FPM group — Engineering and Environmental Science

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February 16, 2005

Mr. Joseph Jones
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, NY 12233

Re: **Bi-annual Groundwater Monitoring and Status Report**
Arkwin Industries Site
NYSDEC Registry # 1-30-043D
FPM File No. 652-05-06

Dear Mr. Jones:

In accordance with the groundwater and remediation system monitoring schedule outlined in the November 2000 Groundwater Remediation Work Plan (GRWP) with addendums (January 2002) and the March 2003 Operation, Maintenance and Monitoring Plan (OMMP) for the above-referenced site, as approved by the New York State Department of Environmental Conservation (NYSDEC), the fourth round of bi-annual groundwater monitoring was performed by FPM Group (FPM) on October 13, 2004. Wells AIMW-10A, AIMW-10B, AIMW-11A, AIMW-11B, MW-4 and MW-7, situated hydraulically downgradient of the site, were sampled to evaluate the performance of the two air sparge/soil vapor extraction (AS/SVE) groundwater remediation systems, which were placed into operation in November 2002. In addition, seven upgradient monitoring wells, AIMW-8A, AIMW-8B, AIMW-9A, AIMW-9B, MW-1, MW-2 and MW-3, were sampled to monitor the contamination migrating onto the site from offsite sources. A site plan showing the well locations is included as Plate 1. This report also includes a discussion of the operation and maintenance activities performed on the AS/SVE systems.

Groundwater Monitoring Procedures

The wells to be sampled were purged of at least three but no more than five casing volumes of water using a dedicated disposable bailer. Following the removal of each casing volume of water, the parameters turbidity, pH, conductivity, and temperature were measured to determine if equilibrium had been reached. In general, all parameters except for turbidity had stabilized following the removal of three casing volumes of water. Turbidity was noted to exceed 50 nephelometric turbidity units (NTUs) in most of the wells following purging. Therefore, to reduce sample turbidity, the wells were allowed to stand undisturbed for approximately one to two hours prior to sampling. Well purging data were recorded on well sampling forms, which are included in Attachment A.

Following purging, each well was sampled using a disposable bailer. The retrieved samples were transferred into laboratory-supplied sample bottles and the filled sample bottles were labeled and placed in a cooler with ice to depress the sample temperature. A chain of custody form was completed and kept with the filled coolers to document the sequence of sample possession. The filled coolers were transmitted via overnight courier to Severn-Trent Laboratories, a New York State Department of Health NELAP-certified laboratory. All samples were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs) by NYSDEC ASP methods with Category B deliverables. The laboratory report is included in Attachment B.

Quality Assurance/Quality Control

Several types of quality assurance/quality control (QA/QC) samples were obtained during the groundwater sampling. One equipment blank sample was prepared by pouring laboratory-supplied deionized water through the sampling apparatus and capturing the liquid in the appropriate sample bottles. The equipment blank sample was tested for the same parameters as the associated primary environmental samples. The equipment blank sample results were evaluated to determine the potential for either laboratory or field contamination and attest to the quality of the equipment decontamination procedures.

No compounds were detected in the equipment blank sample results (AIMW-11E) and, therefore, it does not appear that equipment or procedures utilized during sampling activities have affected the laboratory analytical results.

A blind duplicate sample was also collected and was analyzed for the same constituents as the associated parent sample. The results were utilized to evaluate the precision of the laboratory analysis. Blind duplicate sample results are summarized in Table 1 together with the results from the associated parent sample. The results from the blind duplicate sample (MW-12) and associated parent groundwater sample (MW-2) are very similar and, therefore, the laboratory results are likely to be reasonably precise.

A trip blank sample was submitted with each cooler that contained samples for VOC analysis. The trip blank sample consists of two filled, preserved, and unopened vials of laboratory water which are kept with the unfilled sample bottles and transported to the laboratory with the filled sample bottles in the coolers. The purpose of the trip blank sample is to provide an indication of the potential for cross-contamination of the VOC samples within the coolers. The trip blank sample results (trip blank) are summarized in Table 1. Methylene chloride was detected at a low estimated concentration that is B-qualified. The B-qualification indicates that this compound was identified in an associated laboratory blank. Given the absence of this compound in the primary samples and its detection in a laboratory blank, it does not appear that cross-contamination is a concern for the environmental samples.

Matrix spike/matrix spike duplicate (MS/MSD) samples consist of field samples spiked with known concentrations of the analytes of interest for the purpose of assessing the effect of the matrix on the reliability of the analytical results. Spiking occurs in the laboratory prior to sample preparation and analysis. One MS/MSD sample was collected during this sampling event. The MS/MSD results are included in the chemical analytical data package in Attachment B. Based on information provided by the analytical laboratory, the MS/MSD results were within QC limits

and, therefore, it appears that there are no matrix-related effects associated with the analytical results.

