



G
consulting
scientists and
engineers

MFG, INC.
A TETRA TECH COMPANY

800 Vinial Street, Building A
Pittsburgh, PA 15212-1528
412/321- 2278
Fax: 412/321- 2283

November 5, 2002

Mr. David Thaman
PPG Industries, Inc.
10800 South 13th Street
Oak Creek, Wisconsin 53154

**Subject: Results of Subsurface Assessment and Interim Remedial Activities
Xylene Spill Area
PPG Industries, Inc. Oak Creek, Wisconsin Facility**

Dear Mr. Thaman:

MFG is pleased to provide this Letter Report summarizing subsurface assessment and remedial action activities conducted at the PPG Oak Creek, Wisconsin facility from June through August, 2002. The activities were conducted to address a solvent spill that occurred adjacent to the new "RAX" Production Building in February 2002. The work conducted by MFG consisted of groundwater and soil sample acquisition through test boring and monitoring well installation, laboratory analysis of collected samples, and four Dual Phase Extraction (DPE) events conducted on installed monitoring wells for recovery of solvent, vapors, and impacted groundwater. These activities were proposed as an interim step prior to determining the need for a more comprehensive remedial action.

BACKGROUND INFORMATION

During February 2002, an on-site spill of solvent comprised of approximately 75% xylene and 25% naphtha occurred near the APA Laboratory and the New "RAX" Production Area. Approximately 1,500 gallons (11,250 pounds) of solvent was reportedly lost to soil adjacent to the origin of the spill. All visibly contaminated soil was removed and disposed immediately following the spill. Immediately upon discovery of the spill, an interim recovery well was installed by PPG into the backfill of the abandoned fire water line. This well has been pumping continuously in an effort to hydraulically contain the spill. The volume of water pumped varies depending on precipitation recharge but averages less than 2,000 gallons per day. Laboratory analysis of system influent indicates that concentrations in the recovered groundwater have ranged from 0.341 to 73.0 mg/l of xylene. Based on this data, the present emergency abatement groundwater recovery system is averaging recovery of less than 0.1 gallons per day of the spilled xylene/naphtha.

Based on the existing site data, the solvent was believed to have traveled below ground into the backfill surrounding nearby underground piping and building foundations. Underground piping in the area includes an active fire water line, an abandoned fire water line, an active storm water drain, and an abandoned storm water drain. The natural soil beneath the area is reportedly low permeability clay till. As a result, migration of the solvent is thought to be preferential within the relatively coarse backfill

material surrounding the underground piping and the building foundation. Based on discussions with PPG personnel, it was not known if the spill is limited to the piping backfill. The subsurface investigation was conducted to define the migration pathways of the spilled material.

SUBSURFACE INVESTIGATION METHODOLOGY

Seventeen Geoprobe™ soil borings were completed in the vicinity of the spill area to collect soil and groundwater samples around the RAX building area as shown in Figure 1. Boring logs for the Geoprobe™ borings are presented in Appendix A. Borings were advanced continuously on 4-foot vertical increments. Upon recovery of the soil sample, the sample was split into 2-foot intervals for volatile organic compound (VOC) screening utilizing a photoionization detector (PID). Soil samples were logged according to the Unified Soil Classification System (USCS), noting color, density, material type, moisture content and VOC screening results. Between each soil sample, the sampler tube was decontaminated using an Alconox™ Detergent wash and a potable water rinse.

A total of six monitoring wells were installed utilizing a rotary drill rig. Monitoring well locations are illustrated on figure 1. All monitoring wells were installed by advancing 8.25" inside diameter (ID) hollow stem augers to the target depth. At each borehole location, a 4" ID, schedule 40 PVC monitoring well was installed. The wells were constructed such that the well screens were in communication with the water table surface to facilitate detection of light non-aqueous phase liquid (LNAPL), if present. Approximately 2-3 feet of the well screen was installed above the water table to allow for anticipated seasonal water level fluctuations. The well screens were 5 or 10 feet with a 0.010 slot size. A silica sand pack was tremied in the annular space to a level at least 0.5' to 2' above the top of the well screen. Following installation of the sand pack, a bentonite pellet seal was tremied into the borehole annulus and hydrated. Each bentonite seal was hydrated with potable water and permitted to settle for 3 hours prior to backfilling the remaining borehole annulus with a bentonite-cement grout. Monitoring wells were completed by installing flush, locking protective covers. A summary of monitoring well construction details is included as Table 1. Investigative Derived Waste (IDW) generated during drilling activities was accumulated in containers provided by PPG. Disposal of IDW was conducted by PPG.

Nine soil and nine groundwater samples were submitted for laboratory analysis. All samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B and total petroleum hydrocarbons (TPH) by EPA Method 8015. Laboratory analytical data collected and analyzed during the assessment are contained in Appendix B. Groundwater samples were not collected from MW-1 through MW-4 because these wells contained measurable NAPL on the groundwater surface.

RESULTS OF INVESTIGATION

The shallow subsurface geology within the spill area is primarily composed of silt and clay with occasional silty sand and sand seams to a depth of approximately 20 feet. Figures 2 and 3 are cross-sections depicting site subsurface conditions within the investigation area. In the vicinity of underground utility lines (fire line, storm sewers, etc.) and adjacent to building foundations, zones of coarse backfill material were encountered. Borings GP-3 and GP-4 encountered highly permeable zones of fill materials utilized for backfill around the building foundation (GP-4) and beneath the concrete slab (GP-3).

Subsequent borings located around the "RAX" building that encountered highly permeable limestone gravel included, GP-8/MW-2, GP-9/MW-3 and GP-13/MW-4. Predictably, the highest vapor concentrations measured during field screening coincided with the gravel backfill layers.

West of the "RAX" Building, the natural silt and clay formation was replaced by a silty fine sand to coarse gravel to a depth of fourteen feet at borings GP-14 and GP-15. At monitoring well location MW-6, which was installed approximately 45 feet west of the southwest corner of the "RAX" building, silty clay was encountered to a depth of seven feet. A water-bearing sand layer was present beneath the shallow clay layer at this location. The saturated sand layer extended from a depth of approximately seven to eleven feet and was underlain by a sandy silty clay.

Groundwater was encountered within the shallow gravel backfill occurring adjacent to the "RAX" Building foundation and underground utility lines (fire line and storm sewer). This occurred at locations MW-1 through MW-4. To the west of the "RAX" Building, groundwater was encountered within a natural fine to coarse water bearing sand. Static water levels varied between 3.5 to 5.5 feet below ground level at the various locations. Based upon water level measurements taken prior to DPE events, groundwater exhibits a general westerly flow direction in the vicinity of the "RAX" Production Building, with the exception of MW-1. Monitoring well MW-1, which occurs furthest east of all monitoring wells, consistently exhibits a lower water level than the other three wells (MW-2, MW-3, and MW-4) installed adjacent to the building foundation. This well is closest to the interim recovery well and may be influenced by extraction from this location.

The wells located adjacent to the building foundation were installed at these location based upon elevated field screening readings and/or the presence of LNAPL. Accordingly, wells MW-1 through MW-4 exhibited LNAPL thickness ranging between 0.04 to 0.11 feet after installation and development.

Soil Sample Analytical Results

Soil samples from nine Geoprobe™ borings were submitted for VOC analysis by EPA Method 8260 B and for TPH-gasoline range organics. Figure 4 is a map depicting soil sample locations and analytical results. Soil samples submitted for analytical testing were based upon PID field screening. At each respective sampling location, the soil sample interval with the highest PID field screening result was submitted for analysis. Soil sample PPG-SS6-4055 was located in the immediate vicinity of the spill area. This sample exhibited a total xylene concentration of 35 mg/kg along with other associated VOCs.

To the northeast of GP-6, a soil sample from GP-7 (PPG-SS7-0608) detected 8 mg/kg of chlorobenzene and low levels of other VOCs. The detection of chlorobenzene appears unrelated to the xylene spill. This lone soil detection of chlorobenzene is not considered a concern due to the facts that this concentration does not warrant a direct contact hazard and because chlorobenzene does not have a Wisconsin Administrative Code (WAC) groundwater Enforcement Standard or Preventive Action Level (PAL). Also, the aqueous concentration of chlorobenzene at GP-7 was less than the federal Maximum Contaminant Level (see below). East and southeast of the spill area, VOC's were below detection limits at PPG-SS11-1214, PPG-SS17-1012 and PPG-SS12-1214.

South of the RAX Building, PPG-SS16-0204 exhibited a total xylene concentration of approximately 4.7 mg/kg along with lesser concentrations of other VOCs. As shown in figure 1, this soil sample was taken from a zone of reworked fill material in backfill surrounding the storm sewer.

West of the RAX Building, three soil samples were analyzed: PPG-SS14-0810, PPG-SS15-0810 and PPG-SSMW-6-0708. VOCs were below detection limits at PPG-SS150810 and PPG-SSMW-6-0708. Low concentrations of VOCs (total xylene less than 1 mg/kg) were detected in soil at PPG-SS14-0810 adjacent to MW-4. TPH-GRO was below detection limits at all three sample locations.

Groundwater Sample Analytical Results

Nine groundwater samples were collected from Geoprobe™ borings and monitoring wells installed at the site. Groundwater samples were not collected from monitoring wells MW-1 through MW-4 due to LNAPL accumulation in these wells. Groundwater samples obtained from Geoprobe™ borings were obtained following installation of temporary 1.25" diameter wells.

Figure 5 presents a summary of groundwater analytical data for VOCs and TPH-GRO in the investigation area. Within the spill area, groundwater samples from GP-6 and GP-7 contained the highest concentration of VOCs and TPH-GRO. Water from GP-6 and GP-7 exhibited total xylene concentrations of 28.1 mg/l and 4.9 mg/l, respectively. Other associated constituents detected at GP-6 and GP-7 include trimethylbenzenes and ethylbenzene. The total trimethylbenzene concentration was found to be 2.86 mg/l and 0.140 mg/l, at GP-6 and GP-7, respectively. The ethylbenzene concentration ranged from 4.2 mg/l at GP-6 to 0.840 mg/l at GP-7.

Additionally, the constituent chlorobenzene was detected at GP-7 at a concentration of 0.061mg/l. Chlorobenzene does not have a Wisconsin PAL. The federal maximum Contaminant Limit (MCL) for chlorobenzene is 0.100 mg/l. As stated previously, this constituent appears unrelated to the xylene spill.

Groundwater samples from east and southeast of the spill area at GP-5, GP-11 and GP-12 exhibited significantly lower xylene concentrations (0.008 to 0.069 mg/l) and associated VOCs.

Groundwater samples west of the "RAX" Building collected from GP-14, GP-15 and MW-5 exhibited total xylene concentrations ranging from 0.043 to 2.55 mg/l. The highest xylene concentration west of the Rax building occurred at MW-5, the most westerly location of all sample points. At this location, the total trimethylbenzene and ethylbenzene concentrations were 0.078 mg/l and 0.510 mg/l, respectively. This well is located adjacent to the fire line underground utility that runs eastward into the "Rax" Building.

The groundwater samples obtained from MW-6 south and west of the "RAX" Building revealed a total xylene concentration of approximately 0.001 mg/l. This location is away from the fire utility line and suggests that a preferential migration pathway may be present directly west of the RAX Building within the utility line backfill.

SUBSURFACE INVESTIGATION SUMMARY

The results of the subsurface investigation indicated that the majority of the spilled solvent migrated within the coarse backfill material associated with the "RAX" Production Building foundation. The migration of xylene was found to be westward, away from the interim recovery well location. This condition is based upon the fact that LNAPL was observed as far west as well MW-4, which is approximately 180 feet west of the spill area at the opposite end of the "RAX" Production building.

Additionally, dissolved phase xylene was detected at MW-5 at a concentration of 2.55 mg/l approximately 300 feet west of the spill area. The migration of dissolved phase xylene appears to be biased by the underground fire line that traverses west to east in this area. This is supported by the observed trace levels of xylene detected at MW-6, which also is on the west end of the "RAX" Building away from the underground fire line.

Conversely, the soil and water samples collected east of the "RAX" Production Building did not detect LNAPL or elevated concentrations of xylene at GP-5, GP-7, GP-11, GP-12, or GP-17. This data indicates that the interim recovery well is not centrally located within the spill area, and is unlikely to efficiently recover the remaining solvent.

DUAL-PHASE EXTRACTION (DPE) REMEDIATION EVENTS

MFG conducted four dual-phase extraction (DPE) events on July 2, 19, 26 and August 8, 2002 using a vacuum truck in an attempt to recover the xylene/naphtha solvent observed adjacent to the Rax production Building. These DPE events had several objectives: (1) remove available LNAPL; (2) volatilize and recover available adsorbed-phase hydrocarbons, (3) evaluate the effectiveness of further DPE events using a vacuum truck; and, (4) obtain field data necessary to design a semi-permanent DPE recovery system, if deemed necessary.

Site Activities

The DPE events were conducted on all of the monitoring wells exhibiting LNAPL, i.e., monitoring wells MW-1, MW-2, MW-3, and MW-4. The vacuum trucks were provided by Superior Services, a local contractor, and an MFG representative was on-site during the DPE events to record water levels, LNAPL level, amount of water and product recovered, vacuum readings, and to collect vapor samples. Recovered groundwater and LNAPL were pumped from the vacuum truck to a frac tank for on-site pre-treatment and disposal to the local publicly-owned treatment works (POTW).

The DPE procedure was to initially gauge all wells for water and LNAPL level. The well to be pumped was fitted with a sealed well cap and a drop tube was placed in the well and connected to the vacuum hose. The end of the drop tube was either placed below the static water level if total fluids (groundwater and LNAPL) were to be recovered or above the static water level if only vapor was to be recovered. The drop tube placement was usually changed during the course of the test if the well was not dewatered. The depth to water in the wells ranged from 4 to 6 feet below ground surface. The vacuum truck generally produced from 18 to 22 inches of mercury vacuum so it was able to easily lift the water from the wells through the drop tube. During the first event on July 2, 2002, vacuum was applied to the pumped well (MW-1) while vacuum readings were taken at the other wells (MW-2, MW-3, and MW-4). Because of the relatively long distances between the wells (more than 80 feet) and the permeable nature of the fill material, no vacuum effects were observed in the other wells. Water levels were also measured while pumping, and detectable water level changes were observed in monitoring well MW-4. Gauging data are provided in Table 2. The following table documents the wells on which DPE events were performed.

Well	July 2, 2002	July 19, 2002	July 26, 2002	August 8, 2002
MW-1	X	X		
MW-2	X		X	X
MW-3	X	X	X	X
MW-4	X			

The tests on each well lasted from 30 minutes to 3 hours depending on whether mostly liquids or vapor were being recovered.

The xylenc/naptha stream being recovered from the pumped well included all three phases (liquid, vapor, and dissolved in water) in a complex mixture, so measurement was performed at the vacuum truck. While the vacuum truck was pumping, the vapor phase amount was measured using photoionization detector (PID) readings along with air velocity measurements of the vapor exiting the vacuum pump. Because naptha is a complex mixture of many hydrocarbons, conversion of the PID readings to a mass of vapor was made assuming that the entire stream was xylene. Liquid phase measurement was made by determining the product thickness floating on the water in the vacuum truck after completion of the event. Dissolved-phase measurement was made by assuming that the produced groundwater in the vacuum truck was at saturation with xylene due to the phase-separated xylene on the water. The sum of the three phases over the pumping period was the total amount as xylene recovered. The total amount recovered during the course of the four DPE events was about 150 gallons. Table 3 contains the calculation of the amount as xylene recovered during each DPE event. The following table summarizes the total amount as xylene recovered from each well.

Well	July 2, 2002	July 19, 2002	July 26, 2002	August 8, 2002
MW-1	28.77	28.11	-	-
MW-2	4.63	-	25.35	10.75
MW-3	0.26	3.75	34.88	5.32
MW-4	7.86	-	-	-
Total	41.57	31.86	60.23	16.07

In addition to measuring the xylene recovered, MFG also collected vapor samples in the vacuum stream between the pumped well and the vacuum truck to assess the rate of vapor phase recovery from the subsurface. Vapor samples were analyzed by Microseeps, Inc. of Pittsburgh, PA for benzene, toluene, ethylbenzene, and xylenes (BTEX). The results reported in parts per million by volume (ppmv) were generally about 90% xylene, 10% ethylbenzene, trace amounts of toluene, and no detectable benzene. Table 3 contains a summary of the vapor analyses by total BTEX concentration. Appendix C contains laboratory analysis sheets for the vapor analysis. The vapor concentration in the stream varies with the amount of liquid being recovered. The general trend is that the vapor concentrations peak soon after the test begins and decline during the test as shown in the July 26, 2002 data in Table 3. Wells that produce significant amounts of water may not see the vapor concentration peak until the well is sufficiently dewatered to allow more vapor flow.

DPE Remediation Observations

1. When the DPE events were originally conceived, it was believed that the mass of xylene was located on the east side of the RAX building. Subsequent site assessment results indicate that the xylene migrated westward 180 feet to the western end of the "RAX" building at MW-4. The westward

movement of xylene is attributed to preferential migration through permeable gravel backfill trenches associated with underground utility lines. The LNAPL thickness measured in monitoring wells MW-1 through MW-4 was found to be relatively thin. This thinner layer of LNAPL will generally complicate remediation efforts relying upon groundwater pumping for hydraulic control and mass removal.

2. The wells tested in the pilot DPE events were located for site assessment purposes and are relatively far apart (more than 80 ft). The fill material in the shallow subsurface is very permeable (gravel) and there is likely significant channeling of subsurface airflow in the fill. The applied vacuum at each test well did not result in measurable vacuum at the observation wells.
3. LNAPL thicknesses in the tested wells have declined markedly from the start of the DPE events. However, rebound of LNAPL thickness may occur with time as more xylene desorbs from the fill material.
4. Approximately 150 gallons of the spilled solvent in all phases has been recovered in the DPE events. This volume represents a recovery rate of 5.8 gallons per hour of vacuum truck operation.
5. Monitoring wells MW-1 and MW-4 can produce abundant groundwater. Both of these wells are located adjacent to the underground fire line within gravel backfill. Based upon the data generated from vacuum testing, these two wells are obviously connected by this preferential pathway. On July 2, 2002 well MW-1 produced water at a rate over 9 gpm for about 3 hours, while well MW-4 produced at a rate of 19 gpm for about 1½ hours without dewatering. Hydraulic influence was observed between wells MW-1 and MW-4 while no such influence was observed at MW-2 and MW-3. While pumping well MW-1 on July 2, drawdown was measured in well MW-4 within 40 minutes of initiating pumping even though these wells are about 210 feet apart. No such drawdown was noted at closer wells MW-2 and MW-3 while pumping well MW-1.

INTERIM GROUNDWATER RECOVERY ACTIVITIES

Since March of 2002, PPG has conducted interim recovery activities of impacted water/ LNAPL at a recovery well location southeast of the spill area. PPG has estimated that 90 pounds of xylene has been recovered through their remediation efforts (soil excavation and groundwater extraction). Groundwater recovered from this well is containerized in an onsite frac tank until full, at which time the water is run through an oil/water separator and then an air stripper prior to discharge to the POTW. Prior to treatment, the water is sampled to determine xylene concentration. Figure 6 is a graph illustrating xylene concentration over time for the extracted water. The xylene concentration is shown to decrease with time since pumping was initiated in March. Up until July, occasional concentration "spikes" coincided with precipitation episodes that help "flush out" residual contamination. The increase in xylene concentration in July is related to extracted water/LNAPL from the four DPE events conducted by MFG being combined with the recovered groundwater from the interim recovery well. Since completion of the DPE events, the xylene concentration has decreased significantly as indicated in Figure 6. Based upon the results of the assessment, LNAPL likely occurs to the west of the recovery location, outside the limit of hydraulic control for this well.

REGULATORY CONCERNS

The subsurface investigation undertaken has identified the presence of a thin layer of LNAPL occurrence adjacent to the foundation of the "RAX" Production Building along the east south and west sides of the building. The DPE events conducted have diminished the LNAPL layer although measurable quantities (from a sheen to approximately one-half inch in thickness) persist. Additionally, elevated levels of xylene were detected in soil and groundwater during the site assessment. The regulatory concerns related to the current conditions involve the removal of free product (LNAPL), the concentration of aqueous xylene remaining within groundwater, and the soil concentrations occurring in subsurface soil within the source area.

According to NR 708.13, free product should be removed to prevent contaminants from migrating to unaffected soils, groundwater or other environmental media. When attempted, product removal shall be conducted to the maximum extent practicable.

The investigation has also identified dissolved phase xylene occurring in groundwater at a concentration of 2.55 mg/l at the furthest downgradient monitoring point (MW-5). This value attains the WAC Enforcement standard (10 mg/l) but exceeds the WAC Preventive Action Limit of 1 mg/l for xylene. One additional related constituent that exceeded the WAC PAL at MW-5 was ethylbenzene (0.510 mg/l). The PAL for ethylbenzene is 0.140 mg/l. Wisconsin Groundwater Quality regulations (NR140) contain a notification requirement for exceedance of a PAL. It is recommended that PPG review the requirements contained in NR 140.24 to determine the need for notification regarding exceedance of PALs.

Additionally, ethylbenzene and total trimethylbenzene concentrations exceeded WAC PALs at geoprobe boring locations GP-6 and GP-7. These locations are in close proximity to monitoring well MW-1, and thus the effectiveness of remedial efforts in this area can be monitored by well MW-1 (upon free product removal).

For soil, the default residual contaminant level of 4.1 mg/kg for xylene (NR720.09) was exceeded at boring GP-16 (4.7 mg/kg), south of the "RAX" Production Building, and in the spill source area at GP-6 (35 mg/kg). The default residual contaminant level equates to a soil cleanup standard. However, risk assessment procedures can be utilized to calculate an alternative level based upon site-specific parameters if this becomes necessary after interim remedial activities are completed.

RECOMMENDATIONS

As an interim measure, it is recommended to continue DPE extraction events at monitoring wells MW-1 through MW-4 to remove measurable LNAPL adjacent to the "RAX" Production building. The effectiveness of free product removal shall be evaluated after each DPE event, to determine recovery efficiency from the monitoring network and the necessity for additional events.

Upon the removal of LNAPL, water level measurements shall be taken on the monitoring wells to ensure that a "rebound" of free-phase xylene does not occur due to water level fluctuation or desorption from source areas. Upon confirming the absence of LNAPL, water quality samples from monitoring wells MW-1 through MW-6 should be obtained to evaluate site-specific groundwater concentrations relative to WAC groundwater quality standards. Based upon these results, a long-term remedial strategy

Mr. David Thaman
PPG Industries, Inc.
October, 10 2002
Page 9

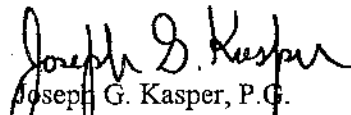
for the site can be developed. The remedial strategy will evaluate the potential to incorporate passive remedial technologies such as natural attenuation as a final corrective measure for the site.

CLOSING

MFG has prepared this Letter Report to provide an update regarding current conditions and to summarize assessment and interim recovery activities conducted from June through August of 2002. We trust this submittal satisfies your requirements. Upon completion of your review, we will be happy to schedule a meeting with PPG to review the findings of the report and to formulate a strategy for future activities. In the meantime, if you have any questions or desire additional information, please do not hesitate to call.

Sincerely Yours,

MFG, INC.


Joseph G. Kasper, P. G.
Project Manager

cc: Brian McGuire (PPG)
Mark Portman

Attachments: Table 1 – Summary of Well Installations Details
Table 2 – Gauging Levels During DPE Events
Table 3 – Product Mass Removal Estimates-DPE Events
Figure 1 – Site Plan
Figure 2 – Cross-Section A-A'
Figure 3 – Cross-Section B-B'
Figure 4 – Soil Sample Results
Figure 5 – Groundwater Sample Results
Figure 6 – Interim Recovery Well Xylene Concentrations
Attachment A – Test Boring and Monitoring Well boring logs
Attachment B – Subsurface Assessment Laboratory Certificates of Analysis
Attachment C – DPE Vapor Analysis Laboratory certificates of Analysis

TABLES

Table 1**Summary of Well Installation Details**

Well Number	Northing	Easting	Ground Elevation	Top of PVC Elevation	Screen Depth	Screen Elevation	Formation
MW-1	315,871.46	2,555,068.96	94.81	94.40	3' - 13'	91.81'-81.81'	Gravel - Fill
MW-2	315,801.26	2,555,029.58	94.47	93.97	3' - 8'	91.47'-86.47'	Gravel - Fill
MW-3	315,800.55	2,554,963.77	94.25	93.86	3' - 8'	91.25' - 86.25'	Gravel - Fill
MW-4	315,844.49	2,554,885.68	94.10	93.58	3' - 13'	91.10'-81.10'	Gravel - Fill
MW-5	315,843.39	2,554,770.24	93.93	93.58	3' - 13'	90.93 - 80.93'	Fine/Coarse Sand
MW-6	315,801.51	2,554,842.93	93.25	92.85	7'-12'	86.25'-81.25'	Fine/Coarse Sand

- Notes:
1. Horizontal coordinates are based on the Wisconsin State Plane Coordinate System.
 2. Vertical elevations according to an arbitrarily assigned elevation of 100' to the floor of the PPG "Rax" Building Floor.
 3. Survey completed by Land Information Services Inc., Milwaukee, Wisconsin.

Table 2
Gauging Levels During DPE Events
July 2, 2002 DPE Event

Site Activity	Date	Start Time	Stop Time
MW-1 Pumping	7/2/02	1020	1315
MW-2 Pumping	7/2/02	1420	1530
MW-3 Pumping	7/2/02	1540	1600
MW-4 Pumping	7/2/02	1610	1730

Well	Date	Time	Depth to Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Depth to Water (ft. TOC)
MW-1	7/2/02	930	5.41	5.52	0.11	5.42
MW-1	7/2/02	1700	5.62	5.78	0.16	5.64
MW-1	7/3/02	830	5.83	5.99	0.16	5.85
MW-2	7/2/02	930	4.69	4.75	0.06	4.70
MW-2	7/2/02	1100	4.69	4.75	0.06	4.70
MW-2	7/2/02	1130	4.68	4.74	0.06	4.69
MW-2	7/2/02	1230	4.69	4.76	0.07	4.70
MW-2	7/3/02	830	4.81	4.87	0.06	4.82
MW-3	7/2/02	930	4.69	4.79	0.10	4.70
MW-3	7/2/02	1100	4.68	4.79	0.11	4.69
MW-3	7/2/02	1130	4.68	4.79	0.11	4.69
MW-3	7/2/02	1230	4.69	4.79	0.10	4.70
MW-3	7/3/02	830	4.96	5.25	0.29	5.00
MW-4	7/2/02	930	4.47	4.51	0.04	4.48
MW-4	7/2/02	1100	4.50	4.54	0.04	4.51
MW-4	7/2/02	1130	4.54	4.58	0.04	4.55
MW-4	7/2/02	1230	4.61	4.65	0.04	4.62
MW-4	7/3/02	830	NP	4.90		4.90
MW-5	7/2/02	930	NP	4.79		4.79
MW-5	7/2/02	1100	NP	4.79		4.79
MW-5	7/2/02	1130	NP	4.80		4.80
MW-5	7/2/02	1230	NP	4.81		4.81
MW-5	7/2/02	1700	NP	4.87		4.87
MW-5	7/2/02	1715	NP	4.89		4.89
MW-5	7/2/02	1730	NP	4.91		4.91
MW-5	7/3/02	830	NP	4.96		4.96
MW-6	7/2/02	930	NP	3.77		3.77
MW-6	7/2/02	1100	NP	3.78		3.78
MW-6	7/2/02	1130	NP	3.81		3.81
MW-6	7/2/02	1230	NP	3.87		3.87
MW-6	7/2/02	1700	NP	4.18		4.18
MW-6	7/2/02	1715	NP	4.27		4.27
MW-6	7/2/02	1730	NP	4.32		4.32
MW-6	7/3/02	830	NP	4.15		4.15

Table 2 continued
Gauging Levels During DPE Events
July 19-22, 2002 DPE Test

Site Activity	Date	Start Time	Stop Time
MW-1 Pumping	7/19/02	900	1330
MW-3 Pumping	7/19/02	1400	1500

Well	Date	Time	Depth to Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Depth to Water (ft. TOC)
MW-1	7/19/02	830	5.44	5.53	0.09	5.45
MW-1	7/19/02	1330	4.69	4.71	0.02	4.69
MW-1	7/19/02	1400	5.72	5.73	0.01	5.72
MW-1	7/19/02	1500	5.70	5.71	0.01	5.70
MW-1	7/22/02	830	5.55	5.57	0.02	5.55
MW-2	7/19/02	830	4.69	4.74	0.05	4.70
MW-2	7/19/02	1000	4.69	4.74	0.05	4.70
MW-2	7/19/02	1100	4.69	4.74	0.05	4.70
MW-2	7/19/02	1200	4.69	4.73	0.04	4.70
MW-2	7/19/02	1300	4.69	4.71	0.02	4.69
MW-2	7/19/02	1400	4.70	4.74	0.04	4.71
MW-2	7/19/02	1500	4.69	4.74	0.05	4.70
MW-2	7/22/02	830	4.69	4.74	0.05	4.70
MW-3	7/19/02	830	4.65	4.85	0.20	4.68
MW-3	7/19/02	1000	4.65	4.85	0.20	4.68
MW-3	7/19/02	1100	4.65	4.85	0.20	4.68
MW-3	7/19/02	1200	4.65	4.85	0.20	4.68
MW-3	7/19/02	1300	4.65	4.77	0.12	4.67
MW-3	7/19/02	1530	6.18	6.20	0.02	6.18
MW-3	7/22/02	830	4.67	4.71	0.04	4.68
MW-4	7/19/02	830	4.49	4.53	0.04	4.50
MW-4	7/19/02	1000	4.53	4.57	0.04	4.54
MW-4	7/19/02	1100	4.58	4.61	0.03	4.58
MW-4	7/19/02	1200	4.63	4.67	0.04	4.64
MW-4	7/19/02	1300	4.69	4.73	0.04	4.70
MW-4	7/19/02	1400	4.73	4.77	0.04	4.74
MW-4	7/19/02	1500	4.74	4.78	0.04	4.75
MW-4	7/22/02	830	4.61	4.64	0.03	4.61
MW-5	7/19/02	830	NP	4.83		4.83
MW-5	7/19/02	1000	NP	4.82		4.82
MW-5	7/19/02	1100	NP	4.83		4.83
MW-5	7/19/02	1200	NP	4.84		4.84
MW-5	7/19/02	1300	NP	4.85		4.85
MW-5	7/19/02	1400	NP	4.88		4.88
MW-5	7/19/02	1500	NP	4.89		4.89
MW-5	7/22/02	830	NP	4.87		4.87
MW-6	7/19/02	830	NP	3.80		3.80
MW-6	7/19/02	1000	NP	3.82		3.82
MW-6	7/19/02	1100	NP	3.85		3.85
MW-6	7/19/02	1200	NP	3.91		3.91
MW-6	7/19/02	1300	NP	3.96		3.96
MW-6	7/19/02	1400	NP	3.99		3.99
MW-6	7/19/02	1500	NP	4.02		4.02
MW-6	7/22/02	830	NP	3.90		3.90

