	7400
54-24239	24	Dichloropropane[1,2-]	3/27/2008	7000
54-24239	24	Dichloropropane[1,2-]	5/20/2008	5200
54-24239	24	PCE	12/21/2007	520,000
54-24239	24	PCE	3/27/2008	240,000
54-24239	24	PCE	5/20/2008	230,000
54-24239	24	Toluene	5/20/2008	1400
54-24239	24	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	45,000
54-24239	24	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/27/2008	61,000
54-24239	24	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/20/2008	46,000
54-24239	24	TCA	12/21/2007	500,000
54-24239	24	TCA	3/27/2008	580,000
54-24239	24	TCA	5/20/2008	400,000
54-24239	24	TCE	12/21/2007	210,000
54-24239	24	TCE	3/27/2008	170,000
54-24239	24	TCE	5/20/2008	120,000
54-24239	24	Freon-11	12/21/2007	4400
54-24239	24	Freon-11	3/27/2008	4400
54-24239	24	Freon-11	5/20/2008	3500
54-24239	25	Benzene	8/21/2008	430
54-24239	25	Carbon Tetrachloride	8/21/2008	2600
54-24239	25	Chloroform	8/21/2008	13,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24239	25	Dichlorodifluoromethane	8/21/2008	890
54-24239	25	DCA	8/21/2008	12,000
54-24239	25	Dichloroethane[1,2-]	8/21/2008	5000
54-24239	25	DCE	8/21/2008	16,000
54-24239	25	Dichloropropane[1,2-]	8/21/2008	7500
54-24239	25	PCE	8/21/2008	140,000
54-24239	25	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/21/2008	48,000
54-24239	25	TCA	8/21/2008	370,000
54-24239	25	TCE	8/21/2008	130,000
54-24239	25	Freon-11	8/21/2008	3600
54-24239	74	Carbon Tetrachloride	5/20/2008	4300
54-24239	74	Chloroform	5/20/2008	15,000
54-24239	74	Cyclohexane	5/20/2008	8000
54-24239	74	DCA	5/20/2008	16,000
54-24239	74	Dichloroethane[1,2-]	5/20/2008	11,000
54-24239	74	DCE	5/20/2008	26,000
54-24239	74	Dichloropropane[1,2-]	5/20/2008	7100
54-24239	74	Methylene Chloride	5/20/2008	6000
54-24239	74	PCE	5/20/2008	140,000
54-24239	74	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/20/2008	88,000
54-24239	74	TCA	5/20/2008	750,000
54-24239	74	TCE	5/20/2008	150,000
54-24239	74	Freon-11	5/20/2008	7800
54-24239	75	Benzene	8/21/2008	790
54-24239	75	Carbon Tetrachloride	8/21/2008	3200
54-24239	75	Chloroform	8/21/2008	16,000
54-24239	75	Dichlorodifluoromethane	8/21/2008	1200
54-24239	75	DCA	8/21/2008	14,000
54-24239	75	Dichloroethane[1,2-]	8/21/2008	8900
54-24239	75	DCE	8/21/2008	22,000
54-24239	75	Dichloropropane[1,2-]	8/21/2008	8900
54-24239	75	PCE	8/21/2008	170,000
54-24239	75	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/21/2008	69,000
54-24239	75	TCA	8/21/2008	510,000
54-24239	75	TCE	8/21/2008	180,000
54-24239	75	Freon-11	8/21/2008	5400
54-24239	98.5	Benzene	12/21/2007	770

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24239	98.5	Benzene	3/27/2008	800
54-24239	98.5	Carbon Tetrachloride	12/21/2007	6100
54-24239	98.5	Carbon Tetrachloride	3/27/2008	3900
54-24239	98.5	Chloroform	12/21/2007	20,000
54-24239	98.5	Chloroform	3/27/2008	17,000
54-24239	98.5	Cyclohexane	3/27/2008	21,000
54-24239	98.5	Dichlorodifluoromethane	12/21/2007	1700
54-24239	98.5	Dichlorodifluoromethane	3/27/2008	1800
54-24239	98.5	DCA	12/21/2007	18,000
54-24239	98.5	DCA	3/27/2008	16,000
54-24239	98.5	Dichloroethane[1,2-]	12/21/2007	11,000
54-24239	98.5	Dichloroethane[1,2-]	3/27/2008	10,000
54-24239	98.5	DCE	12/21/2007	140,000
54-24239	98.5	DCE	3/27/2008	28,000
54-24239	98.5	Dichloropropane[1,2-]	12/21/2007	11,000
54-24239	98.5	Dichloropropane[1,2-]	3/27/2008	7100
54-24239	98.5	PCE	12/21/2007	580,000
54-24239	98.5	PCE	3/27/2008	240,000
54-24239	98.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	75,000
54-24239	98.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/27/2008	93,000
54-24239	98.5	TCA	12/21/2007	770,000
54-24239	98.5	TCA	3/27/2008	820,000
54-24239	98.5	TCE	12/21/2007	270,000
54-24239	98.5	TCE	3/27/2008	230,000
54-24239	98.5	Freon-11	12/21/2007	7700
54-24239	98.5	Freon-11	3/27/2008	7500
54-24240	27	Acetone	6/16/2008	9600
54-24240	27	Benzene	12/21/2007	1900
54-24240	27	Carbon Tetrachloride	12/21/2007	5600
54-24240	27	Chloroform	6/16/2008	11,000
54-24240	27	Chloroform	12/21/2007	15,000
54-24240	27	Dichlorodifluoromethane	12/21/2007	39,000
54-24240	27	Dichlorodifluoromethane	6/16/2008	15,000
54-24240	27	Dichlorodifluoromethane	3/27/2008	75,000
54-24240	27	DCA	3/27/2008	92,000
54-24240	27	DCA	12/21/2007	100,000
54-24240	27	DCA	6/16/2008	54,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24240	27	Dichloroethane[1,2-]	6/16/2008	340,000
54-24240	27	Dichloroethane[1,2-]	3/27/2008	420,000
54-24240	27	Dichloroethane[1,2-]	12/21/2007	420,000
54-24240	27	DCE	12/21/2007	570,000
54-24240	27	DCE	6/16/2008	49,000
54-24240	27	Dichloropropane[1,2-]	12/21/2007	3200
54-24240	27	Methylene Chloride	12/21/2007	60,000
54-24240	27	Methylene Chloride	6/16/2008	12,000
54-24240	27	Methylene Chloride	3/27/2008	41,000
54-24240	27	PCE	3/27/2008	300,000
54-24240	27	PCE	6/16/2008	220,000
54-24240	27	PCE	12/21/2007	280,000
54-24240	27	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	79,000
54-24240	27	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/27/2008	99,000
54-24240	27	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/16/2008	58,000
54-24240	27	TCA	6/16/2008	1,300,000
54-24240	27	TCA	12/21/2007	1,600,000
54-24240	27	TCA	3/27/2008	2,000,000
54-24240	27	TCE	6/16/2008	580,000
54-24240	27	TCE	3/27/2008	720,000
54-24240	27	TCE	12/21/2007	850,000
54-24240	27	Freon-11	6/16/2008	20,000
54-24240	27	Freon-11	3/27/2008	48,000
54-24240	27	Freon-11	12/21/2007	32,000
54-24240	28	Chloroform	8/22/2008	11,000
54-24240	28	Dichlorodifluoromethane	8/22/2008	12,000
54-24240	28	DCA	8/22/2008	55,000
54-24240	28	Dichloroethane[1,2-]	8/22/2008	330,000
54-24240	28	DCE	8/22/2008	8500
54-24240	28	Methylene Chloride	8/22/2008	7100
54-24240	28	PCE	8/22/2008	240,000
54-24240	28	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/22/2008	62,000
54-24240	28	TCA	8/22/2008	1,200,000
54-24240	28	TCE	8/22/2008	670,000
54-24240	28	Freon-11	8/22/2008	18,000
54-24240	52	Acetone	6/16/2008	20,000
54-24240	52	Carbon Tetrachloride	6/16/2008	8200

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24240	52	Chloroform	6/16/2008	36,000
54-24240	52	Dichlorodifluoromethane	6/16/2008	42,000
54-24240	52	DCA	6/16/2008	86,000
54-24240	52	Dichloroethane[1,2-]	6/16/2008	650,000
54-24240	52	DCE	6/16/2008	110,000
54-24240	52	Methylene Chloride	6/16/2008	210,000
54-24240	52	PCE	6/16/2008	270,000
54-24240	52	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/16/2008	97,000
54-24240	52	TCA	6/16/2008	2,300,000
54-24240	52	TCE	6/16/2008	860,000
54-24240	52	Freon-11	6/16/2008	52,000
54-24240	53	Benzene	8/22/2008	2400
54-24240	53	Carbon Tetrachloride	8/22/2008	6100
54-24240	53	Chloroform	8/22/2008	28,000
54-24240	53	Dichlorodifluoromethane	8/22/2008	22,000
54-24240	53	DCA	8/22/2008	63,000
54-24240	53	Dichloroethane[1,2-]	8/22/2008	460,000
54-24240	53	DCE	8/22/2008	12,000
54-24240	53	Dichloropropane[1,2-]	8/22/2008	3900
54-24240	53	Hexane	8/22/2008	2000
54-24240	53	Methylene Chloride	8/22/2008	120,000
54-24240	53	PCE	8/22/2008	210,000
54-24240	53	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/22/2008	78,000
54-24240	53	TCA	8/22/2008	1,300,000
54-24240	53	TCE	8/22/2008	570,000
54-24240	53	Freon-11	8/22/2008	32,000
54-24240	102	Benzene	12/21/2007	950
54-24240	102	Carbon Tetrachloride	12/21/2007	2300
54-24240	102	Chloroform	12/21/2007	8300
54-24240	102	Dichlorodifluoromethane	12/21/2007	5400
54-24240	102	DCA	3/27/2008	48,000
54-24240	102	DCA	12/21/2007	32,000
54-24240	102	Dichloroethane[1,2-]	3/27/2008	82000
54-24240	102	Dichloroethane[1,2-]	12/21/2007	53,000
54-24240	102	DCE	3/27/2008	28,000
54-24240	102	DCE	12/21/2007	300,000
54-24240	102	Dichloropropane[1,2-]	12/21/2007	4200