Other laboratory QA/QC samples include method blank samples. The method blank sample results are included in the chemical analytical data package in Attachment B. The results indicate that there were no detected compounds in the laboratory method blank samples with the exception of a low estimated concentration of methylene chloride in one method blank sample. Methylene chloride is a common laboratory contaminant and was also detected in the trip blank, but was not detected in any of the environmental samples. Therefore, these detections do not appear to have affected the sample results.

Finally, the laboratory also utilized spiked laboratory control samples (LCSs) to evaluate accuracy of the laboratory results. A review of the LCS results included in Attachment B indicates that all of the surrogate compound recoveries were within their allowable recovery limits. Therefore, these results suggest that the laboratory results are accurate for the primary environmental samples.

In summary, based on the results of the QA/QC samples, the chemical analytical data from the groundwater samples collected during this sampling event may generally be relied upon and no significant field or laboratory contamination appears to be present.

Groundwater Monitoring Results

Depth-to-groundwater measurements were recorded at nine shallow-screened monitoring wells and incorporated with measured well top of casing elevations to develop a water table elevation contour map. The water table elevation and total VOC concentration for each well are shown on Plate 1. The groundwater flow direction is to the south-southwest, which is consistent with previous groundwater flow direction measurements.

The results of the October 2004 sampling, including total site-specific target VOC concentrations (as specified in the November 2000 GRWP) and total VOC concentrations, are summarized in Table 2 together with historical sampling results. The chemical analytical laboratory report is included in Attachment B. Several VOCs were detected at each of the upgradient and downgradient wells, with the exceptions of wells AIMW-9A, AIMW-10B, AIMW-11B, MW-3, MW-1 and MW-7, where no VOCs were detected.

VOCs that exceeded the NYSDEC Standards were noted at shallow-screened (0 to 10 feet below the water table) wells MW-2 and AIMW-8A, which are located upgradient of the eastern AS/SVE system. These data indicate that total VOCs at concentrations of up to 28.11 micrograms per liter (ug/l) continue to migrate onsite from offsite sources. No VOCs exceeding NYSDEC Standards were noted at intermediate-level well AIMW-8B, which is also located upgradient of the eastern system. It should be noted that the primary VOC noted in the two shallow upgradient wells is trichloroethylene (TCE), which is not a site-related contaminant.

Exceedances of NYSDEC Standards were noted at shallow-screened wells AIMW-11A and MW-4 located downgradient of the eastern AS/SVE system. It should be noted that the primary VOC detected in well MW-4 is TCE, which is not a site-related contaminant and is migrating onsite from an upgradient source. At well AIMW-11A several VOCs, including site-related VOCs, were noted to exceed the NYSDEC Standards and, therefore, site-related impacts

remain present at this well. In general, the detected VOC concentrations have continued to decrease, although some variability is noted.

VOCs were not detected in shallow-screened wells AIMW-9A or MW-3 situated upgradient of the western AS/SVE system. Only low levels of VOCs, below the NYSDEC Standards, were detected in intermediate-screened well AIMW-9B, located upgradient of the western AS/SVE system. These data indicate that no significant concentrations of VOCs are migrating onsite from offsite sources upgradient of the western AS/SVE system.

No VOCs were detected above NYSDEC Standards downgradient of the western AS/SVE system. Targeted VOCs were not detected in either of these wells. Therefore, site-related VOC impacts are no longer present downgradient of the western system.

In summary, VOC concentrations have continued to remain low or have decreased in wells situated downgradient of the former source areas. The 648 Main Street former source area (western system) has showed significant declines and VOC impacts no longer appear to be present downgradient or upgradient of this system.

VOC concentrations downgradient of the 66 Brooklyn Avenue former source area (eastern system) have also declined although some site-related VOCs remain present, primarily at well AIMW-11A. The eastern system continues to be impacted by an upgradient offsite plume of TCE.

AS System Monitoring

In accordance with the OMMP, both remediation System A (66 Brooklyn Avenue) and System B (648 Main Street) are checked on a monthly basis by FPM personnel to ensure proper operation and to perform routine maintenance tasks. In addition, Arkwin personnel perform weekly system checks to ensure system operation and to notify FPM of any system irregularities. The AS/SVE systems were in place and on line in November 2002 and have generally been in continuous operation since that time, with the exception of down time for regular moisture removal (especially during the colder months). However, following the repair of the System B compressor in September 2004, the compressor failed again in late November 2004 and has not operated since that time.