Table 2 continued
Gauging Levels During DPE Events
July 26, 2002 DPE Test

Site Activity	Date	Start Time	Stop Time
MW-2 Pumping	7/26/02	1200	1500
MW-3 Pumping	7/26/02	830	1130

Well	Date	Time	Depth to Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Depth to Water (ft. TOC)
MW-1	7/26/02	830	4.94	4.96	0.02	4.94
MW-1	7/26/02	900	4.95	4.97	0.02	4.95
MW-1	7/26/02	1000	4.96	4.98	0.02	4.96
MW-1	7/26/02	1100	5.06	5.08	0.02	5.06
MW-1	7/26/02	1200	5.22	5.24	0.02	5.22
MW-1	7/26/02	1300	5.26	5.27	0.01	5.26
MW-1	7/26/02	1400	5.30	5.32	0.02	5.30
MW-1	7/26/02	1500	5.32	5.34	0.02	5.32
MW-2	7/26/02	830	4.48	4.51	0.03	4.48
MW-2	7/26/02	900	4.54	4.59	0.05	4.55
MW-2	7/26/02	1000	4.57	4.62	0.05	4.58
MW-2	7/26/02	1100	4.58	4.64	0.06	4.59
MW-2	7/26/02	1500	5.58	5.61	0.03	5.58
MW-3	7/26/02	830	4.33	4.40	0.07	4.34
MW-3	7/26/02	1200	4.49	4.51	0.02	4.49
MW-3	7/26/02	1300	4.55	4.56	0.01	4.55
MW-3	7/26/02	1330	4.43	4.46	0.03	4.43
MW-3	7/26/02	1400	4.59	4.60	0.01	4.59
MW-3	7/26/02	1500	4.61	4.63	0.02	4.61
MW-4	7/26/02	830	4.00	4.04	0.04	4.01
MW-4	7/26/02	900	4.02	4.05	0.03	4.02
MW-4	7/26/02	1000	4.03	4.06	0.03	4.03
MW-4	7/26/02	1100	4.04	4.07	0.03	4.04
MW-4	7/26/02	1200	4.12	4.16	0.04	4.13
MW-4	7/26/02	1300	4.18	4.21	0.03	4.18
MW-4	7/26/02	1400	4.25	4.28	0.03	4.25
MW-4	7/26/02	1500	4.28	4.31	0.03	4.28
MW-5	7/26/02	830	NP	4.51		4.51
MW-5	7/26/02	900	NP	4.48		4.48
MW-5	7/26/02	1000	NP	4.48		4.48
MW-5	7/26/02	1100	NP	4.48		4.48
MW-5	7/26/02	1200	NP	4.49		4.49
MW-5	7/26/02	1300	NP	4.51		4.51
MW-5	7/26/02	1400	NP	4.53		4.53
MW-5	7/26/02	1500	NP	4.56		4.56
MW-6	7/26/02	830	NP	3.38		3.38
MW-6	7/26/02	900	NP	3.39		3.39
MW-6	7/26/02	1000	NP	3.39		3.39
MW-6	7/26/02	1100	NP	3.44		3.44
MW-6	7/26/02	1200	NP	3.48		3.48
MW-6	7/26/02	1300	NP	3.54		3.54
MW-6	7/26/02	1400	NP	3.57		3.57
MW-6	7/26/02	1500	NP	3.42		3.42

Table 2 continued
Gauging Levels During DPE Events
August 8, 2002 DPE Test

Site Activity	Date	Start Time	Stop Time
MW-2 Pumping	8/8/02	1215	1500
MW-3 Pumping	8/8/02	915	1200

Well	Date	Time	Depth to Product (ft. TOC)	Depth to Water (ft. TOC)	Product Thickness (ft.)	Corrected Depth to Water (ft. TOC)
MW-1	8/8/02	800	5.42	5.44	0.02	5.42
MW-1	8/8/02	1000	5.43	5.45	0.02	5.43
MW-1	8/8/02	1100	5.43	5.45	0.02	5.43
MW-1	8/8/02	1200	5.44	5.46	0.02	5.44
MW-1	8/8/02	1300	4.44	4.45	0.01	4.44
MW-1	8/8/02	1400	5.44	5.46	0.02	5.44
MW-1	8/8/02	1500	5.44	5.46	0.02	5.44
MW-1	8/14/02	1000	5.39	5.40	0.01	5.39
MW-2	8/8/02	800	sheen	4.69	sheen	4.69
MW-2	8/8/02	1000	4.69	4.74	0.05	4.70
MW-2	8/8/02	1100	4.69	4.75	0.06	4.70
MW-2	8/8/02	1200	4.69	4.74	0.05	4.70
MW-2	8/14/02	1000	4.63	4.67	0.04	4.64
MW-3	8/8/02	800	4.66	4.71	0.05	4.67
MW-3	8/8/02	1300	6.29	6.30	0.01	6.29
MW-3	8/8/02	1400	6.26	6.28	0.02	6.26
MW-3	8/8/02	1500	6.25	6.26	0.01	6.25
MW-3	8/14/02	1000	4.58	4.63	0.05	4.59
MW-4	8/8/02	800	4.47	4.50	0.03	4.47
MW-4	8/8/02	1000	4.48	4.51	0.03	4.48
MW-4	8/8/02	1100	4.48	4.51	0.03	4.48
MW-4	8/8/02	1200	4.48	4.51	0.03	4.48
MW-4	8/8/02	1300	4.48	4.51	0.03	4.48
MW-4	8/8/02	1400	4.48	4.51	0.03	4.48
MW-4	8/8/02	1500	4.49	4.51	0.02	4.49
MW-4	8/14/02	1000	4.41	4.43	0.02	4.41
MW-5	8/8/02	800	NP	4.83		4.83
MW-5	8/8/02	1000	NP	4.83		4.83
MW-5	8/8/02	1100	NP	4.82		4.82
MW-5	8/8/02	1200	NP	4.83		4.83
MW-5	8/8/02	1300	NP	4.83		4.83
MW-5	8/8/02	1400	NP	4.83		4.83
MW-5	8/8/02	1500	NP	4.83		4.83
MW-5	8/14/02	1000	NP	4.67		4.67
MW-6	8/8/02	800	NP	3.77		3.77
MW-6	8/8/02	1000	NP	3.78		3.78
MW-6	8/8/02	1100	NP	3.78		3.78
MW-6	8/8/02	1200	NP	3.79		3.79
MW-6	8/8/02	1300	NP	3.80		3.80
MW-6	8/8/02	1400	NP	3.79		3.79
MW-6	8/8/02	1500	NP	3.79		3.79
MW-6	8/14/02	1000	NP	3.70		3.70

Table 3 continued
Product Mass Removal Estimates-DPE Events
July 19, 2002

Assumptions:

All hydrocarbon mass recovered is treated as xylene.

MW xylene= 106 g/mole
 1 ppmv xylene= 2.70E-07 lb/ft³
 solubility xylene= 185 mg/L
 density xylene= 7.25 lb/gallon

Truck Cap.= 5500 gallons
 Cyl. Length= 18.58 feet
 Cyl. Diameter= 7.08 feet
 Frac Tank Cap. 21000 gallons
 Length= 35 feet
 Width= 8 feet
 Height= 10 feet

Coefficient of a horizontal cylinder from Chicago Bridge & Iron Tables and Formulas Pamphlet, pg 16
 Chord of a circle from Chicago Bridge & Iron Tables and Formulas Pamphlet, pg 27

Time	Monitoring Well	Total BTEX Vapor (ppmv)	Vapor Phase				Free Phase		Dissolved Phase			Total
			PID Conc. (ppmv)	Velocity (fpm)	Air Flow (cfm)	Volume (gallons)	Prod. Thick. (feet)	Prod. Vol. (gallons)	H ₂ O Depth (feet)	H ₂ O Vol. (gallons)	Prod. Vol. (gallons)	Prod. Vol. (gallons)
9:00	MW-1	1233.4	150	500	98.13	0.0137						
9:25			1400	500	98.13	0.0587						
9:45			1500	2000	392.50	0.2653						
10:05			*	2000	1700	333.63	0.4739					
10:25			*	2000	1800	353.25	0.5124					
10:45			*	2000	2200	431.75	0.5856					
11:05			*	2000	2100	412.13	0.6295					
11:25			*	2000	3600	706.50	0.8344					
11:45			*	2000	2400	471.00	0.8784					
12:05			*	2000	2400	471.00	0.7027					
12:25			*	2000	2100	412.13	0.6588					
12:45			*	2000	3000	588.75	0.7466					
13:05			*	2000	2100	412.13	0.7466					
13:25			*	1935.2			7.10	0.01	20.94	2.13	1394.16	0.0611
14:00	MW-3	563.7	2000									
14:20			*	2000	2400	471.00	0.7027					
14:40			*	2000	3400	667.25	0.8491					
15:00			*	2000	4000	785.00	1.0833					
15:20			*	2000	3600	706.50	1.1126					
		905.5			3.75			2.15	12.86	0.0006	3.75	
											31.86	

* = The vapor concentration exceeded the upper range of the PID (2000 ppmv).

Table 3 continued
Product Mass Removal Estimates-DPE Events
July 26, 2002

Assumptions:

All hydrocarbon mass recovered is treated as xylene.

MW xylene= 106 g/mole
 1 ppmv xylene= 2.70E-07 lb/ft³
 solubility xylene= 185 mg/L
 density xylene= 7.25 lb/gallon

Truck Cap.= 5500 gallons
 Cyl. Length= 18.58 feet
 Cyl. Diameter= 7.08 feet
 Frac Tank Cap. 21000 gallons
 Length= 35 feet
 Width= 8 feet
 Height= 10 feet

Coefficient of a horizontal cylinder from Chicago Bridge & Iron Tables and Formulas Pamphlet, pg 16
 Chord of a circle from Chicago Bridge & Iron Tables and Formulas Pamphlet, pg 27

Time	Monitoring Well	Total BTEX Vapor (ppmv)	Vapor Phase				Free Phase		Dissolved Phase			Total
			PID Conc. (ppmv)	Velocity (fpm)	Air Flow (cfm)	Volume (gallons)	Prod. Thick. (feet)	Prod. Vol. (gallons)	H ₂ O Depth (feet)	H ₂ O Vol. (gallons)	Prod. Vol. (gallons)	Prod. Vol. (gallons)
8:30	MW-3	2214.1	2800	3200	628.00							
8:50			3350	8400	1648.50	2.6109						
9:10			3300	8400	1648.50	4.0888						
9:30			3350	7500	1471.88	3.8697						
9:50			3100	5900	1157.88	3.1632						
10:10			3375	7000	1373.75	3.0570						
10:30			3350	6500	1275.63	3.3227						
10:50			3350	5400	1059.75	2.9180						
11:10			3200	7100	1393.38	2.9965						
11:30			3200	6400	1256.00	3.1621						
		690.7				29.19	0.01	5.68	6.43	253	0.0111	34.88
12:00	MW-2	1663.1	1500	6100	1197.13							
12:20			2500	7000	1373.75	1.9178						
12:40			2600	5700	1118.63	2.3705						
13:00			2600	4300	843.88	1.9031						
13:20			4150	5800	1138.25	2.4951						
13:40			4152	6900	1354.13	3.6588						
14:00			3850	4700	922.38	3.3972						
14:20			3400	5500	1079.38	2.7064						
14:40			3250	7400	1452.25	3.1396						
15:00			2650	6000	1177.50	2.8935						
		583				18.49	0.02	6.85	6.27	93.5	0.0041	25.35
												60.23

* = Interpolated or extrapolated data point.

Table 3 continued
Product Mass Removal Estimates-DPE Events
August 8, 2002

Assumptions:

All hydrocarbon mass recovered is treated as xylene.

MW xylene= 106 g/mole
 1 ppmv xylene= 2.70E-07 lb/ft³
 solubility xylene= 185 mg/L
 density xylene= 7.25 lb/gallon

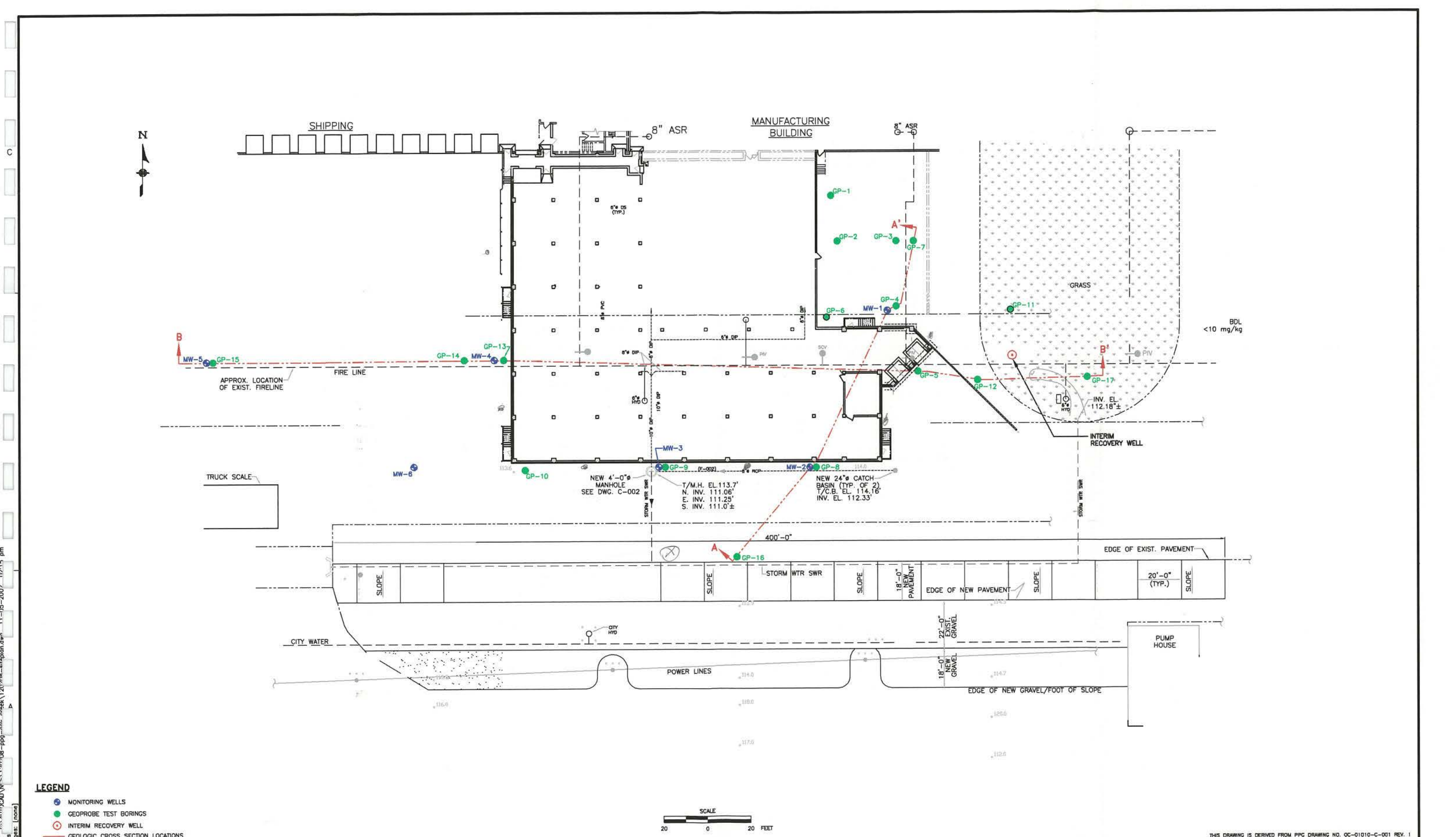
Truck Cap.= 5500 gallons
 Cyl. Length= 18.58 feet
 Cyl. Diameter= 7.08 feet
 Frac Tank Cap. 21000 gallons
 Length= 35 feet
 Width= 8 feet
 Height= 10 feet

Coefficient of a horizontal cylinder from Chicago Bridge & Iron Tables and Formulas Pamphlet, pg 16
 Chord of a circle from Chicago Bridge & Iron Tables and Formulas Pamphlet, pg 27

Time	Monitoring Well	Total BTEX Vapor (ppmv)	Vapor Phase				Free Phase		Dissolved Phase			Total Prod. Vol. (gallons)
			PID Conc. (ppmv)	Velocity (fpm)	Air Flow (cfm)	Volume (gallons)	Prod. Thick. (feet)	Prod. Vol. (gallons)	H ₂ O Depth (feet)	H ₂ O Vol. (gallons)	Prod. Vol. (gallons)	
9:15	MW-3	223.32	3400	3250	637.81							
9:35			2000	4000	785.00	1.4328						
9:55			1300	4500	883.13	1.0266						
10:15			1200	3700	726.13	0.7503						
10:35			1140	3700	726.13	0.6337						
10:55			1100	4400	863.50	0.6640						
11:15			650	4250	834.06	0.5540						
11:35			200	4100	804.63	0.2598						
11:55			200	4400	863.50	0.1244						
12:00			200	4400	863.50	0.0322						
					5.32	0	0.00	7.03	26.4	0.0012	5.32	
12:15	MW-2	596.63	1700	3700	726.13							
12:35			1900	4400	863.50	1.0672						
12:55			1750	4500	883.13	1.1889						
13:15			1600	3700	726.13	1.0054						
13:35			1950	4300	843.88	1.0394						
13:55			2800	4000	785.00	1.4429						
14:15			3700	4000	785.00	1.9031						
14:35			2700	4200	824.25	1.9207						
14:55			2175	4400	863.50	1.5344						
15:00			2175	4400	863.50	0.3502						
					8.19	0.02	2.56	7.05	26.4	0.0012	10.75	
											16.07	

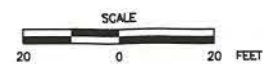
* = Interpolated or extrapolated data point.

FIGURES



THIS DRAWING IS DERIVED FROM PPG DRAWING NO. OC-01010-C-001 REV. 1

- LEGEND**
- MONITORING WELLS
 - GEOPROBE TEST BORINGS
 - INTERIM RECOVERY WELL
 - GEOLOGIC CROSS SECTION LOCATIONS



REFERENCES	NO.	REVISIONS	BY	DATE	NO.	REVISIONS	BY	DATE	NO.	REVISIONS	BY	DATE
	1	ISSUE FOR REVIEW	-	-								



DESIGNED BY: _____
 DRAWN BY: WPZ
 CHECKED BY: JRF
 APPROVED BY: JGK
 PCP/PC2: MFG-STD
 VIEW NAME: _____
 ORIGINATION DATE: 03/28/01
 PLOT SCALE: 1:1 OR 1:2
 DATE: JULY 2002

PPG - OAK CREEK
OAK CREEK, WISCONSIN
FIG. 1
SITE PLAN

DISCLAIMER
 THE INFORMATION PROVIDED ON THIS DRAWING WAS PRODUCED USING BOTH TECHNICAL INFORMATION AND KNOW HOW. ANY ADAPTATION OR MODIFICATION OF THE INFORMATION OR DRAWING SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE ENGINEER.

DRAWING NO. **SP-1-1** REV. NO. **0**
 SHEET **1** OF **1**

WPZ: C:\MTCAD\NCSA\10008-ppg\mfg\12000a-wellplan.dwg 11-05-2002 09:15 pm
 Plot date: 11-05-2002 Image: none



**consulting
scientists and
engineers**

800 Vinial Street, Building A,
Pittsburgh, Pennsylvania 15212
Phone (412) 321-2278
Fax (412) 321-2283

DISCLAIMER

THE INFORMATION PROVIDED ON THIS DRAWING WAS PRODUCED USING BOTH TECHNICAL INFORMATION AND KNOW HOW. ANY ADAPTATION OR MODIFICATION OF THE INFORMATION OR DRAWING SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE ENGINEER.

REFERENCE

NO.	REVISIONS	BY	DATE
△	ISSUE FOR REVIEW	-	-

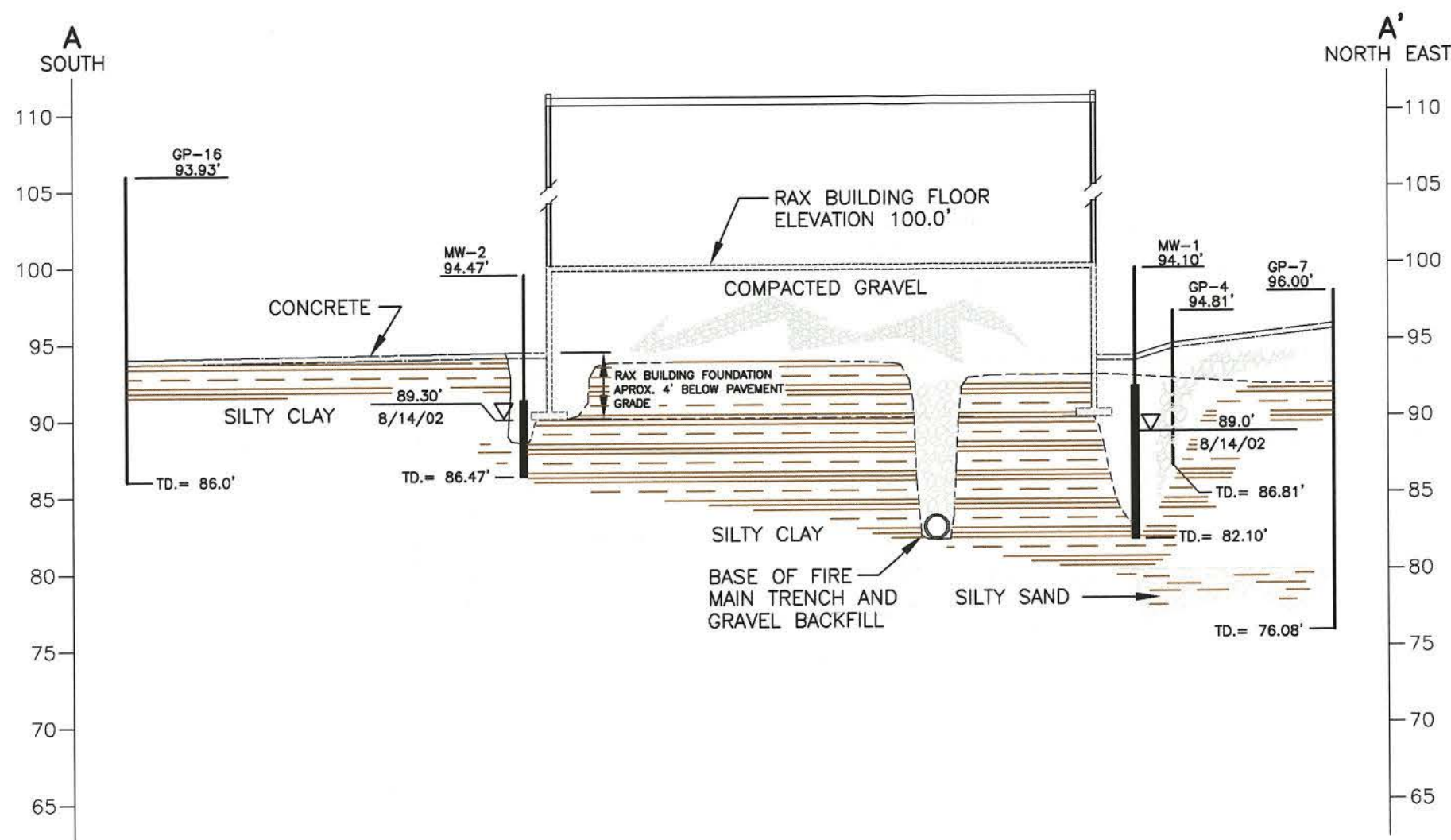
DESIGNED BY: JRF
 DRAWN BY: WPZ
 CHECKED BY: JGK
 APPROVED BY: JGK
 PCP/PC2: MFG-STD
 VIEW NAME:
 ORIGINATION DATE: 09/12/02
 PLOT SCALE: 1:1 OR 1:2
 DATE: SEPTEMBER 2002

PPG - OAK CREEK

OAK CREEK, WISCONSIN

**FIGURE 2
CROSS SECTION
A-A'**

DRAWING NO. 208-SEC-1	REV. NO. △ 0
SHEET 1 OF 2	



LEGEND:

HORIZONTAL SCALE 1" = 20'
 VERTICAL SCALE 1" = 10'
 VERTICAL EXAGGERATION = 2x

NOTES:

- ELEVATIONS BASED ON RAX BUILDING FLOOR ELEVATION OF 100.00'.
- ELEVATION DATA PROVIDED BY LAND INFORMATION SERVICES INC., MILWAUKEE, WISCONSIN.
- WATER LEVEL DATA FROM AUGUST 14, 2002 DUAL PHASE EXTRACTION EVENT.
- THE DEPTH AND THICKNESS OF THE SUB SURFACE UNITS ON THE CROSS SECTION WAS INTERPRETED BETWEEN SOIL BORINGS AND MONITORING WELL LOCATIONS. PLANT UTILITY DRAWINGS WERE USED AS A REFERENCE TO ILLUSTRATE SUBSURFACE FEATURES. CONDITIONS MAY VARY FROM THOSE DEPICTED.

C:\AUTOCAD\NCS\120208-PPG Oak Creek\120208-sec-1.dwg 11-05-2002 11:40 am
 WPZ
 Xrefs:
 Images:
 Plot date: 11-05-2002



**consulting
scientists and
engineers**

800 Vinial Street, Building A,
Pittsburgh, Pennsylvania 15212
Phone (412) 321-2278
Fax (412) 321-2283

DISCLAIMER

THE INFORMATION PROVIDED ON THIS DRAWING WAS PRODUCED USING BOTH TECHNICAL INFORMATION AND KNOW HOW. ANY ADAPTATION OR MODIFICATION OF THE INFORMATION OR DRAWING SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE ENGINEER.