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24240	102	Hexane	12/21/2007	630
54-24240	102	Methylene Chloride	12/21/2007	18,000
54-24240	102	Methylene Chloride	3/27/2008	37,000
54-24240	102	PCE	3/27/2008	140,000
54-24240	102	PCE	12/21/2007	73,000
54-24240	102	Toluene	12/21/2007	600
54-24240	102	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/27/2008	62,000
54-24240	102	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	38,000
54-24240	102	TCA	12/21/2007	760,000
54-24240	102	TCA	3/27/2008	1,600,000
54-24240	102	TCE	12/21/2007	270,000
54-24240	102	TCE	3/27/2008	320,000
54-24240	102	Freon-11	12/21/2007	6200
54-24240	127	Benzene	12/21/2007	580
54-24240	127	Carbon Tetrachloride	12/21/2007	2000
54-24240	127	Chloroform	12/21/2007	5500
54-24240	127	Chloroform	6/16/2008	9400
54-24240	127	Dichlorodifluoromethane	12/21/2007	4000
54-24240	127	Dichlorodifluoromethane	6/16/2008	8200
54-24240	127	DCA	12/21/2007	23,000
54-24240	127	DCA	3/27/2008	37,000
54-24240	127	DCA	6/16/2008	30,000
54-24240	127	Dichloroethane[1,2-]	12/21/2007	24,000
54-24240	127	Dichloroethane[1,2-]	3/27/2008	49,000
54-24240	127	Dichloroethane[1,2-]	6/16/2008	60,000
54-24240	127	DCE	12/21/2007	220,000
54-24240	127	DCE	6/16/2008	82,000
54-24240	127	DCE	3/27/2008	32,000
54-24240	127	Dichloropropane[1,2-]	12/21/2007	2800
54-24240	127	Methylene Chloride	12/21/2007	4600
54-24240	127	Methylene Chloride	6/16/2008	20,000
54-24240	127	Methylene Chloride	3/27/2008	15,000
54-24240	127	PCE	12/21/2007	46,000
54-24240	127	PCE	3/27/2008	83,000
54-24240	127	PCE	6/16/2008	86,000
54-24240	127	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	33,000
54-24240	127	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/16/2008	44,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24240	127	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/27/2008	53,000
54-24240	127	TCA	12/21/2007	670,000
54-24240	127	TCA	6/16/2008	1,200,000
54-24240	127	TCA	3/27/2008	1,300,000
54-24240	127	TCE	12/21/2007	230,000
54-24240	127	TCE	3/27/2008	300,000
54-24240	127	TCE	6/16/2008	260,000
54-24240	127	Freon-11	12/21/2007	5200
54-24240	127	Freon-11	6/16/2008	8800
54-24240	128	Benzene	8/22/2008	850
54-24240	128	Carbon Tetrachloride	8/22/2008	1800
54-24240	128	Chloroform	8/22/2008	7300
54-24240	128	Dichlorodifluoromethane	8/22/2008	5200
54-24240	128	DCA	8/22/2008	26,000
54-24240	128	Dichloroethane[1,2-]	8/22/2008	42,000
54-24240	128	DCE	8/22/2008	20,000
54-24240	128	Dichloropropane[1,2-]	8/22/2008	4000
54-24240	128	Methylene Chloride	8/22/2008	10,000
54-24240	128	PCE	8/22/2008	73,000
54-24240	128	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/22/2008	34,000
54-24240	128	TCA	8/22/2008	770,000
54-24240	128	TCE	8/22/2008	220,000
54-24240	128	Freon-11	8/22/2008	5400
54-24240	152	Acetone	6/16/2008	13,000
54-24240	152	Benzene	12/21/2007	510
54-24240	152	Carbon Tetrachloride	12/21/2007	1900
54-24240	152	Chloroform	6/16/2008	8400
54-24240	152	Chloroform	12/21/2007	5000
54-24240	152	Dichlorodifluoromethane	6/16/2008	7100
54-24240	152	Dichlorodifluoromethane	12/21/2007	4200
54-24240	152	DCA	6/16/2008	26,000
54-24240	152	DCA	12/21/2007	20,000
54-24240	152	DCA	3/27/2008	29,000
54-24240	152	Dichloroethane[1,2-]	6/16/2008	47,000
54-24240	152	Dichloroethane[1,2-]	12/21/2007	15,000
54-24240	152	Dichloroethane[1,2-]	3/27/2008	25,000
54-24240	152	DCE	12/21/2007	240,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24240	152	DCE	6/16/2008	84,000
54-24240	152	DCE	3/27/2008	33,000
54-24240	152	Dichloropropane[1,2-]	12/21/2007	2300
54-24240	152	Methylene Chloride	12/21/2007	1600
54-24240	152	Methylene Chloride	6/16/2008	9500
54-24240	152	PCE	3/27/2008	71,000
54-24240	152	PCE	6/16/2008	75,000
54-24240	152	PCE	12/21/2007	41,000
54-24240	152	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/16/2008	45,000
54-24240	152	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	35,000
54-24240	152	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/27/2008	48,000
54-24240	152	TCA	3/27/2008	1,100,000
54-24240	152	TCA	6/16/2008	1,200,000
54-24240	152	TCA	12/21/2007	600,000
54-24240	152	TCE	12/21/2007	210,000
54-24240	152	TCE	6/16/2008	260,000
54-24240	152	TCE	3/27/2008	250,000
54-24240	152	Freon-11	6/16/2008	8000
54-24240	152	Freon-11	12/21/2007	5200
54-24240	153	Chloroform	8/22/2008	5000
54-24240	153	Dichlorodifluoromethane	8/22/2008	3100
54-24240	153	DCA	8/22/2008	18,000
54-24240	153	Dichloroethane[1,2-]	8/22/2008	16,000
54-24240	153	DCE	8/22/2008	20,000
54-24240	153	Dichloropropane[1,2-]	8/22/2008	2600
54-24240	153	Methylene Chloride	8/22/2008	1400
54-24240	153	PCE	8/22/2008	47,000
54-24240	153	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/22/2008	28,000
54-24240	153	TCA	8/22/2008	68,0000
54-24240	153	TCE	8/22/2008	190,000
54-24241	73	Benzene	8/15/2008	1900
54-24241	73	Carbon Tetrachloride	5/20/2008	11,000
54-24241	73	Carbon Tetrachloride	8/15/2008	23,000
54-24241	73	Chloroform	5/20/2008	22,000
54-24241	73	Chloroform	8/15/2008	33,000
54-24241	73	Cyclohexane	5/20/2008	13,000
54-24241	73	DCA	5/20/2008	29,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24241	73	DCA	8/15/2008	42,000
54-24241	73	Dichloroethane[1,2-]	5/20/2008	18,000
54-24241	73	Dichloroethane[1,2-]	8/15/2008	27,000
54-24241	73	DCE	5/20/2008	31,000
54-24241	73	DCE	8/15/2008	25,000
54-24241	73	Dichloropropane[1,2-]	5/20/2008	16,000
54-24241	73	Dichloropropane[1,2-]	8/15/2008	31,000
54-24241	73	Methylene Chloride	5/20/2008	5400
54-24241	73	Methylene Chloride	8/15/2008	2800
54-24241	73	PCE	5/20/2008	50,000
54-24241	73	PCE	8/15/2008	150,000
54-24241	73	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/20/2008	170,000
54-24241	73	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/15/2008	200,000
54-24241	73	TCA	5/20/2008	1,200,000
54-24241	73	TCA	8/15/2008	1,200,000
54-24241	73	TCE	5/20/2008	200,000
54-24241	73	TCE	8/15/2008	330,000
54-24241	73	Freon-11	5/20/2008	11,000
54-24241	92	Chloroform	3/28/2008	31,000
54-24241	92	Chloroform	12/21/2007	12,000
54-24241	92	DCA	3/28/2008	36,000
54-24241	92	DCA	12/21/2007	9200
54-24241	92	Dichloroethane[1,2-]	3/28/2008	22,000
54-24241	92	DCE	3/28/2008	35,000
54-24241	92	DCE	12/21/2007	30,000
54-24241	92	PCE	12/21/2007	50,000
54-24241	92	PCE	3/28/2008	130,000
54-24241	92	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	110,000
54-24241	92	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/28/2008	210,000
54-24241	92	TCA	3/28/2008	1,300,000
54-24241	92	TCA	12/21/2007	610,000
54-24241	92	TCE	12/21/2007	160,000
54-24241	92	TCE	3/28/2008	290,000
54-24241	112	Carbon Tetrachloride	5/20/2008	7500
54-24241	112	Chloroform	12/21/2007	12,000
54-24241	112	Chloroform	5/20/2008	19,000
54-24241	112	Chloroform	3/28/2008	25,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24241	112	Cyclohexane	5/20/2008	11,000
54-24241	112	DCA	12/21/2007	9700
54-24241	112	DCA	5/20/2008	17,000
54-24241	112	DCA	3/28/2008	27,000
54-24241	112	Dichloroethane[1,2-]	5/20/2008	14,000
54-24241	112	Dichloroethane[1,2-]	3/28/2008	19,000
54-24241	112	Dichloroethane[1,2-]	12/21/2007	8800
54-24241	112	DCE	5/20/2008	37,000
54-24241	112	DCE	12/21/2007	28,000
54-24241	112	DCE	3/28/2008	35,000
54-24241	112	Dichloropropane[1,2-]	5/20/2008	13,000
54-24241	112	Propanol[2-]	5/20/2008	27,000
54-24241	112	PCE	5/20/2008	85,000
54-24241	112	PCE	12/21/2007	54,000
54-24241	112	PCE	3/28/2008	110,000
54-24241	112	Toluene	5/20/2008	3000
54-24241	112	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/28/2008	170,000
54-24241	112	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/20/2008	150,000
54-24241	112	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	110,000
54-24241	112	TCA	12/21/2007	630,000
54-24241	112	TCA	3/28/2008	1,000,000
54-24241	112	TCA	5/20/2008	960,000
54-24241	112	TCE	5/20/2008	210,000
54-24241	112	TCE	3/28/2008	250,000
54-24241	112	TCE	12/21/2007	150,000
54-24241	112	Freon-11	5/20/2008	13,000
54-24241	113	Benzene	8/15/2008	850
54-24241	113	Carbon Tetrachloride	8/15/2008	7900
54-24241	113	Chloroform	8/15/2008	21,000
54-24241	113	Dichlorodifluoromethane	8/15/2008	1200
54-24241	113	DCA	8/15/2008	22,000
54-24241	113	Dichloroethane[1,2-]	8/15/2008	15,000
54-24241	113	DCE	8/15/2008	26,000
54-24241	113	Dichloropropane[1,2-]	8/15/2008	20,000
54-24241	113	PCE	8/15/2008	110,000
54-24241	113	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/15/2008	140,000
54-24241	113	TCA	8/15/2008	740,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24241	113	TCE	8/15/2008	230,000
54-24241	113	Freon-11	8/15/2008	8700
54-24241	133	Benzene	8/15/2008	970
54-24241	133	Carbon Tetrachloride	5/20/2008	5500
54-24241	133	Carbon Tetrachloride	8/15/2008	6300
54-24241	133	Chloroform	5/20/2008	15,000
54-24241	133	Chloroform	8/15/2008	18,000
54-24241	133	Cyclohexane	5/20/2008	8200
54-24241	133	Dichlorodifluoromethane	8/15/2008	1400
54-24241	133	DCA	5/20/2008	13,000
54-24241	133	DCA	8/15/2008	16,000
54-24241	133	Dichloroethane[1,2-]	5/20/2008	11,000
54-24241	133	Dichloroethane[1,2-]	8/15/2008	12,000
54-24241	133	DCE	5/20/2008	33,000
54-24241	133	DCE	8/15/2008	28,000
54-24241	133	Dichloropropane[1,2-]	5/20/2008	7400
54-24241	133	Dichloropropane[1,2-]	8/15/2008	14,000
54-24241	133	Methylene Chloride	5/20/2008	5000
54-24241	133	Propanol[2-]	5/20/2008	12,000
54-24241	133	PCE	5/20/2008	31,000
54-24241	133	PCE	8/15/2008	100,000
54-24241	133	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/20/2008	110,000
54-24241	133	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/15/2008	120,000
54-24241	133	TCA	5/20/2008	720,000
54-24241	133	TCA	8/15/2008	640,000
54-24241	133	TCE	5/20/2008	130,000
54-24241	133	TCE	8/15/2008	210,000
54-24241	133	Freon-11	5/20/2008	11,000
54-24241	133	Freon-11	8/15/2008	9600
54-24241	192	Chloroform	12/21/2007	22,000
54-24241	192	Chloroform	3/28/2008	15,000
54-24241	192	DCA	3/28/2008	12,000
54-24241	192	DCA	12/21/2007	25,000
54-24241	192	Dichloroethane[1,2-]	12/21/2007	17,000
54-24241	192	Dichloroethane[1,2-]	3/28/2008	8800
54-24241	192	DCE	12/21/2007	31,000
54-24241	192	DCE	3/28/2008	40,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24241	192	Methylene Chloride	3/28/2008	6700
54-24241	192	PCE	12/21/2007	97,000
54-24241	192	PCE	3/28/2008	70,000
54-24241	192	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	180,000
54-24241	192	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/28/2008	130,000
54-24241	192	TCA	3/28/2008	620,000
54-24241	192	TCA	12/21/2007	1,300,000
54-24241	192	TCE	3/28/2008	170,000
54-24241	192	TCE	12/21/2007	260,000
54-24241	192	Freon-11	3/28/2008	13,000
54-24242	24	Benzene	12/21/2007	520
54-24242	24	Carbon Tetrachloride	12/21/2007	3900
54-24242	24	Carbon Tetrachloride	5/21/2008	3600
54-24242	24	Chloroform	12/21/2007	15,000
54-24242	24	Chloroform	3/31/2008	8300
54-24242	24	Chloroform	5/21/2008	13,000
54-24242	24	Cyclohexane	5/21/2008	6000
54-24242	24	Dichlorodifluoromethane	12/21/2007	1400
54-24242	24	DCA	12/21/2007	16,000
54-24242	24	DCA	3/31/2008	9000
54-24242	24	DCA	5/21/2008	14,000
54-24242	24	Dichloroethane[1,2-]	12/21/2007	6000
54-24242	24	Dichloroethane[1,2-]	3/31/2008	2200
54-24242	24	Dichloroethane[1,2-]	5/21/2008	5400
54-24242	24	DCE	12/21/2007	180,000
54-24242	24	DCE	3/31/2008	12,000
54-24242	24	DCE	5/21/2008	21,000
54-24242	24	Dichloropropane[1,2-]	5/21/2008	6000
54-24242	24	Dichloropropane[1,2-]	12/21/2007	8600
54-24242	24	Propanol[2-]	5/21/2008	12,000
54-24242	24	PCE	12/21/2007	250,000
54-24242	24	PCE	3/31/2008	270,000
54-24242	24	PCE	5/21/2008	99,000
54-24242	24	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	77,000
54-24242	24	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/31/2008	40,000
54-24242	24	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/21/2008	61,000
54-24242	24	TCA	12/21/2007	470,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24242	24	TCA	3/31/2008	360,000
54-24242	24	TCA	5/21/2008	610,000
54-24242	24	TCE	12/21/2007	190,000
54-24242	24	TCE	3/31/2008	110,000
54-24242	24	TCE	5/21/2008	130,000
54-24242	24	Freon-11	5/21/2008	4900
54-24242	24	Freon-11	12/21/2007	5900
54-24242	25	Benzene	8/21/2008	380
54-24242	25	Carbon Tetrachloride	8/21/2008	2200
54-24242	25	Chloroform	8/21/2008	11,000
54-24242	25	Dichlorodifluoromethane	8/21/2008	570
54-24242	25	DCA	8/21/2008	10,000
54-24242	25	Dichloroethane[1,2-]	8/21/2008	3200
54-24242	25	DCE	8/21/2008	12,000
54-24242	25	Dichloropropane[1,2-]	8/21/2008	7400
54-24242	25	PCE	8/21/2008	300,000
54-24242	25	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/21/2008	41,000
54-24242	25	TCA	8/21/2008	330,000
54-24242	25	TCE	8/21/2008	140,000
54-24242	25	Freon-11	8/21/2008	2800
54-24242	49	Carbon Tetrachloride	5/21/2008	4100
54-24242	49	Chloroform	5/21/2008	15,000
54-24242	49	Cyclohexane	5/21/2008	7700
54-24242	49	DCA	5/21/2008	16,000
54-24242	49	Dichloroethane[1,2-]	5/21/2008	9000
54-24242	49	DCE	5/21/2008	27,000
54-24242	49	Dichloropropane[1,2-]	5/21/2008	6600
54-24242	49	Propanol[2-]	5/21/2008	7400
54-24242	49	PCE	5/21/2008	110,000
54-24242	49	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/21/2008	75,000
54-24242	49	TCA	5/21/2008	760,000
54-24242	49	TCE	5/21/2008	150,000
54-24242	49	Freon-11	5/21/2008	6800
54-24242	50	Benzene	8/21/2008	990
54-24242	50	Carbon Tetrachloride	8/21/2008	3200
54-24242	50	Chloroform	8/21/2008	15,000
54-24242	50	Dichlorodifluoromethane	8/21/2008	1000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24242	50	DCA	8/21/2008	13,000
54-24242	50	Dichloroethane[1,2-]	8/21/2008	10,000
54-24242	50	DCE	8/21/2008	20,000
54-24242	50	Dichloropropane[1,2-]	8/21/2008	10,000
54-24242	50	Methylene Chloride	8/21/2008	3800
54-24242	50	PCE	8/21/2008	170,000
54-24242	50	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/21/2008	74,000
54-24242	50	TCA	8/21/2008	480,000
54-24242	50	TCE	8/21/2008	170,000
54-24242	50	Freon-11	8/21/2008	5200
54-24242	99	Benzene	12/21/2007	940
54-24242	99	Carbon Tetrachloride	12/21/2007	4400
54-24242	99	Chloroform	12/21/2007	18,000
54-24242	99	Dichlorodifluoromethane	12/21/2007	2000
54-24242	99	DCA	12/21/2007	17,000
54-24242	99	Dichloroethane[1,2-]	12/21/2007	10,000
54-24242	99	DCE	12/21/2007	220,000
54-24242	99	Dichloropropane[1,2-]	12/21/2007	8700
54-24242	99	PCE	12/21/2007	230,000
54-24242	99	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	100,000
54-24242	99	TCA	12/21/2007	620,000
54-24242	99	TCE	12/21/2007	240,000
54-24242	99	Freon-11	12/21/2007	8500
54-24242	109.5	Chloroform	3/31/2008	23,000
54-24242	109.5	DCA	3/31/2008	19,000
54-24242	109.5	DCE	3/31/2008	40,000
54-24242	109.5	Dichloroethane[1,2-]	3/31/2008	16000
54-24242	109.5	PCE	3/31/2008	310,000
54-24242	109.5	TCA	3/31/2008	1,200,000
54-24242	109.5	TCE	3/31/2008	290,000
54-24242	109.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/31/2008	150,000
54-24243	24	Carbon Tetrachloride	6/3/2008	3800
54-24243	24	Carbon Tetrachloride	12/21/2007	2900
54-24243	24	Chloroform	4/9/2008	21,000
54-24243	24	Chloroform	6/3/2008	17,000
54-24243	24	Chloroform	12/21/2007	17,000
54-24243	24	Cyclohexane	6/3/2008	10,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24243	24	Dichlorodifluoromethane	6/3/2008	1300
54-24243	24	Dichlorodifluoromethane	12/21/2007	1100
54-24243	24	DCA	6/3/2008	21,000
54-24243	24	DCA	4/9/2008	25,000
54-24243	24	DCA	12/21/2007	20,000
54-24243	24	Dichloroethane[1,2-]	12/21/2007	3700
54-24243	24	Dichloroethane[1,2-]	6/3/2008	5700
54-24243	24	DCE	6/3/2008	150,000
54-24243	24	DCE	4/9/2008	21,000
54-24243	24	DCE	12/21/2007	210,000
54-24243	24	Dichloropropane[1,2-]	6/3/2008	41,000
54-24243	24	Dichloropropane[1,2-]	12/21/2007	40,000
54-24243	24	Dichloropropane[1,2-]	4/9/2008	49,000
54-24243	24	PCE	4/9/2008	21,000
54-24243	24	PCE	12/21/2007	17,000
54-24243	24	PCE	6/3/2008	21,000
54-24243	24	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/9/2008	310,000
54-24243	24	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	240,000
54-24243	24	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/3/2008	220,000
54-24243	24	TCA	6/3/2008	760,000
54-24243	24	TCA	12/21/2007	590,000
54-24243	24	TCA	4/9/2008	1,200,000
54-24243	24	TCE	6/3/2008	220,000
54-24243	24	TCE	4/9/2008	260,000
54-24243	24	TCE	12/21/2007	200,000
54-24243	24	Freon-11	12/21/2007	8400
54-24243	24	Freon-11	6/3/2008	7200
54-24243	25	Carbon Tetrachloride	8/6/2008	2500
54-24243	25	Chloroform	8/6/2008	17,000
54-24243	25	DCA	8/6/2008	18,000
54-24243	25	Dichloroethane[1,2-]	8/6/2008	7100
54-24243	25	DCE	8/6/2008	12,000
54-24243	25	Dichloropropane[1,2-]	8/6/2008	46,000
54-24243	25	PCE	8/6/2008	23,000
54-24243	25	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/6/2008	200,000
54-24243	25	TCA	8/6/2008	640,000
54-24243	25	TCE	8/6/2008	200,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24243	25	Freon-11	8/6/2008	5900
54-24243	74	Benzene	6/3/2008	1100
54-24243	74	Carbon Tetrachloride	6/3/2008	6600
54-24243	74	Chloroform	6/3/2008	29,000
54-24243	74	Cyclohexane	6/3/2008	18,000
54-24243	74	Dichlorodifluoromethane	6/3/2008	2100
54-24243	74	DCA	6/3/2008	29,000
54-24243	74	Dichloroethane[1,2-]	6/3/2008	11,000
54-24243	74	DCE	6/3/2008	240,000
54-24243	74	Dichloropropane[1,2-]	6/3/2008	100,000
54-24243	74	Methylene Chloride	6/3/2008	8600
54-24243	74	PCE	6/3/2008	27,000
54-24243	74	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/3/2008	390,000
54-24243	74	TCA	6/3/2008	1,300,000
54-24243	74	TCE	6/3/2008	340,000
54-24243	74	Freon-11	6/3/2008	15,000
54-24243	75	Carbon Tetrachloride	8/6/2008	3600
54-24243	75	Chloroform	8/6/2008	25,000
54-24243	75	DCA	8/6/2008	22,000
54-24243	75	Dichloroethane[1,2-]	8/6/2008	10,000
54-24243	75	DCE	8/6/2008	23,000
54-24243	75	Dichloropropane[1,2-]	8/6/2008	99,000
54-24243	75	Methylene Chloride	8/6/2008	4800
54-24243	75	PCE	8/6/2008	29,000
54-24243	75	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/6/2008	310,000
54-24243	75	TCA	8/6/2008	980,000
54-24243	75	TCE	8/6/2008	310,000
54-24243	75	Freon-11	8/6/2008	11,000
54-24243	99	Benzene	12/21/2007	2000
54-24243	99	Carbon Tetrachloride	12/21/2007	5200
54-24243	99	Chloroform	4/9/2008	30,000
54-24243	99	Chloroform	12/21/2007	30,000
54-24243	99	Dichlorodifluoromethane	12/21/2007	2000
54-24243	99	DCA	4/9/2008	26,000
54-24243	99	DCA	12/21/2007	27,000
54-24243	99	Dichloroethane[1,2-]	12/21/2007	24,000
54-24243	99	Dichloroethane[1,2-]	4/9/2008	21,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24243	99	DCE	4/9/2008	60,000
54-24243	99	DCE	12/21/2007	310,000
54-24243	99	Dichloropropane[1,2-]	12/21/2007	110,000
54-24243	99	Dichloropropane[1,2-]	4/9/2008	100,000
54-24243	99	Methylene Chloride	4/9/2008	54,000
54-24243	99	Methylene Chloride	12/21/2007	52,000
54-24243	99	PCE	4/9/2008	23,000
54-24243	99	PCE	12/21/2007	34,000
54-24243	99	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/9/2008	410,000
54-24243	99	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	330,000
54-24243	99	TCA	4/9/2008	1,600,000
54-24243	99	TCA	12/21/2007	1,100,000
54-24243	99	TCE	4/9/2008	340,000
54-24243	99	TCE	12/21/2007	380,000
54-24243	99	Freon-11	12/21/2007	22,000
54-24243	99	Freon-11	4/9/2008	21,000
54-24243	124	Benzene	6/3/2008	1900
54-24243	124	Benzene	12/21/2007	2500
54-24243	124	Carbon Tetrachloride	12/21/2007	5900
54-24243	124	Carbon Tetrachloride	6/3/2008	6000
54-24243	124	Chloroform	4/9/2008	26,000
54-24243	124	Chloroform	6/3/2008	27,000
54-24243	124	Chloroform	12/21/2007	29,000
54-24243	124	Cyclohexane	6/3/2008	14,000
54-24243	124	Dichlorodifluoromethane	12/21/2007	2200
54-24243	124	Dichlorodifluoromethane	6/3/2008	2200
54-24243	124	DCA	6/3/2008	20,000
54-24243	124	DCA	12/21/2007	22,000
54-24243	124	DCA	4/9/2008	19,000
54-24243	124	Dichloroethane[1,2-]	12/21/2007	26,000
54-24243	124	Dichloroethane[1,2-]	6/3/2008	24,000
54-24243	124	Dichloroethane[1,2-]	4/9/2008	23,000
54-24243	124	DCE	4/9/2008	47,000
54-24243	124	DCE	6/3/2008	240,000
54-24243	124	DCE	12/21/2007	320,000
54-24243	124	Dichloropropane[1,2-]	12/21/2007	71,000
54-24243	124	Dichloropropane[1,2-]	6/3/2008	66,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24243	124	Dichloropropane[1,2-]	4/9/2008	59,000
54-24243	124	Ethanol	6/3/2008	2200
54-24243	124	Methylene Chloride	12/21/2007	53,000
54-24243	124	Methylene Chloride	6/3/2008	41,000
54-24243	124	Methylene Chloride	4/9/2008	44,000
54-24243	124	PCE	12/21/2007	35,000
54-24243	124	PCE	6/3/2008	36,000
54-24243	124	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/9/2008	300,000
54-24243	124	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/3/2008	250,000
54-24243	124	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	310,000
54-24243	124	TCA	4/9/2008	1,400,000
54-24243	124	TCA	6/3/2008	950,000
54-24243	124	TCA	12/21/2007	980,000
54-24243	124	TCE	4/9/2008	270,000
54-24243	124	TCE	6/3/2008	310,000
54-24243	124	TCE	12/21/2007	350,000
54-24243	124	Freon-11	12/21/2007	25,000
54-24243	124	Freon-11	6/3/2008	19,000
54-24243	125	Benzene	8/6/2008	1900
54-24243	125	Carbon Tetrachloride	8/6/2008	3900
54-24243	125	Chloroform	8/6/2008	23,000
54-24243	125	Dichlorodifluoromethane	8/6/2008	1200
54-24243	125	DCA	8/6/2008	16,000
54-24243	125	Dichloroethane[1,2-]	8/6/2008	21,000
54-24243	125	DCE	8/6/2008	32,000
54-24243	125	Dichloropropane[1,2-]	8/6/2008	62,000
54-24243	125	Ethanol	8/6/2008	1700
54-24243	125	Methylene Chloride	8/6/2008	34,000
54-24243	125	PCE	8/6/2008	33,000
54-24243	125	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/6/2008	200,000
54-24243	125	TCA	8/6/2008	740,000
54-24243	125	TCE	8/6/2008	240,000
54-24243	125	Freon-11	8/6/2008	15,000
54-24399	550	Carbon Tetrachloride	6/16/2008	55
54-24399	550	Carbon Tetrachloride	9/3/2008	140
54-24399	550	Chloroform	6/16/2008	150
54-24399	550	Chloroform	9/3/2008	450