Monitoring of the AS systems has been conducted by regularly monitoring air injection flow rates and injection pressures to ensure proper AS system operation, and by measuring the concentration of dissolved oxygen (DO) in monitoring wells within the radius of influence or in close proximity of the AS wells. The DO levels for well MW-4 (situated in proximity to System A) and well MW-7 (situated within the radius of influence of System B) were noted to be 8.16 mg/l and 7.99 mg/l, respectively. DO levels collected prior to remediation system operation ranged from 7.1 to 7.5 mg/l in these wells.

SVE System Monitoring

Two sets of effluent samples were collected from each system to evaluate emissions compliance during the third and fourth quarters of 2004. The samples were transmitted to a NELAP-approved laboratory for analysis of VOCs by EPA Method TO14. The laboratory reports are included in Attachment B.

The results are summarized on Table 3 and indicate that effluent total chlorinated VOC concentrations generally increased throughout this monitoring period in System A (eastern system), from 103 parts per billion per volume (ppbv) in September 2004 to 363 ppbv in December 2004. The increase in concentrations is likely attributed to the system being restarted (system offline on arrival due to high condensate level) the day it was sampled and will likely decrease upon equilibration. It should be noted that a decrease in VOC concentrations was noted between the June 2004 and September 2004 and is consistent with the system's downward trend in mass removal. Several petroleum-related and fluorinated compounds were also noted at generally low concentrations in the SVE effluent. These compounds have previously been periodically detected in the SVE effluent at low concentrations and their source is not known. None of these compounds were detected in the groundwater samples.

Effluent concentrations were noted to remain relatively unchanged in System B from 243 ppbv in June 2004 to 248 ppbv in September 2004. However, concentrations were noted to decline during the December 2004 sampling event and may be related to the improved groundwater quality in the vicinity of this system.

To ensure compliance with effluent guidelines, FPM previously calculated the various air impacts and compared them to the applicable annual guideline concentration (AGC) and short-term guideline concentration (SGC) for each compound identified as a site concern, as specified in NYSDEC's DAR-1 Guidelines for the Control of Toxic and Ambient Air Contaminants. These calculations were presented in the OMMP prepared in March 2003 and indicated that following startup, slight exceedances were noted, but upon resampling the levels had dropped to below each compound's respective AGC and SGC. The concentrations detected in the September and December 2004 SVE effluent samples remained below the AGCs and SGCs. Based upon compliance with the AGCs and SGCs, no effluent treatment is required at this time. FPM will continue to sample the SVE effluent on a quarterly basis to ensure compliance with the applicable guidelines.

Total VOC Mass Removal Estimate

An estimate of the total pounds of VOCs removed for each SVE system was calculated and indicates that since startup, estimated totals of approximately 353.45 pounds and approximately 378.41 pounds of VOCs have been removed by Systems A and B, respectively, as shown in Table 3. The removed mass of each compound is calculated is as follows:

VOC removed in pounds/day = (flow rate in cfm) (1440 mins/day) (laboratory VOC concentration in ppb) (1/volume of 1 mole VOC at 35°C) (total VOC molecular weight in grams/mole) (various unit conversions)

For example, for the VOC tetrachloroethylene, the calculation for December 2004 in System A is as follows:

tetrachloroethylene removed (pounds per day) = (105 ft^3/min) (1440 mins/day) (19 ppb) (1 mole/25.27 liters) (165.83 g/mole) (2.203 pounds/1,000 g) (28.32 l/ft^3) (1/10^9)

tetrachloroethylene removed (pounds per day) = 0.00117 lbs/day = 1.2 * 10^{-3} lbs/day

Once the estimated daily loading rate is computed, it is then multiplied by the number of operating days to yield an estimated total mass removed for the specific compound. Similar calculations are performed for each additional VOC of concern and then a cumulative total is calculated to yield an estimated mass removed, as shown in Table 3.

The data for VOC mass removal rates indicate that the majority of the VOC mass was removed following system startup and that removal rates are decreasing over time, as expected. The total mass of VOCs removed from Systems A and B in the first half of 2004 was only 2.12 pounds and 1.11 pounds, respectively. Figure 1 shows graphically the total VOC mass removed over time for each system.

Summary and Recommendations

Based on the current groundwater chemical analytical data in the vicinity of the 66 Brooklyn Avenue system (System A, Eastern System), groundwater VOC contamination remains present in the shallow groundwater downgradient of the formerly-impacted leaching pools, although the concentrations are decreasing. No impacts are noted in intermediate-level groundwater. Impacted groundwater containing TCE, which is not a site-related VOC, is also migrating onsite in this area from upgradient sources.

Groundwater chemical analytical data in the vicinity and downgradient of the 648 Main Street system (System B, Western System) has shown a decrease to non-detect for all site-specific targeted compounds. Intermediate-level groundwater remains unimpacted. Shallow groundwater upgradient of the western system no longer contains detectable concentrations of VOCs.