REFERENCE

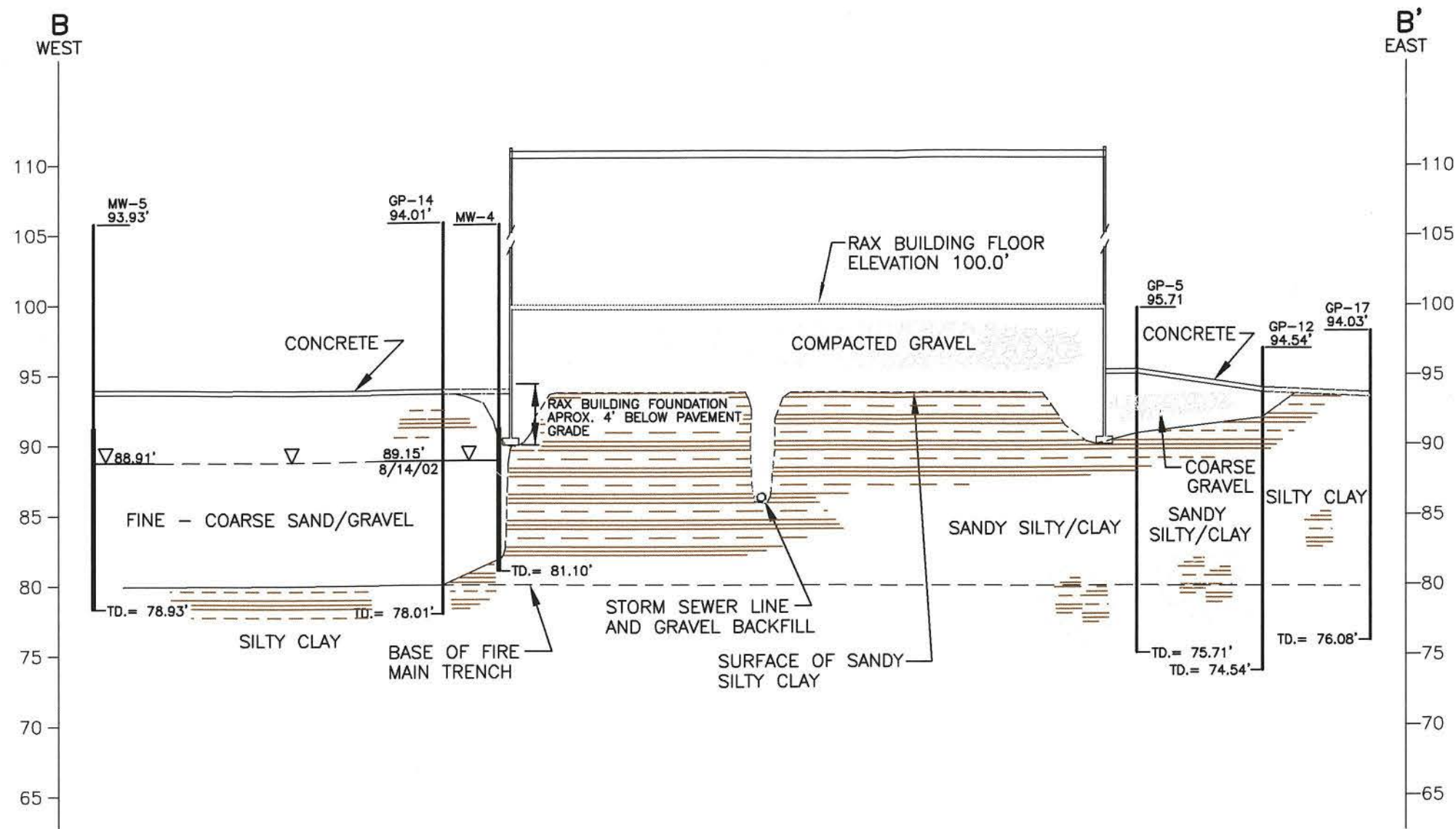
NO.	REVISIONS	BY	DATE
0	ISSUE FOR REVIEW	-	-

DESIGNED BY:	JRF
DRAWN BY:	WPZ
CHECKED BY:	JGK
APPROVED BY:	JGK
PCP/PCZ:	MFG-STD
VIEW NAME:	
ORIGINATION DATE:	09/12/02
PLOT SCALE:	1:1 OR 1:2
DATE:	SEPTEMBER 2002

PPG - OAK CREEK
OAK CREEK, WISCONSIN

**FIGURE 3
CROSS SECTION
B-B'**

DRAWING NO.	REV.NO.
208-SEC-2	0
SHEET 2 OF 2	



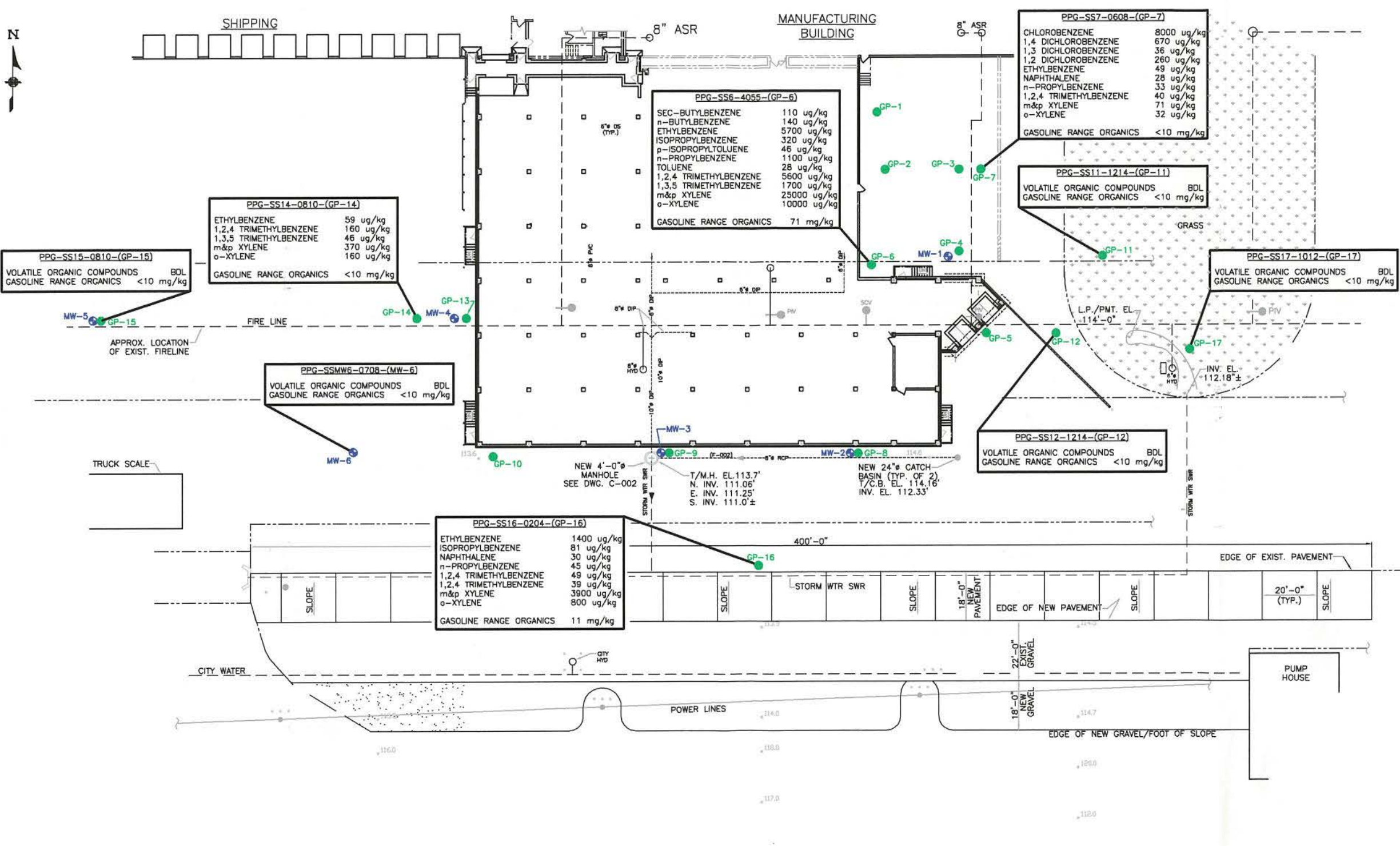
LEGEND:

HORIZONTAL SCALE 1" = 40'
VERTICAL SCALE 1" = 10'
VERTICAL EXAGGERATION = 4x

NOTES:

- ELEVATIONS BASED ON RAX BUILDING FLOOR ELEVATION OF 100.00'.
- ELEVATION DATA PROVIDED BY LAND INFORMATION SERVICES INC., MILWAUKEE, WISCONSIN.
- WATER LEVEL DATA FROM AUGUST 14, 2002 DUAL PHASE EXTRACTION EVENT.
- THE DEPTH AND THICKNESS OF THE SUB SURFACE UNITS ON THE CROSS SECTION WAS INTERPRETED BETWEEN SOIL BORINGS AND MONITORING WELL LOCATIONS. PLANT UTILITY DRAWINGS WERE USED AS A REFERENCE TO ILLUSTRATE SUBSURFACE FEATURES. CONDITIONS MAY VARY FROM THOSE DEPICTED.

05-200 2-24 120 08-PPC 11-05-2002
 WPZ Xrefs 12-40 11-05-2002
 Plot date: 11-05-2002



PPG-SS15-0810-(GP-15)

VOLATILE ORGANIC COMPOUNDS	BDL
GASOLINE RANGE ORGANICS	<10 mg/kg

PPG-SS14-0810-(GP-14)

ETHYLBENZENE	59 ug/kg
1,2,4 TRIMETHYLBENZENE	160 ug/kg
1,3,5 TRIMETHYLBENZENE	46 ug/kg
m&p XYLENE	370 ug/kg
o-XYLENE	160 ug/kg
GASOLINE RANGE ORGANICS	<10 mg/kg

PPG-SS6-4055-(GP-6)

SEC-BUTYLBENZENE	110 ug/kg
n-BUTYLBENZENE	140 ug/kg
ETHYLBENZENE	5700 ug/kg
ISOPROPYLBENZENE	320 ug/kg
p-ISOPROPYLTOLUENE	46 ug/kg
n-PROPYLBENZENE	1100 ug/kg
TOLUENE	28 ug/kg
1,2,4 TRIMETHYLBENZENE	5600 ug/kg
1,3,5 TRIMETHYLBENZENE	1700 ug/kg
m&p XYLENE	25000 ug/kg
o-XYLENE	10000 ug/kg
GASOLINE RANGE ORGANICS	71 mg/kg

PPG-SS7-0608-(GP-7)

CHLOROBENZENE	8000 ug/kg
1,4 DICHLOROBENZENE	670 ug/kg
1,3 DICHLOROBENZENE	36 ug/kg
1,2 DICHLOROBENZENE	260 ug/kg
ETHYLBENZENE	49 ug/kg
NAPHTHALENE	28 ug/kg
n-PROPYLBENZENE	33 ug/kg
1,2,4 TRIMETHYLBENZENE	40 ug/kg
m&p XYLENE	71 ug/kg
o-XYLENE	32 ug/kg
GASOLINE RANGE ORGANICS	<10 mg/kg

PPG-SS11-1214-(GP-11)

VOLATILE ORGANIC COMPOUNDS	BDL
GASOLINE RANGE ORGANICS	<10 mg/kg

PPG-SS17-1012-(GP-17)

VOLATILE ORGANIC COMPOUNDS	BDL
GASOLINE RANGE ORGANICS	<10 mg/kg

PPG-SSMW6-0708-(MW-6)

VOLATILE ORGANIC COMPOUNDS	BDL
GASOLINE RANGE ORGANICS	<10 mg/kg

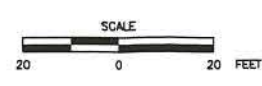
PPG-SS16-0204-(GP-16)

ETHYLBENZENE	1400 ug/kg
ISOPROPYLBENZENE	81 ug/kg
NAPHTHALENE	30 ug/kg
n-PROPYLBENZENE	45 ug/kg
1,2,4 TRIMETHYLBENZENE	49 ug/kg
1,2,4 TRIMETHYLBENZENE	39 ug/kg
m&p XYLENE	3900 ug/kg
o-XYLENE	800 ug/kg
GASOLINE RANGE ORGANICS	11 mg/kg

PPG-SS12-1214-(GP-12)

VOLATILE ORGANIC COMPOUNDS	BDL
GASOLINE RANGE ORGANICS	<10 mg/kg

- LEGEND**
- MONITORING WELLS
 - GEOPROBE TEST BORINGS
 - INTERIM RECOVERY WELL



THIS DRAWING IS DERIVED FROM PPG DRAWING NO. OC-01010-C-001 REV. 1

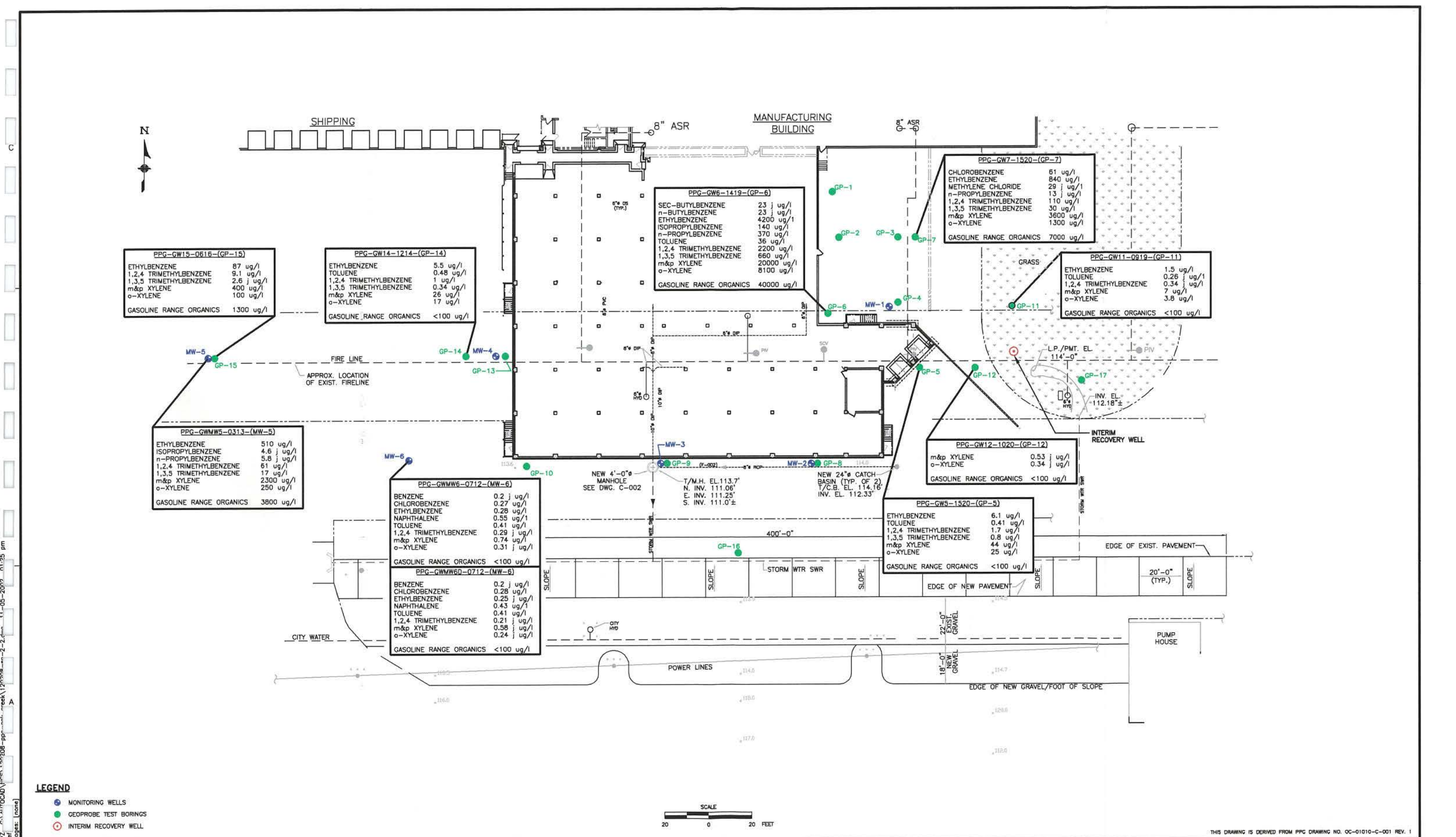
REFERENCES	NO.	REVISIONS	BY	DATE	NO.	REVISIONS	BY	DATE	NO.	REVISIONS	BY	DATE
	1	ISSUE FOR REVIEW										



DESIGNED BY:	
DRAWN BY:	WPZ
CHECKED BY:	JRF
APPROVED BY:	JGK
PCP/PCZ:	MFG-STD
VIEW NAME:	
ORIGINATION DATE:	03/28/01
PLOT SCALE:	1:1 OR 1:2
DATE:	JULY 2002

PPG - OAK CREEK
OAK CREEK, WISCONSIN
FIG. 4
SOIL SAMPLE
RESULTS

DISCLAIMER	
THE INFORMATION PROVIDED ON THIS DRAWING WAS PRODUCED USING BOTH TECHNICAL INFORMATION AND KNOW HOW. ANY ADAPTATION OR MODIFICATION OF THE INFORMATION OR DRAWING SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE ENGINEER.	
DRAWING NO.	REV. NO.
0208-SP-1	
SHEET 1 OF 2	



LEGEND

- Monitoring Wells
- Geoprobe Test Borings
- Interim Recovery Well

SCALE
0 20 20 FEET

REFERENCES

NO.	REVISIONS	BY	DATE
1	ISSUE FOR REVIEW	-	-

DESIGNED BY: WPZ
DRAWN BY: JRF
CHECKED BY: JRF
APPROVED BY: JCK
PCP/PC2: MFG-STD
VIEW NAME:
ORIGINATION DATE: 03/28/01
PLOT SCALE: 1:1 OR 1:2
DATE: JULY 2002

PPG - OAK CREEK
OAK CREEK, WISCONSIN
FIG. 5
GROUNDWATER SAMPLE RESULTS

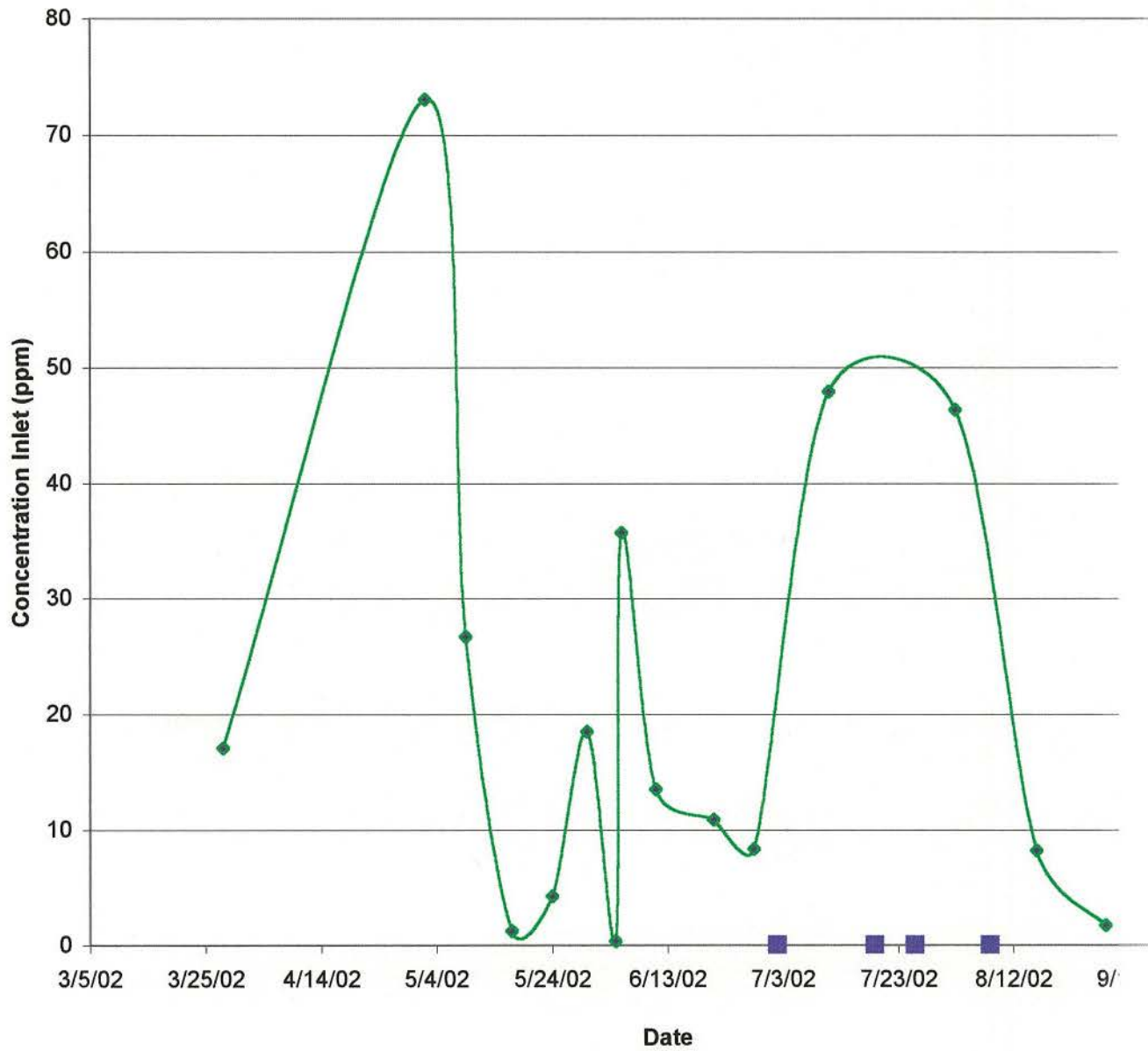
DISCLAIMER
 THE INFORMATION PROVIDED ON THIS DRAWING WAS PRODUCED USING BOTH TECHNICAL INFORMATION AND KNOW HOW. ANY ADAPTATION OR MODIFICATION OF THE INFORMATION OR DRAWING SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE ENGINEER.

DRAWING NO. 0208-SP-2
REV. NO. 0
SHEET 2 **OF** 2

WPZ: 01:05-2002
 Xref: 11-05-2002
 Imagery: [none]

THIS DRAWING IS DERIVED FROM PPG DRAWING NO. OC-01010-C-001 REV. 1

Figure 6
Interim Recovery Well Aqueous Xylene Concentration



ATTACHMENT A

BORING LOG

PROJECT: PPG OAK Creek

BORING NO GP-4 (mw-1)

PROJECT NO.: 130208-101-1

DATE: 6-17-2002

DRILLER: Jack Zilz

ELEVATION: 44.87

FIELD GEOLOGIST J. Ferguson

WATER LEVEL DATA

(Date, Time & Conditions)

SAMPLE NO	DEPTH (ft)	BLOWS 1' OR 100	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (DEPTH IN FEET) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY, CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
5-1	0-1	10	3.4	INTEREST	V. HARD	Gray	Concrete 0-4" Sandy f.c. gravel	Fill 15345 OVM = 186
	1-2	0				Gray	Sandy f.c. gravel moist	Fill
	2-3	5			M. Dense	GRAY	Sandy SILTY COARSE Angular	6P/6m OVM = 210
	3-4	11	4.0			GRAY	limestone Gravel, moist	6P/6m TEGULAC BAG Sample =
5-2	4-5	10	9.6		M. Dense	GRAY		6P/6m 1390 @ 16:05
	5-6	0				GRAY		6P/6m 76:05 OVM = 2.980
	6-7	5			M. Dense	GRAY	Sandy, silty, COARSE, Angular	6P/6m OVM = 4.608
	7-8	11	4.0			GRAY	limestone Gravel, wet, xylene odor	6P/6m
							BOTTOM OF BORE = 8.0'	
								SCREEN FROM 45-8'
								NATURAL BACKFILL

MARKS ^{16:30} Installed 1/4" PVC screen since fine product visible in sample 2
6:33 TOP CNAPL 6:45 WATER = .33 CNAPL
16:50 6:33 TOP CNAPL 6:54 TOP WATER = .63'

BORING GP-4

PAGE 1 of 1

BORING LOG

PROJECT: PPG ONE Creek BORING NO: GP-5
 PROJECT NO.: 120208-101-1 DATE: 6-17-2008 DRILLER: JACK ZILZ
 ELEVATION: 95.71 FIELD GEOLOGIST: S. Ferguson
 WATER LEVEL DATA:
 (Date, Time & Conditions)

SAMPLE NO	DEPTH (1" OR 2" OR 4" OR 100)	FLOW (1" OR 2" OR 4" OR 100)	SAMPLE RECOVERY (1" OR 2" OR 4" OR 100)	LITHOLOGY CHANGE (1" OR 2" OR 4" OR 100)	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY (1" OR 2" OR 4" OR 100)	COLOR	MATERIAL CLASSIFICATION	
5-1	0-1	P	3.95	WET	V. HARD	Gray	0-5' Concrete	16:55 OVM=79
	1-2	V			M. DUST	Gray-Brown	Silty F.C. Sand and F.C.	34/100
	2-3	S			M. DUST		gravel	6M OVM=89
	3-4	H	4.0		M. DUST		Sandy coarse L.S. gravel ang.	6M TEGUL BAG = 100
5-2	4-5	P	3.95		V. STIFF	Orange Brown	Sandy (VF-F) Silty sand 1-2	ML 17:15 OVM=27
	5-6	V				Brown	mm sand (VF) seams moist	SM
	6-7	S				Gray-Brown	1/2 @ 6.8 F.C. Sand	SM OVM=117
	7-8	H	4.0		STIFF	Gray-Brown	Sandy (Fm) Silty, trace F.C. sand	ML
5-3	8-9	P	3.5				gravel	ML 13:30 (6-18) OVM=11.6
	9-10	V			M. DUST	Brown	Silty, coarse, F.C. Sand WET-moist	SP/ML
	10-11	S			V. STIFF	Brown-Gray	Sandy (VF-F) Silty, clay, moist	ML/CL OVM=2.0
	11-12	H	4.0			Brown-Gray		ML/CL
5-4	12-13	P	3.45		V. STIFF	Gray	Silty sandy (VF-F), clay	13:45 OVM=4.9
	13-14	V				Gray	PLASTIC, MOIST	
	14-15	S			STIFF	Gray		CL/SL OVM=3.8
	15-16	H	4.0		M. DENSE	Green-Gray	Fine-Coarse Sand WET	SP
5-5	16-17	P	3.0		M. DENSE	Green-Gray	Sandy, S.H. clay, clay, sandy silt	ML/CL 13:55 OVM=10.3
	17-18	V				Brown-Gray	WET, Fine-Coarse Sand, tan	SP
	18-19	S			M. DENSE	Green-Gray	fine gravel.	SP OVM=10.3
	19-20	H	9.0			Green-Gray		SP
							Bottom of Bag = 20.0'	

MARKS 14:45 STRIKE 8.50' IN BOREHOLE Following installation of screen from 10-20'

BORING LOG

PROJECT: PP6 OAK Creek

BORING NO. GP-7

PROJECT NO.: 120302

DATE: 6-18-2002

DRILLER: JACK ZWE

ELEVATION: 96.02

FIELD GEOLOGIST: S. Ferguson

WATER LEVEL DATA

(Date, Time & Conditions)

SAMPLE NO	DEPTH (ft)	BLOW COUNT	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (DESCRIBE) OR SCREENING INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
3-1	0-1	P	3.2	[Diagonal hatching]	M. Dense	gray	Silty, sandy (F-C) fine coarse	FCU 11:25 OVM = 10.8
	1-2	U			gray	gravel, gravelly, F-C sand, dry	FCU	
	2-3	S			M. Dense	Brown	clayey F-C sand and clay	34/100 OVM = 9.9
	3-4	H	4.0		Brown	sandy (F) F-C sand moist-wet	34/100 11:35 PENLAK = 12.7	
3-2	4-5	P	2.0	[Diagonal hatching]	V. STIFF	gray	Silty, sandy (F-C) clay	11:49 OVM = 1.8
	5-6	U			gray	dry	11/100	
	6-7	S			STIFF	gray	Silty, sandy (F-C) clay moist	11/100 OVM = 5.0
	7-8	H	4.0		gray	to wet.	11/100	
3-3	8-9	P	3.75	[Diagonal hatching]	V. STIFF	gray	Silty, sandy (F-C) clay coarse	11:47 OVM = 1.8
	9-10	U			gray	fine angular gravel moist-wet	11/100	
	10-11	S			V. STIFF	gray		11/100 OVM = 0
	11-12	H	4.0		gray			11/100
4	12-13	P	3.5	[Diagonal hatching]	STIFF	gray	Silty, sandy F-C, clay	LL #150 OVM = 2.8
	13-14	U			gray	some F-C gravel,	34/100 NET SAND FROM	
	14-15	S			STIFF	gray		LL #13-14 OVM = 0.7
	15-16	H	4.0		gray			LL
5	16-17	P	0.0	[Diagonal hatching]	M. Dense	gray	No Recovery Following 2	SM 12:00
	17-18	U			gray	ATTENTION @ sampling, saw	SM	
	18-19	S			gray	sandy (F-C) silt left in	SM	
	19-20	H	4.0		gray	samples not	SM	
						Bottom of Boring = 20.0'		

ARX5 STATIC WATER LEVEL @ 11.71 12:20

BORING GP-7

PAGE 1 of 1

BORING LOG

PROJECT: PP6 Day Creek BORING NO: GP-8 (MW-2)
 PROJECT NO.: 120208 DATE: 6-18-2009 DRILLER: Jack Zilz
 ELEVATION: 97.25 FIELD GEOLOGIST: J.R. Ferguson
 WATER LEVEL DATA:
 (Date, Time & Conditions)

SAMPLE NO	DEPTH (FT)	FLOW (L/HR)	SAMPLE RECOVERY (%)	LITHOLOGY CHANGE (NUMBER) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY (G/CM ³) OR ROCK MASSNESS	COLOR	MATERIAL CLASSIFICATION	
5-1	0-1	U	2.75	WELL				15:30 OVM=124
	1-2	U		Δ Δ Δ Δ	M. DUNE	GRAY	Silty Sandy (Fm) Fine to	GM
	2-3	S		Δ Δ Δ Δ	M. DUNE	GRAY	Coarse angular limestone gravel	GM
	3-4	H	4.0	Δ Δ Δ Δ		GRAY	moist.	GM
5-2	4-5	U	2.8	Δ Δ Δ Δ	M. DUNE	GRAY		GM 15:30 OVM=1486
	5-6	U		Δ Δ Δ Δ		GRAY		GM
	6-7	S		WELL	V. STIFF	BROWN	Sandy (Fm) Clay. Dry-moist	CI
	7-8	H	4.0	WELL		BROWN		CI
Bottom of Boring = 8.0'								

ARKS 14:55 Began drilling. Normal cement
 15:30 installed concrete 6" x 7"
 16:50 called Marc Portner / Joe Ruyter RE: GP-8 Temp Well
 INSTALLED TEMP WELL 17:00 5.56 TEMP
 5.66 IPED
 .10 LNAPL

BORING GP-8
 PAGE 1 of 1

BORING LOG

PROJECT: PPG One Creek

BORING NO 6P-9 (mw-7)

PROJECT NO.: 120209

DATE: 6-18-2009

DRILLER: Jack Zue

ELEVATION: 94.20

FIELD GEOLOGIST J. Ferguson

WATER LEVEL DATA:

(Date, Time & Conditions)

SAMPLE NO	DEPTH	BLOWS	SAMPLE RECOVERY	LITHOLOGY CHANGE	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY	MATERIAL CLASSIFICATION	COLOR	
STAMP	FEET	PER CENT	FOOT	OR SCREENED INTERVAL	CONSISTENCY OR ROCK HARDNESS			
5-1	0-1	1	2.75	NEW	Hard	Gray		16:50 OVM = 3.0
	1-2	0		DD	M. Dense	Gray	Silty, Sandy (F-m) Fine	6P
	2-3	5		DD	M. Dense	Gray	Coarse irregular limestone	6P OVM = 18.2
	3-4	4	4.0	DD		Gray	gravel, moist wet @ cong	6P
5-2	4-5	1	3.5	DD	M. Dense	Gray	interface.	6P 17:09 OVM = 43.9
	5-6	0		DD		Gray	↓	6P/6P
	6-7	3		DD	V. Stiff	Brown	Silty, Sandy (Fine) clay, moist	CL OVM = 70
	7-8	4	4.0	DD		Brown	↓	CL
							Bottom of Boring = 8.5'	

MARKS * LOCATED 70' WEST OF 6P-8
 INSTALLED 8' WELL 5' x 6" 4" Ø 50W 90PVL

BORING LOG

PROJECT: 2P6 OAK CREEK

BORING NO: 6P-10

PROJECT NO.: 100708

DATE: 6-18-2003

DRILLER: Jack Zilz

ELEVATION: 93.60

FIELD GEOLOGIST: S. Ferguson

WATER LEVEL DATA:

(Date, Time & Conditions)

SAMPLE NO	DEPTH	FLOW	SAMPLE RECOVERY	LITHOLOGY CHANGE IDENTIFIABLE OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOL. DENSITY OR CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
5-1	0-1		2.9	11.5	HARD	GRAY	Concrete (0.5')	17:35 OVM=13.2
	1-2			11.5	GRAY		Silty Sandy (F-L) fine-grained GM	
	2-3			11.5	M. Dense	GRAY	GRAVEL; angular mat	6M not @ interface OVM=12.9
	3-4		4.0	11.5	V. STIFF	BROWN	Silty Sandy (F) clay mat	CL
5-2	4-5		2.8	11.5	BROWN		slight mottling, trace fine	CL 17:24 OVM=9.3
	5-6			11.5	BROWN		fine gravel	CL
	6-7			11.5	BROWN			CL OVM=2.0
	7-8		4.0	11.5	BROWN			CL
					Bottom of Boring = 8.0'			

MARKS - LOCATED 65' WEST OF 6P-9 NEAR WEST END OF PARK BLDG.