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-24399	550	Dichlorodifluoromethane	6/16/2008	34
54-24399	550	Dichlorodifluoromethane	9/3/2008	49
54-24399	550	DCA	6/16/2008	190
54-24399	550	DCA	4/8/2008	140
54-24399	550	DCA	9/3/2008	630
54-24399	550	Dichloroethane[1,2-]	6/16/2008	67
54-24399	550	Dichloroethane[1,2-]	9/3/2008	92
54-24399	550	DCE	6/16/2008	370
54-24399	550	DCE	4/8/2008	230
54-24399	550	Dichloropropane[1,2-]	6/16/2008	69
54-24399	550	Dichloropropane[1,2-]	9/3/2008	210
54-24399	550	Methylene Chloride	6/16/2008	31
54-24399	550	Methylene Chloride	9/3/2008	37
54-24399	550	PCE	4/8/2008	490
54-24399	550	PCE	6/16/2008	980
54-24399	550	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/8/2008	840
54-24399	550	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/16/2008	920
54-24399	550	Trichloro-1,2,2-trifluoroethane[1,1,2-]	9/3/2008	2900
54-24399	550	TCA	6/16/2008	6000
54-24399	550	TCA	4/8/2008	5200
54-24399	550	TCE	4/8/2008	1000
54-24399	550	TCE	6/16/2008	1600
54-24399	550	Freon-11	6/16/2008	67
54-24399	550	Freon-11	9/3/2008	140
54-27641	30	Benzene	12/21/2007	840
54-27641	30	Carbon Tetrachloride	12/21/2007	2700
54-27641	30	Chloroform	5/16/2008	4800
54-27641	30	Chloroform	12/21/2007	5500
54-27641	30	Cyclohexane	5/16/2008	14,000
54-27641	30	Dichlorodifluoromethane	12/21/2007	12,000
54-27641	30	Dichlorodifluoromethane	5/16/2008	18,000
54-27641	30	DCA	3/28/2008	71,000
54-27641	30	DCA	12/21/2007	81,000
54-27641	30	DCA	5/16/2008	47,000
54-27641	30	Dichloroethane[1,2-]	5/16/2008	84,000
54-27641	30	Dichloroethane[1,2-]	3/28/2008	120,000
54-27641	30	Dichloroethane[1,2-]	12/21/2007	100,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27641	30	DCE	5/16/2008	12,000
54-27641	30	DCE	12/21/2007	400,000
54-27641	30	Dichloropropane[1,2-]	12/21/2007	3300
54-27641	30	Hexane	12/21/2007	930
54-27641	30	Methylene Chloride	5/16/2008	26,000
54-27641	30	Methylene Chloride	12/21/2007	50,000
54-27641	30	Methylene Chloride	3/28/2008	40,000
54-27641	30	Propanol[2-]	5/16/2008	15,000
54-27641	30	PCE	5/16/2008	58,000
54-27641	30	PCE	3/28/2008	180,000
54-27641	30	PCE	12/21/2007	160,000
54-27641	30	Toluene	12/21/2007	950
54-27641	30	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/28/2008	62,000
54-27641	30	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/16/2008	45,000
54-27641	30	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	51,000
54-27641	30	TCA	5/16/2008	1,300,000
54-27641	30	TCA	3/28/2008	1,600,000
54-27641	30	TCA	12/21/2007	1,200,000
54-27641	30	TCE	5/16/2008	310,000
54-27641	30	TCE	12/21/2007	560,000
54-27641	30	TCE	3/28/2008	510,000
54-27641	30	Freon-11	5/16/2008	14,000
54-27641	30	Freon-11	12/21/2007	12,000
54-27641	32	Carbon Tetrachloride	8/22/2008	1900
54-27641	32	Chloroform	8/22/2008	5000
54-27641	32	Dichlorodifluoromethane	8/22/2008	9000
54-27641	32	DCA	8/22/2008	41,000
54-27641	32	Dichloroethane[1,2-]	8/22/2008	100,000
54-27641	32	DCE	8/22/2008	9100
54-27641	32	Dichloropropane[1,2-]	8/22/2008	2500
54-27641	32	Methylene Chloride	8/22/2008	18,000
54-27641	32	PCE	8/22/2008	150,000
54-27641	32	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/22/2008	43,000
54-27641	32	TCA	8/22/2008	880,000
54-27641	32	TCE	8/22/2008	390,000
54-27641	32	Freon-11	8/22/2008	9900
54-27641	80	Benzene	12/21/2007	810

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27641	80	Carbon Tetrachloride	12/21/2007	1900
54-27641	80	Chloroform	5/16/2008	4800
54-27641	80	Chloroform	12/21/2007	5700
54-27641	80	Cyclohexane	5/16/2008	11,000
54-27641	80	Dichlorodifluoromethane	5/16/2008	12,000
54-27641	80	Dichlorodifluoromethane	12/21/2007	7700
54-27641	80	DCA	5/16/2008	30,000
54-27641	80	DCA	12/21/2007	40,000
54-27641	80	DCA	3/28/2008	49,000
54-27641	80	Dichloroethane[1,2-]	5/16/2008	60,000
54-27641	80	Dichloroethane[1,2-]	3/28/2008	83,000
54-27641	80	Dichloroethane[1,2-]	12/21/2007	68,000
54-27641	80	DCE	5/16/2008	12,000
54-27641	80	DCE	12/21/2007	330,000
54-27641	80	Dichloropropane[1,2-]	12/21/2007	4100
54-27641	80	Hexane	12/21/2007	1500
54-27641	80	Methylene Chloride	5/16/2008	64,000
54-27641	80	Methylene Chloride	12/21/2007	66,000
54-27641	80	Methylene Chloride	3/28/2008	82,000
54-27641	80	Propanol[2-]	5/16/2008	14,000
54-27641	80	PCE	3/28/2008	210,000
54-27641	80	PCE	5/16/2008	58,000
54-27641	80	PCE	12/21/2007	140,000
54-27641	80	Tetrahydrofuran	12/21/2007	900
54-27641	80	Toluene	12/21/2007	2700
54-27641	80	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/16/2008	26,000
54-27641	80	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	34,000
54-27641	80	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/28/2008	46,000
54-27641	80	TCA	12/21/2007	920,000
54-27641	80	TCA	5/16/2008	920,000
54-27641	80	TCA	3/28/2008	1,500,000
54-27641	80	TCE	3/28/2008	260,000
54-27641	80	TCE	12/21/2007	240,000
54-27641	80	TCE	5/16/2008	130,000
54-27641	80	Freon-11	5/16/2008	9800
54-27641	80	Freon-11	12/21/2007	7900
54-27641	82	Benzene	8/22/2008	780

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27641	82	Carbon Tetrachloride	8/22/2008	1500
54-27641	82	Chloroform	8/22/2008	5200
54-27641	82	Dichlorodifluoromethane	8/22/2008	7200
54-27641	82	DCA	8/22/2008	30,000
54-27641	82	Dichloroethane[1,2-]	8/22/2008	71,000
54-27641	82	DCE	8/22/2008	10,000
54-27641	82	Dichloropropane[1,2-]	8/22/2008	3300
54-27641	82	Hexane	8/22/2008	1200
54-27641	82	Methylene Chloride	8/22/2008	47,000
54-27641	82	PCE	8/22/2008	140,000
54-27641	82	Toluene	8/22/2008	2200
54-27641	82	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/22/2008	29,000
54-27641	82	TCA	8/22/2008	730,000
54-27641	82	TCE	8/22/2008	210,000
54-27641	82	Freon-11	8/22/2008	7200
54-27641	110	Chloroform	5/16/2008	4800
54-27641	110	Chloroform	12/21/2007	6700
54-27641	110	Cyclohexane	5/16/2008	12,000
54-27641	110	Dichlorodifluoromethane	12/21/2007	7900
54-27641	110	Dichlorodifluoromethane	5/16/2008	6900
54-27641	110	DCA	12/21/2007	34,000
54-27641	110	DCA	5/16/2008	27,000
54-27641	110	DCA	3/28/2008	39,000
54-27641	110	Dichloroethane[1,2-]	12/21/2007	73,000
54-27641	110	Dichloroethane[1,2-]	5/16/2008	42,000
54-27641	110	Dichloroethane[1,2-]	3/28/2008	58,000
54-27641	110	DCE	3/28/2008	24,000
54-27641	110	DCE	12/21/2007	260,000
54-27641	110	DCE	5/16/2008	17,000
54-27641	110	Dichloropropane[1,2-]	12/21/2007	4600
54-27641	110	Methylene Chloride	12/21/2007	37,000
54-27641	110	Methylene Chloride	3/28/2008	45,000
54-27641	110	Methylene Chloride	5/16/2008	35,000
54-27641	110	Propanol[2-]	5/16/2008	10,000
54-27641	110	PCE	5/16/2008	34,000
54-27641	110	PCE	12/21/2007	98,000
54-27641	110	PCE	3/28/2008	110,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27641	110	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/28/2008	39,000
54-27641	110	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	24,000
54-27641	110	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/16/2008	26,000
54-27641	110	TCA	12/21/2007	1,200,000
54-27641	110	TCA	3/28/2008	1,400,000
54-27641	110	TCA	5/16/2008	1,100,000
54-27641	110	TCE	12/21/2007	260,000
54-27641	110	TCE	3/28/2008	230,000
54-27641	110	TCE	5/16/2008	130,000
54-27641	110	Freon-11	5/16/2008	6700
54-27641	110	Freon-11	12/21/2007	7000
54-27641	115	Benzene	8/22/2008	690
54-27641	115	Chloroform	8/22/2008	5000
54-27641	115	Dichlorodifluoromethane	8/22/2008	5200
54-27641	115	DCA	8/22/2008	25,000
54-27641	115	Dichloroethane[1,2-]	8/22/2008	49,000
54-27641	115	DCE	8/22/2008	13,000
54-27641	115	Dichloropropane[1,2-]	8/22/2008	3900
54-27641	115	Methylene Chloride	8/22/2008	24,000
54-27641	115	PCE	8/22/2008	89,000
54-27641	115	Toluene	8/22/2008	960
54-27641	115	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/22/2008	24,000
54-27641	115	TCA	8/22/2008	720,000
54-27641	115	TCE	8/22/2008	180,000
54-27641	115	Freon-11	8/22/2008	4900
54-27641	180	Carbon Tetrachloride	5/16/2008	760
54-27641	180	Carbon Tetrachloride	12/21/2007	1600
54-27641	180	Chloroform	12/21/2007	3400
54-27641	180	Chloroform	5/16/2008	600
54-27641	180	Cyclohexane	5/16/2008	1700
54-27641	180	Dichlorodifluoromethane	12/21/2007	3700
54-27641	180	Dichlorodifluoromethane	5/16/2008	1600
54-27641	180	DCA	12/21/2007	16,000
54-27641	180	DCA	5/16/2008	1700
54-27641	180	Dichloroethane[1,2-]	12/21/2007	9600
54-27641	180	DCE	12/21/2007	210,000
54-27641	180	DCE	5/16/2008	12,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27641	180	Dichloropropane[1,2-]	12/21/2007	1600
54-27641	180	Methylene Chloride	5/16/2008	1800
54-27641	180	Methylene Chloride	12/21/2007	22,000
54-27641	180	PCE	5/16/2008	5600
54-27641	180	PCE	12/21/2007	21,000
54-27641	180	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	27,000
54-27641	180	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/16/2008	12,000
54-27641	180	TCA	12/21/2007	550,000
54-27641	180	TCA	5/16/2008	130,000
54-27641	180	TCE	12/21/2007	160,000
54-27641	180	TCE	5/16/2008	36,000
54-27641	180	Freon-11	5/16/2008	2200
54-27641	180	Freon-11	12/21/2007	4600
54-27641	182	Chloroform	8/22/2008	3100
54-27641	182	Dichlorodifluoromethane	8/22/2008	2600
54-27641	182	DCA	8/22/2008	13,000
54-27641	182	Dichloroethane[1,2-]	8/22/2008	9300
54-27641	182	DCE	8/22/2008	18,000
54-27641	182	Dichloropropane[1,2-]	8/22/2008	1500
54-27641	182	Methylene Chloride	8/22/2008	17,000
54-27641	182	PCE	8/22/2008	25,000
54-27641	182	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/22/2008	21,000
54-27641	182	TCA	8/22/2008	550,000
54-27641	182	TCE	8/22/2008	150,000
54-27641	230	Carbon Tetrachloride	12/21/2007	1100
54-27641	230	Chloroform	12/21/2007	1500
54-27641	230	Dichlorodifluoromethane	12/21/2007	2900
54-27641	230	DCA	3/28/2008	6900
54-27641	230	DCA	12/21/2007	6200
54-27641	230	Dichloroethane[1,2-]	12/21/2007	940
54-27641	230	DCE	12/21/2007	68,000
54-27641	230	DCE	3/28/2008	22,000
54-27641	230	Methylene Chloride	3/28/2008	8900
54-27641	230	Methylene Chloride	12/21/2007	7000
54-27641	230	PCE	3/28/2008	15,000
54-27641	230	PCE	12/21/2007	11,000
54-27641	230	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/28/2008	25,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27641	230	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	23,000
54-27641	230	TCA	3/28/2008	390,000
54-27641	230	TCA	12/21/2007	320,000
54-27641	230	TCE	12/21/2007	87,000
54-27641	230	TCE	3/28/2008	82,000
54-27641	230	Freon-11	12/21/2007	3500
54-27641	269	Carbon Tetrachloride	5/16/2008	140
54-27641	269	Carbon Tetrachloride	12/21/2007	820
54-27641	269	Chloroform	5/16/2008	40
54-27641	269	Chloroform	12/21/2007	570
54-27641	269	Cyclohexane	5/16/2008	170
54-27641	269	Dichlorodifluoromethane	12/21/2007	2000
54-27641	269	Dichlorodifluoromethane	5/16/2008	330
54-27641	269	DCA	12/21/2007	1800
54-27641	269	DCA	5/16/2008	83
54-27641	269	DCE	12/21/2007	21,000
54-27641	269	DCE	5/16/2008	2500
54-27641	269	DCE	3/28/2008	15,000
54-27641	269	Hexane	12/21/2007	130
54-27641	269	Methylene Chloride	5/16/2008	53
54-27641	269	Methylene Chloride	12/21/2007	1600
54-27641	269	Methylene Chloride	3/28/2008	2400
54-27641	269	PCE	12/21/2007	5400
54-27641	269	PCE	3/28/2008	6100
54-27641	269	PCE	5/16/2008	690
54-27641	269	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/28/2008	19,000
54-27641	269	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	18,000
54-27641	269	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/16/2008	3800
54-27641	269	TCA	12/21/2007	140,000
54-27641	269	TCA	3/28/2008	140,000
54-27641	269	TCA	5/16/2008	10,000
54-27641	269	TCE	12/21/2007	37,000
54-27641	269	TCE	3/28/2008	36,000
54-27641	269	TCE	5/16/2008	3500
54-27641	269	Freon-11	5/16/2008	680
54-27641	269	Freon-11	12/21/2007	2700
54-27641	271	Carbon Tetrachloride	8/22/2008	700