The following recommendations are made for the site:

- Based on the October 2004 chemical analytical results, FPM recommends that the remediation system situated at 648 Main Street (System B, western system) remain offline as the shut-down closure criteria specified in the NYSDEC-approved November 2000 GRWP have been achieved. Bi-annual monitoring will be continued for 2005 to confirm that groundwater quality remains acceptable. In the event that monitoring indicates an unacceptable increase in target VOC concentrations, the system will be returned to service.

- At this time no changes are recommended for the operation of the 66 Brooklyn Avenue system (System A, Eastern System). System operation and groundwater monitoring will be continued in accordance with the November 2000 GRWP.

Should you have any questions, please do not hesitate to call us at (631) 737-6200.

Very truly yours,

Ben T. Cancemi
Senior Hydrogeologist

Stephanie O. Davis
Department Manager
Senior Hydrogeologist

SOD/BTC:tac
Attachments

cc: Guy Bobersky - NYSDEC
Stephen Holbreich, Esq. – Arkwin Industries
Thomas Molloy – Arkwin Industries
Gary Litwin – NYSDOH (two copies)
Peter A. Scully – NYSDEC Region 1

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TABLE 1
QUALITY ASSURANCE/QUALITY CONTROL SAMPLE RESULTS
ARKWIN INDUSTRIES SITE WESTBURY, NEW YORK

Sample Type	Equipment Blank Sample	Blind Duplicate Sample		Trip Blank
Sample No.	AIMW-11E	MW-2 (Primary)	MW-12 (Duplicate)	Trip Blank
Sample Date	10/13/04	10/13/04	10/13/04	10/13/04
Target Compound List Volatile Organic Compounds in micrograms per liter				
Methylene chloride	ND	ND	ND	2.2 J B
1,1-Dichloroethylene	ND	3.3 J	3.8 J	ND
1,1-Dichloroethane	ND	3.0 J	2.8 J	ND
1,2-Dichloroethylene	ND	1.5 J	1.5 J	ND
1,2-Dichloroethane	ND	0.91 J	ND	ND
1,1,1-Trichloroethane	ND	2.6 J	2.8 J	ND
Trichloroethene	ND	16	17	ND
Tetrachloroethene	ND	0.8 J	0.51 J	ND

Notes:

Only analytes detected in one or more samples are included in this table.
ND = Not detected at or above instrument detection limit.
J = Estimated concentration less than the quantitation limit but greater than zero.
B = Analyte was detected in an associated blank.

TABLE 2
GROUNDWATER VOLATILE ORGANIC COMPOUND DATA
ARKWIN INDUSTRIES SITE
WESTBURY, NEW YORK

SHALLOW WELLS
(0 to 10 feet below water table)

Well Location	Upgradient Wells																														NYSDEC Class GA Ambient Water Quality Standards*
Well No.	AIMW-9A						MW-3						MW-2						AIMW-8A						MW-1						
Sample Date	10/98	1/21/02	3/4/03	9/25/03	3/24/04	10/13/04	10/98	1/22/02	3/6/03	9/25/03	3/24/04	10/13/04	10/98	1/24/02	3/6/03	9/25/03	3/24/04	10/13/04	10/98	1/21/02	3/6/03	9/25/03	3/24/04	10/13/04	10/98	1/22/02	3/6/03	9/25/03	3/24/04	10/13/04	
Volatile Organic Compounds in ug/l																															
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	5
Carbon Disulfide	NA	NA	ND	ND	ND	ND	NA	NA	**7**	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	5
1,1-Dichloroethylene**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**8 J**	NA	5 J	5 J	4 J	3.3 J	ND	2 J	2 J	3 J	2 J	1.1 J	2 J	ND	0.9 J	ND	ND	ND	5
1,1-Dichloroethane**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 J	NA	**7**	5	7	3.0 J	1 J	5 J	5	**11**	3 J	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**9 J**	NA	2 J	2 J	1 J	1.5 J	3 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2 J**	NA	ND	ND	ND	0.91 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6
1,1,1-Trichloroethane**	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6 J**	NA	**10**	**6**	**10**	2.6 J	4 J	**12**	**9**	**22**	**7**	ND	**7 J**	4 J	3 J	ND	ND	ND	5
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	**120**	NA	**17**	**18**	**11**	**16**	**39**	**30**	**8**	4 J	4 J	**9.9**	ND	1 J	ND	0.8 J	1 J	ND	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Tetrachloroethylene**	ND	ND	ND	ND	ND	ND	ND	ND	0.7 J	ND	ND	ND	ND	NA	1 J	1 J	0.5 J	0.80 J	ND	ND	0.5 J	0.7 J	ND	ND	ND	3 J	2 J	2 JB	2 J	ND	5
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Methylene Chloride	ND	2 JB	ND B	ND B	ND	ND	ND	**6 JB**	ND B	ND B	ND	ND	ND	NA	ND B	ND B	ND	ND	ND	**13 B**	ND B	ND B	ND	ND	ND	**13 B**	ND B	ND B	ND	ND	5
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	ND	ND	ND	ND	ND	ND	5
Total Volatile Organic Compounds	2	ND	ND	ND	ND	ND	ND	ND	8.7	ND	ND	ND	148	NA	42	37	33.5	28.11	47	51	24.5	40.7	16	12.1	9	8	5.9	2.8	3	ND	-
Targeted Volatile Organic Compounds	2	ND	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	17	NA	23	17	21.5	9.7	5	19	16.5	36.7	12	1.1	9	7	5.9	2	2	ND	-