BORING 6P-10

PAGE 1 of 1

BORING LOG

PROJECT: PP6 Oak Creek

BORING NO GP-11

PROJECT NO.: 120208

DATE: 6-18-2008

DRILLER: TALK BILZ

ELEVATION: 94.71

FIELD GEOLOGIST

WATER LEVEL DATA

(Date, Time & Conditions)

SAMPLE NO	DEPTH	BLOWS	SAMPLE RECOVERY	LITHOLOGY CHANGE (DIAPYCNAL) OR SCREENED INTERVAL	MATERIAL DESCRIPTION		REMARKS		
					SOIL DENSITY CONSISTENCY OR SOFTNESS	COLOR			
5-1	0-1	P	3.9		STIFF	Brown Silty (F) SILT, moist, humus	MC 17:35	OVM = 0.2	
	1-2	U				Brown Silty (F), Clay, trace (F-C)	CL		
	2-3	S				STIFF Brown rounded gravel, clay	CL		OVM = 1.2
	3-4	H	4.0			Brown	CL		TRAIL BASE = 0
	4-5	P	3.3			V. STIFF Brown SILTY, sandy (L) CLAY, Dry	CL	17:45	OVM = 0.2
	5-6	U				GRAY - moist, trace (F-C) gravel	CL		
	6-7	S				V. STIFF GRAY	CL		OVM = 1.8
	7-8	H	4.0			GRAY	CL		
	8-9	P	3.8			STIFF GRAY SILTY, sandy (F), CLAY, plastic	CL	17:55	OVM = 1.5
	9-10	U				GRAY moist, trace fine - coarse	CL		
	10-11	S				STIFF GRAY rounded gravel	CL		OVM = 0.7
	11-12	H	4.0			GRAY	CL		
	12-13	P	3.65			V. STIFF GRAY SILTY, sandy (F) CLAY, moist	CL	18:10	OVM = 2.0
	13-14	U				GRAY trace fine - coarse rounded gravel	CL		
	14-15	S				V. STIFF GRAY	CL		OVM = 1.5
	15-16	H	4.0			GRAY	CL		
	16-17	P	3.8			STIFF GRAY sandy (F-M) CLAY, moist - plastic	CL	18:22	OVM = 0
	17-18	U				GRAY WET, PLASTIC	CL		
	18-19	S				STIFF GRAY	CL		OVM = 0
	19-20	H	4.0			GRAY sandy (F-M) CLAY, moist plastic	CL		
					Bottom of Bore = 20.0'				

MARKS 18:47 - Static WATER LEVEL @ 11.21' BGS

• PERM. INSTALLED screen 9'-14'

• SOIL sample 12'-14' = Groundwater PP6-GW11-0919.
PP6-5511-1214

6-19-2002 S =

BORING GP-11

PAGE 1 of 1

BORING LOG

PROJECT: PPL OAK CREEK BORING NO: GP-12
 PROJECT NO.: 120208 DATE: 6-19-2002 DRILLER: JACK ZILZ
 ELEVATION: 94.54 FIELD GEOLOGIST: J. Ferguson
 WATER LEVEL DATA:
 (Date, Time & Conditions)

SAMPLE NO	DEPTH (ft)	BLOW COUNT	SAMPLE RECOVERY (%)	LITHOLOGY CHANGE (Overall) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOR DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
5-1	0-1	P	38	11-11-11 11-11-11 11-11-11 11-11-11	M-Dense	GRAY	0-15' concrete, early (F-C), fill	OR: 37 OVM= 2.3
	1-2	V			V. STIFF	GRAY	Fine-Grained Limestone, moist	6M (0.5-1.5)
	2-3	H			V. STIFF	Brown	Silty clay, moist, mottled	CL OVM= 0
	3-4	H	40			Brown	gray (1.5-4.0)	LL (EQUIVA BAG = 1.0)
5-2	4-5	P	40	11-11-11 11-11-11 11-11-11 11-11-11	V. STIFF	Brown	Silty sandy (F) clay, trace	LL OR: 37 OVM= 1.5
	5-6	V				Brown	to little F-L gravel, moist	LL REMOVED FILL
	6-7	H			V. STIFF	Brown		LL OVM= 1.5
	7-8	H	40			Brown		LL
5-3	8-9	P	40	11-11-11 11-11-11 11-11-11 11-11-11	V. STIFF	Brown		LL OR: 37 OVM= 0.2
	9-10	V				Red Brown		LL
	10-11	H			STIFF	Red Brown		LL OVM= 0.2
	11-12	H	40			GRAY	Silty sandy (VE-F) clay, moist	ML/LL w/ 10'
5-4	12-13	P	37.5	11-11-11 11-11-11 11-11-11 11-11-11	STIFF	GRAY	SILT, wet	ML/LL OR: 37 OVM= 1.8
	13-14	V				GRAY		ML/LL
	14-15	H			STIFF	GRAY	Sandy (VE-F) SILT, moist	ML OVM= 0.2
	15-16	H				GRAY	w/ trace clay	ML
5-5	16-17	P	36.8	11-11-11 11-11-11 11-11-11 11-11-11	STIFF	GRAY		ML OR: 45 OVM= 0.2
	17-18	V				GRAY		ML
	18-19	H			STIFF	GRAY	Silty sandy clay, moist-wet	ML/LL OVM= 0.2
	19-20	H	40			GRAY		ML/LL
Bottom of Bag = 20.0'								

MARKS 9:09 SET UP ON GP-12, Combrated OVM
 10:10 3 @ 15.8' 56.5

BORING GP-12
 PAGE 1 of 1

BORING LOG

PROJECT: PP6 Oak Creek BORING NO: GP-13
 PROJECT NO.: 120208 DATE: 6-19-2003 DRILLER: Jack Zile
 ELEVATION: 94.12 FIELD GEOLOGIST: J. Ferguson
 WATER LEVEL DATA:
 (Date, Time & Conditions)

SAMPLE NO	DEPTH (FEET)	SLOWS (MIN)	SAMPLE RECOVERY (PERCENT)	LITHOLOGY CHANGE (CORRELATE) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
5-1	0-1	12	20		6M		Concrete (0-0.5')	11:00 OVM = 12.6
	1-2	5			Loose	GRAY	Silty Sandy (F-C) fine	6M
	2-3	5			Loose	GRAY	Coarse Angular limestone gravel	6M
	3-4	11	4.0			GRAY	moist-wet @ 4'	6M 11:20 TEMPERATURE = 48
5-2	4-5		1.5		Loose	GRAY		6M OVM = 1381
	5-6					GRAY		6M
	6-7				Loose	GRAY		6M OVM = 1600
	7-8		4.0			GRAY		6M OVM = 1381
5-3	9-9		2.0		Loose	GRAY		6M 11:35 OVM = 342
	9-10					GRAY		6M
	10-11					GRAY		6M OVM = 20
	11-12		4.0		STIFF	Bluish-GRAY	Sandy (V-F) clay, moist	CL

MARKS 10:45-11:00 - Contact M. Portman / Kasper RE WELL LOCATIONS

BORING GP-13

FOR RECOVER ALSO DOCUMENTATION BORINGS

11:20 encountered water @ 4' with upward likely foundation offset to show contact M. Portman w/ details.

PAGE 1 of 1

11:40 Recovered sample - called on Portman contact in samples.

BORING LOG

PROJECT: PP6 Clay Creek

BORING NO GP-14

PROJECT NO.: 100208-101

DATE: 6-17-2002

DRILLER: Jack Zilz

ELEVATION: 94.01

FIELD GEOLOGIST J. Ferguson

WATER LEVEL DATA:

(Date, Time & Conditions)

SAMPLE NO	DEPTH	BLOW COUNT	SAMPLE RECOVERY	LITHOLOGY CHANGE	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY	MATERIAL CLASSIFICATION	TESTS	
100	100	100	100	SCREENED INTERVAL	OR ROCK HARDNESS	SOILS		
5-1	0-1	2.75		11.5		6.0	0-0.5' concrete, silty fine-	12:19 OVM= 7.9
	1-2			11.5		6.0	fine coarse angular ls. gravel	
	2-3			11.5		6.0	m. dense brown silty sandy (F-C) F.C. rounded gravel	12:20 OVM= 10.0
	3-4	4.0		11.5		6.0	brown-orange silty sandy (F-C) F.C. sand	12:21 moist-wet
5-2	4-5	2.6		11.5		6.0	m. dense brown-orange	12:33 OVM= 4.8
	5-6			11.5		6.0	brown-orange	
	6-7			11.5		6.0	m. dense brown-orange	12:34 OVM= 5.0
	7-8	4.0		11.5		6.0	brown-orange	12:35 wet @ 6-7'
5-3	8-9	2.75		11.5		6.0	m. dense brown-orange	12:38 OVM= 7.2
	9-10			11.5		6.0	brown-orange	12:39 PPG-5514-0810
	10-11			11.5		6.0	m. dense brown	12:40 OVM= 2.5
	11-12	4.0		11.5		6.0	m. dense gray silty, FC sand, some FC	12:41
5-4	12-13	3.8		11.5		6.0	gray rounded gravel, wet.	12:42 OVM= 3.9
	13-14			11.5		6.0	gray sandy (F-VF), silty, sandy	
	14-15			11.5		6.0	gray sand sandy (F-VF) coarsest size	12:43 OVM= 2.6
	15-16	4.0		11.5		6.0	gray	12:44
							Bottom of Boring = 16.0'	

MARKS = LOCATED 20' WEST OF WEST RAY BLDG. WALL
 @ 12:45 Dave Thomson stopped by and I briefed him on findings
 @ 12:50 Gw Sample @ 4.5'

BORING LOG

PROJECT: PP6 Oak Creek

BORING NO: GP-15 (mw-5)

PROJECT NO.: 120208

DATE: _____

DRILLER: Jaime Zitz

ELEVATION: 93.93

FIELD GEOLOGIST: _____

WATER LEVEL DATA: _____

(Date, Time & Conditions)

SAMPLE NO	DEPTH (ft)	BLOWS 1' OR 100	SAMPLE RECOVERY OR SAMPLE LENGTH	LITHOLOGY CHANGE (SPHALLS) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL STRENGTH CONSISTENCY OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
5-2	0-1	2-7					Concrete 0-0.5, 0.5-1.5 silty sand	B:45 OVM=3.1
	1-2				M. Bngl	Orange Brown	irregular gravel, clay	
	2-3					Orange Brown	Silty Sand (F-C) Fine-coarse	5m/3m OVM=2.0
	3-4	40			M. Bngl	Orange Brown	gravel and silty gravel (F-C)	5m/3m
5-3	4-5	26				Orange Brown	Fine-coarse sand wet	13:50 OVM=3.1
	5-6				M. Bngl	Orange Brown		5m/3m
	6-7					Orange Brown		5m/3m OVM=2.3
	7-8	40			M. Bngl	Orange Brown		5m/3m WET @ 7-7.8
5-3	8-9	21				Orange Brown		13:55 OVM=3.0
	9-10				M. Bngl	Orange Brown		5m/3m
	10-11					Orange Brown		5m/3m OVM=1.8
	11-12	40			M. Bngl	Orange Brown		5m/3m
5-4	12-13	32				Brown-Grey		5m/3m OVM=2.3
	13-14				M. Bngl	Brown-Grey	Silty Sand w/c gravel, arg./sand	GM
	14-15				STMS	Grey Sand	Sandy (VFE) Silt, trace F-M	5m/3m OVM=2.1
	15-16	40				Grey Sand	round gravel, some clay	5m/3m
							Bottom of Bng = 16.0'	

MARKS = Location 100' South Deer ID, 124' West of Pav Walk
 E 415' 10" 3'-13" 4" @ 50' 40" NDC Run

BORING (GP-15)

BORING LOG

PROJECT: PP6 OAK Creek

BORING NO SP-16

PROJECT NO.: 120208

DATE: 6-19-2009

DRILLER: Jack Billz

ELEVATION: 94.97

FIELD GEOLOGIST J. Ferguson

WATER LEVEL DATA:

(Date, Time & Conditions)

SAMPLE NO	DEPTH	BLOWS	SAMPLE RECOVERY	LITHOLOGY CHANGE (DARKNESS) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS
					SOIL DENSITY OR MOISTURE	COLOR	MATERIAL CLASSIFICATION	
5-1	0-1		3.0		Hard	Gray	Concrete 0-0.5'	15.90 OVM= 2.9
	1-2				Stiff	Gray-Black	Silty sandy (F-C), clay, little	ML
	2-3					Gray-Black	F-C L.S. gravel, unsorted	ML
	3-4		4.0		Stiff	Gray-Black	fill material moist @ 5'	ML
5-2	4-5		4.0			Gray-Black		15.45 OVM= 1.3
	5-6				V. Stiff	Gray-Black	Silty, sandy (F), clay, trace-	CL
	6-7					Gray-Black	Little F-C Gravel, dry-most	CL
	7-8		4.0		V. Stiff	Gray-Black		OVM= 2.1
							Bottom of Bay = 8.0'	

MARKS • Photograph of samples

16730 Spoke w/ D. Thorne

BORING SP-16

PAGE 1 of 1

BORING LOG

PROJECT: PP6 OAK CREEK

BORING NO GP-17

PROJECT NO.: 120208-101-1

DATE: 6-19-2007

DRILLER: Jack Rice

ELEVATION: 99.63

FIELD GEOLOGIST J. Peterson

WATER LEVEL DATA:

(Date, Time & Conditions)

SAMPLE NO	DEPTH (FT)	BLOWS (1" OR 100)	SAMPLE RECOVERY (%)	LITHOLOGY CHANGE (NUMBER) OR SCREENED INTERVAL	MATERIAL DESCRIPTION			REMARKS	
					100. DENSITY COMPACTION OR ROCK MASSAGE	COLOR	MATERIAL CLASSIFICATION		
S-1	0-1	P	3.5	/	SOFT	Light Brown	Sandy (F) SILT, grading to	ML	04:30 OVM = 0.2
	1-2	V			Brown	Silty sandy clay moist	CL		
	2-3	S			STIFF	Brown	Silty, Sandy (F) clay, trace	CL	OVM = 0.0
	3-4	H			Brown	f-m, rounded gravel, moist	CL	FEEL LIKE SAND = 0	
S-2	4-5	P	3.7	/	STIFF	Brown		CL	16:30 OVM = 0.2
	5-6	V			Brown		CL		
	6-7	S			V. STIFF	Brown-gray		CL	OVM = 0.5
	7-8	H			Brown-gray	Sandy (F) CLAYEY SILT	ML		
S-3	8-9	P	3.6	/	V. STIFF	Gray	moist or sandy (F) SILTY CLAY	ML	16:50 OVM = 0.5
	9-10	V			Gray		ML/CL		
	10-11	S			V. STIFF	Gray		ML/CL	OVM = 0.7
	11-12	H			Gray		ML/CL		
					Bottom of Bore = 12.0'				

MARKS: NO SIGNS of H₂O.

BORING GP-17

PAGE 1 of 1

BORING LOG

PROJECT: PPG Oak Creek Wisconsin BORING NO: MW-6
 PROJECT NO.: 130208/1011 DATE: 6-20-2002 DRILLER: Jack Zielz
 ELEVATION: 93.25 FIELD GEOLOGIST: J. Ferguson
 WATER LEVEL DATA:
 (Date, Time & Conditions)

SAMPLE NO	DEPTH FEET	BLOWS 6" OR 100 FEET SAMPLE LENGTH	LITHOLOGY CHANGE (SOUNDINGS OR SCREENED INTERVAL)	MATERIAL DESCRIPTION			REMARKS
				SOIL DENSITY CORRECTED OR ROCK HARDNESS	COLOR	MATERIAL CLASSIFICATION	
	0-1					Concrete 0-6"	
	1-2					Gravel sub base 6"-2'	
5-1	2-3	12 / 11	1.75	V. STIFF	DRY BROWN	Silty, sandy (F) clay, trace fine	CC 15:29 ovm = 2.9
	3-4	16 / 11	2.0		BROWN	dry sand, mottled, moist	CC
5-2	4-5	17 / 10	1.80	V. STIFF	BROWN		CC 15:35 ovm = 2.6
	5-6	15 / 11	2.0		BROWN		CC
5-3	6-7	14 / 7		V. STIFF	DRY BROWN		CC 15:40 ovm = 3.1
	7-8	14 / 14	2.0	M. Dense	Brown	Silt, Fine-Coarse Sand wet	SM
5-4	8-9	14 / 9	1.8	M. Dense	Gray	Fine-Coarse Sand wet	SP 15:45 ovm = 3.9
	9-10	10 / 10	2.0		Gray		SP
5-5	10-11	15 / 7	1.8	M. Dense	Gray		SP 15:50 ovm = 3.5
	11-12	8 / 12	2.6	STIFF	Gray	Sandy (F) silty clay, moist plastic	SP

MARKS = SET 5' screen from 7'-12', sand pack from 10'-12'

BORING MW-6

PAGE 1 of 1

ATTACHMENT B

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code	
Lab Code	5041209A					Sample Type	Soil			
Sample ID	PPG-SS64055					Sample Date	6/18/2002			

Inorganic

General

Solids Percent	94.7	%				1	6/26/2002	5021	AJV	1
----------------	------	---	--	--	--	---	-----------	------	-----	---

Organic

General

Gasoline Range Organics	71	mg/kg	0.79	2.5	1	6/26/2002	GRO95/8021		SJV	1
-------------------------	----	-------	------	-----	---	-----------	------------	--	-----	---

VOC's

Benzene	< 25	ug/kg	8.2	26	1	6/28/2002	8260B		CJR	1
Bromobenzene	< 25	ug/kg	8.5	27	1	6/28/2002	8260B		CJR	1
Bromodichloromethane	< 25	ug/kg	7.2	23	1	6/28/2002	8260B		CJR	1
tert-Butylbenzene	< 25	ug/kg	6.5	21	1	6/28/2002	8260B		CJR	1
sec-Butylbenzene	110	ug/kg	7.4	24	1	6/28/2002	8260B		CJR	1
n-Butylbenzene	140	ug/kg	7.2	23	1	6/28/2002	8260B		CJR	1
Carbon Tetrachloride	< 25	ug/kg	10	31	1	6/28/2002	8260B		CJR	1
Chlorobenzene	< 25	ug/kg	7.7	24	1	6/28/2002	8260B		CJR	1
Chloroethane	< 25	ug/kg	9	29	1	6/28/2002	8260B		CJR	1
Chloroform	< 25	ug/kg	5.9	19	1	6/28/2002	8260B		CJR	1
Chloromethane	< 25	ug/kg	6.5	21	1	6/28/2002	8260B		CJR	1
2-Chlorotoluene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B		CJR	1
4-Chlorotoluene	< 25	ug/kg	5.8	18	1	6/28/2002	8260B		CJR	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	20	62	1	6/28/2002	8260B		CJR	1
Dibromochloromethane	< 25	ug/kg	4.3	14	1	6/28/2002	8260B		CJR	1
1,4-Dichlorobenzene	< 25	ug/kg	6.2	20	1	6/28/2002	8260B		CJR	1
1,3-Dichlorobenzene	< 25	ug/kg	6.4	20	1	6/28/2002	8260B		CJR	1
1,2-Dichlorobenzene	< 25	ug/kg	4.9	15	1	6/28/2002	8260B		CJR	1
Dichlorodifluoromethane	< 25	ug/kg	22	69	1	6/28/2002	8260B		CJR	1
1,2-Dichloroethane	< 25	ug/kg	7.8	25	1	6/28/2002	8260B		CJR	1
1,1-Dichloroethane	< 25	ug/kg	8.2	26	1	6/28/2002	8260B		CJR	1
1,1-Dichloroethene	< 25	ug/kg	10	30	1	6/28/2002	8260B		CJR	2
cis-1,2-Dichloroethene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B		CJR	1
trans-1,2-Dichloroethene	< 25	ug/kg	6.3	20	1	6/28/2002	8260B		CJR	2
1,2-Dichloropropane	< 25	ug/kg	4.7	15	1	6/28/2002	8260B		CJR	1
2,2-Dichloropropane	< 25	ug/kg	11	36	1	6/28/2002	8260B		CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209A						Sample Type Soil			
Sample ID PPG-SS64055						Sample Date 6/18/2002			
1,3-Dichloropropane	< 25	ug/kg	5.5	17	1	6/28/2002	8260B	CJR	1
Di-isopropyl ether	< 25	ug/kg	6.7	21	1	6/28/2002	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 25	ug/kg	5.3	17	1	6/28/2002	8260B	CJR	1
Ethylbenzene	5700	ug/kg	7.4	23	1	6/28/2002	8260B	CJR	1
Hexachlorobutadiene	< 25	ug/kg	17	54	1	6/28/2002	8260B	CJR	1
Isopropylbenzene	320	ug/kg	8	26	1	6/28/2002	8260B	CJR	1
p-Isopropyltoluene	46	ug/kg	6.8	22	1	6/28/2002	8260B	CJR	1
Methylene chloride	< 25	ug/kg	7.9	25	1	6/28/2002	8260B	CJR	2
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.4	27	1	6/28/2002	8260B	CJR	1
Naphthalene	< 25	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
n-Propylbenzene	1100	ug/kg	8.6	27	1	6/28/2002	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	5.2	17	1	6/28/2002	8260B	CJR	1
Tetrachloroethene	< 25	ug/kg	9.2	29	1	6/28/2002	8260B	CJR	1
Toluene	28	ug/kg	8.8	28	1	6/28/2002	8260B	CJR	1
1,2,4-Trichlorobenzene	< 25	ug/kg	8	25	1	6/28/2002	8260B	CJR	1
1,2,3-Trichlorobenzene	< 25	ug/kg	8.3	26	1	6/28/2002	8260B	CJR	1
1,1,1-Trichloroethane	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
1,1,2-Trichloroethane	< 25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	1
Trichloroethene (TCE)	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
Trichlorofluoromethane	< 25	ug/kg	18	57	1	6/28/2002	8260B	CJR	1
1,2,4-Trimethylbenzene	5600	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
1,3,5-Trimethylbenzene	1700	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
Vinyl Chloride	< 25	ug/kg	10	33	1	6/28/2002	8260B	CJR	1
m&p-Xylene	25000	ug/kg	13	41	1	6/28/2002	8260B	CJR	1
o-Xylene	10000	ug/kg	4.2	13	1	6/28/2002	8260B	CJR	1
Lab Code 5041209B						Sample Type Water			
Sample ID PPG-GW61419						Sample Date 6/18/2002			

Organic

General

Gasoline Range Organics 40000 ug/l 310 1000 10 6/29/2002 GRO95/8021 CAH 1 72

VOC's

Benzene < 8 ug/l 8 27 100 7/2/2002 8260B CJR 1 72

Bromobenzene < 23 ug/l 23 83 100 7/2/2002 8260B CJR 1 72

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209B						Sample Type Water			
Sample ID PPG-GW61419						Sample Date 6/18/2002			
Bromodichloromethane	< 6	ug/l	6	20	100	7/2/2002	8260B	CJR	7 72
tert-Butylbenzene	< 8	ug/l	8	28	100	7/2/2002	8260B	CJR	1 72
sec-Butylbenzene	23 "J"	ug/l	10	36	100	7/2/2002	8260B	CJR	1 72
n-Butylbenzene	23 "J"	ug/l	11	37	100	7/2/2002	8260B	CJR	1 72
Carbon Tetrachloride	< 20	ug/l	20	69	100	7/2/2002	8260B	CJR	1 72
Chlorobenzene	< 5	ug/l	5	17	100	7/2/2002	8260B	CJR	1 72
Chloroethane	< 60	ug/l	60	210	100	7/2/2002	8260B	CJR	1 72
Chloroform	< 10	ug/l	10	36	100	7/2/2002	8260B	CJR	1 72
Chloromethane	< 40	ug/l	44	150	100	7/2/2002	8260B	CJR	1 72
2-Chlorotoluene	< 16	ug/l	16	56	100	7/2/2002	8260B	CJR	1 72
4-Chlorotoluene	< 32	ug/l	32	110	100	7/2/2002	8260B	CJR	1 72
1,2-Dibromo-3-chloropropane	< 9	ug/l	9	32	100	7/2/2002	8260B	CJR	1 72
Dibromochloromethane	< 6	ug/l	6	22	100	7/2/2002	8260B	CJR	1 72
1,4-Dichlorobenzene	< 31	ug/l	31	110	100	7/2/2002	8260B	CJR	1 72
1,3-Dichlorobenzene	< 10	ug/l	10	37	100	7/2/2002	8260B	CJR	1 72
1,2-Dichlorobenzene	< 11	ug/l	11	38	100	7/2/2002	8260B	CJR	1 72
Dichlorodifluoromethane	< 22	ug/l	22	79	100	7/2/2002	8260B	CJR	1 72
1,2-Dichloroethane	< 12	ug/l	12	42	100	7/2/2002	8260B	CJR	1 72
1,1-Dichloroethane	< 15	ug/l	15	52	100	7/2/2002	8260B	CJR	1 72
1,1-Dichloroethene	< 11	ug/l	11	38	100	7/2/2002	8260B	CJR	1 72
cis-1,2-Dichloroethene	< 11	ug/l	11	38	100	7/2/2002	8260B	CJR	1 72
trans-1,2-Dichloroethene	< 11	ug/l	11	40	100	7/2/2002	8260B	CJR	1 72
1,2-Dichloropropane	< 9	ug/l	9	31	100	7/2/2002	8260B	CJR	1 72
2,2-Dichloropropane	< 150	ug/l	150	500	100	7/2/2002	8260B	CJR	1 72
1,3-Dichloropropane	< 9	ug/l	9	31	100	7/2/2002	8260B	CJR	1 72
Di-isopropyl ether	< 6	ug/l	6	22	100	7/2/2002	8260B	CJR	1 72
FDB (1,2-Dibromoethane)	< 19	ug/l	19	66	100	7/2/2002	8260B	CJR	1 72
Ethylbenzene	4200	ug/l	8	28	100	7/2/2002	8260B	CJR	1 72
Hexachlorobutadiene	< 17	ug/l	17	59	100	7/2/2002	8260B	CJR	1 72
Isopropylbenzene	140	ug/l	7	24	100	7/2/2002	8260B	CJR	1 72
p-Isopropyltoluene	< 12	ug/l	12	41	100	7/2/2002	8260B	CJR	1 72
Methylene chloride	< 24	ug/l	24	83	100	7/2/2002	8260B	CJR	1 72
Methyl tert-butyl ether (MTBE)	< 7	ug/l	7	26	100	7/2/2002	8260B	CJR	1 72
Naphthalene	< 10	ug/l	10	34	100	7/2/2002	8260B	CJR	1 72

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209B							Sample Type Water		
Sample ID PPG-GW61419						Sample Date 6/18/2002			
n-Propylbenzene	370	ug/l	15	54	100	7/2/2002	8260B	CJR	1 72
1,1,2,2-Tetrachloroethane	< 11	ug/l	11	40	100	7/2/2002	8260B	CJR	1 72
Tetrachloroethene	< 15	ug/l	15	52	100	7/2/2002	8260B	CJR	1 72
Toluene	36	ug/l	8	29	100	7/2/2002	8260B	CJR	1 72
1,2,4-Trichlorobenzene	< 28	ug/l	28	100	100	7/2/2002	8260B	CJR	1 72
1,2,3-Trichlorobenzene	< 9	ug/l	9	33	100	7/2/2002	8260B	CJR	1 72
1,1,1-Trichloroethane	< 14	ug/l	14	49	100	7/2/2002	8260B	CJR	1 72
1,1,2-Trichloroethane	< 19	ug/l	19	68	100	7/2/2002	8260B	CJR	1 72
Trichloroethene (TCE)	< 13	ug/l	13	44	100	7/2/2002	8260B	CJR	1 72
Trichlorofluoromethane	< 21	ug/l	21	74	100	7/2/2002	8260B	CJR	1 72
1,2,4-Trimethylbenzene	2200	ug/l	11	38	100	7/2/2002	8260B	CJR	1 72
1,3,5-Trimethylbenzene	660	ug/l	8	29	100	7/2/2002	8260B	CJR	1 72
Vinyl Chloride	< 16	ug/l	16	56	100	7/2/2002	8260B	CJR	1 72
m&p-Xylene	20000	ug/l	21	74	100	7/2/2002	8260B	CJR	1 72
o-Xylene	8100	ug/l	13	45	100	7/2/2002	8260B	CJR	1 72
Lab Code 5041209C							Sample Type Soil		
Sample ID PPG-SS70608						Sample Date 6/18/2002			

Inorganic

General

Solids Percent	88.0	%				1	6/26/2002	5021	AJV	1
----------------	------	---	--	--	--	---	-----------	------	-----	---

Organic

General

Gasoline Range Organics	< 10	mg/kg	0.79	2.5	1	6/26/2002	GRO95/8021		SJV	1
-------------------------	------	-------	------	-----	---	-----------	------------	--	-----	---

VOC's

Benzene	< 25	ug/kg	8.2	26	1	6/28/2002	8260B		CJR	1
Bromobenzene	< 25	ug/kg	8.5	27	1	6/28/2002	8260B		CJR	1
Bromodichloromethane	< 25	ug/kg	7.2	23	1	6/28/2002	8260B		CJR	1
tert-Butylbenzene	< 25	ug/kg	6.5	21	1	6/28/2002	8260B		CJR	1
sec-Butylbenzene	< 25	ug/kg	7.4	24	1	6/28/2002	8260B		CJR	1
n-Butylbenzene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B		CJR	1
Carbon Tetrachloride	< 25	ug/kg	10	31	1	6/28/2002	8260B		CJR	1
Chlorobenzene	8000	ug/kg	7.7	24	1	6/28/2002	8260B		CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209C						Sample Type Soil			
Sample ID PPG-SS70608						Sample Date 6/18/2002			
Chloroethane	< 25	ug/kg	9	29	1	6/28/2002	8260B	CJR	1
Chloroform	< 25	ug/kg	5.9	19	1	6/28/2002	8260B	CJR	1
Chloromethane	< 25	ug/kg	6.5	21	1	6/28/2002	8260B	CJR	1
2-Chlorotoluene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
4-Chlorotoluene	< 25	ug/kg	5.8	18	1	6/28/2002	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	20	62	1	6/28/2002	8260B	CJR	1
Dibromochloromethane	< 25	ug/kg	4.3	14	1	6/28/2002	8260B	CJR	1
1,4-Dichlorobenzene	670	ug/kg	6.2	20	1	6/28/2002	8260B	CJR	1
1,3-Dichlorobenzene	36	ug/kg	6.4	20	1	6/28/2002	8260B	CJR	1
1,2-Dichlorobenzene	260	ug/kg	4.9	15	1	6/28/2002	8260B	CJR	1
Dichlorodifluoromethane	< 25	ug/kg	22	69	1	6/28/2002	8260B	CJR	1
1,2-Dichloroethane	< 25	ug/kg	7.8	25	1	6/28/2002	8260B	CJR	1
1,1-Dichloroethane	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
1,1-Dichloroethene	< 25	ug/kg	10	30	1	6/28/2002	8260B	CJR	2
cis-1,2-Dichloroethene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
trans-1,2-Dichloroethene	< 25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	2
1,2-Dichloropropane	< 25	ug/kg	4.7	15	1	6/28/2002	8260B	CJR	1
2,2-Dichloropropane	< 25	ug/kg	11	36	1	6/28/2002	8260B	CJR	1
1,3-Dichloropropane	< 25	ug/kg	5.5	17	1	6/28/2002	8260B	CJR	1
Di-isopropyl ether	< 25	ug/kg	6.7	21	1	6/28/2002	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 25	ug/kg	5.3	17	1	6/28/2002	8260B	CJR	1
Ethylbenzene	49	ug/kg	7.4	23	1	6/28/2002	8260B	CJR	1
Hexachlorobutadiene	< 25	ug/kg	17	54	1	6/28/2002	8260B	CJR	1
Isopropylbenzene	< 25	ug/kg	8	26	1	6/28/2002	8260B	CJR	1
p-Isopropyltoluene	< 25	ug/kg	6.8	22	1	6/28/2002	8260B	CJR	1
Methylene chloride	< 25	ug/kg	7.9	25	1	6/28/2002	8260B	CJR	2
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.4	27	1	6/28/2002	8260B	CJR	1
Naphthalene	28	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
n-Propylbenzene	33	ug/kg	8.6	27	1	6/28/2002	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	5.2	17	1	6/28/2002	8260B	CJR	1
Tetrachloroethene	< 25	ug/kg	9.2	29	1	6/28/2002	8260B	CJR	1
Toluene	< 25	ug/kg	8.8	28	1	6/28/2002	8260B	CJR	1
1,2,4-Trichlorobenzene	< 25	ug/kg	8	25	1	6/28/2002	8260B	CJR	1
1,2,3-Trichlorobenzene	< 25	ug/kg	8.3	26	1	6/28/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209C						Sample Type Soil			
Sample ID PPG-SS70608						Sample Date 6/18/2002			
1,1,1-Trichloroethane	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
1,1,2-Trichloroethane	< 25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	1
Trichloroethene (TCE)	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
Trichlorofluoromethane	< 25	ug/kg	18	57	1	6/28/2002	8260B	CJR	1
1,2,4-Trimethylbenzene	40	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
Vinyl Chloride	< 25	ug/kg	10	33	1	6/28/2002	8260B	CJR	1
m&p-Xylene	71	ug/kg	13	41	1	6/28/2002	8260B	CJR	1
o-Xylene	32	ug/kg	4.2	13	1	6/28/2002	8260B	CJR	1
Lab Code 5041209D						Sample Type Water			
Sample ID PPG-GW71520						Sample Date 6/18/2002			