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27641	271	Chloroform	8/22/2008	630
54-27641	271	Dichlorodifluoromethane	8/22/2008	1500
54-27641	271	DCA	8/22/2008	2000
54-27641	271	DCE	8/22/2008	13,000
54-27641	271	Methylene Chloride	8/22/2008	1700
54-27641	271	PCE	8/22/2008	7000
54-27641	271	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/22/2008	15,000
54-27641	271	TCA	8/22/2008	110,000
54-27641	271	TCE	8/22/2008	36,000
54-27641	271	Freon-11	8/22/2008	2200
54-27641	330	Carbon Tetrachloride	12/21/2007	170
54-27641	330	Chloroform	12/21/2007	44
54-27641	330	Chloroform	5/16/2008	2800
54-27641	330	Cyclohexane	5/16/2008	7800
54-27641	330	Dichlorodifluoromethane	12/21/2007	460
54-27641	330	Dichlorodifluoromethane	5/16/2008	3700
54-27641	330	Dichlorodifluoromethane	3/28/2008	560
54-27641	330	DCA	5/16/2008	14,000
54-27641	330	DCA	12/21/2007	120
54-27641	330	Dichloroethane[1,2-]	5/16/2008	8400
54-27641	330	Dichloroethane[1,2-]	12/21/2007	36
54-27641	330	DCE	5/16/2008	23,000
54-27641	330	DCE	3/28/2008	3700
54-27641	330	DCE	12/21/2007	3700
54-27641	330	Methylene Chloride	5/16/2008	22,000
54-27641	330	Methylene Chloride	12/21/2007	54
54-27641	330	PCE	12/21/2007	990
54-27641	330	PCE	3/28/2008	930
54-27641	330	PCE	5/16/2008	16,000
54-27641	330	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	3400
54-27641	330	Trichloro-1,2,2-trifluoroethane[1,1,2-]	3/28/2008	6900
54-27641	330	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/16/2008	23,000
54-27641	330	TCA	5/16/2008	730,000
54-27641	330	TCA	12/21/2007	9600
54-27641	330	TCA	3/28/2008	16,000
54-27641	330	TCE	5/16/2008	99,000
54-27641	330	TCE	3/28/2008	5300

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27641	330	TCE	12/21/2007	4400
54-27641	330	Freon-11	5/16/2008	3900
54-27641	330	Freon-11	12/21/2007	760
54-27641	330	Freon-11	3/28/2008	1100
54-27641	332.5	Carbon Tetrachloride	8/22/2008	120
54-27641	332.5	Dichlorodifluoromethane	8/22/2008	290
54-27641	332.5	DCA	8/22/2008	82
54-27641	332.5	DCE	8/22/2008	2000
54-27641	332.5	Methylene Chloride	8/22/2008	48
54-27641	332.5	PCE	8/22/2008	760
54-27641	332.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/22/2008	3700
54-27641	332.5	TCA	8/22/2008	8700
54-27641	332.5	TCE	8/22/2008	3600
54-27641	332.5	Freon-11	8/22/2008	560
54-27642	27.5	Chloroform	5/19/2008	26,000
54-27642	27.5	Cyclohexane	5/19/2008	31,000
54-27642	27.5	DCA	5/19/2008	44,000
54-27642	27.5	DCA	4/2/2008	44,000
54-27642	27.5	Dichloroethane[1,2-]	5/19/2008	10,000
54-27642	27.5	DCE	12/21/2007	43,000
54-27642	27.5	DCE	4/2/2008	51,000
54-27642	27.5	DCE	5/19/2008	45,000
54-27642	27.5	Dichloropropane[1,2-]	5/19/2008	73,000
54-27642	27.5	Dichloropropane[1,2-]	12/21/2007	76,000
54-27642	27.5	PCE	5/19/2008	27,000
54-27642	27.5	Toluene	5/19/2008	8300
54-27642	27.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	380,000
54-27642	27.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/2/2008	400,000
54-27642	27.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/19/2008	370,000
54-27642	27.5	TCA	12/21/2007	3,400,000
54-27642	27.5	TCA	5/19/2008	3,300,000
54-27642	27.5	TCA	4/2/2008	3,500,000
54-27642	27.5	TCE	5/19/2008	240,000
54-27642	27.5	TCE	4/2/2008	220,000
54-27642	27.5	TCE	12/21/2007	250,000
54-27642	27.5	Freon-11	5/19/2008	14,000
54-27642	30	Chloroform	8/20/2008	27,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27642	30	DCA	8/20/2008	44,000
54-27642	30	Dichloroethane[1,2-]	8/20/2008	7700
54-27642	30	DCE	8/20/2008	37,000
54-27642	30	Dichloropropane[1,2-]	8/20/2008	97,000
54-27642	30	PCE	8/20/2008	56,000
54-27642	30	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/20/2008	350,000
54-27642	30	TCA	8/20/2008	2,800,000
54-27642	30	TCE	8/20/2008	300,000
54-27642	72.5	Acetone	5/19/2008	8600
54-27642	72.5	Carbon Disulfide	5/19/2008	3400
54-27642	72.5	Carbon Tetrachloride	5/19/2008	6900
54-27642	72.5	Chloroform	4/2/2008	31,000
54-27642	72.5	Chloroform	5/19/2008	36,000
54-27642	72.5	Chloroform	12/21/2007	38,000
54-27642	72.5	Cyclohexane	5/19/2008	18,000
54-27642	72.5	DCA	5/19/2008	23,000
54-27642	72.5	DCA	4/2/2008	23,000
54-27642	72.5	DCA	12/21/2007	26,000
54-27642	72.5	Dichloroethane[1,2-]	12/21/2007	28,000
54-27642	72.5	Dichloroethane[1,2-]	5/19/2008	31,000
54-27642	72.5	Dichloroethane[1,2-]	4/2/2008	21,000
54-27642	72.5	DCE	12/21/2007	69,000
54-27642	72.5	DCE	5/19/2008	63,000
54-27642	72.5	DCE	4/2/2008	57,000
54-27642	72.5	Dichloropropane[1,2-]	12/21/2007	91,000
54-27642	72.5	Dichloropropane[1,2-]	5/19/2008	77,000
54-27642	72.5	Dichloropropane[1,2-]	4/2/2008	80,000
54-27642	72.5	Methylene Chloride	4/2/2008	17,000
54-27642	72.5	Methylene Chloride	5/19/2008	25,000
54-27642	72.5	Methylene Chloride	12/21/2007	24,000
54-27642	72.5	Propanol[2-]	5/19/2008	20,000
54-27642	72.5	PCE	5/19/2008	29,000
54-27642	72.5	PCE	4/2/2008	36,000
54-27642	72.5	PCE	12/21/2007	52,000
54-27642	72.5	Tetrahydrofuran	5/19/2008	19,000
54-27642	72.5	Toluene	5/19/2008	8100
54-27642	72.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	390,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27642	72.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/19/2008	320,000
54-27642	72.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/2/2008	340,000
54-27642	72.5	TCA	4/2/2008	1,600,000
54-27642	72.5	TCA	5/19/2008	1,700,000
54-27642	72.5	TCA	12/21/2007	2,100,000
54-27642	72.5	TCE	12/21/2007	430,000
54-27642	72.5	TCE	5/19/2008	310,000
54-27642	72.5	TCE	4/2/2008	300,000
54-27642	72.5	Freon-11	12/21/2007	32,000
54-27642	72.5	Freon-11	4/2/2008	27,000
54-27642	72.5	Freon-11	5/19/2008	34,000
54-27642	75	Benzene	8/20/2008	2900
54-27642	75	Carbon Tetrachloride	8/20/2008	5900
54-27642	75	Chloroform	8/20/2008	36,000
54-27642	75	DCA	8/20/2008	22,000
54-27642	75	Dichloroethane[1,2-]	8/20/2008	27,000
54-27642	75	DCE	8/20/2008	45,000
54-27642	75	Dichloropropane[1,2-]	8/20/2008	99,000
54-27642	75	Methylene Chloride	8/20/2008	12,000
54-27642	75	PCE	8/20/2008	57,000
54-27642	75	Tetrahydrofuran	8/20/2008	25,000
54-27642	75	Toluene	8/20/2008	2700
54-27642	75	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/20/2008	270,000
54-27642	75	TCA	8/20/2008	1,200,000
54-27642	75	TCE	8/20/2008	340,000
54-27642	75	Freon-11	8/20/2008	24,000
54-27642	113.5	Chloroform	5/19/2008	55,000
54-27642	113.5	Cyclohexane	5/19/2008	34,000
54-27642	113.5	DCA	5/19/2008	52,000
54-27642	113.5	DCA	4/2/2008	39,000
54-27642	113.5	Dichloroethane[1,2-]	5/19/2008	39,000
54-27642	113.5	DCE	5/19/2008	70,000
54-27642	113.5	DCE	4/2/2008	62,000
54-27642	113.5	DCE	12/21/2007	59,000
54-27642	113.5	Dichloropropane[1,2-]	4/2/2008	130,000
54-27642	113.5	Dichloropropane[1,2-]	5/19/2008	180,000
54-27642	113.5	Dichloropropane[1,2-]	12/21/2007	150,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27642	113.5	PCE	5/19/2008	88,000
54-27642	113.5	Tetrahydrofuran	5/19/2008	17,000
54-27642	113.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	500,000
54-27642	113.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/19/2008	570,000
54-27642	113.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/2/2008	510,000
54-27642	113.5	TCA	4/2/2008	2,800,000
54-27642	113.5	TCA	12/21/2007	2,700,000
54-27642	113.5	TCA	5/19/2008	3,500,000
54-27642	113.5	TCE	4/2/2008	340,000
54-27642	113.5	TCE	12/21/2007	430,000
54-27642	113.5	TCE	5/19/2008	560,000
54-27642	113.5	Freon-11	5/19/2008	30,000
54-27642	116	Carbon Tetrachloride	8/20/2008	6200
54-27642	116	Chloroform	8/20/2008	40,000
54-27642	116	DCA	8/20/2008	37,000
54-27642	116	Dichloroethane[1,2-]	8/20/2008	23,000
54-27642	116	DCE	8/20/2008	42,000
54-27642	116	Dichloropropane[1,2-]	8/20/2008	160,000
54-27642	116	Methylene Chloride	8/20/2008	4900
54-27642	116	PCE	8/20/2008	70,000
54-27642	116	Tetrahydrofuran	8/20/2008	10,000
54-27642	116	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/20/2008	400,000
54-27642	116	TCA	8/20/2008	1,900,000
54-27642	116	TCE	8/20/2008	420,000
54-27642	116	Freon-11	8/20/2008	19,000
54-27642	172.5	Acetone	5/19/2008	9000
54-27642	172.5	Benzene	5/19/2008	3200
54-27642	172.5	Carbon Disulfide	5/19/2008	2500
54-27642	172.5	Carbon Tetrachloride	5/19/2008	6500
54-27642	172.5	Chloroform	5/19/2008	26,000
54-27642	172.5	Cyclohexane	5/19/2008	10,000
54-27642	172.5	Dichlorodifluoromethane	5/19/2008	2900
54-27642	172.5	DCA	5/19/2008	11,000
54-27642	172.5	Dichloroethane[1,2-]	5/19/2008	17,000
54-27642	172.5	DCE	5/19/2008	62,000
54-27642	172.5	Dichloropropane[1,2-]	5/19/2008	26,000
54-27642	172.5	Ethanol	5/19/2008	6000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27642	172.5	Hexane	5/19/2008	2200
54-27642	172.5	Methylene Chloride	5/19/2008	88,000
54-27642	172.5	Propanol[2-]	5/19/2008	14,000
54-27642	172.5	PCE	5/19/2008	21,000
54-27642	172.5	Toluene	5/19/2008	23,000
54-27642	172.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/19/2008	220,000
54-27642	172.5	TCA	5/19/2008	980,000
54-27642	172.5	TCE	5/19/2008	240,000
54-27642	172.5	Freon-11	5/19/2008	35,000
54-27642	175	Benzene	8/20/2008	4300
54-27642	175	Carbon Tetrachloride	8/20/2008	5700
54-27642	175	Chlorobenzene	8/20/2008	1500
54-27642	175	Chloroform	8/20/2008	27,000
54-27642	175	Dichlorodifluoromethane	8/20/2008	2200
54-27642	175	DCA	8/20/2008	11,000
54-27642	175	Dichloroethane[1,2-]	8/20/2008	15,000
54-27642	175	DCE	8/20/2008	49,000
54-27642	175	Dichloropropane[1,2-]	8/20/2008	36,000
54-27642	175	Ethylbenzene	8/20/2008	1300
54-27642	175	Hexane	8/20/2008	2100
54-27642	175	Methylene Chloride	8/20/2008	69,000
54-27642	175	PCE	8/20/2008	38,000
54-27642	175	Toluene	8/20/2008	24,000
54-27642	175	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/20/2008	200,000
54-27642	175	TCA	8/20/2008	750,000
54-27642	175	TCE	8/20/2008	250,000
54-27642	175	Freon-11	8/20/2008	28,000
54-27642	175	Xylene[1,2-]	8/20/2008	3600
54-27642	175	Xylene[1,3-]+Xylene[1,4-]	8/20/2008	2400
54-27642	232	Chloroform	12/21/2007	19,000
54-27642	232	Chloroform	4/2/2008	18,000
54-27642	232	DCE	12/21/2007	72,000
54-27642	232	DCE	4/2/2008	72,000
54-27642	232	Methylene Chloride	4/2/2008	59,000
54-27642	232	Methylene Chloride	12/21/2007	63,000
54-27642	232	PCE	4/2/2008	17,000
54-27642	232	PCE	12/21/2007	19,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27642	232	Toluene	4/2/2008	11,000
54-27642	232	Toluene	12/21/2007	18,000
54-27642	232	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	250,000
54-27642	232	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/2/2008	260,000
54-27642	232	TCA	4/2/2008	720,000
54-27642	232	TCA	12/21/2007	690,000
54-27642	232	TCE	12/21/2007	210,000
54-27642	232	TCE	4/2/2008	190,000
54-27642	232	Freon-11	12/21/2007	29,000
54-27642	232	Freon-11	4/2/2008	30,000
54-27642	272	Benzene	5/19/2008	1700
54-27642	272	Carbon Tetrachloride	5/19/2008	5000
54-27642	272	Chloroform	5/19/2008	10,000
54-27642	272	Chloroform	4/2/2008	8900
54-27642	272	Chloroform	12/21/2007	8700
54-27642	272	Cyclohexane	5/19/2008	4400
54-27642	272	Dichlorodifluoromethane	5/19/2008	3300
54-27642	272	DCA	5/19/2008	3200
54-27642	272	DCE	4/2/2008	53,000
54-27642	272	DCE	5/19/2008	63,000
54-27642	272	DCE	12/21/2007	48,000
54-27642	272	Dichloropropane[1,2-]	5/19/2008	2600
54-27642	272	Hexane	5/19/2008	2900
54-27642	272	Methylene Chloride	4/2/2008	26,000
54-27642	272	Methylene Chloride	12/21/2007	25,000
54-27642	272	Methylene Chloride	5/19/2008	34,000
54-27642	272	Propanol[2-]	5/19/2008	3400
54-27642	272	PCE	5/19/2008	7500
54-27642	272	PCE	4/2/2008	8500
54-27642	272	PCE	12/21/2007	9900
54-27642	272	Toluene	12/21/2007	6500
54-27642	272	Toluene	5/19/2008	4000
54-27642	272	Toluene	4/2/2008	4100
54-27642	272	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/2/2008	170,000
54-27642	272	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	150,000
54-27642	272	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/19/2008	170,000
54-27642	272	TCA	4/2/2008	360,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27642	272	TCA	12/21/2007	330,000
54-27642	272	TCA	5/19/2008	400,000
54-27642	272	TCE	5/19/2008	120,000
54-27642	272	TCE	4/2/2008	110,000
54-27642	272	TCE	12/21/2007	110,000
54-27642	272	Freon-11	5/19/2008	24,000
54-27642	272	Freon-11	12/21/2007	15,000
54-27642	272	Freon-11	4/2/2008	19,000
54-27642	275	Benzene	8/20/2008	2300
54-27642	275	Carbon Tetrachloride	8/20/2008	3900
54-27642	275	Chloroform	8/20/2008	10,000
54-27642	275	Dichlorodifluoromethane	8/20/2008	2200
54-27642	275	DCA	8/20/2008	2800
54-27642	275	Dichloroethane[1,2-]	8/20/2008	470
54-27642	275	DCE	8/20/2008	44,000
54-27642	275	Dichloropropane[1,2-]	8/20/2008	3200
54-27642	275	Hexane	8/20/2008	2500
54-27642	275	Methylene Chloride	8/20/2008	25,000
54-27642	275	PCE	8/20/2008	15,000
54-27642	275	Toluene	8/20/2008	5100
54-27642	275	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/20/2008	130,000
54-27642	275	TCA	8/20/2008	280,000
54-27642	275	TCE	8/20/2008	120,000
54-27642	275	Freon-11	8/20/2008	18,000
54-27642	335	Benzene	5/19/2008	460
54-27642	335	Carbon Tetrachloride	5/19/2008	1900
54-27642	335	Chloroform	5/19/2008	1300
54-27642	335	Chloroform	12/21/2007	1600
54-27642	335	Cyclohexane	5/19/2008	960
54-27642	335	Dichlorodifluoromethane	5/19/2008	1400
54-27642	335	DCA	5/19/2008	420
54-27642	335	DCE	4/2/2008	21,000
54-27642	335	DCE	5/19/2008	22,000
54-27642	335	DCE	12/21/2007	24,000
54-27642	335	Hexane	5/19/2008	1100
54-27642	335	Methylene Chloride	4/2/2008	2700
54-27642	335	Methylene Chloride	12/21/2007	3400