Notes:

Only analytes detected in one or more samples are included in this table.
ND = Not Detected.
NA = Not Available
B = Analyte was detected in associated blank and may result from contamination.
D = Diluted sample result.
J = An estimated value.
ug/l = micrograms per liter
- = No NYSDEC Class GA Ambient Water Quality Standard established.
Bold values exceed the NYSDEC Class GA Ambient Water Quality Standard.
** = Targeted (site specific) compound as specified NYSDEC approverd Groundwater Remediation Work Plan (November 2000 with amendments)

FPM

TABLE 2 (CONTINUED)
GROUNDWATER VOLATILE ORGANIC COMPOUND DATA
ARKWIN INDUSTRIES SITE
WESTBURY, NEW YORK

INTERMEDIATE WELLS
(25 to 35 feet below water table)

Well Location	Upgradient Wells												Downgradient Wells												NYSDEC Class GA Ambient Water Quality Standards*
Well No.	AIMW-9B						AIMW-8B						AIMW-10B						AIMW-11B						
Sample Date	10/98	1/21/02	3/4/03	9/25/03	3/24/04	10/13/04	10/98	1/21/02	3/6/03	9/25/03	3/24/04	10/13/04	10/98	1/21/02	3/4/03	9/25/03	3/24/04	10/13/04	10/98	1/22/02	3/4/03	9/25/03	3/24/04	10/13/04	
Volatile Organic Compounds in ug/l																									
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethylene**	**20**	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND	5 J	5 J	2 J	5 J	4 J	ND	5
1,1-Dichloroethane**	**8 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 J	**9 J**	2 J	5 J	3 J	ND	5
1,2-Dichloroethylene	ND	ND	ND	ND	ND	2.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	1 J	1 J	ND	5
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	0.7 J	0.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6
1,1,1-Trichloroethane**	**180**	**7 J**	ND	ND	ND	1.9 J	1J	ND	ND	ND	ND	ND	ND	1 J	2 J	ND	ND	ND	**17**	**16**	4 J	**7**	4 J	ND	5
Trichloroethylene	ND	ND	ND	ND	ND	ND	5 J	2 J	4 J	1 J	2 J	2.6 J	ND	ND	ND	ND	ND	ND	**6 J**	**9 J**	**12**	**11**	**6**	ND	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Tetrachloroethylene**	3 J	ND	ND	ND	ND	ND	ND	1 J	ND	0.8 J	ND	ND	ND	ND	ND	ND	ND	ND	3 J	2 J	5 J	4 JB	3 J	ND	5
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Methylene Chloride	ND	3 JB	ND B	ND B	ND	ND	ND	2 JB	ND B	ND B	ND	ND	ND	3 JB	ND B	ND B	ND	ND	ND	2 JB	ND B	ND B	ND	ND	5
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.63 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total Volatile Organic Compounds	211	9	ND	ND	ND	4	6	3	5.7	2.5	2	3.23	3	1	2	ND	ND	ND	35	41	26	33	21	ND	-
Targeted Volatile Organic Compounds	211	9	ND	ND	ND	1.9	1	1	ND	0.8	ND	ND	3	1	2	ND	ND	ND	29	32	13	21	14	ND	-

Notes:

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TABLE 2 (CONTINUED)
GROUNDWATER VOLATILE ORGANIC COMPOUND DATA
ARKWIN INDUSTRIES SITE
WESTBURY, NEW YORK

SHALLOW WELLS
(0 to 10 feet below water table)