Organic

General

Gasoline Range Organics 7000 ug/l 31 100 1 6/29/2002 GRO95/8021 CAH 172

VOC's

Benzene	< 4	ug/l	4	14	50	7/2/2002	8260B	CJR	172
Bromobenzene	< 12	ug/l	12	42	50	7/2/2002	8260B	CJR	172
Bromodichloromethane	< 3	ug/l	3	10	50	7/2/2002	8260B	CJR	7 72
tert-Butylbenzene	< 4	ug/l	4	14	50	7/2/2002	8260B	CJR	172
sec-Butylbenzene	< 5	ug/l	5	18	50	7/2/2002	8260B	CJR	172
n-Butylbenzene	< 5.5	ug/l	5.5	19	50	7/2/2002	8260B	CJR	172
Carbon Tetrachloride	< 10	ug/l	10	35	50	7/2/2002	8260B	CJR	172
Chlorobenzene	61	ug/l	2.5	8.5	50	7/2/2002	8260B	CJR	172
Chloroethane	< 30	ug/l	30	110	50	7/2/2002	8260B	CJR	172
Chloroform	< 5	ug/l	5	18	50	7/2/2002	8260B	CJR	172
Chloromethane	< 20	ug/l	22	75	50	7/2/2002	8260B	CJR	172
2-Chlorotoluene	< 8	ug/l	8	28	50	7/2/2002	8260B	CJR	172
4-Chlorotoluene	< 16	ug/l	16	55	50	7/2/2002	8260B	CJR	172
1,2-Dibromo-3-chloropropane	< 4.5	ug/l	4.5	16	50	7/2/2002	8260B	CJR	172
Dibromochloromethane	< 3	ug/l	3	11	50	7/2/2002	8260B	CJR	172
1,4-Dichlorobenzene	< 16	ug/l	16	55	50	7/2/2002	8260B	CJR	172
1,3-Dichlorobenzene	< 5	ug/l	5	19	50	7/2/2002	8260B	CJR	172
1,2-Dichlorobenzene	< 5.5	ug/l	5.5	19	50	7/2/2002	8260B	CJR	172

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209D						Sample Type Water			
Sample ID PPG-GW71520						Sample Date 6/18/2002			
Dichlorodifluoromethane	< 11	ug/l	11	40	50	7/2/2002	8260B	CJR	1 72
1,2-Dichloroethane	< 6	ug/l	6	21	50	7/2/2002	8260B	CJR	1 72
1,1-Dichloroethane	< 7.5	ug/l	7.5	26	50	7/2/2002	8260B	CJR	1 72
1,1-Dichloroethene	< 5.5	ug/l	5.5	19	50	7/2/2002	8260B	CJR	1 72
cis-1,2-Dichloroethene	< 5.5	ug/l	5.5	19	50	7/2/2002	8260B	CJR	1 72
trans-1,2-Dichloroethene	< 5.5	ug/l	5.5	20	50	7/2/2002	8260B	CJR	1 72
1,2-Dichloropropane	< 4.5	ug/l	4.5	16	50	7/2/2002	8260B	CJR	1 72
2,2-Dichloropropane	< 75	ug/l	75	250	50	7/2/2002	8260B	CJR	1 72
1,3-Dichloropropane	< 4.5	ug/l	4.5	16	50	7/2/2002	8260B	CJR	1 72
Di-isopropyl ether	< 3	ug/l	3	11	50	7/2/2002	8260B	CJR	1 72
EDB (1,2-Dibromoethane)	< 10	ug/l	10	33	50	7/2/2002	8260B	CJR	1 72
Ethylbenzene	840	ug/l	4	14	50	7/2/2002	8260B	CJR	1 72
Hexachlorobutadiene	< 8.5	ug/l	8.5	30	50	7/2/2002	8260B	CJR	1 72
Isopropylbenzene	< 3.5	ug/l	3.5	12	50	7/2/2002	8260B	CJR	1 72
p-Isopropyltoluene	< 6	ug/l	6	21	50	7/2/2002	8260B	CJR	1 72
Methylene chloride	29 "J"	ug/l	12	42	50	7/2/2002	8260B	CJR	1 72
Methyl tert-butyl ether (MTBE)	< 3.5	ug/l	3.5	13	50	7/2/2002	8260B	CJR	1 72
Naphthalene	< 5	ug/l	5	17	50	7/2/2002	8260B	CJR	1 72
n-Propylbenzene	13 "J"	ug/l	7.5	27	50	7/2/2002	8260B	CJR	1 72
1,1,2,2-Tetrachloroethane	< 5.5	ug/l	5.5	20	50	7/2/2002	8260B	CJR	1 72
Tetrachloroethene	< 7.5	ug/l	7.5	26	50	7/2/2002	8260B	CJR	1 72
Toluene	< 4	ug/l	4	15	50	7/2/2002	8260B	CJR	1 72
1,2,4-Trichlorobenzene	< 14	ug/l	14	50	50	7/2/2002	8260B	CJR	1 72
1,2,3-Trichlorobenzene	< 4.5	ug/l	4.5	17	50	7/2/2002	8260B	CJR	1 72
1,1,1-Trichloroethane	< 7	ug/l	7	25	50	7/2/2002	8260B	CJR	1 72
1,1,2-Trichloroethane	< 10	ug/l	10	34	50	7/2/2002	8260B	CJR	1 72
Trichloroethene (TCE)	< 6.5	ug/l	6.5	22	50	7/2/2002	8260B	CJR	1 72
Trichlorofluoromethane	< 11	ug/l	11	37	50	7/2/2002	8260B	CJR	1 72
1,2,4-Trimethylbenzene	110	ug/l	5.5	19	50	7/2/2002	8260B	CJR	1 72
1,3,5-Trimethylbenzene	30	ug/l	4	15	50	7/2/2002	8260B	CJR	1 72
Vinyl Chloride	< 8	ug/l	8	28	50	7/2/2002	8260B	CJR	1 72
m&p-Xylene	3600	ug/l	11	37	50	7/2/2002	8260B	CJR	1 72
o-Xylene	1300	ug/l	6.5	23	50	7/2/2002	8260B	CJR	1 72

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5041209E						Sample Type	Soil	
Sample ID	PPG-SS111214						Sample Date	6/18/2002	

Inorganic

General

Solids Percent	88.9	%				1	6/26/2002	5021	AJV	1
----------------	------	---	--	--	--	---	-----------	------	-----	---

Organic

General

Gasoline Range Organics	< 10	mg/kg	0.79	2.5	1	6/27/2002	GRO95/8021		SJV	1
-------------------------	------	-------	------	-----	---	-----------	------------	--	-----	---

VOC's

Benzene	< 25	ug/kg	8.2	26	1	7/1/2002	8260B		CJR	1
Bromobenzene	< 25	ug/kg	8.5	27	1	7/1/2002	8260B		CJR	1
Bromodichloromethane	< 25	ug/kg	7.2	23	1	7/1/2002	8260B		CJR	1
tert-Butylbenzene	< 25	ug/kg	6.5	21	1	7/1/2002	8260B		CJR	1
sec-Butylbenzene	< 25	ug/kg	7.4	24	1	7/1/2002	8260B		CJR	1
n-Butylbenzene	< 25	ug/kg	7.2	23	1	7/1/2002	8260B		CJR	1
Carbon Tetrachloride	< 25	ug/kg	10	31	1	7/1/2002	8260B		CJR	1
Chlorobenzene	< 25	ug/kg	7.7	24	1	7/1/2002	8260B		CJR	1
Chloroethane	< 25	ug/kg	9	29	1	7/1/2002	8260B		CJR	1
Chloroform	< 25	ug/kg	5.9	19	1	7/1/2002	8260B		CJR	1
Chloromethane	< 25	ug/kg	6.5	21	1	7/1/2002	8260B		CJR	1
2-Chlorotoluene	< 25	ug/kg	7.2	23	1	7/1/2002	8260B		CJR	1
4-Chlorotoluene	< 25	ug/kg	5.8	18	1	7/1/2002	8260B		CJR	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	20	62	1	7/1/2002	8260B		CJR	1
Dibromochloromethane	< 25	ug/kg	4.3	14	1	7/1/2002	8260B		CJR	1
1,4-Dichlorobenzene	< 25	ug/kg	6.2	20	1	7/1/2002	8260B		CJR	1
1,3-Dichlorobenzene	< 25	ug/kg	6.4	20	1	7/1/2002	8260B		CJR	1
1,2-Dichlorobenzene	< 25	ug/kg	4.9	15	1	7/1/2002	8260B		CJR	1
Dichlorodifluoromethane	< 25	ug/kg	22	69	1	7/1/2002	8260B		CJR	1
1,2-Dichloroethane	< 25	ug/kg	7.8	25	1	7/1/2002	8260B		CJR	1
1,1-Dichloroethane	< 25	ug/kg	8.2	26	1	7/1/2002	8260B		CJR	1
1,1-Dichloroethene	< 25	ug/kg	10	30	1	7/1/2002	8260B		CJR	1
cis-1,2-Dichloroethene	< 25	ug/kg	7.2	23	1	7/1/2002	8260B		CJR	1
trans-1,2-Dichloroethene	< 25	ug/kg	6.3	20	1	7/1/2002	8260B		CJR	1
1,2-Dichloropropane	< 25	ug/kg	4.7	15	1	7/1/2002	8260B		CJR	1
2,2-Dichloropropane	< 25	ug/kg	11	36	1	7/1/2002	8260B		CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209E						Sample Type Soil			
Sample ID PPG-SS111214						Sample Date 6/18/2002			
1,3-Dichloropropane	< 25	ug/kg	5.5	17	1	7/1/2002	8260B	CJR	1
Di-isopropyl ether	< 25	ug/kg	6.7	21	1	7/1/2002	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 25	ug/kg	5.3	17	1	7/1/2002	8260B	CJR	1
Ethylbenzene	< 25	ug/kg	7.4	23	1	7/1/2002	8260B	CJR	1
Hexachlorobutadiene	< 25	ug/kg	17	54	1	7/1/2002	8260B	CJR	1
Isopropylbenzene	< 25	ug/kg	8	26	1	7/1/2002	8260B	CJR	1
p-Isopropyltoluene	< 25	ug/kg	6.8	22	1	7/1/2002	8260B	CJR	1
Methylene chloride	< 25	ug/kg	7.9	25	1	7/1/2002	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.4	27	1	7/1/2002	8260B	CJR	1
Naphthalene	< 25	ug/kg	5.6	18	1	7/1/2002	8260B	CJR	1
n-Propylbenzene	< 25	ug/kg	8.6	27	1	7/1/2002	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	5.2	17	1	7/1/2002	8260B	CJR	1
Tetrachloroethene	< 25	ug/kg	9.2	29	1	7/1/2002	8260B	CJR	1
Toluene	< 25	ug/kg	8.8	28	1	7/1/2002	8260B	CJR	1
1,2,4-Trichlorobenzene	< 25	ug/kg	8	25	1	7/1/2002	8260B	CJR	1
1,2,3-Trichlorobenzene	< 25	ug/kg	8.3	26	1	7/1/2002	8260B	CJR	1
1,1,1-Trichloroethane	< 25	ug/kg	10	31	1	7/1/2002	8260B	CJR	1
1,1,2-Trichloroethane	< 25	ug/kg	6.3	20	1	7/1/2002	8260B	CJR	1
Trichloroethene (TCE)	< 25	ug/kg	10	31	1	7/1/2002	8260B	CJR	1
Trichlorofluoromethane	< 25	ug/kg	18	57	1	7/1/2002	8260B	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	8.2	26	1	7/1/2002	8260B	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	5.6	18	1	7/1/2002	8260B	CJR	1
Vinyl Chloride	< 25	ug/kg	10	33	1	7/1/2002	8260B	CJR	1
m&p-Xylene	< 50	ug/kg	13	41	1	7/1/2002	8260B	CJR	1
o-Xylene	< 25	ug/kg	4.2	13	1	7/1/2002	8260B	CJR	1

Lab Code 5041209F						Sample Type Water			
Sample ID PPG-GW110919						Sample Date 6/19/2002			

Organic

General

Gasoline Range Organics < 100 ug/l 31 100 1 6/28/2002 GRO95/8021 CAH 1 72

VOC's

Benzene < 0.08 ug/l 0.08 0.27 1 7/2/2002 8260B CJR 1
Bromobenzene < 0.23 ug/l 0.23 0.83 1 7/2/2002 8260B CJR 1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209F						Sample Type Water			
Sample ID PPG-GW110919						Sample Date 6/19/2002			
Bromodichloromethane	< 0.06	ug/l	0.06	0.2	1	7/2/2002	8260B	CJR	7
tert-Butylbenzene	< 0.08	ug/l	0.08	0.28	1	7/2/2002	8260B	CJR	1
sec-Butylbenzene	< 0.1	ug/l	0.1	0.36	1	7/2/2002	8260B	CJR	1
n-Butylbenzene	< 0.11	ug/l	0.11	0.37	1	7/2/2002	8260B	CJR	1
Carbon Tetrachloride	< 0.2	ug/l	0.2	0.69	1	7/2/2002	8260B	CJR	1
Chlorobenzene	< 0.05	ug/l	0.05	0.17	1	7/2/2002	8260B	CJR	1
Chloroethane	< 0.6	ug/l	0.6	2.1	1	7/2/2002	8260B	CJR	1
Chloroform	< 0.1	ug/l	0.1	0.36	1	7/2/2002	8260B	CJR	1
Chloromethane	< 0.4	ug/l	0.44	1.5	1	7/2/2002	8260B	CJR	1
2-Chlorotoluene	< 0.16	ug/l	0.16	0.56	1	7/2/2002	8260B	CJR	1
4-Chlorotoluene	< 0.32	ug/l	0.32	1.1	1	7/2/2002	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.09	ug/l	0.09	0.32	1	7/2/2002	8260B	CJR	1
Dibromochloromethane	< 0.06	ug/l	0.06	0.22	1	7/2/2002	8260B	CJR	1
1,4-Dichlorobenzene	< 0.31	ug/l	0.31	1.1	1	7/2/2002	8260B	CJR	1
1,3-Dichlorobenzene	< 0.1	ug/l	0.1	0.37	1	7/2/2002	8260B	CJR	1
1,2-Dichlorobenzene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1
Dichlorodifluoromethane	< 0.22	ug/l	0.22	0.79	1	7/2/2002	8260B	CJR	1
1,2-Dichloroethane	< 0.12	ug/l	0.12	0.42	1	7/2/2002	8260B	CJR	1
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.52	1	7/2/2002	8260B	CJR	1
1,1-Dichloroethene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.11	ug/l	0.11	0.4	1	7/2/2002	8260B	CJR	1
1,2-Dichloropropane	< 0.09	ug/l	0.09	0.31	1	7/2/2002	8260B	CJR	1
2,2-Dichloropropane	< 1.5	ug/l	1.5	5	1	7/2/2002	8260B	CJR	1
1,3-Dichloropropane	< 0.09	ug/l	0.09	0.31	1	7/2/2002	8260B	CJR	1
Di-isopropyl ether	< 0.06	ug/l	0.06	0.22	1	7/2/2002	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.19	ug/l	0.19	0.66	1	7/2/2002	8260B	CJR	1
Ethylbenzene	1.5	ug/l	0.08	0.28	1	7/2/2002	8260B	CJR	1
Hexachlorobutadiene	< 0.17	ug/l	0.17	0.59	1	7/2/2002	8260B	CJR	1
Isopropylbenzene	< 0.07	ug/l	0.07	0.24	1	7/2/2002	8260B	CJR	1
p-Isopropyltoluene	< 0.12	ug/l	0.12	0.41	1	7/2/2002	8260B	CJR	1
Methylene chloride	< 0.24	ug/l	0.24	0.83	1	7/2/2002	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.07	ug/l	0.07	0.26	1	7/2/2002	8260B	CJR	1
Naphthalene	< 0.1	ug/l	0.1	0.34	1	7/2/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209F						Sample Type Water			
Sample ID PPG-GW110919						Sample Date 6/19/2002			
n-Propylbenzene	< 0.15	ug/l	0.15	0.54	1	7/2/2002	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.11	ug/l	0.11	0.4	1	7/2/2002	8260B	CJR	1
Tetrachloroethene	< 0.15	ug/l	0.15	0.52	1	7/2/2002	8260B	CJR	1
Toluene	0.26 "J"	ug/l	0.08	0.29	1	7/2/2002	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.28	ug/l	0.28	1	1	7/2/2002	8260B	CJR	1
1,2,3-Trichlorobenzene	< 0.09	ug/l	0.09	0.33	1	7/2/2002	8260B	CJR	1
1,1,1-Trichloroethane	< 0.14	ug/l	0.14	0.49	1	7/2/2002	8260B	CJR	1
1,1,2-Trichloroethane	< 0.19	ug/l	0.19	0.68	1	7/2/2002	8260B	CJR	1
Trichloroethene (TCE)	< 0.13	ug/l	0.13	0.44	1	7/2/2002	8260B	CJR	1
Trichlorofluoromethane	< 0.21	ug/l	0.21	0.74	1	7/2/2002	8260B	CJR	1
1,2,4-Trimethylbenzene	0.34 "J"	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1
1,3,5-Trimethylbenzene	< 0.08	ug/l	0.08	0.29	1	7/2/2002	8260B	CJR	1
Vinyl Chloride	< 0.16	ug/l	0.16	0.56	1	7/2/2002	8260B	CJR	1
m&p-Xylene	7	ug/l	0.21	0.74	1	7/2/2002	8260B	CJR	1
o-Xylene	3.8	ug/l	0.13	0.45	1	7/2/2002	8260B	CJR	1

Lab Code 5041209G						Sample Type Soil			
Sample ID PPG-SS121214						Sample Date 6/19/2002			

Inorganic

General

Solids Percent	87.0	%			1	6/26/2002	5021	AJV	1
----------------	------	---	--	--	---	-----------	------	-----	---

Organic

General

Gasoline Range Organics	< 10	mg/kg	0.79	2.5	1	6/27/2002	GRO95/8021	SJV	1
-------------------------	------	-------	------	-----	---	-----------	------------	-----	---

VOC's

Benzene	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
Bromobenzene	< 25	ug/kg	8.5	27	1	6/28/2002	8260B	CJR	1
Bromodichloromethane	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
tert-Butylbenzene	< 25	ug/kg	6.5	21	1	6/28/2002	8260B	CJR	1
sec-Butylbenzene	< 25	ug/kg	7.4	24	1	6/28/2002	8260B	CJR	1
n-Butylbenzene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
Carbon Tetrachloride	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
Chlorobenzene	< 25	ug/kg	7.7	24	1	6/28/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209G						Sample Type Soil			
Sample ID PPG-SS121214						Sample Date 6/19/2002			
Chloroethane	< 25	ug/kg	9	29	1	6/28/2002	8260B	CJR	1
Chloroform	< 25	ug/kg	5.9	19	1	6/28/2002	8260B	CJR	1
Chloromethane	< 25	ug/kg	6.5	21	1	6/28/2002	8260B	CJR	1
2-Chlorotoluene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
4-Chlorotoluene	< 25	ug/kg	5.8	18	1	6/28/2002	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	20	62	1	6/28/2002	8260B	CJR	1
Dibromochloromethane	< 25	ug/kg	4.3	14	1	6/28/2002	8260B	CJR	1
1,4-Dichlorobenzene	< 25	ug/kg	6.2	20	1	6/28/2002	8260B	CJR	1
1,3-Dichlorobenzene	< 25	ug/kg	6.4	20	1	6/28/2002	8260B	CJR	1
1,2-Dichlorobenzene	< 25	ug/kg	4.9	15	1	6/28/2002	8260B	CJR	1
Dichlorodifluoromethane	< 25	ug/kg	22	69	1	6/28/2002	8260B	CJR	1
1,2-Dichloroethane	< 25	ug/kg	7.8	25	1	6/28/2002	8260B	CJR	1
1,1-Dichloroethane	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
1,1-Dichloroethene	< 25	ug/kg	10	30	1	6/28/2002	8260B	CJR	2
cis-1,2-Dichloroethene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
trans-1,2-Dichloroethene	< 25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	2
1,2-Dichloropropane	< 25	ug/kg	4.7	15	1	6/28/2002	8260B	CJR	1
2,2-Dichloropropane	< 25	ug/kg	11	36	1	6/28/2002	8260B	CJR	1
1,3-Dichloropropane	< 25	ug/kg	5.5	17	1	6/28/2002	8260B	CJR	1
Di-isopropyl ether	< 25	ug/kg	6.7	21	1	6/28/2002	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 25	ug/kg	5.3	17	1	6/28/2002	8260B	CJR	1
Ethylbenzene	< 25	ug/kg	7.4	23	1	6/28/2002	8260B	CJR	1
Hexachlorobutadiene	< 25	ug/kg	17	54	1	6/28/2002	8260B	CJR	1
Isopropylbenzene	< 25	ug/kg	8	26	1	6/28/2002	8260B	CJR	1
p-Isopropyltoluene	< 25	ug/kg	6.8	22	1	6/28/2002	8260B	CJR	1
Methylene chloride	< 25	ug/kg	7.9	25	1	6/28/2002	8260B	CJR	2
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.4	27	1	6/28/2002	8260B	CJR	1
Naphthalene	< 25	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
n-Propylbenzene	< 25	ug/kg	8.6	27	1	6/28/2002	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	5.2	17	1	6/28/2002	8260B	CJR	1
Tetrachloroethene	< 25	ug/kg	9.2	29	1	6/28/2002	8260B	CJR	1
Toluene	< 25	ug/kg	8.8	28	1	6/28/2002	8260B	CJR	1
1,2,4-Trichlorobenzene	< 25	ug/kg	8	25	1	6/28/2002	8260B	CJR	1
1,2,3-Trichlorobenzene	< 25	ug/kg	8.3	26	1	6/28/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209G									
Sample ID PPG-SS121214						Sample Type Soil			
						Sample Date 6/19/2002			
1,1,1-Trichloroethane	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
1,1,2-Trichloroethane	< 25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	1
Trichloroethene (TCE)	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
Trichlorofluoromethane	< 25	ug/kg	18	57	1	6/28/2002	8260B	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
Vinyl Chloride	< 25	ug/kg	10	33	1	6/28/2002	8260B	CJR	1
m&p-Xylene	< 50	ug/kg	13	41	1	6/28/2002	8260B	CJR	1
o-Xylene	< 25	ug/kg	4.2	13	1	6/28/2002	8260B	CJR	1
Lab Code 5041209H									
Sample ID PPG-GW121020						Sample Type Water			
						Sample Date 6/19/2002			

Organic

General

Gasoline Range Organics < 100 ug/l 31 100 1 6/28/2002 GRO95/8021 CAH 1 72

VOC's

Benzene	< 0.08	ug/l	0.08	0.27	1	7/2/2002	8260B	CJR	1 72
Bromobenzene	< 0.23	ug/l	0.23	0.83	1	7/2/2002	8260B	CJR	1 72
Bromodichloromethane	< 0.06	ug/l	0.06	0.2	1	7/2/2002	8260B	CJR	7 72
tert-Butylbenzene	< 0.08	ug/l	0.08	0.28	1	7/2/2002	8260B	CJR	1 72
sec-Butylbenzene	< 0.1	ug/l	0.1	0.36	1	7/2/2002	8260B	CJR	1 72
n-Butylbenzene	< 0.11	ug/l	0.11	0.37	1	7/2/2002	8260B	CJR	1 72
Carbon Tetrachloride	< 0.2	ug/l	0.2	0.69	1	7/2/2002	8260B	CJR	1 72
Chlorobenzene	< 0.05	ug/l	0.05	0.17	1	7/2/2002	8260B	CJR	1 72
Chloroethane	< 0.6	ug/l	0.6	2.1	1	7/2/2002	8260B	CJR	1 72
Chloroform	< 0.1	ug/l	0.1	0.36	1	7/2/2002	8260B	CJR	1 72
Chloromethane	< 0.4	ug/l	0.44	1.5	1	7/2/2002	8260B	CJR	1 72
2-Chlorotoluene	< 0.16	ug/l	0.16	0.56	1	7/2/2002	8260B	CJR	1 72
4-Chlorotoluene	< 0.32	ug/l	0.32	1.1	1	7/2/2002	8260B	CJR	1 72
1,2-Dibromo-3-chloropropane	< 0.09	ug/l	0.09	0.32	1	7/2/2002	8260B	CJR	1 72
Dibromochloromethane	< 0.06	ug/l	0.06	0.22	1	7/2/2002	8260B	CJR	1 72
1,4-Dichlorobenzene	< 0.31	ug/l	0.31	1.1	1	7/2/2002	8260B	CJR	1 72
1,3-Dichlorobenzene	< 0.1	ug/l	0.1	0.37	1	7/2/2002	8260B	CJR	1 72
1,2-Dichlorobenzene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1 72

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code	
Lab Code	5041209H					Sample Type	Water			
Sample ID	PPG-GW121020					Sample Date	6/19/2002			
Dichlorodifluoromethane	< 0.22	ug/l	0.22	0.79	1	7/2/2002	8260B	CJR	172	
1,2-Dichloroethane	< 0.12	ug/l	0.12	0.42	1	7/2/2002	8260B	CJR	172	
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.52	1	7/2/2002	8260B	CJR	172	
1,1-Dichloroethene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	172	
cis-1,2-Dichloroethene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	172	
trans-1,2-Dichloroethene	< 0.11	ug/l	0.11	0.4	1	7/2/2002	8260B	CJR	172	
1,2-Dichloropropane	< 0.09	ug/l	0.09	0.31	1	7/2/2002	8260B	CJR	172	
2,2-Dichloropropane	< 1.5	ug/l	1.5	5	1	7/2/2002	8260B	CJR	172	
1,3-Dichloropropane	< 0.09	ug/l	0.09	0.31	1	7/2/2002	8260B	CJR	172	
Di-isopropyl ether	< 0.06	ug/l	0.06	0.22	1	7/2/2002	8260B	CJR	172	
EDB (1,2-Dibromoethane)	< 0.19	ug/l	0.19	0.66	1	7/2/2002	8260B	CJR	172	
Ethylbenzene	< 0.08	ug/l	0.08	0.28	1	7/2/2002	8260B	CJR	172	
Hexachlorobutadiene	< 0.17	ug/l	0.17	0.59	1	7/2/2002	8260B	CJR	172	
Isopropylbenzene	< 0.07	ug/l	0.07	0.24	1	7/2/2002	8260B	CJR	172	
p-Isopropyltoluene	< 0.12	ug/l	0.12	0.41	1	7/2/2002	8260B	CJR	172	
Methylene chloride	< 0.24	ug/l	0.24	0.83	1	7/2/2002	8260B	CJR	172	
Methyl tert-butyl ether (MTBE)	< 0.07	ug/l	0.07	0.26	1	7/2/2002	8260B	CJR	172	
Naphthalene	< 0.1	ug/l	0.1	0.34	1	7/2/2002	8260B	CJR	172	
n-Propylbenzene	< 0.15	ug/l	0.15	0.54	1	7/2/2002	8260B	CJR	172	
1,1,2,2-Tetrachloroethane	< 0.11	ug/l	0.11	0.4	1	7/2/2002	8260B	CJR	172	
Tetrachloroethene	< 0.15	ug/l	0.15	0.52	1	7/2/2002	8260B	CJR	172	
Toluene	< 0.08	ug/l	0.08	0.29	1	7/2/2002	8260B	CJR	172	
1,2,4-Trichlorobenzene	< 0.28	ug/l	0.28	1	1	7/2/2002	8260B	CJR	172	
1,2,3-Trichlorobenzene	< 0.09	ug/l	0.09	0.33	1	7/2/2002	8260B	CJR	172	
1,1,1-Trichloroethane	< 0.14	ug/l	0.14	0.49	1	7/2/2002	8260B	CJR	172	
1,1,2-Trichloroethane	< 0.19	ug/l	0.19	0.68	1	7/2/2002	8260B	CJR	172	
Trichloroethene (TCE)	< 0.13	ug/l	0.13	0.44	1	7/2/2002	8260B	CJR	172	
Trichlorofluoromethane	< 0.21	ug/l	0.21	0.74	1	7/2/2002	8260B	CJR	172	
1,2,4-Trimethylbenzene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	172	
1,3,5-Trimethylbenzene	< 0.08	ug/l	0.08	0.29	1	7/2/2002	8260B	CJR	172	
Vinyl Chloride	< 0.16	ug/l	0.16	0.56	1	7/2/2002	8260B	CJR	172	
m&p-Xylene	0.53 "J"	ug/l	0.21	0.74	1	7/2/2002	8260B	CJR	172	
o-Xylene	0.34 "J"	ug/l	0.13	0.45	1	7/2/2002	8260B	CJR	172	

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5041209I						Sample Type	Water	
Sample ID	PPG-GW141214						Sample Date	6/19/2002	