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27642	335	Methylene Chloride	5/19/2008	2900
54-27642	335	PCE	12/21/2007	2600
54-27642	335	PCE	5/19/2008	2700
54-27642	335	Toluene	5/19/2008	580
54-27642	335	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5/19/2008	49,000
54-27642	335	Trichloro-1,2,2-trifluoroethane[1,1,2-]	4/2/2008	47,000
54-27642	335	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	53,000
54-27642	335	TCA	5/19/2008	77,000
54-27642	335	TCA	4/2/2008	69,000
54-27642	335	TCA	12/21/2007	89,000
54-27642	335	TCE	12/21/2007	35,000
54-27642	335	TCE	5/19/2008	32,000
54-27642	335	TCE	4/2/2008	24,000
54-27642	335	Freon-11	5/19/2008	5500
54-27642	335	Freon-11	12/21/2007	5000
54-27642	335	Freon-11	4/2/2008	4500
54-27642	338	Benzene	8/20/2008	580
54-27642	338	Carbon Tetrachloride	8/20/2008	1500
54-27642	338	Chloroform	8/20/2008	1400
54-27642	338	Dichlorodifluoromethane	8/20/2008	980
54-27642	338	DCA	8/20/2008	420
54-27642	338	Dichloroethane[1,2-]	8/20/2008	77
54-27642	338	DCE	8/20/2008	16,000
54-27642	338	Dichloropropane[1,2-]	8/20/2008	380
54-27642	338	Hexane	8/20/2008	1000
54-27642	338	Methylene Chloride	8/20/2008	2600
54-27642	338	PCE	8/20/2008	3000
54-27642	338	Toluene	8/20/2008	560
54-27642	338	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/20/2008	33,000
54-27642	338	TCA	8/20/2008	56,000
54-27642	338	TCE	8/20/2008	26,000
54-27642	338	Freon-11	8/20/2008	4500
54-27643	27.5	Carbon Tetrachloride	12/21/2007	3100
54-27643	27.5	Carbon Tetrachloride	6/4/2008	2500
54-27643	27.5	Chloroform	6/4/2008	9500
54-27643	27.5	Chloroform	12/21/2007	13,000
54-27643	27.5	Chloroform	4/7/2008	8600

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27643	27.5	Cyclohexane	6/4/2008	4600
54-27643	27.5	Dichlorodifluoromethane	6/4/2008	550
54-27643	27.5	Dichlorodifluoromethane	12/21/2007	800
54-27643	27.5	DCA	12/21/2007	6000
54-27643	27.5	DCA	4/7/2008	4400
54-27643	27.5	DCA	6/4/2008	5200
54-27643	27.5	Dichloroethane[1,2-]	6/4/2008	3300
54-27643	27.5	Dichloroethane[1,2-]	12/21/2007	5200
54-27643	27.5	DCE	6/4/2008	63,000
54-27643	27.5	DCE	12/21/2007	100,000
54-27643	27.5	Dichloropropane[1,2-]	4/7/2008	20,000
54-27643	27.5	Dichloropropane[1,2-]	12/21/2007	25,000
54-27643	27.5	Dichloropropane[1,2-]	6/4/2008	21,000
54-27643	27.5	Methylene Chloride	12/21/2007	410
54-27643	27.5	PCE	12/21/2007	28,000
54-27643	27.5	PCE	4/7/2008	15,000
54-27643	27.5	PCE	6/4/2008	20,000
54-27643	27.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/4/2008	56,000
54-27643	27.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	54,000
54-27643	27.5	TCA	4/7/2008	370,000
54-27643	27.5	TCA	6/4/2008	330,000
54-27643	27.5	TCA	12/21/2007	340,000
54-27643	27.5	TCE	12/21/2007	93,000
54-27643	27.5	TCE	6/4/2008	69,000
54-27643	27.5	Freon-11	6/4/2008	6700
54-27643	27.5	Freon-11	12/21/2007	10,000
54-27643	30	Carbon Tetrachloride	8/12/2008	2300
54-27643	30	Chloroform	8/12/2008	9800
54-27643	30	DCA	8/12/2008	5300
54-27643	30	Dichloroethane[1,2-]	8/12/2008	3400
54-27643	30	DCE	8/12/2008	7600
54-27643	30	Dichloropropane[1,2-]	8/12/2008	22,000
54-27643	30	PCE	8/12/2008	19,000
54-27643	30	Toluene	8/12/2008	1500
54-27643	30	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/12/2008	66,000
54-27643	30	TCA	8/12/2008	420,000
54-27643	30	TCE	8/12/2008	70,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27643	30	Freon-11	8/12/2008	6200
54-27643	71.5	Benzene	6/4/2008	750
54-27643	71.5	Benzene	12/21/2007	1100
54-27643	71.5	Carbon Tetrachloride	6/4/2008	3100
54-27643	71.5	Carbon Tetrachloride	12/21/2007	4300
54-27643	71.5	Chlorobenzene	12/21/2007	980
54-27643	71.5	Chlorobenzene	6/4/2008	740
54-27643	71.5	Chloroform	6/4/2008	13,000
54-27643	71.5	Chloroform	4/7/2008	14,000
54-27643	71.5	Chloroform	12/21/2007	19,000
54-27643	71.5	Cyclohexane	6/4/2008	5800
54-27643	71.5	Dichlorodifluoromethane	12/21/2007	1200
54-27643	71.5	Dichlorodifluoromethane	6/4/2008	800
54-27643	71.5	DCA	12/21/2007	7900
54-27643	71.5	DCA	6/4/2008	6000
54-27643	71.5	Dichloroethane[1,2-]	6/4/2008	7800
54-27643	71.5	Dichloroethane[1,2-]	4/7/2008	9000
54-27643	71.5	Dichloroethane[1,2-]	12/21/2007	13,000
54-27643	71.5	DCE	6/4/2008	63,000
54-27643	71.5	DCE	12/21/2007	130,000
54-27643	71.5	Dichloropropane[1,2-]	6/4/2008	28,000
54-27643	71.5	Dichloropropane[1,2-]	4/7/2008	29,000
54-27643	71.5	Dichloropropane[1,2-]	12/21/2007	32,000
54-27643	71.5	Ethanol	6/4/2008	2400
54-27643	71.5	Methylene Chloride	6/4/2008	6600
54-27643	71.5	Methylene Chloride	12/21/2007	10,000
54-27643	71.5	PCE	6/4/2008	24,000
54-27643	71.5	PCE	12/21/2007	30,000
54-27643	71.5	PCE	4/7/2008	20,000
54-27643	71.5	Tetrahydrofuran	6/4/2008	20,000
54-27643	71.5	Tetrahydrofuran	12/21/2007	20,000
54-27643	71.5	Toluene	6/4/2008	1500
54-27643	71.5	Toluene	12/21/2007	1900
54-27643	71.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	78,000
54-27643	71.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/4/2008	70,000
54-27643	71.5	TCA	4/7/2008	530,000
54-27643	71.5	TCA	6/4/2008	420,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27643	71.5	TCA	12/21/2007	470,000
54-27643	71.5	TCE	12/21/2007	130,000
54-27643	71.5	TCE	4/7/2008	98,000
54-27643	71.5	TCE	6/4/2008	97,000
54-27643	71.5	Freon-11	6/4/2008	10,000
54-27643	71.5	Freon-11	12/21/2007	18,000
54-27643	71.5	Xylene[1,2-]	6/4/2008	1300
54-27643	71.5	Xylene[1,2-]	12/21/2007	1800
54-27643	74	Carbon Tetrachloride	8/12/2008	3000
54-27643	74	Chloroform	8/12/2008	15,000
54-27643	74	DCA	8/12/2008	6800
54-27643	74	Dichloroethane[1,2-]	8/12/2008	9200
54-27643	74	DCE	8/12/2008	15,000
54-27643	74	Dichloropropane[1,2-]	8/12/2008	31,000
54-27643	74	Methylene Chloride	8/12/2008	7400
54-27643	74	PCE	8/12/2008	24,000
54-27643	74	Tetrahydrofuran	8/12/2008	20,000
54-27643	74	Toluene	8/12/2008	3100
54-27643	74	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/12/2008	99,000
54-27643	74	TCA	8/12/2008	570,000
54-27643	74	TCE	8/12/2008	110,000
54-27643	74	Freon-11	8/12/2008	13,000
54-27643	114.5	Benzene	12/21/2007	1800
54-27643	114.5	Benzene	6/4/2008	1400
54-27643	114.5	Carbon Tetrachloride	6/4/2008	3600
54-27643	114.5	Carbon Tetrachloride	12/21/2007	4400
54-27643	114.5	Chlorobenzene	12/21/2007	1100
54-27643	114.5	Chlorobenzene	6/4/2008	970
54-27643	114.5	Chloroform	12/21/2007	22,000
54-27643	114.5	Chloroform	4/7/2008	17,000
54-27643	114.5	Chloroform	6/4/2008	17,000
54-27643	114.5	Cyclohexane	6/4/2008	6700
54-27643	114.5	Dichlorodifluoromethane	6/4/2008	1200
54-27643	114.5	Dichlorodifluoromethane	12/21/2007	1700
54-27643	114.5	DCA	12/21/2007	7900
54-27643	114.5	DCA	6/4/2008	7000
54-27643	114.5	Dichloroethane[1,2-]	12/21/2007	16,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27643	114.5	Dichloroethane[1,2-]	6/4/2008	11,000
54-27643	114.5	Dichloroethane[1,2-]	4/7/2008	11,000
54-27643	114.5	DCE	12/21/2007	140,000
54-27643	114.5	DCE	6/4/2008	86,000
54-27643	114.5	Dichloropropane[1,2-]	6/4/2008	29,000
54-27643	114.5	Dichloropropane[1,2-]	12/21/2007	30,000
54-27643	114.5	Dichloropropane[1,2-]	4/7/2008	25,000
54-27643	114.5	Ethanol	6/4/2008	3700
54-27643	114.5	Hexane	12/21/2007	520
54-27643	114.5	Hexane	6/4/2008	380
54-27643	114.5	Methylene Chloride	6/4/2008	19,000
54-27643	114.5	Methylene Chloride	4/7/2008	22,000
54-27643	114.5	Methylene Chloride	12/21/2007	26,000
54-27643	114.5	PCE	6/4/2008	25,000
54-27643	114.5	PCE	12/21/2007	28,000
54-27643	114.5	PCE	4/7/2008	18,000
54-27643	114.5	Tetrahydrofuran	12/21/2007	2100
54-27643	114.5	Tetrahydrofuran	6/4/2008	2000
54-27643	114.5	Toluene	12/21/2007	6000
54-27643	114.5	Toluene	6/4/2008	4600
54-27643	114.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	98,000
54-27643	114.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/4/2008	100,000
54-27643	114.5	TCA	4/7/2008	580,000
54-27643	114.5	TCA	6/4/2008	490,000
54-27643	114.5	TCA	12/21/2007	500,000
54-27643	114.5	TCE	4/7/2008	120,000
54-27643	114.5	TCE	6/4/2008	130,000
54-27643	114.5	TCE	12/21/2007	150,000
54-27643	114.5	Freon-11	6/4/2008	16,000
54-27643	114.5	Freon-11	12/21/2007	23,000
54-27643	114.5	Xylene[1,2-]	6/4/2008	2200
54-27643	114.5	Xylene[1,2-]	12/21/2007	2500
54-27643	117	Benzene	8/12/2008	1400
54-27643	117	Carbon Tetrachloride	8/12/2008	3200
54-27643	117	Chloroform	8/12/2008	16,000
54-27643	117	DCA	8/12/2008	6600
54-27643	117	Dichloroethane[1,2-]	8/12/2008	9600