Well Location	Downgradient Wells																								NYSDEC Class GA Ambient Water Quality Standards*
Well No.	AIMW-10A						MW-7						AIMW-11A						MW-4						
Sample Date	10/98	1/21/02	3/4/03	9/25/03	3/24/04	10/13/04	10/98	1/22/02	3/6/03	9/25/03	3/24/04	10/13/04	10/98	1/22/02	3/4/03	9/25/03	3/24/04	10/13/04	10/98	1/22/02	3/4/03	9/25/03	3/24/04	10/13/04	
Volatile Organic Compounds in ug/l																									
Acetone	ND	ND	ND	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	ND	NA	0.7 J	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	5
Carbon Disulfide	ND	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	5
1,1-Dichloroethylene**	**32 DJ**	**28**	**10**	1 J	ND	ND	**54**	4 J	ND	ND	ND	ND	**27**	**15**	**11**	5	8	**19**	**20**	4 J	ND	ND	ND	ND	5
1,1-Dichloroethane**	**59 D**	**73**	**23**	5 J	ND	ND	**180 D**	**6 J**	ND	ND	ND	ND	**12**	**12**	**16**	5	5	**8.2**	**12**	**18**	**10**	ND	ND	ND	5
1,2-Dichloroethylene	5 J	2 J	**6**	**8**	**19**	2.0 J	**7 J**	ND	ND	ND	ND	ND	ND	**18**	**26**	**27**	**12**	**15**	**13**	**39**	**36**	2 J	3 J	2.3 J	5
Chloroform	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6
1,1,1-Trichloroethane**	ND	**220 D**	**61**	**10**	ND	ND	**560 D**	**30**	ND	ND	ND	ND	**400 D**	**79**	**73**	**13**	**14**	**20**	**200 D**	**86**	**26**	ND	ND	ND	5
Trichloroethylene	**7 J**	**6 J**	4 J	1 J	1 J	ND	**16**	1 J	ND	ND	ND	ND	**17**	**33**	**39**	**24**	**22**	**49**	**24**	**50**	**26**	1 J	1 J	ND	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	**2 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Tetrachloroethylene**	**14**	**20**	**12**	3 J	3 J	ND	**45**	5 J	ND	0.8 J	ND	ND	**57**	**80**	**85**	**18 B**	**26**	**47**	**120**	**92**	**55**	4 J	**22**	**18**	5
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Methylene Chloride	ND	**9 JB**	ND B	ND B	ND	ND	ND	2 JB	ND B	ND B	ND	ND	ND	**1 JB**	ND B	ND B	ND	ND	ND	3 JB	ND B	ND B	ND	ND	5
Total Volatile Organic Compounds	117	349	116.7	61	23	2	866	46	ND	0.8	ND	ND	513	237	250	92	87	158.2	389	289	153	7	26	20.3	-
Targeted Volatile Organic Compounds	105	341	106	19	3	ND	839	45	ND	0.8	ND	ND	496	186	185	41	53	94.2	352	200	91	4	22	18.0	-

Notes:

Only analytes detected in one or more samples are included in this table.
ND = Not Detected.
NA = Not Available
B = Analyte was detected in associated blank and may result from contamination.
D = Diluted sample result.
J = An estimated value.
ug/l = micrograms per liter
- = No NYSDEC Class GA Ambient Water Quality Standard established.
Bold values exceed the NYSDEC Class GA Ambient Water Quality Standard.
** = Targeted (site specific) compound as specified NYSDEC approverd Groundwater Remediation Work Plan (November 2000 with amendments)

FPM

TABLE 3
SOIL VAPOR EXTRACTION SYSTEMS EFFLUENT CHEMICAL ANALYTICAL DATA
ARKWIN INDUSTRIES SITE
WESTBURY, NEW YORK

SYSTEM A (Eastern System)								
Compound	Flow Rate	Concentration	Daily Loading	Flow Rate	Concentration	Daily Loading	Total Mass Removed Third and Fourth Quarter 2004	Total Mass Removed to Date
	September 28, 2004			December 28, 2004				
	SCFM	ppbv	lbs/day	SCFM	ppbv	lbs/day	lbs	lbs
1,1-dichloroethene	105	ND	0.0000	105	ND	0.0000	0.00	9.77
trans-1,2-dichloroethene	105	ND	0.0000	105	ND	0.0000	0.00	0
1,1-dichloroethane	105	ND	0.0000	105	19.0	0.0007	0.06	14.76
cis-1,2-dichloroethene	105	12.0	0.0004	105	47.0	0.0017	0.19	30.69
1,1,1-trichloroethane	105	59.0	0.0029	105	170.0	0.0085	1.04	113.72
trichloroethene	105	13.0	0.0006	105	39.0	0.0019	0.23	42.31
tetrachloroethene	105	19.0	0.0012	105	88.0	0.0055	0.60	142.20
	Total VOCs	103.0		Total VOCs	363.0	Totals	2.12	353.45