Organic

General

Gasoline Range Organics	< 100	ug/l	31	100	1	6/28/2002	GRO95/8021	CAH	1 72
-------------------------	-------	------	----	-----	---	-----------	------------	-----	------

VOC's

Benzene	< 0.08	ug/l	0.08	0.27	1	7/2/2002	8260B	CJR	1 72
Bromobenzene	< 0.23	ug/l	0.23	0.83	1	7/2/2002	8260B	CJR	1 72
Bromodichloromethane	< 0.06	ug/l	0.06	0.2	1	7/2/2002	8260B	CJR	7 72
tert-Butylbenzene	< 0.08	ug/l	0.08	0.28	1	7/2/2002	8260B	CJR	1 72
sec-Butylbenzene	< 0.1	ug/l	0.1	0.36	1	7/2/2002	8260B	CJR	1 72
n-Butylbenzene	< 0.11	ug/l	0.11	0.37	1	7/2/2002	8260B	CJR	1 72
Carbon Tetrachloride	< 0.2	ug/l	0.2	0.69	1	7/2/2002	8260B	CJR	1 72
Chlorobenzene	< 0.05	ug/l	0.05	0.17	1	7/2/2002	8260B	CJR	1 72
Chloroethane	< 0.6	ug/l	0.6	2.1	1	7/2/2002	8260B	CJR	1 72
Chloroform	< 0.1	ug/l	0.1	0.36	1	7/2/2002	8260B	CJR	1 72
Chloromethane	< 0.4	ug/l	0.44	1.5	1	7/2/2002	8260B	CJR	1 72
2-Chlorotoluene	< 0.16	ug/l	0.16	0.56	1	7/2/2002	8260B	CJR	1 72
4-Chlorotoluene	< 0.32	ug/l	0.32	1.1	1	7/2/2002	8260B	CJR	1 72
1,2-Dibromo-3-chloropropane	< 0.09	ug/l	0.09	0.32	1	7/2/2002	8260B	CJR	1 72
Dibromochloromethane	< 0.06	ug/l	0.06	0.22	1	7/2/2002	8260B	CJR	1 72
1,4-Dichlorobenzene	< 0.31	ug/l	0.31	1.1	1	7/2/2002	8260B	CJR	1 72
1,3-Dichlorobenzene	< 0.1	ug/l	0.1	0.37	1	7/2/2002	8260B	CJR	1 72
1,2-Dichlorobenzene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1 72
Dichlorodifluoromethane	< 0.22	ug/l	0.22	0.79	1	7/2/2002	8260B	CJR	1 72
1,2-Dichloroethane	< 0.12	ug/l	0.12	0.42	1	7/2/2002	8260B	CJR	1 72
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.52	1	7/2/2002	8260B	CJR	1 72
1,1-Dichloroethene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1 72
cis-1,2-Dichloroethene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1 72
trans-1,2-Dichloroethene	< 0.11	ug/l	0.11	0.4	1	7/2/2002	8260B	CJR	1 72
1,2-Dichloropropane	< 0.09	ug/l	0.09	0.31	1	7/2/2002	8260B	CJR	1 72
2,2-Dichloropropane	< 1.5	ug/l	1.5	5	1	7/2/2002	8260B	CJR	1 72
1,3-Dichloropropane	< 0.09	ug/l	0.09	0.31	1	7/2/2002	8260B	CJR	1 72
Di-isopropyl ether	< 0.06	ug/l	0.06	0.22	1	7/2/2002	8260B	CJR	1 72
EDB (1,2-Dibromoethane)	< 0.19	ug/l	0.19	0.66	1	7/2/2002	8260B	CJR	1 72
Ethylbenzene	5.5	ug/l	0.08	0.28	1	7/2/2002	8260B	CJR	1 72

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209I						Sample Type Water			
Sample ID PPG-GW141214						Sample Date 6/19/2002			
Hexachlorobutadiene	< 0.17	ug/l	0.17	0.59	1	7/2/2002	8260B	CJR	172
Isopropylbenzene	< 0.07	ug/l	0.07	0.24	1	7/2/2002	8260B	CJR	172
p-Isopropyltoluene	< 0.12	ug/l	0.12	0.41	1	7/2/2002	8260B	CJR	172
Methylene chloride	< 0.24	ug/l	0.24	0.83	1	7/2/2002	8260B	CJR	172
Methyl tert-butyl ether (MTBE)	< 0.07	ug/l	0.07	0.26	1	7/2/2002	8260B	CJR	172
Naphthalene	< 0.1	ug/l	0.1	0.34	1	7/2/2002	8260B	CJR	172
n-Propylbenzene	< 0.15	ug/l	0.15	0.54	1	7/2/2002	8260B	CJR	172
1,1,2,2-Tetrachloroethane	< 0.11	ug/l	0.11	0.4	1	7/2/2002	8260B	CJR	172
Tetrachloroethene	< 0.15	ug/l	0.15	0.52	1	7/2/2002	8260B	CJR	172
Toluene	0.48	ug/l	0.08	0.29	1	7/2/2002	8260B	CJR	172
1,2,4-Trichlorobenzene	< 0.28	ug/l	0.28	1	1	7/2/2002	8260B	CJR	172
1,2,3-Trichlorobenzene	< 0.09	ug/l	0.09	0.33	1	7/2/2002	8260B	CJR	172
1,1,1-Trichloroethane	< 0.14	ug/l	0.14	0.49	1	7/2/2002	8260B	CJR	172
1,1,2-Trichloroethane	< 0.19	ug/l	0.19	0.68	1	7/2/2002	8260B	CJR	172
Trichloroethene (TCE)	< 0.13	ug/l	0.13	0.44	1	7/2/2002	8260B	CJR	172
Trichlorofluoromethane	< 0.21	ug/l	0.21	0.74	1	7/2/2002	8260B	CJR	172
1,2,4-Trimethylbenzene	1	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	172
1,3,5-Trimethylbenzene	0.34	ug/l	0.08	0.29	1	7/2/2002	8260B	CJR	172
Vinyl Chloride	< 0.16	ug/l	0.16	0.56	1	7/2/2002	8260B	CJR	172
m&p-Xylene	26	ug/l	0.21	0.74	1	7/2/2002	8260B	CJR	172
o-Xylene	17	ug/l	0.13	0.45	1	7/2/2002	8260B	CJR	172

Lab Code 5041209J						Sample Type Water			
Sample ID PPG-GW150616						Sample Date 6/19/2002			

Organic

General

Gasoline Range Organics 1300 ug/l 31 100 1 6/29/2002 GRO95/8021 CAH 172

VOC's

Benzene < 0.8 ug/l 0.8 2.7 10 7/2/2002 8260B CJR 1
 Bromobenzene < 2.3 ug/l 2.3 8.3 10 7/2/2002 8260B CJR 1
 Bromodichloromethane < 0.6 ug/l 0.6 2 10 7/2/2002 8260B CJR 7
 tert-Butylbenzene < 0.8 ug/l 0.8 2.8 10 7/2/2002 8260B CJR 1
 sec-Butylbenzene < 1 ug/l 1 3.6 10 7/2/2002 8260B CJR 1
 n-Butylbenzene < 1.1 ug/l 1.1 3.7 10 7/2/2002 8260B CJR 1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209J						Sample Type Water			
Sample ID PPG-GW150616						Sample Date 6/19/2002			
Carbon Tetrachloride	<2	ug/l	2	6.9	10	7/2/2002	8260B	CJR	1
Chlorobenzene	<0.5	ug/l	0.5	1.7	10	7/2/2002	8260B	CJR	1
Chloroethane	<6	ug/l	6	21	10	7/2/2002	8260B	CJR	1
Chloroform	<1	ug/l	1	3.6	10	7/2/2002	8260B	CJR	1
Chloromethane	<4	ug/l	4.4	15	10	7/2/2002	8260B	CJR	1
2-Chlorotoluene	<1.6	ug/l	1.6	5.6	10	7/2/2002	8260B	CJR	1
4-Chlorotoluene	<3.2	ug/l	3.2	11	10	7/2/2002	8260B	CJR	1
1,2-Dibromo-3-chloropropane	<0.9	ug/l	0.9	3.2	10	7/2/2002	8260B	CJR	1
Dibromochloromethane	<0.6	ug/l	0.6	2.2	10	7/2/2002	8260B	CJR	1
1,4-Dichlorobenzene	<3.1	ug/l	3.1	11	10	7/2/2002	8260B	CJR	1
1,3-Dichlorobenzene	<1	ug/l	1	3.7	10	7/2/2002	8260B	CJR	1
1,2-Dichlorobenzene	<1.1	ug/l	1.1	3.8	10	7/2/2002	8260B	CJR	1
Dichlorodifluoromethane	<2.2	ug/l	2.2	7.9	10	7/2/2002	8260B	CJR	1
1,2-Dichloroethane	<1.2	ug/l	1.2	4.2	10	7/2/2002	8260B	CJR	1
1,1-Dichloroethane	<1.5	ug/l	1.5	5.2	10	7/2/2002	8260B	CJR	1
1,1-Dichloroethene	<1.1	ug/l	1.1	3.8	10	7/2/2002	8260B	CJR	1
cis-1,2-Dichloroethene	<1.1	ug/l	1.1	3.8	10	7/2/2002	8260B	CJR	1
trans-1,2-Dichloroethene	<1.1	ug/l	1.1	4	10	7/2/2002	8260B	CJR	1
1,2-Dichloropropane	<0.9	ug/l	0.9	3.1	10	7/2/2002	8260B	CJR	1
2,2-Dichloropropane	<15	ug/l	15	50	10	7/2/2002	8260B	CJR	1
1,3-Dichloropropane	<0.9	ug/l	0.9	3.1	10	7/2/2002	8260B	CJR	1
Di-isopropyl ether	<0.6	ug/l	0.6	2.2	10	7/2/2002	8260B	CJR	1
EDB (1,2-Dibromoethane)	<1.9	ug/l	1.9	6.6	10	7/2/2002	8260B	CJR	1
Ethylbenzene	87	ug/l	0.8	2.8	10	7/2/2002	8260B	CJR	1
Hexachlorobutadiene	<1.7	ug/l	1.7	5.9	10	7/2/2002	8260B	CJR	1
Isopropylbenzene	<0.7	ug/l	0.7	2.4	10	7/2/2002	8260B	CJR	1
p-Isopropyltoluene	<1.2	ug/l	1.2	4.1	10	7/2/2002	8260B	CJR	1
Methylene chloride	<2.4	ug/l	2.4	8.3	10	7/2/2002	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	<0.7	ug/l	0.7	2.6	10	7/2/2002	8260B	CJR	1
Naphthalene	<1	ug/l	1	3.4	10	7/2/2002	8260B	CJR	1
n-Propylbenzene	<1.5	ug/l	1.5	5.4	10	7/2/2002	8260B	CJR	1
1,1,2,2-Tetrachloroethane	<1.1	ug/l	1.1	4	10	7/2/2002	8260B	CJR	1
Tetrachloroethene	<1.5	ug/l	1.5	5.2	10	7/2/2002	8260B	CJR	1
Toluene	<0.8	ug/l	0.8	2.9	10	7/2/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209J						Sample Type Water			
Sample ID PPG-GW150616						Sample Date 6/19/2002			
1,2,4-Trichlorobenzene	< 2.8	ug/l	2.8	10	10	7/2/2002	8260B	CJR	1
1,2,3-Trichlorobenzene	< 0.9	ug/l	0.9	3.3	10	7/2/2002	8260B	CJR	1
1,1,1-Trichloroethane	< 1.4	ug/l	1.4	4.9	10	7/2/2002	8260B	CJR	1
1,1,2-Trichloroethane	< 1.9	ug/l	1.9	6.8	10	7/2/2002	8260B	CJR	1
Trichloroethene (TCE)	< 1.3	ug/l	1.3	4.4	10	7/2/2002	8260B	CJR	1
Trichlorofluoromethane	< 2.1	ug/l	2.1	7.4	10	7/2/2002	8260B	CJR	1
1,2,4-Trimethylbenzene	9.1	ug/l	1.1	3.8	10	7/2/2002	8260B	CJR	1
1,3,5-Trimethylbenzene	2.6 "J"	ug/l	0.8	2.9	10	7/2/2002	8260B	CJR	1
Vinyl Chloride	< 1.6	ug/l	1.6	5.6	10	7/2/2002	8260B	CJR	1
m&p-Xylene	400	ug/l	2.1	7.4	10	7/2/2002	8260B	CJR	1
o-Xylene	100	ug/l	1.3	4.5	10	7/2/2002	8260B	CJR	1

Lab Code 5041209K						Sample Type Soil			
Sample ID PPG-SS140810						Sample Date 6/19/2002			

Inorganic

General

Solids Percent	93.1	%			1	6/26/2002	5021	AJV	1
----------------	------	---	--	--	---	-----------	------	-----	---

Organic

General

Gasoline Range Organics	< 10	mg/kg	0.79	2.5	1	6/27/2002	GRO95/8021	SJV	1
-------------------------	------	-------	------	-----	---	-----------	------------	-----	---

VOC's

Benzene	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
Bromobenzene	< 25	ug/kg	8.5	27	1	6/28/2002	8260B	CJR	1
Bromodichloromethane	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
tert-Butylbenzene	< 25	ug/kg	6.5	21	1	6/28/2002	8260B	CJR	1
sec-Butylbenzene	< 25	ug/kg	7.4	24	1	6/28/2002	8260B	CJR	1
n-Butylbenzene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
Carbon Tetrachloride	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
Chlorobenzene	< 25	ug/kg	7.7	24	1	6/28/2002	8260B	CJR	1
Chloroethane	< 25	ug/kg	9	29	1	6/28/2002	8260B	CJR	1
Chloroform	< 25	ug/kg	5.9	19	1	6/28/2002	8260B	CJR	1
Chloromethane	< 25	ug/kg	6.5	21	1	6/28/2002	8260B	CJR	1
2-Chlorotoluene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209K							Sample Type Soil		
Sample ID PPG-SS140810						Sample Date 6/19/2002			
4-Chlorotoluene	< 25	ug/kg	5.8	18	1	6/28/2002	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	20	62	1	6/28/2002	8260B	CJR	1
Dibromochloromethane	< 25	ug/kg	4.3	14	1	6/28/2002	8260B	CJR	1
1,4-Dichlorobenzene	< 25	ug/kg	6.2	20	1	6/28/2002	8260B	CJR	1
1,3-Dichlorobenzene	< 25	ug/kg	6.4	20	1	6/28/2002	8260B	CJR	1
1,2-Dichlorobenzene	< 25	ug/kg	4.9	15	1	6/28/2002	8260B	CJR	1
Dichlorodifluoromethane	< 25	ug/kg	22	69	1	6/28/2002	8260B	CJR	1
1,2-Dichloroethane	< 25	ug/kg	7.8	25	1	6/28/2002	8260B	CJR	1
1,1-Dichloroethane	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
1,1-Dichloroethene	< 25	ug/kg	10	30	1	6/28/2002	8260B	CJR	2
cis-1,2-Dichloroethene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
trans-1,2-Dichloroethene	< 25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	2
1,2-Dichloropropane	< 25	ug/kg	4.7	15	1	6/28/2002	8260B	CJR	1
2,2-Dichloropropane	< 25	ug/kg	11	36	1	6/28/2002	8260B	CJR	1
1,3-Dichloropropane	< 25	ug/kg	5.5	17	1	6/28/2002	8260B	CJR	1
Di-isopropyl ether	< 25	ug/kg	6.7	21	1	6/28/2002	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 25	ug/kg	5.3	17	1	6/28/2002	8260B	CJR	1
Ethylbenzene	59	ug/kg	7.4	23	1	6/28/2002	8260B	CJR	1
Hexachlorobutadiene	< 25	ug/kg	17	54	1	6/28/2002	8260B	CJR	1
Isopropylbenzene	< 25	ug/kg	8	26	1	6/28/2002	8260B	CJR	1
p-Isopropyltoluene	< 25	ug/kg	6.8	22	1	6/28/2002	8260B	CJR	1
Methylene chloride	< 25	ug/kg	7.9	25	1	6/28/2002	8260B	CJR	2
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.4	27	1	6/28/2002	8260B	CJR	1
Naphthalene	< 25	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
n-Propylbenzene	< 25	ug/kg	8.6	27	1	6/28/2002	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	5.2	17	1	6/28/2002	8260B	CJR	1
Tetrachloroethene	< 25	ug/kg	9.2	29	1	6/28/2002	8260B	CJR	1
Toluene	< 25	ug/kg	8.8	28	1	6/28/2002	8260B	CJR	1
1,2,4-Trichlorobenzene	< 25	ug/kg	8	25	1	6/28/2002	8260B	CJR	1
1,2,3-Trichlorobenzene	< 25	ug/kg	8.3	26	1	6/28/2002	8260B	CJR	1
1,1,1-Trichloroethane	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
1,1,2-Trichloroethane	< 25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	1
Trichloroethene (TCE)	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
Trichlorofluoromethane	< 25	ug/kg	18	57	1	6/28/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209K							Sample Type Soil		
Sample ID PPG-SS140810						Sample Date 6/19/2002			
1,2,4-Trimethylbenzene	160	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
1,3,5-Trimethylbenzene	46	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
Vinyl Chloride	< 25	ug/kg	10	33	1	6/28/2002	8260B	CJR	1
m&p-Xylenc	370	ug/kg	13	41	1	6/28/2002	8260B	CJR	1
o-Xylenc	160	ug/kg	4.2	13	1	6/28/2002	8260B	CJR	1
Lab Code 5041209L							Sample Type Soil		
Sample ID PPG-SS150810						Sample Date 6/19/2002			

Inorganic

General

Solids Percent	89.8	%				1	6/26/2002	5021	AJV	1
----------------	------	---	--	--	--	---	-----------	------	-----	---

Organic

General

Gasoline Range Organics	< 10	mg/kg	0.79	2.5	1	6/27/2002	GRO95/8021	SJV	1
-------------------------	------	-------	------	-----	---	-----------	------------	-----	---

VOC's

Benzene	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
Bromobenzene	< 25	ug/kg	8.5	27	1	6/28/2002	8260B	CJR	1
Bromodichloromethane	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
tert-Butylbenzene	< 25	ug/kg	6.5	21	1	6/28/2002	8260B	CJR	1
sec-Butylbenzene	< 25	ug/kg	7.4	24	1	6/28/2002	8260B	CJR	1
n-Butylbenzene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
Carbon Tetrachloride	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
Chlorobenzene	< 25	ug/kg	7.7	24	1	6/28/2002	8260B	CJR	1
Chloroethane	< 25	ug/kg	9	29	1	6/28/2002	8260B	CJR	1
Chloroform	< 25	ug/kg	5.9	19	1	6/28/2002	8260B	CJR	1
Chloromethane	< 25	ug/kg	6.5	21	1	6/28/2002	8260B	CJR	1
2-Chlorotoluene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
4-Chlorotoluene	< 25	ug/kg	5.8	18	1	6/28/2002	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	20	62	1	6/28/2002	8260B	CJR	1
Dibromochloromethane	< 25	ug/kg	4.3	14	1	6/28/2002	8260B	CJR	1
1,4-Dichlorobenzene	< 25	ug/kg	6.2	20	1	6/28/2002	8260B	CJR	1
1,3-Dichlorobenzene	< 25	ug/kg	6.4	20	1	6/28/2002	8260B	CJR	1
1,2-Dichlorobenzene	< 25	ug/kg	4.9	15	1	6/28/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5041209L		Sample Type		Soil				
Sample ID	PPG-SS150810		Sample Date		6/19/2002				
Dichlorodifluoromethane	< 25	ug/kg	22	69	1	6/28/2002	8260B	CJR	1
1,2-Dichloroethane	< 25	ug/kg	7.8	25	1	6/28/2002	8260B	CJR	1
1,1-Dichloroethane	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
1,1-Dichloroethene	< 25	ug/kg	10	30	1	6/28/2002	8260B	CJR	2
cis-1,2-Dichloroethene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
trans-1,2-Dichloroethene	< 25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	2
1,2-Dichloropropane	< 25	ug/kg	4.7	15	1	6/28/2002	8260B	CJR	1
2,2-Dichloropropane	< 25	ug/kg	11	36	1	6/28/2002	8260B	CJR	1
1,3-Dichloropropane	< 25	ug/kg	5.5	17	1	6/28/2002	8260B	CJR	1
Di-isopropyl ether	< 25	ug/kg	6.7	21	1	6/28/2002	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 25	ug/kg	5.3	17	1	6/28/2002	8260B	CJR	1
Ethylbenzene	< 25	ug/kg	7.4	23	1	6/28/2002	8260B	CJR	1
Hexachlorobutadiene	< 25	ug/kg	17	54	1	6/28/2002	8260B	CJR	1
Isopropylbenzene	< 25	ug/kg	8	26	1	6/28/2002	8260B	CJR	1
p-Isopropyltoluene	< 25	ug/kg	6.8	22	1	6/28/2002	8260B	CJR	1
Methylene chloride	< 25	ug/kg	7.9	25	1	6/28/2002	8260B	CJR	2
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.4	27	1	6/28/2002	8260B	CJR	1
Naphthalene	< 25	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
n-Propylbenzene	< 25	ug/kg	8.6	27	1	6/28/2002	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	5.2	17	1	6/28/2002	8260B	CJR	1
Tetrachloroethene	< 25	ug/kg	9.2	29	1	6/28/2002	8260B	CJR	1
Toluene	< 25	ug/kg	8.8	28	1	6/28/2002	8260B	CJR	1
1,2,4-Trichlorobenzene	< 25	ug/kg	8	25	1	6/28/2002	8260B	CJR	1
1,2,3-Trichlorobenzene	< 25	ug/kg	8.3	26	1	6/28/2002	8260B	CJR	1
1,1,1-Trichloroethane	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
1,1,2-Trichloroethane	< 25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	1
Trichloroethene (TCE)	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
Trichlorofluoromethane	< 25	ug/kg	18	57	1	6/28/2002	8260B	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
Vinyl Chloride	< 25	ug/kg	10	33	1	6/28/2002	8260B	CJR	1
m&p-Xylene	< 50	ug/kg	13	41	1	6/28/2002	8260B	CJR	1
o-Xylene	< 25	ug/kg	4.2	13	1	6/28/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5041209M					Sample Type	Soil		
Sample ID	PPG-SS160204					Sample Date	6/19/2002		

Inorganic

General

Solids Percent	86.1	%				6/26/2002	5021	AJV	1
----------------	------	---	--	--	--	-----------	------	-----	---

Organic

General

Gasoline Range Organics	11	mg/kg	0.79	2.5	1	6/27/2002	GRO95/8021	SJV	1
-------------------------	----	-------	------	-----	---	-----------	------------	-----	---

VOC's

Benzene	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
Bromobenzene	< 25	ug/kg	8.5	27	1	6/28/2002	8260B	CJR	1
Bromodichloromethane	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
tert-Butylbenzene	< 25	ug/kg	6.5	21	1	6/28/2002	8260B	CJR	1
sec-Butylbenzene	< 25	ug/kg	7.4	24	1	6/28/2002	8260B	CJR	1
n-Butylbenzene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
Carbon Tetrachloride	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
Chlorobenzene	< 25	ug/kg	7.7	24	1	6/28/2002	8260B	CJR	1
Chloroethane	< 25	ug/kg	9	29	1	6/28/2002	8260B	CJR	1
Chloroform	< 25	ug/kg	5.9	19	1	6/28/2002	8260B	CJR	1
Chloromethane	< 25	ug/kg	6.5	21	1	6/28/2002	8260B	CJR	1
2-Chlorotoluene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
4-Chlorotoluene	< 25	ug/kg	5.8	18	1	6/28/2002	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	20	62	1	6/28/2002	8260B	CJR	1
Dibromochloromethane	< 25	ug/kg	4.3	14	1	6/28/2002	8260B	CJR	1
1,4-Dichlorobenzene	< 25	ug/kg	6.2	20	1	6/28/2002	8260B	CJR	1
1,3-Dichlorobenzene	< 25	ug/kg	6.4	20	1	6/28/2002	8260B	CJR	1
1,2-Dichlorobenzene	< 25	ug/kg	4.9	15	1	6/28/2002	8260B	CJR	1
Dichlorodifluoromethane	< 25	ug/kg	22	69	1	6/28/2002	8260B	CJR	1
1,2-Dichloroethane	< 25	ug/kg	7.8	25	1	6/28/2002	8260B	CJR	1
1,1-Dichloroethane	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
1,1-Dichloroethene	< 25	ug/kg	10	30	1	6/28/2002	8260B	CJR	2
cis-1,2-Dichloroethene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
trans-1,2-Dichloroethene	< 25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	2
1,2-Dichloropropane	< 25	ug/kg	4.7	15	1	6/28/2002	8260B	CJR	1
2,2-Dichloropropane	< 25	ug/kg	11	36	1	6/28/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209M						Sample Type Soil			
Sample ID PPG-SS160204						Sample Date 6/19/2002			
1,3-Dichloropropane	< 25	ug/kg	5.5	17	1	6/28/2002	8260B	CJR	1
Di-isopropyl ether	< 25	ug/kg	6.7	21	1	6/28/2002	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 25	ug/kg	5.3	17	1	6/28/2002	8260B	CJR	1
Ethylbenzene	1400	ug/kg	7.4	23	1	6/28/2002	8260B	CJR	1
Hexachlorobutadiene	< 25	ug/kg	17	54	1	6/28/2002	8260B	CJR	1
Isopropylbenzene	81	ug/kg	8	26	1	6/28/2002	8260B	CJR	1
p-Isopropyltoluene	< 25	ug/kg	6.8	22	1	6/28/2002	8260B	CJR	1
Methylene chloride	< 25	ug/kg	7.9	25	1	6/28/2002	8260B	CJR	2
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.4	27	1	6/28/2002	8260B	CJR	1
Naphthalene	30	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
n-Propylbenzene	45	ug/kg	8.6	27	1	6/28/2002	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	5.2	17	1	6/28/2002	8260B	CJR	1
Tetrachloroethene	< 25	ug/kg	9.2	29	1	6/28/2002	8260B	CJR	1
Toluene	< 25	ug/kg	8.8	28	1	6/28/2002	8260B	CJR	1
1,2,4-Trichlorobenzene	< 25	ug/kg	8	25	1	6/28/2002	8260B	CJR	1
1,2,3-Trichlorobenzene	< 25	ug/kg	8.3	26	1	6/28/2002	8260B	CJR	1
1,1,1-Trichloroethane	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
1,1,2-Trichloroethane	< 25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	1
Trichloroethene (TCE)	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
Trichlorofluoromethane	< 25	ug/kg	18	57	1	6/28/2002	8260B	CJR	1
1,2,4-Trimethylbenzene	49	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
1,3,5-Trimethylbenzene	39	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
Vinyl Chloride	< 25	ug/kg	10	33	1	6/28/2002	8260B	CJR	1
m&p-Xylene	3900	ug/kg	13	41	1	6/28/2002	8260B	CJR	1
o-Xylene	800	ug/kg	4.2	13	1	6/28/2002	8260B	CJR	1

Lab Code 5041209N						Sample Type Soil			
Sample ID PPG-SS171012						Sample Date 6/19/2002			

Inorganic

General

Solids Percent	87.8	%			1	6/26/2002	5021	AJV	1
----------------	------	---	--	--	---	-----------	------	-----	---

Organic

General

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209N									
Sample ID PPG-SS171012									
						Sample Type Soil			
						Sample Date 6/19/2002			
Gasoline Range Organics	< 10	mg/kg	0.79	2.5	1	6/27/2002	GRO95/8021	SJV	1
VOC's									
Benzene	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
Bromobenzene	< 25	ug/kg	8.5	27	1	6/28/2002	8260B	CJR	1
Bromodichloromethane	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
tert-Butylbenzene	< 25	ug/kg	6.5	21	1	6/28/2002	8260B	CJR	1
sec-Butylbenzene	< 25	ug/kg	7.4	24	1	6/28/2002	8260B	CJR	1
n-Butylbenzene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
Carbon Tetrachloride	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
Chlorobenzene	< 25	ug/kg	7.7	24	1	6/28/2002	8260B	CJR	1
Chloroethane	< 25	ug/kg	9	29	1	6/28/2002	8260B	CJR	1
Chloroform	< 25	ug/kg	5.9	19	1	6/28/2002	8260B	CJR	1
Chloromethane	< 25	ug/kg	6.5	21	1	6/28/2002	8260B	CJR	1
2-Chlorotoluene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
4-Chlorotoluene	< 25	ug/kg	5.8	18	1	6/28/2002	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	20	62	1	6/28/2002	8260B	CJR	1
Dibromochloromethane	< 25	ug/kg	4.3	14	1	6/28/2002	8260B	CJR	1
1,4-Dichlorobenzene	< 25	ug/kg	6.2	20	1	6/28/2002	8260B	CJR	1
1,3-Dichlorobenzene	< 25	ug/kg	6.4	20	1	6/28/2002	8260B	CJR	1
1,2-Dichlorobenzene	< 25	ug/kg	4.9	15	1	6/28/2002	8260B	CJR	1
Dichlorodifluoromethane	< 25	ug/kg	22	69	1	6/28/2002	8260B	CJR	1
1,2-Dichloroethane	< 25	ug/kg	7.8	25	1	6/28/2002	8260B	CJR	1
1,1-Dichloroethane	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
1,1-Dichloroethene	< 25	ug/kg	10	30	1	6/28/2002	8260B	CJR	2
cis-1,2-Dichloroethene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
trans-1,2-Dichloroethene	< 25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	2
1,2-Dichloropropane	< 25	ug/kg	4.7	15	1	6/28/2002	8260B	CJR	1
2,2-Dichloropropane	< 25	ug/kg	11	36	1	6/28/2002	8260B	CJR	1
1,3-Dichloropropane	< 25	ug/kg	5.5	17	1	6/28/2002	8260B	CJR	1
Di-isopropyl ether	< 25	ug/kg	6.7	21	1	6/28/2002	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 25	ug/kg	5.3	17	1	6/28/2002	8260B	CJR	1
Ethylbenzene	< 25	ug/kg	7.4	23	1	6/28/2002	8260B	CJR	1
Hexachlorobutadiene	< 25	ug/kg	17	54	1	6/28/2002	8260B	CJR	1
Isopropylbenzene	< 25	ug/kg	8	26	1	6/28/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5041209N					Sample Type	Soil		
Sample ID	PPG-SS171012					Sample Date	6/19/2002		
p-Isopropyltoluene	< 25	ug/kg	6.8	22	1	6/28/2002	8260B	CJR	1
Methylene chloride	< 25	ug/kg	7.9	25	1	6/28/2002	8260B	CJR	2
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.4	27	1	6/28/2002	8260B	CJR	1
Naphthalene	< 25	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
n-Propylbenzene	< 25	ug/kg	8.6	27	1	6/28/2002	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	5.2	17	1	6/28/2002	8260B	CJR	1
Tetrachloroethene	< 25	ug/kg	9.2	29	1	6/28/2002	8260B	CJR	1
Toluene	< 25	ug/kg	8.8	28	1	6/28/2002	8260B	CJR	1
1,2,4-Trichlorobenzene	< 25	ug/kg	8	25	1	6/28/2002	8260B	CJR	1
1,2,3-Trichlorobenzene	< 25	ug/kg	8.3	26	1	6/28/2002	8260B	CJR	1
1,1,1-Trichloroethane	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
1,1,2-Trichloroethane	< 25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	1
Trichloroethene (TCE)	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
Trichlorofluoromethane	< 25	ug/kg	18	57	1	6/28/2002	8260B	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
Vinyl Chloride	< 25	ug/kg	10	33	1	6/28/2002	8260B	CJR	1
m&p-Xylene	< 50	ug/kg	13	41	1	6/28/2002	8260B	CJR	1
o-Xylene	< 25	ug/kg	4.2	13	1	6/28/2002	8260B	CJR	1