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27643	117	DCE	8/12/2008	20,000
54-27643	117	Dichloropropane[1,2-]	8/12/2008	24,000
54-27643	117	Methylene Chloride	8/12/2008	18,000
54-27643	117	PCE	8/12/2008	18,000
54-27643	117	Tetrahydrofuran	8/12/2008	1900
54-27643	117	Toluene	8/12/2008	5100
54-27643	117	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/12/2008	110,000
54-27643	117	TCA	8/12/2008	510,000
54-27643	117	TCE	8/12/2008	120,000
54-27643	117	Freon-11	8/12/2008	14,000
54-27643	164	Benzene	6/4/2008	2000
54-27643	164	Carbon Tetrachloride	6/4/2008	3800
54-27643	164	Chlorobenzene	6/4/2008	710
54-27643	164	Chloroform	6/4/2008	18,000
54-27643	164	Cyclohexane	6/4/2008	5600
54-27643	164	Dichlorodifluoromethane	6/4/2008	1800
54-27643	164	DCA	6/4/2008	5500
54-27643	164	Dichloroethane[1,2-]	6/4/2008	8500
54-27643	164	DCE	6/4/2008	100,000
54-27643	164	Dichloropropane[1,2-]	6/4/2008	19,000
54-27643	164	Ethanol	6/4/2008	1300
54-27643	164	Hexane	6/4/2008	1100
54-27643	164	Methylene Chloride	6/4/2008	35,000
54-27643	164	PCE	6/4/2008	20,000
54-27643	164	Toluene	6/4/2008	6400
54-27643	164	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/4/2008	120,000
54-27643	164	TCA	6/4/2008	400,000
54-27643	164	TCE	6/4/2008	140,000
54-27643	164	Freon-11	6/4/2008	18,000
54-27643	164	Xylene[1,2-]	6/4/2008	1800
54-27643	167	Benzene	8/12/2008	1800
54-27643	167	Carbon Tetrachloride	8/12/2008	3100
54-27643	167	Chloroform	8/12/2008	14,000
54-27643	167	DCA	8/12/2008	4800
54-27643	167	Dichloroethane[1,2-]	8/12/2008	7100
54-27643	167	DCE	8/12/2008	27,000
54-27643	167	Dichloropropane[1,2-]	8/12/2008	15,000

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27643	167	Methylene Chloride	8/12/2008	30,000
54-27643	167	PCE	8/12/2008	14,000
54-27643	167	Toluene	8/12/2008	7000
54-27643	167	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/12/2008	120,000
54-27643	167	TCA	8/12/2008	440,000
54-27643	167	TCE	8/12/2008	110,000
54-27643	167	Freon-11	8/12/2008	17,000
54-27643	232.5	Benzene	12/21/2007	2700
54-27643	232.5	Carbon Tetrachloride	12/21/2007	4700
54-27643	232.5	Chloroform	12/21/2007	16,000
54-27643	232.5	Chloroform	4/7/2008	12,000
54-27643	232.5	Dichlorodifluoromethane	12/21/2007	3000
54-27643	232.5	DCA	12/21/2007	3600
54-27643	232.5	Dichloroethane[1,2-]	12/21/2007	2700
54-27643	232.5	DCE	12/21/2007	91,000
54-27643	232.5	Dichloropropane[1,2-]	12/21/2007	7400
54-27643	232.5	Hexane	12/21/2007	2200
54-27643	232.5	Methylene Chloride	12/21/2007	37,000
54-27643	232.5	Methylene Chloride	4/7/2008	31,000
54-27643	232.5	PCE	12/21/2007	16,000
54-27643	232.5	PCE	4/7/2008	9500
54-27643	232.5	Toluene	12/21/2007	9100
54-27643	232.5	Toluene	4/7/2008	4700
54-27643	232.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	120,000
54-27643	232.5	TCA	4/7/2008	350,000
54-27643	232.5	TCA	12/21/2007	360,000
54-27643	232.5	TCE	4/7/2008	99,000
54-27643	232.5	TCE	12/21/2007	140,000
54-27643	232.5	Freon-11	12/21/2007	22,000
54-27643	232.5	Freon-11	4/7/2008	16,000
54-27643	272.5	Benzene	4/7/2008	1300
54-27643	272.5	Benzene	12/21/2007	1800
54-27643	272.5	Benzene	6/4/2008	1200
54-27643	272.5	Carbon Tetrachloride	4/7/2008	3000
54-27643	272.5	Carbon Tetrachloride	12/21/2007	3800
54-27643	272.5	Carbon Tetrachloride	6/4/2008	2900
54-27643	272.5	Chloroform	4/7/2008	9700

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27643	272.5	Chloroform	12/21/2007	9900
54-27643	272.5	Chloroform	6/4/2008	7400
54-27643	272.5	Cyclohexane	6/4/2008	2600
54-27643	272.5	Dichlorodifluoromethane	12/21/2007	2700
54-27643	272.5	Dichlorodifluoromethane	6/4/2008	1900
54-27643	272.5	DCA	12/21/2007	2100
54-27643	272.5	DCA	6/4/2008	1800
54-27643	272.5	DCA	4/7/2008	2300
54-27643	272.5	Dichloroethane[1,2-]	4/7/2008	340
54-27643	272.5	Dichloroethane[1,2-]	6/4/2008	300
54-27643	272.5	Dichloroethane[1,2-]	12/21/2007	490
54-27643	272.5	DCE	12/21/2007	88,000
54-27643	272.5	DCE	6/4/2008	59,000
54-27643	272.5	Dichloropropane[1,2-]	12/21/2007	2400
54-27643	272.5	Dichloropropane[1,2-]	6/4/2008	1900
54-27643	272.5	Dichloropropane[1,2-]	4/7/2008	2300
54-27643	272.5	Ethyltoluene[4-]	6/4/2008	600
54-27643	272.5	Hexane	12/21/2007	2200
54-27643	272.5	Hexane	6/4/2008	1500
54-27643	272.5	Methylene Chloride	4/7/2008	17,000
54-27643	272.5	Methylene Chloride	12/21/2007	22,000
54-27643	272.5	Methylene Chloride	6/4/2008	17,000
54-27643	272.5	PCE	6/4/2008	8200
54-27643	272.5	PCE	4/7/2008	8200
54-27643	272.5	PCE	12/21/2007	11,000
54-27643	272.5	Toluene	6/4/2008	2500
54-27643	272.5	Toluene	12/21/2007	4600
54-27643	272.5	Toluene	4/7/2008	2800
54-27643	272.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/4/2008	90,000
54-27643	272.5	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	96,000
54-27643	272.5	TCA	6/4/2008	170,000
54-27643	272.5	TCA	12/21/2007	190,000
54-27643	272.5	TCE	12/21/2007	99,000
54-27643	272.5	TCE	6/4/2008	75,000
54-27643	272.5	Freon-11	6/4/2008	11,000
54-27643	272.5	Freon-11	12/21/2007	17,000
54-27643	272.5	Trimethylbenzene[1,2,4-]	6/4/2008	650

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27643	272.5	Trimethylbenzene[1,3,5-]	6/4/2008	380
54-27643	275	Benzene	8/12/2008	1500
54-27643	275	Carbon Tetrachloride	8/12/2008	3200
54-27643	275	Chloroform	8/12/2008	8700
54-27643	275	Dichlorodifluoromethane	8/12/2008	1900
54-27643	275	DCA	8/12/2008	2100
54-27643	275	DCE	8/12/2008	39,000
54-27643	275	Dichloropropane[1,2-]	8/12/2008	2000
54-27643	275	Hexane	8/12/2008	1900
54-27643	275	Methylene Chloride	8/12/2008	22,000
54-27643	275	PCE	8/12/2008	8800
54-27643	275	Toluene	8/12/2008	4300
54-27643	275	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/12/2008	130,000
54-27643	275	TCA	8/12/2008	250,000
54-27643	275	TCE	8/12/2008	86,000
54-27643	275	Freon-11	8/12/2008	14,000
54-27643	351	Benzene	12/21/2007	480
54-27643	351	Benzene	6/4/2008	390
54-27643	351	Carbon Tetrachloride	6/4/2008	1200
54-27643	351	Carbon Tetrachloride	12/21/2007	1800
54-27643	351	Chloroform	12/21/2007	1400
54-27643	351	Chloroform	6/4/2008	1000
54-27643	351	Cyclohexane	6/4/2008	860
54-27643	351	Dichlorodifluoromethane	12/21/2007	1500
54-27643	351	Dichlorodifluoromethane	6/4/2008	1000
54-27643	351	DCA	12/21/2007	320
54-27643	351	DCA	6/4/2008	280
54-27643	351	DCE	12/21/2007	21,000
54-27643	351	DCE	6/4/2008	16,000
54-27643	351	Dichloropropane[1,2-]	12/21/2007	87
54-27643	351	Dichloropropane[1,2-]	6/4/2008	74
54-27643	351	Hexane	6/4/2008	920
54-27643	351	Hexane	12/21/2007	1200
54-27643	351	Methylene Chloride	6/4/2008	1700
54-27643	351	Methylene Chloride	12/21/2007	2200
54-27643	351	PCE	12/21/2007	2700
54-27643	351	PCE	6/4/2008	2200

Table 5.1-1 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analyte	Collection Date	SUMMA TO-15 Result (µg/m^3)
54-27643	351	Toluene	12/21/2007	530
54-27643	351	Toluene	6/4/2008	420
54-27643	351	Trichloro-1,2,2-trifluoroethane[1,1,2-]	6/4/2008	34,000
54-27643	351	Trichloro-1,2,2-trifluoroethane[1,1,2-]	12/21/2007	34,000
54-27643	351	TCA	12/21/2007	62,000
54-27643	351	TCA	6/4/2008	52,000
54-27643	351	TCE	12/21/2007	25,000
54-27643	351	TCE	6/4/2008	20,000
54-27643	351	Freon-11	12/21/2007	5400
54-27643	351	Freon-11	6/4/2008	3800
54-27643	354	Benzene	8/12/2008	300
54-27643	354	Carbon Tetrachloride	8/12/2008	960
54-27643	354	Chloroform	8/12/2008	1200
54-27643	354	Dichlorodifluoromethane	8/12/2008	660
54-27643	354	DCA	8/12/2008	440
54-27643	354	Dichloroethane[1,2-]	8/12/2008	300
54-27643	354	DCE	8/12/2008	12,000
54-27643	354	Dichloropropane[1,2-]	8/12/2008	930
54-27643	354	Hexane	8/12/2008	580
54-27643	354	Methylene Chloride	8/12/2008	1600
54-27643	354	PCE	8/12/2008	1700
54-27643	354	Tetrahydrofuran	8/12/2008	540
54-27643	354	Toluene	8/12/2008	380
54-27643	354	Trichloro-1,2,2-trifluoroethane[1,1,2-]	8/12/2008	30,000
54-27643	354	TCA	8/12/2008	54,000
54-27643	354	TCE	8/12/2008	17,000
54-27643	354	Freon-11	8/12/2008	3300

* Data qualifiers are defined in Appendix A.

Table 5.0-2
Tritium Pore-Gas Results at MDA L

Borehole ID	Sampling Port Depth (ft bgs)	Analytical Result (pCi/L)	Collection Date
54-02001	40	4132.55	3/26/2008
54-02001	40	290.047	5/30/2008
54-02001	40	382.273	9/4/2008
54-02001	80	325.087	5/30/2008
54-02001	80	252.247	9/4/2008
54-02001	100	1302.22	3/26/2008
54-02001	120	1723.26	9/4/2008
54-02001	140	603.045	3/26/2008
54-02001	200	900.084	3/26/2008
54-02002	20	974.527	8/11/2008
54-02002	40	227.681	4/24/2008
54-02002	40	1134.07	6/18/2008
54-02002	100	246.634	4/24/2008
54-02002	100	2326.01	6/18/2008
54-02002	100	23831.6	8/11/2008
54-02002	120	144.783	4/24/2008
54-02002	120	1431.09	6/18/2008
54-02002	120	521.207	8/11/2008
54-02002	180	1080	6/18/2008
54-02002	180	1121.49	8/11/2008
54-02002	200	66.974	4/24/2008
54-02016	18	5765.62	8/22/2008
54-02016	31	639.503	5/19/2008
54-02016	31	15185.9	8/22/2008
54-02016	82	621.945	4/7/2008
54-02021	100	232.161	9/12/2008
54-02021	120	1552.49	9/12/2008
54-02021	140	296.543	9/12/2008
54-02021	198	627.557	3/28/2008
54-02022	40	871.445	3/26/2008
54-02022	100	10020.6	3/26/2008
54-02022	120	6492.63	3/26/2008
54-02022	200	8614.2	3/26/2008
54-02023	40	320.643	8/15/2008
54-02023	100	316.607	6/24/2008
54-02023	100	204.985	8/15/2008
54-02023	159	261.992	6/24/2008

Table 5.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analytical Result (pCi/L)	Collection Date
54-02023	159	230.408	8/15/2008
54-02024	40	1067.43	4/17/2008
54-02024	40	405.96	6/16/2008
54-02024	40	1522.07	8/6/2008
54-02024	100	736.998	4/17/2008
54-02024	100	394.561	6/16/2008
54-02024	100	459.885	8/6/2008
54-02024	120	2421.45	4/17/2008
54-02024	120	1645.87	6/16/2008
54-02024	140	454.543	8/6/2008
54-02024	160	248.321	8/6/2008
54-02024	200	828.911	4/17/2008
54-02025	20	232.296	6/12/2008
54-02025	100	302.871	4/25/2008
54-02025	160	15130.1	6/12/2008
54-02025	190	297.279	4/25/2008
54-02026	20	227.429	4/18/2008
54-02026	20	325.028	6/20/2008
54-02026	20	300.147	8/7/2008
54-02026	100	222.977	6/20/2008
54-02026	160	248.585	6/20/2008
54-02026	160	211.157	8/7/2008
54-02027	20	1185.83	5/1/2008
54-02027	20	211.724	6/17/2008
54-02028	20	216.755	4/21/2008
54-02028	20	275.147	6/23/2008
54-02028	160	249.16	6/23/2008
54-02031	100	576.48	5/2/2008
54-02089	28.5	5045.93	4/10/2008
54-02089	28.5	1352.85	5/21/2008
54-02089	31	2387.86	8/25/2008
54-02089	43.5	1377.97	5/21/2008
54-02089	46	1344.95	8/25/2008
54-02089	83.5	12550.9	4/10/2008
54-24238	63	1612.08	5/19/2008
54-24238	64	3795.28	8/25/2008
54-24238	83	30560	4/9/2008
54-24239	24	523.42	4/2/2008

Table 5.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analytical Result (pCi/L)	Collection Date
54-24240	27	2479.97	4/2/2008
54-24240	28	320.492	8/29/2008
54-24240	52	378.636	5/16/2008
54-24240	102	828.975	4/1/2008
54-24240	152	1734.37	4/1/2008
54-24240	152	411.48	5/16/2008
54-24241	73	609.182	5/22/2008
54-24241	73	26514.1	9/17/2008
54-24241	92	1333.29	4/4/2008
54-24241	112	713.786	4/4/2008
54-24241	112	253.141	5/22/2008
54-24241	113	26665	9/17/2008
54-24241	133	79224.2	9/17/2008
54-24241	192	1416.14	4/4/2008
54-24242	109.5	545.82	4/3/2008
54-24242	24	626.759	5/28/2008
54-24242	50	254.775	8/27/2008
54-24243	24	678.684	4/23/2008
54-24243	24	3278.32	6/19/2008
54-24243	25	3373.07	8/8/2008
54-24243	74	542010	6/19/2008
54-24243	75	528338	8/8/2008
54-24243	99	64727.5	4/23/2008
54-24243	124	5560.36	4/23/2008
54-24243	124	36143.4	6/19/2008
54-24243	125	49659.3	8/8/2008
54-27641	30	3773.28	12/19/2007
54-27641	30	1033.9	4/1/2008
54-27641	30	530.666	5/16/2008
54-27641	32	527.893	8/28/2008
54-27641	80	906.295	12/19/2007
54-27641	80	6436.52	4/1/2008
54-27641	82	254.85	8/28/2008
54-27641	110	1754.44	12/19/2007
54-27641	110	901.566	5/16/2008
54-27641	115	4546.47	4/1/2008
54-27641	115	1898.03	8/28/2008
54-27641	182	358.407	8/28/2008

Table 5.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analytical Result (pCi/L)	Collection Date
54-27641	230	6527.27	12/19/2007
54-27641	269	172893	12/19/2007
54-27641	271	414.259	8/28/2008
54-27641	330	11545.2	12/19/2007
54-27641	330	1609.49	4/1/2008
54-27642	27.5	11415.2	12/21/2007
54-27642	27.5	506.88	4/8/2008
54-27642	30	744.403	8/22/2008
54-27642	72.5	2872.2	4/8/2008
54-27642	72.5	2603.18	5/20/2008
54-27642	113.5	2562.98	12/21/2007
54-27642	113.5	8314.39	4/8/2008
54-27642	113.5	5560.34	5/20/2008
54-27642	116	327.728	8/22/2008
54-27642	172.5	339.66	5/20/2008
54-27642	175	1225.4	5/2/2008
54-27642	175	1464.38	8/22/2008
54-27642	232	12278.2	12/21/2007
54-27642	232	825.183	4/8/2008
54-27642	272	13496.6	12/21/2007
54-27642	272	450.597	4/8/2008
54-27642	275	282.33	8/22/2008
54-27642	335	1382.13	12/21/2007
54-27642	338	404.74	8/22/2008
54-27643	27.5	1371.73	12/20/2007
54-27643	27.5	372.649	6/9/2008
54-27643	71.5	2677.47	12/20/2007
54-27643	71.5	418.113	4/11/2008
54-27643	71.5	533.487	6/9/2008
54-27643	74	335.198	8/12/2008
54-27643	114.5	623	12/20/2007
54-27643	114.5	985.217	4/11/2008
54-27643	114.5	697.983	6/9/2008
54-27643	117	425.247	8/12/2008
54-27643	164	293.028	6/9/2008

Table 5.0-2 (continued)

Borehole ID	Sampling Port Depth (ft bgs)	Analytical Result (pCi/L)	Collection Date
54-27643	232.5	2776.15	12/20/2007
54-27643	232.5	750.247	4/11/2008
54-27643	272.5	1577.05	12/20/2007
54-27643	272.5	260.009	6/9/2008
54-27643	351	1861.13	12/20/2007

Table 5.2-1
Screening of VOCs Detected in Pore Gas at MDA L

Analyte	Maximum Concentration (µg/m^3)	Henry's Constant (dimensionless)	Screening Level (µg/L)	Screening Value (unitless)[a]
Benzene	4300	0.22755	5[b]	3.78
Carbon Tetrachloride	23,000	1.2464	5[b]	3.69
Chloroform	55,000	0.15	100[c]	3.66
DCA	100,000	0.23	25[c]	17.4
Dichloroethane[1,2-]	460,000	0.0401	5[c]	2300
DCE	570,000	1.1	5[c]	103.6364
Dichloropropane[1,2-]	340,000	0.11	5[b]	620
Methylene Chloride	390,000	0.08979	5[b]	868
PCE	580,000	0.754	5[b]	153.8462
Tetrahydrofuran	25,000	0.002895	8.8[d]	981
TCA	3,500,000	0.705	60[c]	82.74232
TCE	950,000	0.422	5[b]	450.237

[a] See screening value equation 3.1.2.