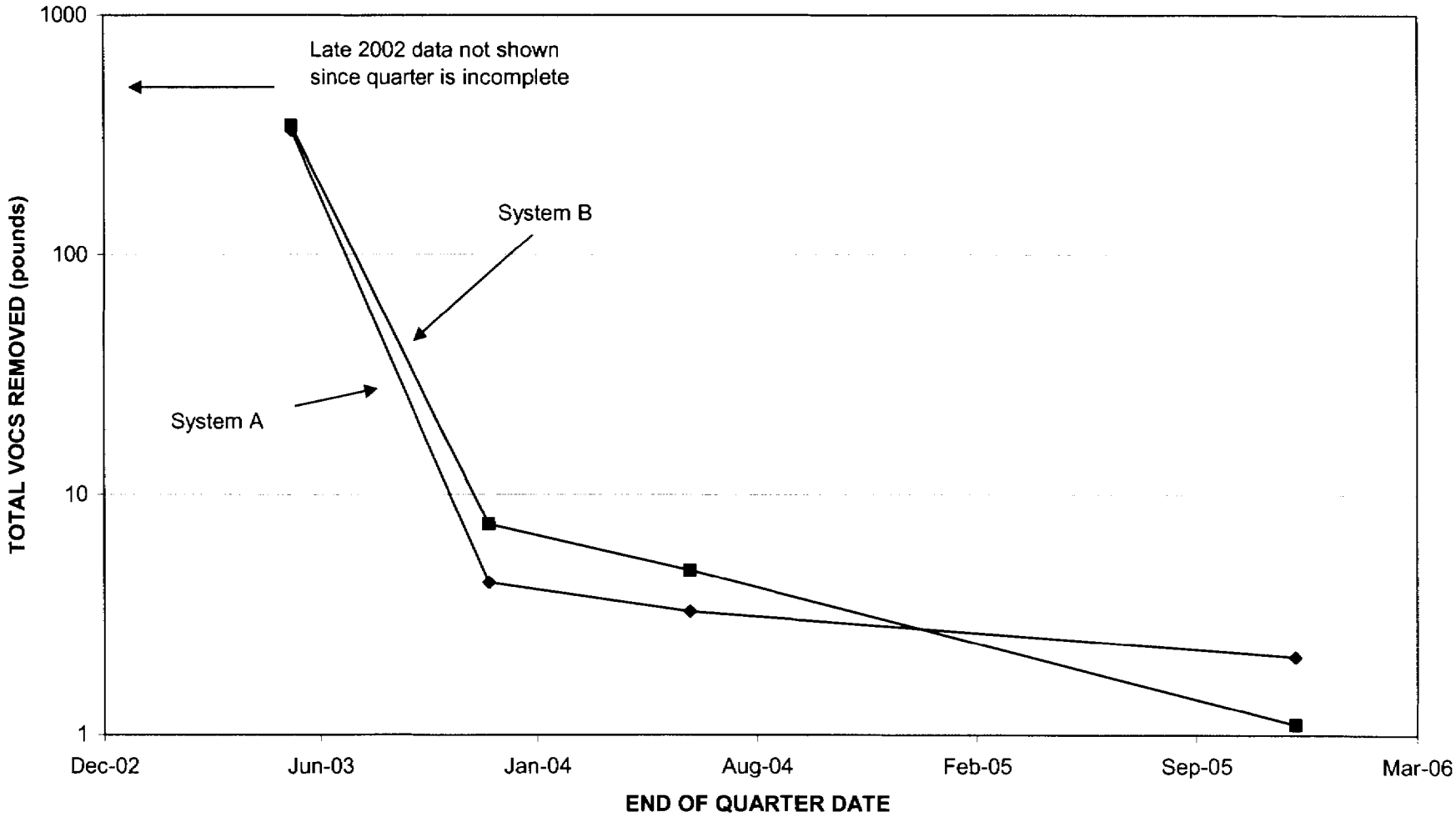
SYSTEM B (Western System)								
Compound	Flow Rate	Concentration	Daily Loading	Flow Rate	Concentration	Daily Loading	Total Mass Removed Third and Fourth Quarter 2004	Total Mass Removed to Date
	September 28, 2004			December 28, 2004				
	SCFM	ppbv	lbs/day	SCFM	ppbv	lbs/day	lbs	lbs
1,1-dichloroethene	105	ND	0.000	105	ND	0.000	0.00	17.67
1,2-dichloroethene	105	ND	0.000	105	ND	0.000	0.00	0.50
1,1-dichloroethane	105	19.0	0.001	105	ND	0.000	0.07	23.74
cis-1,2-dichloroethene	105	99.0	0.004	105	ND	0.000	0.36	56.38
1,1,1-trichloroethane	105	81.0	0.004	105	2.8	0.000	0.41	122.83
trichloroethene	105	34.0	0.002	105	1.5	0.000	0.17	72.90
tetrachloroethene	105	15.0	0.000931	105	1.3	0.000	0.10	84.39
	Total VOCs	248.0		Total VOCs	5.6	Totals	1.11	378.41

Notes:

SCFM = Standard Cubic Feet Per Minute
ppbv = Parts Per Billion Per Volume
lbs = Pounds
lbs/day = Pounds per day
ND = Not Detected
VOCs = Volatile Organic Compounds