Lab Code	5041209O					Sample Type	Water		
Sample ID	PPG-GWMW60712					Sample Date	6/20/2002		

Organic

General

Gasoline Range Organics	< 100	ug/l	31	100	1	6/29/2002	GRO95/8021	CAH	1
-------------------------	-------	------	----	-----	---	-----------	------------	-----	---

VOC's

Benzene	0.2 "J"	ug/l	0.08	0.27	1	7/2/2002	8260B	CJR	1
Bromobenzene	< 0.23	ug/l	0.23	0.83	1	7/2/2002	8260B	CJR	1
Bromodichloromethane	< 0.06	ug/l	0.06	0.2	1	7/2/2002	8260B	CJR	7
tert-Butylbenzene	< 0.08	ug/l	0.08	0.28	1	7/2/2002	8260B	CJR	1
sec-Butylbenzene	< 0.1	ug/l	0.1	0.36	1	7/2/2002	8260B	CJR	1
n-Butylbenzene	< 0.11	ug/l	0.11	0.37	1	7/2/2002	8260B	CJR	1
Carbon Tetrachloride	< 0.2	ug/l	0.2	0.69	1	7/2/2002	8260B	CJR	1
Chlorobenzene	0.27	ug/l	0.05	0.17	1	7/2/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 50412090									
Sample ID PPG-GWMW60712									
						Sample Type Water			
						Sample Date 6/20/2002			
Chloroethane	< 0.6	ug/l	0.6	2.1	1	7/2/2002	8260B	CJR	1
Chloroform	< 0.1	ug/l	0.1	0.36	1	7/2/2002	8260B	CJR	1
Chloromethane	< 0.4	ug/l	0.44	1.5	1	7/2/2002	8260B	CJR	1
2-Chlorotoluene	< 0.16	ug/l	0.16	0.56	1	7/2/2002	8260B	CJR	1
4-Chlorotoluene	< 0.32	ug/l	0.32	1.1	1	7/2/2002	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.09	ug/l	0.09	0.32	1	7/2/2002	8260B	CJR	1
Dibromochloromethane	< 0.06	ug/l	0.06	0.22	1	7/2/2002	8260B	CJR	1
1,4-Dichlorobenzene	< 0.31	ug/l	0.31	1.1	1	7/2/2002	8260B	CJR	1
1,3-Dichlorobenzene	< 0.1	ug/l	0.1	0.37	1	7/2/2002	8260B	CJR	1
1,2-Dichlorobenzene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1
Dichlorodifluoromethane	< 0.22	ug/l	0.22	0.79	1	7/2/2002	8260B	CJR	1
1,2-Dichloroethane	< 0.12	ug/l	0.12	0.42	1	7/2/2002	8260B	CJR	1
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.52	1	7/2/2002	8260B	CJR	1
1,1-Dichloroethene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.11	ug/l	0.11	0.4	1	7/2/2002	8260B	CJR	1
1,2-Dichloropropane	< 0.09	ug/l	0.09	0.31	1	7/2/2002	8260B	CJR	1
2,2-Dichloropropane	< 1.5	ug/l	1.5	5	1	7/2/2002	8260B	CJR	1
1,3-Dichloropropane	< 0.09	ug/l	0.09	0.31	1	7/2/2002	8260B	CJR	1
Di-isopropyl ether	< 0.06	ug/l	0.06	0.22	1	7/2/2002	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.19	ug/l	0.19	0.66	1	7/2/2002	8260B	CJR	1
Ethylbenzene	0.28	ug/l	0.08	0.28	1	7/2/2002	8260B	CJR	1
Hexachlorobutadiene	< 0.17	ug/l	0.17	0.59	1	7/2/2002	8260B	CJR	1
Isopropylbenzene	< 0.07	ug/l	0.07	0.24	1	7/2/2002	8260B	CJR	1
p-Isopropyltoluene	< 0.12	ug/l	0.12	0.41	1	7/2/2002	8260B	CJR	1
Methylene chloride	< 0.24	ug/l	0.24	0.83	1	7/2/2002	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.07	ug/l	0.07	0.26	1	7/2/2002	8260B	CJR	1
Naphthalene	0.55	ug/l	0.1	0.34	1	7/2/2002	8260B	CJR	1
n-Propylbenzene	< 0.15	ug/l	0.15	0.54	1	7/2/2002	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.11	ug/l	0.11	0.4	1	7/2/2002	8260B	CJR	1
Tetrachloroethene	< 0.15	ug/l	0.15	0.52	1	7/2/2002	8260B	CJR	1
Toluene	0.41	ug/l	0.08	0.29	1	7/2/2002	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.28	ug/l	0.28	1	1	7/2/2002	8260B	CJR	1
1,2,3-Trichlorobenzene	< 0.09	ug/l	0.09	0.33	1	7/2/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 50412090							Sample Type Water		
Sample ID PPG-GWMW60712						Sample Date 6/20/2002			
1,1,1-Trichloroethane	< 0.14	ug/l	0.14	0.49	1	7/2/2002	8260B	CJR	1
1,1,2-Trichloroethane	< 0.19	ug/l	0.19	0.68	1	7/2/2002	8260B	CJR	1
Trichloroethene (TCE)	< 0.13	ug/l	0.13	0.44	1	7/2/2002	8260B	CJR	1
Trichlorofluoromethane	< 0.21	ug/l	0.21	0.74	1	7/2/2002	8260B	CJR	1
1,2,4-Trimethylbenzene	0.29 "J"	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1
1,3,5-Trimethylbenzene	< 0.08	ug/l	0.08	0.29	1	7/2/2002	8260B	CJR	1
Vinyl Chloride	< 0.16	ug/l	0.16	0.56	1	7/2/2002	8260B	CJR	1
m&p-Xylene	0.74	ug/l	0.21	0.74	1	7/2/2002	8260B	CJR	1
o-Xylene	0.31 "J"	ug/l	0.13	0.45	1	7/2/2002	8260B	CJR	1
Lab Code 5041209P							Sample Type Water		
Sample ID PPG-GWMW6D						Sample Date 6/21/2002			

Organic

General

Gasoline Range Organics < 100 ug/l 31 100 1 6/29/2002 GRO95/8021 CAH 1

VOC's

Benzene	0.2 "J"	ug/l	0.08	0.27	1	7/2/2002	8260B	CJR	1
Bromobenzene	< 0.23	ug/l	0.23	0.83	1	7/2/2002	8260B	CJR	1
Bromodichloromethane	< 0.06	ug/l	0.06	0.2	1	7/2/2002	8260B	CJR	7
tert-Butylbenzene	< 0.08	ug/l	0.08	0.28	1	7/2/2002	8260B	CJR	1
sec-Butylbenzene	< 0.1	ug/l	0.1	0.36	1	7/2/2002	8260B	CJR	1
n-Butylbenzene	< 0.11	ug/l	0.11	0.37	1	7/2/2002	8260B	CJR	1
Carbon Tetrachloride	< 0.2	ug/l	0.2	0.69	1	7/2/2002	8260B	CJR	1
Chlorobenzene	0.28	ug/l	0.05	0.17	1	7/2/2002	8260B	CJR	1
Chloroethane	< 0.6	ug/l	0.6	2.1	1	7/2/2002	8260B	CJR	1
Chloroform	< 0.1	ug/l	0.1	0.36	1	7/2/2002	8260B	CJR	1
Chloromethane	< 0.4	ug/l	0.44	1.5	1	7/2/2002	8260B	CJR	1
2-Chlorotoluene	< 0.16	ug/l	0.16	0.56	1	7/2/2002	8260B	CJR	1
4-Chlorotoluene	< 0.32	ug/l	0.32	1.1	1	7/2/2002	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.09	ug/l	0.09	0.32	1	7/2/2002	8260B	CJR	1
Dibromochloromethane	< 0.06	ug/l	0.06	0.22	1	7/2/2002	8260B	CJR	1
1,4-Dichlorobenzene	< 0.31	ug/l	0.31	1.1	1	7/2/2002	8260B	CJR	1
1,3-Dichlorobenzene	< 0.1	ug/l	0.1	0.37	1	7/2/2002	8260B	CJR	1
1,2-Dichlorobenzene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209P						Sample Type Water			
Sample ID PPG-GWMW6D						Sample Date 6/21/2002			
Dichlorodifluoromethane	< 0.22	ug/l	0.22	0.79	1	7/2/2002	8260B	CJR	1
1,2-Dichloroethane	< 0.12	ug/l	0.12	0.42	1	7/2/2002	8260B	CJR	1
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.52	1	7/2/2002	8260B	CJR	1
1,1-Dichloroethene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.11	ug/l	0.11	0.4	1	7/2/2002	8260B	CJR	1
1,2-Dichloropropane	< 0.09	ug/l	0.09	0.31	1	7/2/2002	8260B	CJR	1
2,2-Dichloropropane	< 1.5	ug/l	1.5	5	1	7/2/2002	8260B	CJR	1
1,3-Dichloropropane	< 0.09	ug/l	0.09	0.31	1	7/2/2002	8260B	CJR	1
Di-isopropyl ether	< 0.06	ug/l	0.06	0.22	1	7/2/2002	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.19	ug/l	0.19	0.66	1	7/2/2002	8260B	CJR	1
Ethylbenzene	0.25 "J"	ug/l	0.08	0.28	1	7/2/2002	8260B	CJR	1
Hexachlorobutadiene	< 0.17	ug/l	0.17	0.59	1	7/2/2002	8260B	CJR	1
Isopropylbenzene	< 0.07	ug/l	0.07	0.24	1	7/2/2002	8260B	CJR	1
p-Isopropyltoluene	< 0.12	ug/l	0.12	0.41	1	7/2/2002	8260B	CJR	1
Methylene chloride	< 0.24	ug/l	0.24	0.83	1	7/2/2002	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.07	ug/l	0.07	0.26	1	7/2/2002	8260B	CJR	1
Naphthalene	0.43	ug/l	0.1	0.34	1	7/2/2002	8260B	CJR	1
n-Propylbenzene	< 0.15	ug/l	0.15	0.54	1	7/2/2002	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.11	ug/l	0.11	0.4	1	7/2/2002	8260B	CJR	1
Tetrachloroethene	< 0.15	ug/l	0.15	0.52	1	7/2/2002	8260B	CJR	1
Toluene	0.41	ug/l	0.08	0.29	1	7/2/2002	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.28	ug/l	0.28	1	1	7/2/2002	8260B	CJR	1
1,2,3-Trichlorobenzene	< 0.09	ug/l	0.09	0.33	1	7/2/2002	8260B	CJR	1
1,1,1-Trichloroethane	< 0.14	ug/l	0.14	0.49	1	7/2/2002	8260B	CJR	1
1,1,2-Trichloroethane	< 0.19	ug/l	0.19	0.68	1	7/2/2002	8260B	CJR	1
Trichloroethene (TCE)	< 0.13	ug/l	0.13	0.44	1	7/2/2002	8260B	CJR	1
Trichlorofluoromethane	< 0.21	ug/l	0.21	0.74	1	7/2/2002	8260B	CJR	1
1,2,4-Trimethylbenzene	0.21 "J"	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1
1,3,5-Trimethylbenzene	< 0.08	ug/l	0.08	0.29	1	7/2/2002	8260B	CJR	1
Vinyl Chloride	< 0.16	ug/l	0.16	0.56	1	7/2/2002	8260B	CJR	1
m&p-Xylene	0.58 "J"	ug/l	0.21	0.74	1	7/2/2002	8260B	CJR	1
o-Xylene	0.24 "J"	ug/l	0.13	0.45	1	7/2/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209Q									
Sample ID PPG-GWMW50313									
						Sample Type Water			
						Sample Date 6/21/2002			

Organic

General

Gasoline Range Organics	3800	ug/l	31	100	1	6/29/2002	GRO95/8021	CAH	1
-------------------------	------	------	----	-----	---	-----------	------------	-----	---

VOC's

Benzene	< 1.6	ug/l	1.6	5.4	20	7/2/2002	8260B	CJR	1
Bromobenzene	< 4.6	ug/l	4.6	17	20	7/2/2002	8260B	CJR	1
Bromodichloromethane	< 1.2	ug/l	1.2	4	20	7/2/2002	8260B	CJR	7
tert-Butylbenzene	< 1.6	ug/l	1.6	5.6	20	7/2/2002	8260B	CJR	1
sec-Butylbenzene	< 2	ug/l	2	7.2	20	7/2/2002	8260B	CJR	1
n-Butylbenzene	< 2.2	ug/l	2.2	7.4	20	7/2/2002	8260B	CJR	1
Carbon Tetrachloride	< 4	ug/l	4	14	20	7/2/2002	8260B	CJR	1
Chlorobenzene	< 1	ug/l	1	3.4	20	7/2/2002	8260B	CJR	1
Chloroethane	< 12	ug/l	12	42	20	7/2/2002	8260B	CJR	1
Chloroform	< 2	ug/l	2	7.2	20	7/2/2002	8260B	CJR	1
Chloromethane	< 8	ug/l	8.8	30	20	7/2/2002	8260B	CJR	1
2-Chlorotoluene	< 3.2	ug/l	3.2	11	20	7/2/2002	8260B	CJR	1
4-Chlorotoluene	< 6.4	ug/l	6.4	22	20	7/2/2002	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 1.8	ug/l	1.8	6.4	20	7/2/2002	8260B	CJR	1
Dibromochloromethane	< 1.2	ug/l	1.2	4.4	20	7/2/2002	8260B	CJR	1
1,4-Dichlorobenzene	< 6.2	ug/l	6.2	22	20	7/2/2002	8260B	CJR	1
1,3-Dichlorobenzene	< 2	ug/l	2	7.4	20	7/2/2002	8260B	CJR	1
1,2-Dichlorobenzene	< 2.2	ug/l	2.2	7.6	20	7/2/2002	8260B	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	16	20	7/2/2002	8260B	CJR	1
1,2-Dichloroethane	< 2.4	ug/l	2.4	8.4	20	7/2/2002	8260B	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	10	20	7/2/2002	8260B	CJR	1
1,1-Dichloroethene	< 2.2	ug/l	2.2	7.6	20	7/2/2002	8260B	CJR	1
cis-1,2-Dichloroethene	< 2.2	ug/l	2.2	7.6	20	7/2/2002	8260B	CJR	1
trans-1,2-Dichloroethene	< 2.2	ug/l	2.2	8	20	7/2/2002	8260B	CJR	1
1,2-Dichloropropane	< 1.8	ug/l	1.8	6.2	20	7/2/2002	8260B	CJR	1
2,2-Dichloropropane	< 30	ug/l	30	100	20	7/2/2002	8260B	CJR	1
1,3-Dichloropropane	< 1.8	ug/l	1.8	6.2	20	7/2/2002	8260B	CJR	1
Di-isopropyl ether	< 1.2	ug/l	1.2	4.4	20	7/2/2002	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 3.8	ug/l	3.8	13	20	7/2/2002	8260B	CJR	1
Ethylbenzene	510	ug/l	1.6	5.6	20	7/2/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209Q							Sample Type Water		
Sample ID PPG-GWMW50313							Sample Date 6/21/2002		
Hexachlorobutadiene	< 3.4	ug/l	3.4	12	20	7/2/2002	8260B	CJR	1
Isopropylbenzene	4.6 "J"	ug/l	1.4	4.8	20	7/2/2002	8260B	CJR	1
p-Isopropyltoluene	< 2.4	ug/l	2.4	8.2	20	7/2/2002	8260B	CJR	1
Methylene chloride	< 4.8	ug/l	4.8	17	20	7/2/2002	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.4	ug/l	1.4	5.2	20	7/2/2002	8260B	CJR	1
Naphthalene	< 2	ug/l	2	6.8	20	7/2/2002	8260B	CJR	1
n-Propylbenzene	5.8 "J"	ug/l	3	11	20	7/2/2002	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 2.2	ug/l	2.2	8	20	7/2/2002	8260B	CJR	1
Tetrachloroethene	< 3	ug/l	3	10	20	7/2/2002	8260B	CJR	1
Toluene	< 1.6	ug/l	1.6	5.8	20	7/2/2002	8260B	CJR	1
1,2,4-Trichlorobenzene	< 5.6	ug/l	5.6	20	20	7/2/2002	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	6.6	20	7/2/2002	8260B	CJR	1
1,1,1-Trichloroethane	< 2.8	ug/l	2.8	10	20	7/2/2002	8260B	CJR	1
1,1,2-Trichloroethane	< 3.8	ug/l	3.8	14	20	7/2/2002	8260B	CJR	1
Trichloroethene (TCE)	< 2.6	ug/l	2.6	8.8	20	7/2/2002	8260B	CJR	1
Trichlorofluoromethane	< 4.2	ug/l	4.2	15	20	7/2/2002	8260B	CJR	1
1,2,4-Trimethylbenzene	61	ug/l	2.2	7.6	20	7/2/2002	8260B	CJR	1
1,3,5-Trimethylbenzene	17	ug/l	1.6	5.8	20	7/2/2002	8260B	CJR	1
Vinyl Chloride	< 3.2	ug/l	3.2	11	20	7/2/2002	8260B	CJR	1
m&p-Xylene	2300	ug/l	4.2	15	20	7/2/2002	8260B	CJR	1
o-Xylene	250	ug/l	2.6	9	20	7/2/2002	8260B	CJR	1

Lab Code 5041209R							Sample Type Water		
Sample ID PPG-MW51520							Sample Date 6/21/2002		

Organic

General

Gasoline Range Organics < 100 ug/l 31 100 1 6/29/2002 GRO95/8021 CAH 1 72

VOC's

Benzene < 0.08 ug/l 0.08 0.27 1 7/2/2002 8260B CJR 1 72
 Bromobenzene < 0.23 ug/l 0.23 0.83 1 7/2/2002 8260B CJR 1 72
 Bromodichloromethane < 0.06 ug/l 0.06 0.2 1 7/2/2002 8260B CJR 7 72
 tert-Butylbenzene < 0.08 ug/l 0.08 0.28 1 7/2/2002 8260B CJR 1 72
 sec-Butylbenzene < 0.1 ug/l 0.1 0.36 1 7/2/2002 8260B CJR 1 72
 n-Butylbenzene < 0.11 ug/l 0.11 0.37 1 7/2/2002 8260B CJR 1 72

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code	
Lab Code	5041209R					Sample Type	Water			
Sample ID	PPG-MW51520					Sample Date	6/21/2002			
Carbon Tetrachloride	< 0.2	ug/l	0.2	0.69	1	7/2/2002	8260B	CJR	1 72	
Chlorobenzene	< 0.05	ug/l	0.05	0.17	1	7/2/2002	8260B	CJR	1 72	
Chloroethane	< 0.6	ug/l	0.6	2.1	1	7/2/2002	8260B	CJR	1 72	
Chloroform	< 0.1	ug/l	0.1	0.36	1	7/2/2002	8260B	CJR	1 72	
Chloromethane	< 0.4	ug/l	0.44	1.5	1	7/2/2002	8260B	CJR	1 72	
2-Chlorotoluene	< 0.16	ug/l	0.16	0.56	1	7/2/2002	8260B	CJR	1 72	
4-Chlorotoluene	< 0.32	ug/l	0.32	1.1	1	7/2/2002	8260B	CJR	1 72	
1,2-Dibromo-3-chloropropane	< 0.09	ug/l	0.09	0.32	1	7/2/2002	8260B	CJR	1 72	
Dibromochloromethane	< 0.06	ug/l	0.06	0.22	1	7/2/2002	8260B	CJR	1 72	
1,4-Dichlorobenzene	< 0.31	ug/l	0.31	1.1	1	7/2/2002	8260B	CJR	1 72	
1,3-Dichlorobenzene	< 0.1	ug/l	0.1	0.37	1	7/2/2002	8260B	CJR	1 72	
1,2-Dichlorobenzene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1 72	
Dichlorodifluoromethane	< 0.22	ug/l	0.22	0.79	1	7/2/2002	8260B	CJR	1 72	
1,2-Dichloroethane	< 0.12	ug/l	0.12	0.42	1	7/2/2002	8260B	CJR	1 72	
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.52	1	7/2/2002	8260B	CJR	1 72	
1,1-Dichloroethene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1 72	
cis-1,2-Dichloroethene	< 0.11	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1 72	
trans-1,2-Dichloroethene	< 0.11	ug/l	0.11	0.4	1	7/2/2002	8260B	CJR	1 72	
1,2-Dichloropropane	< 0.09	ug/l	0.09	0.31	1	7/2/2002	8260B	CJR	1 72	
2,2-Dichloropropane	< 1.5	ug/l	1.5	5	1	7/2/2002	8260B	CJR	1 72	
1,3-Dichloropropane	< 0.09	ug/l	0.09	0.31	1	7/2/2002	8260B	CJR	1 72	
Di-isopropyl ether	< 0.06	ug/l	0.06	0.22	1	7/2/2002	8260B	CJR	1 72	
EDB (1,2-Dibromoethane)	< 0.19	ug/l	0.19	0.66	1	7/2/2002	8260B	CJR	1 72	
Ethylbenzene	6.1	ug/l	0.08	0.28	1	7/2/2002	8260B	CJR	1 72	
Hexachlorobutadiene	< 0.17	ug/l	0.17	0.59	1	7/2/2002	8260B	CJR	1 72	
Isopropylbenzene	< 0.07	ug/l	0.07	0.24	1	7/2/2002	8260B	CJR	1 72	
p-Isopropyltoluene	< 0.12	ug/l	0.12	0.41	1	7/2/2002	8260B	CJR	1 72	
Methylene chloride	< 0.24	ug/l	0.24	0.83	1	7/2/2002	8260B	CJR	1 72	
Methyl tert-butyl ether (MTBE)	< 0.07	ug/l	0.07	0.26	1	7/2/2002	8260B	CJR	1 72	
Naphthalene	< 0.1	ug/l	0.1	0.34	1	7/2/2002	8260B	CJR	1 72	
n-Propylbenzene	< 0.15	ug/l	0.15	0.54	1	7/2/2002	8260B	CJR	1 72	
1,1,2,2-Tetrachloroethane	< 0.11	ug/l	0.11	0.4	1	7/2/2002	8260B	CJR	1 72	
Tetrachloroethene	< 0.15	ug/l	0.15	0.52	1	7/2/2002	8260B	CJR	1 72	
Toluene	0.41	ug/l	0.08	0.29	1	7/2/2002	8260B	CJR	1 72	

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209R							Sample Type Water		
Sample ID PPG-MW51520						Sample Date 6/21/2002			
1,2,4-Trichlorobenzene	< 0.28	ug/l	0.28	1	1	7/2/2002	8260B	CJR	1 72
1,2,3-Trichlorobenzene	< 0.09	ug/l	0.09	0.33	1	7/2/2002	8260B	CJR	1 72
1,1,1-Trichloroethane	< 0.14	ug/l	0.14	0.49	1	7/2/2002	8260B	CJR	1 72
1,1,2-Trichloroethane	< 0.19	ug/l	0.19	0.68	1	7/2/2002	8260B	CJR	1 72
Trichloroethene (TCE)	< 0.13	ug/l	0.13	0.44	1	7/2/2002	8260B	CJR	1 72
Trichlorofluoromethane	< 0.21	ug/l	0.21	0.74	1	7/2/2002	8260B	CJR	1 72
1,2,4-Trimethylbenzene	1.7	ug/l	0.11	0.38	1	7/2/2002	8260B	CJR	1 72
1,3,5-Trimethylbenzene	0.8	ug/l	0.08	0.29	1	7/2/2002	8260B	CJR	1 72
Vinyl Chloride	< 0.16	ug/l	0.16	0.56	1	7/2/2002	8260B	CJR	1 72
m&p-Xylene	44	ug/l	0.21	0.74	1	7/2/2002	8260B	CJR	1 72
o-Xylene	25	ug/l	0.13	0.45	1	7/2/2002	8260B	CJR	1 72

Lab Code 5041209S							Sample Type Soil		
Sample ID PPG-SSMW60708						Sample Date 6/21/2002			

Inorganic

General

Solids Percent	87.7	%			1	6/26/2002	5021	AJV	1
----------------	------	---	--	--	---	-----------	------	-----	---

Organic

General

Gasoline Range Organics	< 10	mg/kg	0.79	2.5	1	6/27/2002	GRO95/8021	SJV	1
-------------------------	------	-------	------	-----	---	-----------	------------	-----	---

VOC's

Benzene	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
Bromobenzene	< 25	ug/kg	8.5	27	1	6/28/2002	8260B	CJR	1
Bromodichloromethane	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
tert-Butylbenzene	< 25	ug/kg	6.5	21	1	6/28/2002	8260B	CJR	1
sec-Butylbenzene	< 25	ug/kg	7.4	24	1	6/28/2002	8260B	CJR	1
n-Butylbenzene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
Carbon Tetrachloride	< 25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
Chlorobenzene	< 25	ug/kg	7.7	24	1	6/28/2002	8260B	CJR	1
Chloroethane	< 25	ug/kg	9	29	1	6/28/2002	8260B	CJR	1
Chloroform	< 25	ug/kg	5.9	19	1	6/28/2002	8260B	CJR	1
Chloromethane	< 25	ug/kg	6.5	21	1	6/28/2002	8260B	CJR	1
2-Chlorotoluene	< 25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5041209S									
Sample ID PPG-SSMW60708									
						Sample Type Soil			
						Sample Date 6/21/2002			
4-Chlorotoluene	<25	ug/kg	5.8	18	1	6/28/2002	8260B	CJR	1
1,2-Dibromo-3-chloropropane	<25	ug/kg	20	62	1	6/28/2002	8260B	CJR	1
Dibromochloromethane	<25	ug/kg	4.3	14	1	6/28/2002	8260B	CJR	1
1,4-Dichlorobenzene	<25	ug/kg	6.2	20	1	6/28/2002	8260B	CJR	1
1,3-Dichlorobenzene	<25	ug/kg	6.4	20	1	6/28/2002	8260B	CJR	1
1,2-Dichlorobenzene	<25	ug/kg	4.9	15	1	6/28/2002	8260B	CJR	1
Dichlorodifluoromethane	<25	ug/kg	22	69	1	6/28/2002	8260B	CJR	1
1,2-Dichloroethane	<25	ug/kg	7.8	25	1	6/28/2002	8260B	CJR	1
1,1-Dichloroethane	<25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1
1,1-Dichloroethene	<25	ug/kg	10	30	1	6/28/2002	8260B	CJR	2
cis-1,2-Dichloroethene	<25	ug/kg	7.2	23	1	6/28/2002	8260B	CJR	1
trans-1,2-Dichloroethene	<25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	2
1,2-Dichloropropane	<25	ug/kg	4.7	15	1	6/28/2002	8260B	CJR	1
2,2-Dichloropropane	<25	ug/kg	11	36	1	6/28/2002	8260B	CJR	1
1,3-Dichloropropane	<25	ug/kg	5.5	17	1	6/28/2002	8260B	CJR	1
Di-isopropyl ether	<25	ug/kg	6.7	21	1	6/28/2002	8260B	CJR	1
EDB (1,2-Dibromoethane)	<25	ug/kg	5.3	17	1	6/28/2002	8260B	CJR	1
Ethylbenzene	<25	ug/kg	7.4	23	1	6/28/2002	8260B	CJR	1
Hexachlorobutadiene	<25	ug/kg	17	54	1	6/28/2002	8260B	CJR	1
Isopropylbenzene	<25	ug/kg	8	26	1	6/28/2002	8260B	CJR	1
p-Isopropyltoluene	<25	ug/kg	6.8	22	1	6/28/2002	8260B	CJR	1
Methylene chloride	<25	ug/kg	7.9	25	1	6/28/2002	8260B	CJR	2
Methyl tert-butyl ether (MTBE)	<25	ug/kg	8.4	27	1	6/28/2002	8260B	CJR	1
Naphthalene	<25	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1
n-Propylbenzene	<25	ug/kg	8.6	27	1	6/28/2002	8260B	CJR	1
1,1,2,2-Tetrachloroethane	<25	ug/kg	5.2	17	1	6/28/2002	8260B	CJR	1
Tetrachloroethene	<25	ug/kg	9.2	29	1	6/28/2002	8260B	CJR	1
Toluene	<25	ug/kg	8.8	28	1	6/28/2002	8260B	CJR	1
1,2,4-Trichlorobenzene	<25	ug/kg	8	25	1	6/28/2002	8260B	CJR	1
1,2,3-Trichlorobenzene	<25	ug/kg	8.3	26	1	6/28/2002	8260B	CJR	1
1,1,1-Trichloroethane	<25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
1,1,2-Trichloroethane	<25	ug/kg	6.3	20	1	6/28/2002	8260B	CJR	1
Trichloroethene (TCE)	<25	ug/kg	10	31	1	6/28/2002	8260B	CJR	1
Trichlorofluoromethane	<25	ug/kg	18	57	1	6/28/2002	8260B	CJR	1

U.S. Analytical Lab

JOSEPH KASPEN
MFG INC
800 VINIAL ST
PITTSBURGH, PA 15212

Project # 120208
Project Name PPG OAK CREEK
Invoice # E41209

Report Date 08-Jul-02

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code	
Lab Code	5041209S					Sample Type	Soil			
Sample ID	PPG-SSMW60708					Sample Date	6/21/2002			
1,2,4-Trimethylbenzene	< 25	ug/kg	8.2	26	1	6/28/2002	8260B	CJR	1	
1,3,5-Trimethylbenzene	< 25	ug/kg	5.6	18	1	6/28/2002	8260B	CJR	1	
Vinyl Chloride	< 25	ug/kg	10	33	1	6/28/2002	8260B	CJR	1	
m&p-Xylene	< 50	ug/kg	13	41	1	6/28/2002	8260B	CJR	1	
o-Xylene	< 25	ug/kg	4.2	13	1	6/28/2002	8260B	CJR	1	

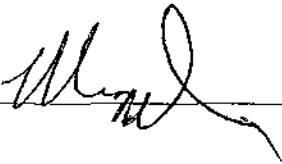
LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code	Comment
1	All laboratory QC requirements were met for this sample.
2	The duplicate RPD failed to meet acceptable QC limits.
7	The LCS spike recovery failed to meet acceptable QC limits.
72	Sample pH greater than 2.0

Authorized Signature



CHAIN OF CUSTODY RECORD



Analytical Lab

1090 Kennedy Ave. • Kimberly, WI 54136
 (920) 735-8295 • FAX 920-739-1738 • 800-490-4902
 LAB@USOIL.COM

rv. Date: 12-17-98

Chain # **32126**

Page 1 of 3

Lab I.D. # 504/209
 Account No. : _____ Quote No.: 7227

Project #: 120208
 Sampler: (signature) [Signature]
 Sample Integrity - To be completed by receiving lab:
 Method of Shipment: COOL Temp. of Temp. Blank: _____ °C On Ice: P
 Cooler seal intact upon receipt: Yes No: _____ Labeled By: GU

Project (Name / Location): PP6 Oak Creek, Wisconsin

Reports To: <u>Mr. Joseph Hamp</u>	Invoice To: <u>SAME</u>	Sample Handling Request _____ Rush Analysis _____ Date Required _____ <input checked="" type="checkbox"/> Normal Turn Around
Company: <u>MFB INC.</u>	Company: <u>SAME</u>	
Address: <u>800 VINCIE ST.</u>	Address: <u>SAME</u>	
City State Zip: <u>ATTSBURGH PA 15212</u>	City State Zip: <u>SAME</u>	
Phone: <u>412-321-2278 x125</u>	Phone (FAX): <u>412-321-2283</u>	

Lab I.D.	Sample I.D.	Collection		No. of Containers Size and Type	Description*	Preservation	Analysis Requested										PID/ FID			
		Date	Time				DRO (Mod/TPH)	GRO (Mod/TPH)	PVOC (EPA 8021)	BTEX (EPA 8021)	VOC (EPA 8021)	VOC (EPA 8260)	VOC DW (EPA 524.2)	O&G (EPA 413.1)	PAH (EPA 8310)	Pb		Flash Point		
A	PP6-556-4055	6/18/02	9:21	1 - 40 ml	S	METHANOL														
B	PP6-556-4055	6/18/02	9:21	1 - 40 ml	S	CHILL		X												
B	PP6-626-1419	6/18/02	10:45	3 - 40 ml	GW	HCL						X								
D	PP6-626-1419	6/18/02	10:45	1 - 12 amber	GW	CHILL / HCL		X												
C	PP6-557-0608	6/18/02	12:47	1 - 40 ml	S								X							
F	PP6-557-0608	6/18/02	11:43	1 - 40 ml	S			X												
D	PP6-627-1520	6/18/02	12:30	3 - 40 ml, 1 - 12 amber	GW	HCL / CHILL		X					X							
E	PP6-5511-1214	6/18/02	18:10	2 - 40 ml	S	methanol / chill		X					X							
F	PP6-6211-0419	6/19/02	08:30	3 - 40 ml, 12 amber	GW	HCL / HCL		X					X							

Department Use Only
 Split Samples: Offered? Yes No
 Accepted? Yes No
 Accepted By: _____

Comments/ Special Instructions
 *Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", etc.