[b] EPA MCL (40 Code of Federal Regulations 141.61).

[c] NMWQCC groundwater standard 920.6.2.3103 New Mexico Administrative Code.

[d] EPA regional tap water screening levels (http://www.epa.gov/region09/superfund/prg/pdf/composite_sl_table_run_12SEP2008.pdf).

Appendix A

Acronyms and Abbreviations, Metric Conversion Table, and Data Qualifier Definitions

A-1.0 ACRONYMS AND ABBREVIATIONS

%D	percent difference
%RSD	percent relative standard deviation
B&K	Brüel and Kræjer
bgs	below ground surface
CAS	Chemical Abstract Service
COC	chain of custody
DCA	1,1-dichloroethane
DCE	1,1-dichloroethene
DER	duplicate error ratio
EPA	Environmental Protection Agency (U.S.)
EQL	estimated quantitation limit
FD	field duplicate
Freon-11	trichlorofluoromethane
Freon-12	dichlorodifluoromethane
Freon-114	1,2-dichloro-1,1,2,2-tetrafluoroethane
FY	fiscal year
LANL	Los Alamos National Laboratory
LCS	laboratory control sample
MCL	maximum contaminant level
MDA	material disposal area
MS	matrix spike
NOD	notice of disapproval
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
PCE	tetrachloroethene
PID	photoionization detector
QA	quality assurance
QC	quality control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA facility investigation
RPD	relative percent difference
RPF	Records Processing Facility

SL	screening level
SOP	standard operating procedure
SV	screening value
SWMU	solid waste management unit
TA	technical area
TCA	1,1,1-trichloroethane
TCE	trichloroethene
TD	total depth
TPU	total propagated uncertainty
VOC	volatile organic compound

A-2.0 METRIC CONVERSION TABLE

Multiply SI (Metric) Unit	by	To Obtain U.S. Customary Unit
kilometers (km)	0.622	miles (mi)
kilometers (km)	3281	feet (ft)
meters (m)	3.281	feet (ft)
meters (m)	39.37	inches (in.)
centimeters (cm)	0.03281	feet (ft)
centimeters (cm)	0.394	inches (in.)
millimeters (mm)	0.0394	inches (in.)
micrometers or microns (µm)	0.0000394	inches (in.)
square kilometers (km^2)	0.3861	square miles (mi^2)
hectares (ha)	2.5	acres
square meters (m^2)	10.764	square feet (ft^2)
cubic meters (m^3)	35.31	cubic feet (ft^3)
kilograms (kg)	2.2046	pounds (lb)
grams (g)	0.0353	ounces (oz)
grams per cubic centimeter (g/cm^3)	62.422	pounds per cubic foot (lb/ft^3)
milligrams per kilogram (mg/kg)	1	parts per million (ppm)
micrograms per gram (µg/g)	1	parts per million (ppm)
liters (L)	0.26	gallons (gal.)
milligrams per liter (mg/L)	1	parts per million (ppm)
degrees Celsius (°C)	9/5 + 32	degrees Fahrenheit (°F)

A-3.0 DATA QUALIFIER DEFINITIONS

Data Qualifier	Definition
U	The analyte was analyzed for but not detected.
J	The analyte was positively identified, and the associated numerical value is estimated to be more uncertain than would normally be expected for that analysis.
J+	The analyte was positively identified, and the result is likely to be biased high.
J-	The analyte was positively identified, and the result is likely to be biased low.
UJ	The analyte was not positively identified in the sample, and the associated value is an estimate of the sample-specific detection or quantitation limit.
R	The data are rejected as a result of major problems with quality assurance/quality control parameters.

Appendix B

Quality Assurance/Quality Control Program

B-1.0 INTRODUCTION

This appendix discusses analytical methods and data quality review and summarizes the effects of data quality exceptions on the acceptability of the field and laboratory analytical data.

Quality assurance (QA), quality control (QC), and data validation procedures were implemented in accordance with the Los Alamos National Laboratory (LANL or the Laboratory) "Quality Assurance Project Plan Requirements for Sampling and Analysis" (LANL 1996, 054609) and the Laboratory's statement of work for analytical services (LANL 2000, 071233). The results of the QA/QC activities were used to estimate the accuracy, bias, and precision of the analytical measurements. QC samples, including method blanks, blank spikes, matrix spikes (MSs), laboratory control samples (LCSs), internal standards, initial and continuing calibrations, and surrogates, were used to assess laboratory accuracy and bias.

The type and frequency of QC analyses are described in the analytical services contract. Other QC factors, such as sample preservation and holding times, were also assessed. The requirements for sample preservation and holding times are given in the Environmental Programs Directorate Standard Operating Procedure (SOP) ER-ERSS-SOP-5056, Sample Containers and Preservation. Evaluating these QC indicators allows estimates to be made of the accuracy, bias, and precision of the analytical suites. A focused data validation was also performed for all the data packages (identified by request number) that included a more detailed review of the raw data results. The procedures used for data validation are given in Table B-1.0-1. Copies of the raw analytical data, laboratory logbooks, and instrument printouts are provided in data packages as part of Appendix C (on DVD).

Analytical data were reviewed and evaluated based on U.S. Environmental Protection Agency (EPA) National Functional Guidelines for inorganic and organic chemical data review where applicable (EPA 1994, 048639; EPA 1999, 066649). Data have also been assessed using guidelines established in SW-846 (EPA 1997, 057589). As a result of the data validation and assessment efforts, qualifiers have been assigned to each analytical record. Definitions for the data qualifiers used in data validation are given in Table B-1.0-2. Data validators and reviewers made judgments about the following industry-accepted QA/QC analytical quality functions.

B-1.1 Maintenance of Chain of Custody

To maintain chain of custody is to document or demonstrate the possession of an item by only authorized individuals. The chain-of-custody process, described in EP-ERSS-SOP-5058, Chain-of-Custody for Analytical Data Record Packages, provides confidence in and documentation of analytical data integrity by establishing the traceability of the sample from the time of collection through processing to final maintenance as a record.

B-1.2 Sample Documentation

Establishing sample documentation acceptability, described in EP-ERSS-SOP-5058, is the first step toward verifying an analytical system has produced data of known quality. Documentation depends on the accessibility of review items that accurately and completely describe the work performed. In the absence of adequate sample documentation, data quality cannot be independently verified.

B-1.3 Sample Preservation

Sample preservation is the use of specific types of sample containers and preservation techniques, as described in EP-ERSS-SOP-5056, Sample Containers and Preservation. Sample preservation is mandatory for hazardous site investigations because the integrity of any sample decreases over time. Physical factors (light, pressure, temperature, etc.), chemical factors (changes in pH, volatilization, etc.), and biological factors may alter the original quality of a sample. Because the various target parameters are uniquely altered at varying rates, distinct sample containers, preservation techniques, and holding times have been established to maintain sample integrity for a reasonable and acceptable period of time.

B-1.4 Holding Time

Holding time, the maximum amount of time a sample can be stored without unacceptable changes in analyte concentrations, is described in EP-ERSS-SOP-5056. Holding times apply under prescribed conditions; deviations from these conditions may affect the holding time. Extraction holding time refers to the time that elapses between sample collection and sample preparation; analytical holding time refers to the time that elapses between sample preparation and analysis.

B-1.5 Initial and Continuing Calibration Verification (Including Interference-Check Standards)

Calibration verification establishes a quantitative relationship between the response of the analytical procedure and the concentration of the target analyte. There are two aspects of calibration verification: initial and continuing. The initial calibration verifies the accuracy of the calibration curve as well as the individual calibration standards being used to perform the calibration. The continuing calibration ensures that the initial calibration is still holding and correct as the instrument is used to process samples. Interference-check samples are used to determine if a high concentration of a single analyte in a sample interferes with the accurate quantitation of other analytes.

B-1.6 Analyte Identification (Including Spectra Review and Thermal Ionization Cavity Review)

Analyte identification is the process of associating an instrument signal with a compound or analyte of interest. Evaluation of signal retention times, spectral overlap, multipeak pattern matching, and mass spectral library searches are tools for making analyte identification determinations.

B-1.7 Analyte Quantitation

Analyte quantitation is the association of an instrument signal with a concentration and the determination that a recorded signal is detected or not detected. Detection limits, instrument calibration linear ranges, internal standards, and carrier recoveries are tools for making analyte quantitation evaluations.

Organic and inorganic chemical results are considered to be not detected if reported results are less than or equal to the method detection limit adjusted by sample-specific dilution or concentration factors.

Radionuclide results reported at less than the minimum detectable activity are not detected (U). Each radiochemical result is also compared with the corresponding 1-sigma total propagated uncertainty (TPU). If the result is not greater than 3 times the TPU, it is also qualified as not detected (U).

B-1.8 Method Blank

A method blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as those used in the environmental sample processing and which is extracted and analyzed in the same manner as the corresponding environmental samples. Method blanks are used to assess the potential for sample contamination during extraction and analysis. All target analytes should be below the contract-required detection limit in the method blank (LANL 2000, 071233).

B-1.9 MS Recoveries

An MS is an aliquot of a sample spiked with a known concentration of the target analyte(s). MS samples are used to measure the ability to recover prescribed analytes from a native sample matrix. Spiking typically occurs before sample preparation and analysis. Acceptable percentage recoveries for MSs vary by method but should generally be greater than 10% for an analytical result to be usable (LANL 2000, 071233).

B-1.10 Surrogate and Tracer Recoveries

A surrogate (an organic chemical compound) and a tracer (a radiochemical isotope) are similar in composition and behavior to target analytes but are not typically found in environmental samples. Surrogates and tracers are added to every blank, sample, and spike to evaluate the efficiency with which target analytes are recovered during extraction and analysis. The recovery percentages of the surrogates and tracers vary by method but should generally be greater than 10% for an analytical result to be usable (LANL 2000, 071233).

B-1.11 Internal Standard Responses and Carrier Recoveries

Internal standards and carriers are chemical compounds that are added to blank, sample, and standard extracts at known concentrations. They are used to compensate for (1) analyte concentration changes that might occur during storage of the extract and (2) quantitation variations that can occur during analysis. Internal standard responses and carrier recoveries are used to adjust the reported concentrations for the quantitation of target analytes. The response factors for internal standards vary by method but should generally be within the range of $\geq$50% to $\leq$200%. The recoveries for carriers vary by method but should generally be greater than 10% for an analytical result to be usable (LANL 2000, 071233).

B-1.12 LCS Recoveries

An LCS is a known matrix that has been spiked with compound(s) that are representative of the target analytes. The LCS is used to document laboratory performance. The acceptance criteria for LCSs are method-specific but should generally be greater than 10% for an analytical result to be usable (LANL 2000, 071233).

B-1.13 Laboratory and Field Duplicates (Including Serial Dilutions)

Laboratory duplicates are two portions of a sample taken from the same sample container (prepared for analysis and analyzed independently but under identical conditions) that are used to assess or demonstrate acceptable laboratory-method precision at the time of analysis. Each duplicate sample is equally representative of the original material. Duplicate analyses are also performed to generate data and to determine the long-term precision of an analytical method on various matrices. All relative percent

differences (RPDs) between samples and field duplicates (FDs) should be ±35% (LANL 2000, 071233). The RPD is defined by the equation RPD = [|D1 – D2| / (D1 + D2)] × 100%, where D1 and D2 represent analytical measurements on duplicate samples.

For radionuclides, the duplicate error ratio (DER) may also be used to quantify precision. The DER is defined by the equation DER = |S–D| / sqrt($2\sigma S^2 + 2\sigma D^2$), where S represents the original sample value, D represents the duplicate value, and 2σS and 2σD represent the 2-sigma uncertainties surrounding the original and duplicate samples, respectively. A DER below 3 indicates sample-to-FD precision that is in control.

FDs are independent samples collected as closely as possible at the same point in space and time. They are two separate samples taken from the same source, stored in separate containers, and analyzed independently.

Serial dilution checks are performed for certain inorganic analyses to determine if dilutions have been prepared correctly and to identify any effects that may arise from characteristics of the sample matrix.

B-1.14 Field Blanks and Equipment Blanks

Field blank—a sample of analyte-free medium that is taken to the sampling site and exposed to the atmosphere during sample-collection activities. Field blanks are used to measure contamination introduced during sample collection.

Equipment blank—a sample of analyte medium that has been used to verify calibration of the sampling equipment. It is collected after completion of decontamination and before sampling.

B-2.0 LABORATORY ANALYSIS SUMMARY

During fiscal year (FY) 2008, 211 volatile organic compound (VOC) pore-gas samples, 8 field blank samples, and 16 FD samples were collected at Solid Waste Management Unit (SWMU) 54-006. Additionally, 267 tritium samples and 20 FD samples were collected. Analysis of pore gas was conducted for VOCs using EPA Method TO-15 and for tritium using EPA Method 906.0 (Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA/600/4-80-032). All QC procedures were followed as required by the analytical services contract. Table B-2.0-1 lists the analytical method used for organic chemical and radionuclide analyses.

Sample locations, sample ports, and validated analytical results are presented in Appendix C of the report. The data, including the qualified data, are usable for evaluation purposes. The entire data set meets the standards for use in this report.

The analytical methods used for tritium and VOCs are summarized in the following sections. The required minimum detectable activity or estimated quantitation limit (EQL) is prescribed in the analytical services contract.

B-3.0 ORGANIC CHEMICAL ANALYSES

Eighteen samples analyzed for chloromethane using EPA Method TO-15 were rejected and qualified as R because the analyte was analyzed with a relative response factor of <0.05 in the initial calibration.

B-3.1 Maintenance of Chain of Custody

Chain of custody was properly maintained for all samples.

B-3.2 Sample Documentation

All samples were properly documented in the field.

B-3.3 Sample Preservation

No sample preservation is required for VOCs.

B-3.4 Holding Time

The holding times were met for all samples.

B-3.5 Initial and Continuing Calibration Verification

One result was not analyzed with a valid 5-point calibration curve. The affected record was qualified as estimated (UJ).

Analyses of 312 organic chemical records were performed with an initial calibration curve that exceeded the percent relative standard deviation (%RSD) criteria and/or the associated multipoint calibration correlation coefficient. Affected records were qualified as estimated (UJ) of their sample-specific quantitation limit or detection limit.

Initial or continuing calibration differences (percent difference [%D]) were recovered outside the method-specific limits affecting EPA Method TO-15 analyses of 318 organic chemical records. Affected records were qualified as estimated (J) and (UJ) of their sample-specific quantitation limit or detection limit.

B-3.6 Analyte Identification (Including Internal Standards, and Spectra Review)

Analyte identification criteria were met for all but 23 sample analyses. The mass spectrum did not meet method specifications and associated records were qualified as not detected (U).

B-3.7 Method BlankFreon-114

Method blank results were within acceptable limits.

B-3.8 Surrogate Recoveries

All surrogate recoveries were within acceptable limits.

B-3.9 Internal Standard Responses

All internal standard responses were within acceptable limits.

B-3.10 LCS Recoveries

The LCS recoveries were within acceptable limits for all but three results. The LCS recoveries were greater than the upper acceptance limit, affecting three results. Affected records were qualified as estimated not detected (UJ). The LCS recoveries were less than the lower acceptance limit but greater than 10%, affecting three results. Each of the affected detected records was qualified as estimated (UJ).