Department Use Optional for Soil Samples
 Disposition of unused portion of sample: _____
 Lab Should: _____
 Dispose: _____ Retain for _____ days
 Return: _____ Other: _____

Relinquished By: (sign) [Signature] Time 6:21:02 Date 12:45 Received By: (sign) [Signature] Time 12:45 Date 6/21/02

Received in Laboratory By: [Signature] Time: 4:00 Date: 6/21/02

CHAIN OF CUSTODY RECORD



Analytical Lab

1090 Kennedy Ave. • Kimberly, WI 54136
(920) 735-8295 • FAX 920-739-1738 • 800-490-4902
LAB@USOIL.COM

Rev. Date: 12-17-98

Chain # 32125

Page 2 of 3

Lab I.D. # 5041209
Account No.: Quote No.: 7227

Project #: 12020E-101-1
Sample Integrity: To be completed by receiving lab.
Method of Shipment: MOVA Temp. of Temp. Blank: °C On Ice
Sampler: (signature) [Signature] Cooler seal intact upon receipt: Yes No Lab coded By: [Signature]

Project (Name / Location): PP6 OAK Creek
Reports To: Mr. Joseph Kasper Invoice To: Same
Company: mfb Inc Company: Same
Address: 800 Vinial Street Address: Same
City State Zip: Pittsburgh, PA 15212 City State Zip: Same
Phone: 412-321-2288 x 125 Phone: 412-321-2283 (FAX)

Analysis Requested										Other Analysis	
DRO (Mod/TPH)	GRO (Mod/TPH)	PVOC (EPA 8021)	BTEX (EPA 8021)	VOC (EPA 8021)	VOC (EPA 8260)	VOC DW (EPA 524.2)	O&G (EPA 413.1)	PAH (EPA 8310)	Pb	Flash Point	PID/FID

Sample Handling Request
 Rush Analysis
Date Required _____
 Normal Turn Around

Lab I.D.	Sample I.D.	Collection		No. of Containers Size and Type	Description*	Preservation	DRO (Mod/TPH)	GRO (Mod/TPH)	PVOC (EPA 8021)	BTEX (EPA 8021)	VOC (EPA 8021)	VOC (EPA 8260)	VOC DW (EPA 524.2)	O&G (EPA 413.1)	PAH (EPA 8310)	Pb	Flash Point	PID/FID
		Date	Time															
G J	PP6-5512-1214	6/19/02	09:37	2-40ml	S	Methanol/Cool	X					X						
H J	PP6-6W12-1020	6/19/02	10:15	3-40 ml, 1-1L Amber	GW	HCL/HCL	X					X						
I J	PP6-6W14-1214	6/19/02	12:50	3-40 ml, 1-1L Amber	GW	HCL/HCL	X					X						
J M	PP6-6W15-0616	6/19/02	14:15	3-40 ml, 1-1L Amber	GW	HCL/HCL	X					X						
K N	PP6-5514-0810	6/19/02	12:39	2-40ml	S	Methanol/Cool	X					X						
L O	PP6-5515-0810	6/19/02	13:55	2-40 ml	S	Methanol/Cool	X					X						
M A	PP6-5516-0204	6/19/02	15:40	2-40 ml	S	Methanol/Cool	X					X						
N O	PP6-5517-1012	6/19/02	16:50	2-40 ml	S	Methanol/Cool	X					X						
O R	PP6-6W16-0710	6/20/02	10:00	2-40 ml, 1-1L Amber	GW	HCL/HCL	X					X						

Department Use Only
Split Samples Offered? Yes No
Accepted? Yes No
Accepted By: _____

Comments/ Special Instructions
*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", etc.

Department Use Optional for Soil Samples
Disposition of unused portion of sample
Lab Should:
 Dispose Retain for _____ days
 Return Other _____

Relinquished By: (sign) _____ Time _____ Date _____ Received By: (sign) _____ Time _____ Date _____
[Signature] 12:45 6-21-02 [Signature] 12:45 6-21-02
[Signature] 4:00 6-21-02
Received in Laboratory By: [Signature] Time: 4:00 Date: 6/21/02

CHAIN OF CUSTODY RECORD



Analytical Lab

1090 Kennedy Ave. • Kimberly, WI 54136
 (920) 735-8295 • FAX 920-739-1738 • 800-490-4902
 LAB@USOIL.COM

v. Date: 12-17-98

Chain # 29381

Page 3 of 3

Lab I.D. # 5091209
 Account No.: _____ Quote No.: 7007

Project #: 120208
 Sampler: (signature) [Signature]

Sample Integrity - To be completed by receiving lab.
 Method of Shipment: COOL Temp. of Temp. Blank: _____ °C On Ice:
 Cooler seal intact upon receipt: Yes No Labcoded By: GU

Project (Name / Location): PP6 OAK Creek

Reports To: Joe Kasper Invoice To: Same
 Company: MFG Inc Company: Same
 Address: 800 Vinson Street Address: Same
 City State Zip: Pittsburgh PA 15212 City State Zip: Same
 Phone: 412-321-2278 x125 Phone: 412 321 2283 FAX: _____

Sample Handling Request
 Rush Analysis
 Date Required _____
 Normal Turn Around

Analysis Requested

Analysis Requested										Other Analysis	
DRO (Mod/TPH)	GRO (Mod/TPH)	PVOC (EPA 8021)	BTEX (EPA 8021)	VOC (EPA 8021)	VOC (EPA 8260)	VOC DW (EPA 524.2)	O&G (EPA 413.1)	PAH (EPA 8310)	Pb	Flash Point	PID/FID
		X			X						
		X			X						
		X			X						
		X			X						

Lab I.D.	Sample I.D.	Collection Date	Collection Time	No. of Containers Size and Type	Description*	Preservation
P S	PP6-GW MW 60	6/21/02	10:00	3-40 ml, 1-12 amber	GW	HCL/HCL
G F	PP6-GW MW 5-0313	6/21/02	11:00	3-40 ml, 1-12 amber	GW	HCL/HCL
P S	PP6-MW 5-1520			3-40 ml, 1-12	GW	HCL/HCL
S	PP6-SS MW 6-0708				S	

Department Use Only
 Split Samples Offered? Yes No
 Accepted? Yes No
 Accepted By: _____

Comments/ Special Instructions
 *Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", etc.
PP6-MW 5-1520 (GW) PP6-SS MW 6-0708 (S) - NOT ON CCL. RUN AND ADD TO CCL FOR GLO/VOL per J.K. CCL 4/21/02

Department Use Optional for Soil Samples
 Disposition of unused portion of sample
 Lab Should: _____
 Dispose Retain for _____ days
 Return Other _____

Relinquished By: (sign) [Signature] Time 12:45 Date 6-21-02
 Received By: (sign) [Signature] Time 4:00 Date 6-21-02
 Received in Laboratory By: [Signature] Time: 4:00 Date: 6/21/02

ATTACHMENT C



Client Name: McCully, Frick, & Gillman
Contact: Joseph Kasper
Address: 800 Vinial Street
Building A
Pittsburgh, PA 15212

Page 1 of 6
Order #: P0207085
Report Date: 07/11/02
Client Proj Name: PPG Oak Creek WI
Client Proj #: 120208-100

Sample Identification

Lab Sample # Client Sample ID

P0207085-01	MW 2 300
207085-02	MW 2 330
207085-03	MW 3 350
P0207085-04	MW 4 420
P0207085-05	MW 4 530

Approved By: _____

Rebecca G. [Signature]

Order #: P0207085
 Report Date: 07/11/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: 120208-100

Client Name: McCully, Frick, & Gillman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0207085-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW 2 300	Vapor	02 Jul. 02 15:00	08 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>RiskAnalysis</u>						
<u>Vapor</u>						
Benzene	< 0.10	0.10	PPMV	AM4.02	mm	7/10/02
Ethylbenzene	410	0.10	PPMV	AM4.02	mm	7/10/02
m&p-Xylene	2300	0.20	PPMV	AM4.02	mm	7/10/02
o-Xylene	750	0.10	PPMV	AM4.02	mm	7/10/02
Toluene	4.0	0.10	PPMV	AM4.02	mm	7/10/02
Total TPH C4-C12	3400	0.70	PPMV	AM4.02	mm	7/10/02

Order #: P0207085
 Report Date: 07/11/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: 120208-100

Client Name: McCully, Frick, & Gillman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0207085-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW 2 330	Vapor	02 Jul. 02 15:30	08 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
-------------------	---------------	------------	--------------	-----------------	----------------	----------------------

RiskAnalysis

Vapor						
Benzene	< 0.10	0.10	PPMV	AM4.02	mm	7/10/02
Ethylbenzene	240	0.10	PPMV	AM4.02	mm	7/10/02
m&p-Xylene	1600	0.20	PPMV	AM4.02	mm	7/10/02
o-Xylene	570	0.10	PPMV	AM4.02	mm	7/10/02
Toluene	6.5	0.10	PPMV	AM4.02	mm	7/10/02
Total TPH C4-C12	2400	0.70	PPMV	AM4.02	mm	7/10/02

Order #: P0207085
 Report Date: 07/11/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: 120208-100

Client Name: McCully, Frick, & Gillman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0207085-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW 3 350	Vapor	02 Jul. 02 15:50	08 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
-------------------	---------------	------------	--------------	-----------------	----------------	----------------------

RiskAnalysis

Vapor						
benzene	< 0.10	0.10	PPMV	AM4.02	mm	7/10/02
Ethylbenzene	55	0.10	PPMV	AM4.02	mm	7/10/02
m&p-Xylene	390	0.20	PPMV	AM4.02	mm	7/10/02
o-Xylene	120	0.10	PPMV	AM4.02	mm	7/10/02
toluene	6.0	0.10	PPMV	AM4.02	mm	7/10/02
Total TPH C4-C12	700	0.70	PPMV	AM4.02	mm	7/10/02

Order #: P0207085
 Report Date: 07/11/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: 120208-100

Client Name: McCully, Frick, & Gillman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0207085-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW 4 420	Vapor	02 Jul. 02 16:20	08 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
RiskAnalysis						
Vapor						
Benzene	< 0.10	0.10	PPMV	AM4.02	mm	7/10/02
Ethylbenzene	20	0.10	PPMV	AM4.02	mm	7/10/02
m&p-Xylene	140	0.20	PPMV	AM4.02	mm	7/10/02
o-Xylene	55	0.10	PPMV	AM4.02	mm	7/10/02
Toluene	2.2	0.10	PPMV	AM4.02	mm	7/10/02
Total TPH C4-C12	290	0.70	PPMV	AM4.02	mm	7/10/02

Order #: P0207085
 Report Date: 07/11/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: 120208-100

Client Name: McCully, Frick, & Gilman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0207085-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW 4 530	Vapor	02 Jul. 02 17:30	08 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
RiskAnalysis						
Vapor						
Benzene	< 0.10	0.10	PPMV	AM4.02	mm	7/10/02
Ethylbenzene	140	0.10	PPMV	AM4.02	mm	7/10/02
m&p-Xylene	750	0.20	PPMV	AM4.02	mm	7/10/02
o-Xylene	230	0.10	PPMV	AM4.02	mm	7/10/02
Toluene	3.0	0.10	PPMV	AM4.02	mm	7/10/02
Total TPH C4-C12	1100	0.70	PPMV	AM4.02	mm	7/10/02

PO207085

CHAIN - OF - CUSTODY RECORD

Phone: (412) 826-5245 **Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238** Fax No.: (412) 826-3433

Company: MFG, Inc.
 Co. Address: 800 Vinal Str Bldg A Pittsburgh PA 15212
 Proj. Manager: Joe Kasper
 Proj. Location: PPG 10800 S. 13th Str Oak Creek WI 53154
 Proj. Number: 120208-100
 Phone #: (412) 321-2278 Fax #: (412) 321-2283

Parameters Requested	
BTEX	TPH

Results to: Mike Schultz
(281)890-5044 fax
 Invoice to: Joe Kasper
MFG Inc.
800 Vinal Str. Bldg A
Pittsburgh PA 15212

Sampler's signature: Mike Schultz

Sample ID	Sample Description	Date	Time	Comp.	Grab	# Cont.	Cooler ID		Cooler Temp.		Remarks
01	MW-2 3:00	7/2/02	3:00		✓	2	0	B			air sample
02	MW-2 3:30	7/2/02	3:30		✓	2	0	B			" "
03	MW-3 3:50	7/2/02	3:50		✓	2	0	B			" "
04	MW-4 4:20	7/2/02	4:20		✓	2	0	B			" "
05	MW-4 5:30	7/2/02	5:30		✓	2	0	B			" "

Relinquished by: <u>Mike Schultz</u>	Company: <u>MFG, Inc.</u>	Date: <u>7/3/02</u>	Time: <u>0800</u>	Received by: <u>Roman</u>	Company: <u>MICROSEEPS</u>	Date: <u>7/5/02</u>	Time: <u>1047</u>
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:



Client Name: McCully, Frick, & Gillman
Contact: Joseph Kasper
Address: 800 Vinial Street
Building A
Pittsburgh, PA 15212

Page 1 of 6
Order #: P0207323
Report Date: 07/25/02
Client Proj Name: PPG Oak Creek WI
Client Proj #: 120208-100

Sample Identification

Lab Sample # Client Sample ID

P0207323-01	MW-1A
P0207323-02	MW-1B
P0207323-03	MW-1C
P0207323-04	MW-3A
P0207323-05	MW-3B

Approved By: _____

NOTES: TPH C4-C12 analysis on all samples was deleted per client request on 7/23/02.

Order #: P0207323
 Report Date: 07/25/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: 120208-100

Client Name: McCully, Frick, & Gillman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0207323-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-1A	Vapor	19 Jul. 02 9:30	22 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
-------------------	---------------	------------	--------------	-----------------	----------------	----------------------

RiskAnalysis

Vapor						
benzene	< 0.10	0.10	PPMV	AM4.02	mm	7/24/02
ethylbenzene	140	0.10	PPMV	AM4.02	mm	7/24/02
m&p-Xylene	830	0.20	PPMV	AM4.02	mm	7/24/02
o-Xylene	260	0.10	PPMV	AM4.02	mm	7/24/02
toluene	3.4	0.10	PPMV	AM4.02	mm	7/24/02

Order #: P0207323
 Report Date: 07/25/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: 120208-100

Client Name: McCully, Frick, & Gillman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0207323-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-1B	Vapor	19 Jul. 02 11:30	22 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>RiskAnalysis</u>						
<u>Vapor</u>						
benzene	< 0.10	0.10	PPMV	AM4.02	mm	7/24/02
ethylbenzene	290	0.10	PPMV	AM4.02	mm	7/24/02
m&p-Xylene	1700	0.20	PPMV	AM4.02	mm	7/24/02
o-Xylene	550	0.10	PPMV	AM4.02	mm	7/24/02
toluene	3.8	0.10	PPMV	AM4.02	mm	7/24/02

Order #: P0207323
 Report Date: 07/25/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: 120208-100

Client Name: McCully, Frick, & Gillman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0207323-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-1C	Vapor	19 Jul. 02 13:30	22 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
RiskAnalysis						
Vapor						
benzene	< 0.10	0.10	PPMV	AM4.02	mm	7/24/02
Ethylbenzene	230	0.10	PPMV	AM4.02	mm	7/24/02
m&p-Xylene	1300	0.20	PPMV	AM4.02	mm	7/24/02
o-Xylene	400	0.10	PPMV	AM4.02	mm	7/24/02
toluene	5.2	0.10	PPMV	AM4.02	mm	7/24/02

Order #: P0207323
 Report Date: 07/25/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: 120208-100

Client Name: McCully, Frick, & Gillman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0207323-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-3A	Vapor	19 Jul. 02 14:00	22 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>RiskAnalysis</u>						
<u>Vapor</u>						
Benzene	< 0.10	0.10	PPMV	AM4.02	mm	7/24/02
Ethylbenzene	51	0.10	PPMV	AM4.02	mm	7/24/02
m&p-Xylene	380	0.20	PPMV	AM4.02	mm	7/24/02
o-Xylene	130	0.10	PPMV	AM4.02	mm	7/24/02
Toluene	2.7	0.10	PPMV	AM4.02	mm	7/24/02

Order #: P0207323
 Report Date: 07/25/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: 120208-100

Client Name: McCully, Frick, & Gillman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0207323-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-3B	Vapor	19 Jul. 02 15:30	22 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>RiskAnalysis</u>						
Vapor						
benzene	< 0.10	0.10	PPMV	AM4.02	mm	7/24/02
ethylbenzene	73	0.10	PPMV	AM4.02	mm	7/24/02
m&p-Xylene	630	0.20	PPMV	AM4.02	mm	7/24/02
o-Xylene	200	0.10	PPMV	AM4.02	mm	7/24/02
toluene	2.5	0.10	PPMV	AM4.02	mm	7/24/02

CHAIN - OF - CUSTODY RECORD

P0207323

Phone: (412) 826-5245 Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 Fax No.: (412) 826-3433

Company : # MEG
 Co. Address : _____
 Proj. Manager: Joe Casper
 Proj. Location: Oak Creek, WI
 Proj. Number: _____
 Phone # : 412-321-2278 Fax # : _____

Parameters Requested									

Results to : Joe Casper

 Invoice to :

Sampler's signature : Rick H. Sall

Cooler ID	Cooler Temp.
—	—

01
02
03
04
05

Sample ID	Sample Description	Date	Time	Comp.	Grab	# Cont.	BTEX	Remarks
MW-1A	MW-1A <u>offgas from pump truck</u>	7-16-02	0930		✓	2	✓	Call Joe for his address / phone #
MW-1B	↓		1130		✓	1	✓	
MW-1C	↓		1330		✓	1	✓	
MW-3A	↓		1400		✓	1	✓	
MW-3B	↓		1530		✓	1	✓	

Relinquished by : <u>RH Sall</u>	Company : <u>Geotek Inc</u>	Date : <u>7-16-02</u>	Time : <u>1730</u>	Received by : <u>[Signature]</u>	Company : <u>Microseeps</u>	Date : <u>7/16/02</u>	Time : <u>1054</u>
Relinquished by : _____	Company : _____	Date : _____	Time : _____	Received by : _____	Company : _____	Date : _____	Time : _____
Relinquished by : _____	Company : _____	Date : _____	Time : _____	Received by : _____	Company : _____	Date : _____	Time : _____

MICROSEEPS



Client Name: McCully, Frick, & Gillman
Contact: Joseph Kasper
Address: 800 Vinial Street
Building A
Pittsburgh, PA 15212

Page 1 of 6
Order #: P0207449
Report Date: 08/06/02
Client Proj Name: PPG Oak Creek WI
Client Proj #: C860

Sample Identification

Lab Sample # Client Sample ID

P0207449-01	MW-3A
0207449-02	MW-3B
0207449-03	MW-2A
P0207449-04	MW-2A DUP
0207449-05	MW-2B

Approved By: _____



Order #: P0207449
 Report Date: 08/06/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: C860

Client Name: McCully, Frick, & Gillman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0207449-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-3A	Vapor	26 Jul. 02 9:15	29 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>RiskAnalysis</u>						
<u>Vapor</u>						
benzene	< 0.10	0.10	PPMV	AM4.02	mm	8/5/02
ethylbenzene	270	0.10	PPMV	AM4.02	mm	8/5/02
m&p-Xylene	1500	0.20	PPMV	AM4.02	mm	8/5/02
o-Xylene	440	0.10	PPMV	AM4.02	mm	8/5/02
toluene	4.1	0.10	PPMV	AM4.02	mm	8/5/02

Order #: P0207449
Report Date: 08/06/02
Client Proj Name: PPG Oak Creek WI
Client Proj #: C860

Client Name: McCully, Frick, & Gillman
Contact: Joseph Kasper
Address: 800 Vinial Street
Building A
Pittsburgh, PA 15212

Lab Sample #: P0207449-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-3B	Vapor	26 Jul. 02 11:30	29 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
-------------------	---------------	------------	--------------	-----------------	----------------	----------------------

RiskAnalysis

Vapor						
Benzene	< 0.10	0.10	PPMV	AM4.02	mm	8/5/02
Ethylbenzene	75	0.10	PPMV	AM4.02	mm	8/5/02
m&p-Xylene	460	0.20	PPMV	AM4.02	mm	8/5/02
o-Xylene	150	0.10	PPMV	AM4.02	mm	8/5/02
Toluene	5.7	0.10	PPMV	AM4.02	mm	8/5/02

Order #: P0207449
 Report Date: 08/06/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: C860

Client Name: McCully, Frick, & Gilman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0207449-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-2A	Vapor	26 Jul. 02 13:30	29 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
-------------------	---------------	------------	--------------	-----------------	----------------	----------------------

RiskAnalysis

Vapor						
Benzene	< 0.10	0.10	PPMV	AM4.02	mm	8/5/02
Ethylbenzene	180	0.10	PPMV	AM4.02	mm	8/5/02
m&p-Xylene	1100	0.20	PPMV	AM4.02	mm	8/5/02
o-Xylene	380	0.10	PPMV	AM4.02	mm	8/5/02
Toluene	3.1	0.10	PPMV	AM4.02	mm	8/5/02

Order #: P0207449
 Report Date: 08/06/02
 Client Proj Name: PPG Oak Creek Wt
 Client Proj #: C860

Client Name: McCully, Frick, & Gillman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0207449-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-2A DUP	Vapor	26 Jul. 02 13:35	29 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>RiskAnalysis</u>						
Vapor						
benzene	< 0.10	0.10	PPMV	AM4.02	mm	8/5/02
Ethylbenzene	140	0.10	PPMV	AM4.02	mm	8/5/02
m&p-Xylene	890	0.20	PPMV	AM4.02	mm	8/5/02
o-Xylene	320	0.10	PPMV	AM4.02	mm	8/5/02
toluene	4.0	0.10	PPMV	AM4.02	mm	8/5/02

Order #: P0207449
 Report Date: 08/06/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: C860

Client Name: McCully, Frick, & Gillman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0207449-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-2B	Vapor	26 Jul. 02 15:00	29 Jul. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
-------------------	---------------	------------	--------------	-----------------	----------------	----------------------

RiskAnalysis

Vapor						
benzene	< 0.10	0.10	PPMV	AM4.02	mm	8/5/02
Ethylbenzene	60	0.10	PPMV	AM4.02	mm	8/5/02
m&p-Xylene	390	0.20	PPMV	AM4.02	mm	8/5/02
o-Xylene	130	0.10	PPMV	AM4.02	mm	8/5/02
toluene	3.0	0.10	PPMV	AM4.02	mm	8/5/02

CHAIN - OF - CUSTODY RECORD

P0207449

Phone: (412) 826-5245 **Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238** Fax No.: (412) 826-3433

Company : MFG Inc
 Co. Address : 800 Vinal St. Building A, Pittsburg PA 15212-1528
 Proj. Manager: Joe Casper
 Proj. Location: Oak Creek WE
 Proj. Number: C860
 Phone #: 412/321-2278 x125 Fax #: 412/321-2283

Parameters Requested									

Results to : Joe Casper
 Invoice to : Same

Sampler's signature : *R. A. Small*

Cooler ID	Cooler Temp.

01
02
03
04
05

2002							BTEX	Remarks
Sample ID	Sample Description	Date	Time	Comp.	Grab	# Cont.		
MW-3A	SVE vapor	7-26	0915		✓	2	✓	
MW-3B	↓	↓	1130		✓	2	✓	
MW-2A	↓	↓	1330		✓	2	✓	
MW-2A D.P	↓	↓	1335		✓	2	✓	
MW-2B	↓	↓	1500		✓	2	✓	

Relinquished by : <u><i>R. A. Small</i></u>	Company : <u>Geotrus</u>	Date : <u>7-26-02</u>	Time : <u>1700</u>	Received by : <u><i>P. Romano</i></u>	Company : <u>Microseeps</u>	Date : <u>7/26/02</u>	Time : <u>1034</u>
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

MICROSEEPS



Client Name: McCully, Frick, & Gillman
Contact: Joseph Kasper
Address: 800 Vinial Street
Building A
Pittsburgh, PA 15212

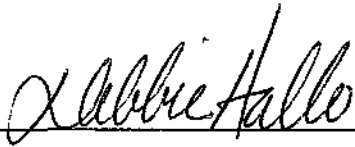
Page 1 of 4
Order #: P0208159
Report Date: 08/19/02
Client Proj Name: PPG Oak Creek WI
Client Proj #: C860

Sample Identification

Lab Sample # Client Sample ID

0208159-01	MW-3A
0208159-02	MW-2A
P0208159-03	MW-2B

Approved By:



Order #: P0208159
 Report Date: 08/19/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: C860

Client Name: McCully, Frick, & Gillman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0208159-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-3A	Vapor	09 Aug. 02 10:40	12 Aug. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>Risk Analysis</u>						
Vapor						
Benzene	< 0.10	0.10	PPMV	AM4.02	mm	8/14/02
Ethylbenzene	20	0.10	PPMV	AM4.02	mm	8/14/02
m&p-Xylene	150	0.20	PPMV	AM4.02	mm	8/14/02
o-Xylene	53	0.10	PPMV	AM4.02	mm	8/14/02
Toluene	0.32	0.10	PPMV	AM4.02	mm	8/14/02

Order #: P0208159
 Report Date: 08/19/02
 Client Proj Name: PPG Oak Creek WI
 Client Proj #: C860

Client Name: McCully, Frick, & Gillman
 Contact: Joseph Kasper
 Address: 800 Vinial Street
 Building A
 Pittsburgh, PA 15212

Lab Sample #: P0208159-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-2A	Vapor	09 Aug. 02 13:00	12 Aug. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>RiskAnalysis</u>						
<u>Vapor</u>						
Benzene	< 0.10	0.10	PPMV	AM4.02	mm	8/14/02
Ethylbenzene	56	0.10	PPMV	AM4.02	mm	8/14/02
m&p-Xylene	400	0.20	PPMV	AM4.02	mm	8/14/02
o-Xylene	140	0.10	PPMV	AM4.02	mm	8/14/02
Toluene	0.63	0.10	PPMV	AM4.02	mm	8/14/02

Order #: P0208159
Report Date: 08/19/02
Client Proj Name: PPG Oak Creek WI
Client Proj #: C860

Client Name: McCully, Frick, & Gillman
Contact: Joseph Kasper
Address: 800 Vinial Street
Building A
Pittsburgh, PA 15212

Lab Sample #: P0208159-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-2B	Vapor	09 Aug. 02 15:15	12 Aug. 02

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>Risk Analysis</u>						
Vapor						
Benzene	< 0.10	0.10	PPMV	AM4.02	mm	8/14/02
o-Xylylbenzene	51	0.10	PPMV	AM4.02	mm	8/14/02
m&p-Xylene	350	0.20	PPMV	AM4.02	mm	8/14/02
p-Xylene	120	0.10	PPMV	AM4.02	mm	8/14/02
Toluene	0.53	0.10	PPMV	AM4.02	mm	8/14/02

MFG OFFICE LOCATIONS

CALIFORNIA

Arcata
Irvine
San Francisco

COLORADO

Boulder
Fort Collins

IDAHO

Osburn

MONTANA

Missoula

NEW JERSEY

Edison

OREGON

Portland

PENNSYLVANIA

Pittsburgh

TEXAS

Austin
Fort Worth
Houston
Port Lavaca
Texarkana

WASHINGTON

Seattle

CORPORATE HEADQUARTERS

MFG, Inc.
4900 Pearl East Circle
Suite 300W
Boulder, Colorado 80301-6118
303/447-1823
303/447-1836/FAX
www.mfgenv.com