B-3.11 Laboratory and FDs

Most laboratory and FDs collected indicate acceptable precision. All laboratory and FD RPDs were less than 35%. During FY2008, FD precision was greater than 35% for five results at borehole location54-02001 at 140 ft bgs and at location 54-27642 at 27.5 ft bgs. The sample record potentially affected by larger-than-expected FD RPDs are listed in Table B-3.11-1. Sample results are not qualified based on FD precision.

B-3.12 Field Blanks and Equipment Blanks

Two field blanks and two performance evaluation samples collected on June 16, 2008, in relation to borehole location 54-24399 contained detected concentrations of trichlorobenzene[1,2,4-].

No sample records were affected by field blank contamination.

Thirty-two results were ≤5 times the concentration of the related analyte in the equipment blank and were qualified as not detected (U).

B-4.0 RADIONUCLIDE ANALYSES

No tritium results were rejected.

B-4.1 Maintenance of Chain of Custody

Chain of custody was properly maintained for all samples.

B-4.2 Sample Documentation and Dilutions

Samples were properly documented in the field.

B-4.3 Sample Preservation

No sample preservation is required for tritium.

B-4.4 Holding Times

The holding times were met for all tritium analyses.

B-4.5 Initial and Continuing Calibration Verification

Initial and continuing calibrations are acceptable for all tritium analyses.

B-4.6 Analyte Identification

Analyte identification criteria were met for all tritium analyses.

B-4.7 Analyte Quantitation

Analyte quantitation criteria were met for all tritium analyses.

B-4.8 Method Blanks

Method blank results were within acceptable limits for all but three sample results. The results are qualified as not detected (U) because the concentration in the method blank was less than 5 times the concentration in the sample.

B-4.9 LCS Recoveries

The LCS recoveries were within acceptable limits for all tritium analyses.

B-4.10 Laboratory and Field Duplicates

Laboratory duplicate analyses indicate acceptable precision for all tritium analyses. Twenty FDs were collected during FY2008. All but one of the duplicate analyses had DERs below 3. One detected tritium and associated FD result had a DER greater than 3. The sample record potentially affected by larger-than-expected FD DER is listed in Table B-4.10-1. Sampling results are not qualified based on FD precision.

B-5.0 FIELD-MONITORING SUMMARY

Field-monitoring data are less costly to generate than laboratory data and are immediately available to guide field decisions. Field-monitoring results are generated by rapid methods of analysis that provide less precision than laboratory analyses. Field-monitoring data provide analyte (or at least chemical class) identification and quantification, although the quantification may be relatively imprecise.

Field monitoring of subsurface vapor monitoring at MDA L is conducted using guidance provided in ER-ERSS-SOP-5074, Sampling of Subatmospheric Air. This procedure covers the use of the Brüel and Kræjer (B&K) Type 1302 multigas analyzer and the Landtec GEM 500 photoionization detector (PID).

The B&K is calibrated annually by a certified calibration laboratory. The B&K is adjusted before each day's use to compensate for ambient pressure and temperature. Calibration is confirmed before each day's use through the analysis of triplicate readings of ambient air and duplicate readings of known quantities of mixed organic analytes in nitrogen. These calibration verification check analyses confirm analytical stability, confirm that the instrument zero point for each analyte is correctly set, and confirm the stored calibration curve remains applicable to current instrument response to the presence of organic chemicals. Concentrations of calibration standards analyzed before each day's use are expected be within ±20% of their known values. Additionally, during each sample analysis, a low sample flow condition triggers an alarm on the B&K, and VOC measurement is then not completed.

The presence of nontarget organic chemicals bias B&K target analyte results if they have an acoustic response to infrared light similar to the target analyte. Trichlorofluoromethane (Freon-11) generates a measurable acoustic signal in response to light with a wavelength of 11.6 µm proportional to its

concentration. Other VOCs generating an acoustic signal to light at this wavelength include Freon-114 (Chemical Abstract Service [CAS] 76-14-2; 1,2-dichloro-1,1,2,2-tetrafluoroethane) and Freon-21 (CAS 75-43-4), neither of which is reported by EPA Method TO-15. Tetrachloroethene (PCE) generates an acoustic signal in response to light with a wavelength of 11.1 µm. Other VOCs responding to light at this wavelength include styrene (CAS 100-42-5) and Freon-113 (CAS 76-13-1), neither of which is reported by EPA Method TO-15; Freon-12 (CAS 75-71-8, dichlorodifluoromethane); ethanol (CAS 64-17-5); and 1,1-dichloroethene (DCE) (CAS 75-35-4). Results indicate that DCE and Freon-113 are present in most samples at MDA L at detected concentrations that would be included in the signal interpreted as PCE. Table B-5.0-1 presents VOCs that interfere with each of the four B&K target analytes.

Data generated using the B&K Type 1302 are supported by annual calibration records that bracket the periods of analyses. Calibration information is reported below for each of the two B&K Type 1302 photoacoustic analyzers used to generate results presented in this periodic monitoring report.

- The B&K with serial number 1692083 was calibrated on July 3, 2007. The zero point was set for 1,1,1-trichloroethane (TCA), trichloroethene (TCE), Freon-11, PCE, carbon dioxide (CO_2), and water (H_2O). Span concentrations of TCA at 61.4 ppm, TCE at 8.1 ppm, Freon-11 at 53 ppm, PCE at 19.24 ppm, and CO_2 at 1265 ppm were used to generate calibration response curves.
- The B&K with serial number 1692083 was calibrated on May 12, 2008. The zero point was set for TCA, TCE, Freon-11, PCE, CO_2, and H_2O. Span concentrations of TCA at 13.5 ppm, TCE at 10.7 ppm, Freon-11 at 106 ppm, PCE at 31.5 ppm, and CO_2 at 1250 ppm were used to generate calibration response curves.
- The B&K with serial number 1732805 was calibrated on July 12, 2007. The zero point was set for TCA, TCE, Freon-11, PCE, CO_2, and H_2O. Span concentrations of TCA at 47.1 ppm, TCE at 49.7 ppm, Freon-11 at 53 ppm, PCE at 48.4 ppm, and CO_2 at 1265 ppm were used to generate calibration response curves.
- The B&K with serial number 1732805 was calibrated on May 12, 2008. The zero point was set for TCA, TCE, Freon-11, PCE, CO_2, and H_2O. Span concentrations of TCA at 13.1 ppm, TCE at 10.7 ppm, Freon-11 at 106 ppm, PCE at 31.5 ppm, and CO_2 at 1250 ppm were used to generate calibration response curves.

The Landtec GEM 500 PID is calibrated annually by a certified calibration laboratory. During calibration, methane (CH_4), oxygen (O_2), and CO_2 zero points are set, and each analyte's calibration response curve is developed. The CH_4 reading is filtered to an infrared absorption frequency of 3.41 mm (nominal), the frequency specific to hydrocarbon bonds. Landtec instruments are calibrated using certified CH_4 mixtures and will give correct readings, provided no other hydrocarbon gases are present within the sample (e.g., ethane, propane, and butane). If other hydrocarbons are present, the CH_4 reading will be higher (never lower) than the actual CH_4 concentration being monitored. The extent to which the CH_4 reading is affected depends upon the concentration of the CH_4 in the sample and the concentration of the other hydrocarbons. The effect of other hydrocarbons is nonlinear and difficult to predict. The CO_2 reading is filtered to an infrared absorption frequency of 4.29 µm (nominal), the frequency specific to CO_2. Therefore, any other gases usually found on landfill sites will not affect the CO_2 reading. The O_2 sensor is a galvanic cell type and suffers no influence from CO_2, hydrogen sulfide, nitrate, sulfide, or hydrogen.

Calibration is confirmed before each day's use through the analysis of multiple readings of ambient air. Zero readings of CH_4 and CO_2 are expected. O_2 is expected to read 20.9%. O_2 readings within ± 25% of 20.9% are considered acceptable.

Data generated using the Landtec GEM-500 PID are supported by annual calibration records that bracket the periods of analyses. Calibration is performed by Geotech's Colorado Service Center in Denver, Colorado. Calibration information is reported below for the four Landtec PIDs used to generate results presented in this periodic monitoring report.

- Unit 1138 was calibrated on December 7, 2007. The zero point was set for CH_4, CO_2, and O_2. Calibration was performed so that CH_4 and CO_2 reached ±15% of a known concentration, and O_2 was set to read ambient air at 20.9%. Pump flow was confirmed to be 525 cc/min.
- Unit 1062 was calibrated on December 6, 2007. The zero point was set for CH_4, CO_2, and O_2. Calibration was performed so that CH_4 and CO_2 reached ±15% of a known concentration, and O_2 was set to read ambient air at 20.9%. Pump flow was confirmed to be 500 cc/min.
- Unit 915 was calibrated on October 3, 2007. The zero point was set for CH_4, CO_2, and O_2. Calibration was performed so that CH_4 and $CO2_2$ reached ±15% of a known concentration, and O_2 was set to read ambient air at 20.9%. Pump flow was confirmed to be 500 cc/min.
- Unit 1139 was calibrated on March 18, 2008. The zero point was set for CH_4, CO_2, and O_2. Calibration was performed so that CH_4 and CO_2 reached ±15% of a known concentration, and O_2 was set to read ambient air at 20.9%. Pump flow was confirmed to be 500 cc/min.
- Unit 903 was calibrated on March 18, 2008. The zero point was set for CH_4, CO_2, and O_2. Calibration was performed so that CH_4 and CO_2 reached ±15% of a known concentration, and O_2 was set to read ambient air at 20.9%. Pump flow was confirmed to be 500 cc/min.
- Unit 1139 was calibrated on May 13, 2008. The zero point was set for CH_4, CO_2, and O_2. Calibration was performed so that CH_4 and CO_2 reached ±15% of a known concentration, and O_2 was set to read ambient air at 20.9%. Pump flow was confirmed to be 475 cc/min.
- Unit 279 was calibrated on June 3, 2008. The zero point was set for CH_4, CO_2, and O_2. Calibration was performed so that CH_4 and CO_2 reached ±15% of a known concentration, and O_2 was set to read ambient air at 20.9%. Pump flow was confirmed to be 600 cc/min.

B-6.0 REFERENCES

The following list includes all documents cited in this appendix. Parenthetical information following each reference provides the author(s), publication date, and ER ID. This information is also included in text citations. ER IDs are assigned by the Environmental Programs Directorate's Records Processing Facility (RPF) and are used to locate the document at the RPF and, where applicable, in the master reference set.

Copies of the master reference set are maintained at the NMED Hazardous Waste Bureau and the Directorate. The set was developed to ensure that the administrative authority has all material needed to review this document, and it is updated with every document submitted to the administrative authority. Documents previously submitted to the administrative authority are not included.

EPA (U.S. Environmental Protection Agency), February 1994. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," EPA-540/R-94/013, Office of Emergency and Remedial Response, Washington, D.C. (EPA 1994, 048639)

EPA (U.S. Environmental Protection Agency), 1997. "Test Methods for Evaluating Solid Waste, Laboratory Manual, Physical/Chemical Methods," SW-846, 3rd ed., Update III, Office of Solid Waste and Emergency Response, Washington, D.C. (EPA 1997, 057589)

EPA (U.S. Environmental Protection Agency), October 1999. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," EPA540/R-99/008, Office of Emergency and Remedial Response, Washington, D.C. (EPA 1999, 066649)

LANL (Los Alamos National Laboratory), March 1996. "Quality Assurance Project Plan Requirements for Sampling and Analysis," Los Alamos National Laboratory document LA-UR-96-441, Los Alamos, New Mexico. (LANL 1996, 054609)

LANL (Los Alamos National Laboratory), December 2000. "University of California, Los Alamos National Laboratory (LANL), I8980SOW0-8S, Statement of Work for Analytical Laboratories," Rev. 1, Los Alamos National Laboratory, Los Alamos, New Mexico. (LANL 2000, 071233)

Table B-1.0-1
Data Validation Procedures

Procedure	Title	Effective Date
SOP-1561, Rev. 0	Routine Validation of Volatile Organic Compound (VOC) Analytical Data	6/10/2008
SOP-1566, Rev. 0	Routine Validation of Gamma Spectroscopy, Chemical Separation Alpha Spectrometry, Gas Proportional Counting, and Liquid Scintillation Analytical Data	6/30/2008

Table B-1.0-2
Definition of Data Qualifiers Used in Data Validation

Qualifier	Explanation
U	The analyte was analyzed for but not detected. Reported value is the sample-specific EQL or detection limit.
J	The reported value should be regarded as estimated.
J+	The reported value should be regarded as estimated and biased high.
J-	The reported value should be regarded as estimated and biased low.
UJ	The analyte was analyzed for but not detected. Reported value is an estimate of the sample-specific quantitation limit or detection limit.
R	The sample results were rejected because of serious deficiencies in the ability to analyze the sample and meet QC criteria; presence or absence cannot be verified.

Table B-2.0-1
Analytical Methods Used for Sample Analyses

Analytical Method	Analytical Description	Target Compound List
EPA Method TO-15 Sampling and Analysis	VOCs in air	See analytical services statement of work (LANL 2000, 071233)
EPA Method 906.0	Tritium analysis	See analytical services statement of work (LANL 2000, 071233)

Table B-3.11-1
Sample Records with Field Duplicate RPD above 35%

Location ID	Depth (ft)	Analyte	FD Result (µg/m^3)	FD Quant Limit (µg/m^3)	Sample Result (µg/m^3)	Std Quant Limit (µg/m^3)	RPD
54-02001	140	DCE	47000	1700	11000	1700	62.07%
54-02001	140	Propanol[2-]	5700	4300	13000	4300	39.04%
54-27642	27.5 to 32.5	Dichloroethane[1,2-]	33000	7100	10000	7100	53.49%
54-27642	27.5 to 32.5	Toluene	24000	6600	8300	6600	48.61%
54-27642	27.5 to 32.5	Trichlorofluoromethane	39000	9800	14000	9800	47.17%

Table B-4.10-1
Sample Record with Field Duplicate DER above 3

Location ID	Depth (ft)	Analyte	FD Uncertainty (pCi/L)	FD Result (pCi/L)	Std Uncertainty (pCi/L)	Sample Result (pCi/L)	DER
54-02002	180	Tritium	21.324	973.484	89.982	1121.49	5.2

Table B-5.0-1
B&K Target Analytes
and Potential Interfering Analytes

Target	Potential Interfering Analyte
PCE	Styrene
PCE	Freon-113
PCE	Freon-12
PCE	DCE
PCE	Ethylene oxide
PCE	Ethanol
PCE	Dipropylnitrosamine
PCE	1,1-Dimethylhydrazine
PCE	1,4-Diethylene dioxide
PCE	Cyclohexene
PCE	tert-Butyl alcohol
PCE	m-Vinyltoluene
PCE	Vinyl chloride
PCE	Tetrahydrofurane
PCE	Silicium tetrafluoride
PCE	Nitromethane
PCE	Nitrogen trifluoride
PCE	α-Methylstyrene
PCE	Monomethyl hydrazine
PCE	Methyl iodide
PCE	n-Hexane
PCE	Acetic anhydride
PCE	1,3-Butadiene
Freon-11	Freon-114
Freon-11	Freon-21
Freon-11	Carbonyl sulphide
Freon-11	Methyl acetate
Freon-11	Chloropicrine
Freon-11	Cyclohexane

Table B-5.0-1 (continued)

Target	Potential Interfering Analyte
Freon-11	Dimethylnitrosamine
Freon-11	Epichlorohydrine
Freon-11	Ethane
Freon-11	Ethylene oxide
Freon-11	Ethyl formate
Freon-11	2-Nitropropane
Freon-11	Phosgene
Freon-11	Vinyl acetate
TCA	Fluorobenzene
TCA	Ethyl benzene
TCA	Dimethyl formamide
TCA	Dichloromethane
TCA	1,2-Dichloroethane
TCA	o-Dichlorobenzene
TCA	Dibutyl phthalate
TCA	Chloromethane
TCA	m-Xylene
TCA	1,1,2-Trichloroethane
TCA	o-Toluidine
TCA	Toluene
TCA	Phenol
TCA	Chlorobenzene
TCA	Carbon dioxide
TCA	Boron trifluoride
TCA	Aniline
TCA	Acetophenone
TCA	Hydrogen cyanide
TCA	n-Heptane
TCE	Arsine
TCE	Butanone
TCE	Freon-152
TCE	Diethyl ketone
TCE	Dinitrogendifluoride
TCE	2-Pentanone
TCE	2-Propanol
TCE	Sulfur hexafluoride
TCE	Vinyl chloride

Appendix C

Analytical Suites and Results and Analytical Reports
(on DVD included with this document)