FPM

FIGURE 1
MASS OF TOTAL VOCS REMOVED
ARKWIN INDUSTRIES SITE, WESTBURY, NEW YORK



\\Lifs\clients\Arkwin\GW Monitoring\Q4-2004\VOC Mass Removal

ATTACHMENT A

WELL SAMPLING DATA FORMS

FPM

FPM group
Engineering and Environmental Science

WELL SAMPLING DATA FORM

Client: AI

Project No.: GSZ-04-05

Location: HC1A

Well No.: MW 1 Well Diameter: 2 11

Date: 10/18 Start Time:

Weather: Sunny Finish Time:

Sampled By: BC/MS

Depth to Bottom of Well: 61.00 Feet.

Depth to Water: 54.12 Feet.

Height of Water Column: 6.88 Feet.

Water Volume in Casing: 4.47 Gallons.

Water Volume to be Purged: 13.42 Gallons.

Water Volume Actually Purged: 13.5 Gallons.

Purge Method: HB.

Physical Appearance/Comments:

FIELD MEASUREMENTS

Time	Volume (gal)	pH	Conductivity (uS)	Temperature (°F)	Turbidity (FTU)
	4.5	5.73	292	62.3	>1000
	9.0	5.54	344	61.7	>1000
	13.5	5.46	382	61.4	>1000

Samplingand VOC's Analytical Methods:

Laboratory Name and Location: STL

FPM group
Engineering and Environmental Science

WELL SAMPLING DATA FORM

Client: A1

Project No.: 652-0405

Location: NCIA

Well No.: MW-2 Well Diameter: 4"

Date: 10/18/04 Start Time: _____

Weather: Sunny Finish Time: _____

Sampled By: BC/MS

Depth to Bottom of Well: 62. Feet.

Depth to Water: 55.13 Feet.

Height of Water Column: 6.87 Feet.

Water Volume in Casing: 4.47 Gallons.

Water Volume to be Purged: 13.39 Gallons.

Water Volume Actually Purged: 13.5 Gallons.

Purge Method: HB

Physical Appearance/Comments: Duplicate

MW-12 Duplicate

FIELD MEASUREMENTS

Time	Volume (gal)	pH	Conductivity (uS)	Temperature (°F)	Turbidity (FTU)
	4.5	5.65	165	59.1	71000
	9.0	5.18	170	59.2	71000
	13.5	5.32	171	58.9	71000

Samplingand Analytical Methods: VOC's

Laboratory Name and Location: STL

FPM group
Engineering and Environmental Science

WELL SAMPLING DATA FORM

Client: A/

Project No.: 652-04-05

Location: NCIA

Well No.: MW-3 Well Diameter: 4"

Date: 10/13 Start Time: _____

Weather: SCNNY Finish Time: _____

Sampled By: BC/MS

Depth to Bottom of Well: 61.3 Feet.

Depth to Water: 54.68 Feet.

Height of Water Column: 6.62 Feet.

Water Volume in Casing: 4.30 Gallons.

Water Volume to be Purged: 12.91 Gallons.

Water Volume Actually Purged: 13 Gallons.

Purge Method: HB

Physical Appearance/Comments: _____

FIELD MEASUREMENTS

Time	Volume (gal)	pH	Conductivity (uS)	Temperature (°F)	Turbidity (FTU)
	4.5	6.42	612	60.9	71000
	9.0	6.53	644	59.2	71000
	13.0	6.55	637	58.9	71000

Samplingand Analytical Methods: VOC's

Laboratory Name and Location: STL

FPM group
Engineering and Environmental Science

WELL SAMPLING DATA FORM

Client: A1

Project No.: GS2-04-05

Location: NCIA

Well No.: MCW-4 Well Diameter: 4"

Date: 10/13/04 Start Time: _____

Weather: Sunny Finish Time: _____

Sampled By: BC/MS

Depth to Bottom of Well: 62.5 Feet.

Depth to Water: 54.35 Feet.

Height of Water Column: 8.15 Feet.

Water Volume in Casing: 5.30 Gallons.

Water Volume to be Purged: 15.89 Gallons.

Water Volume Actually Purged: 16 Gallons.

Purge Method: HB

Physical Appearance/Comments: _____

FIELD MEASUREMENTS

Time	Volume (gal)	pH	Conductivity (uS)	Temperature (°F)	Turbidity (FTU)
	5	6.10	250	62.6	>1000
	10	5.78	254	61.4	>1000
	16	5.77	257	61.0	>1000

Samplingand Analytical Methods: VOC

Laboratory Name and Location: STL

FPM group
Engineering and Environmental Science

WELL SAMPLING DATA FORM

Client: AI

Project No.: GS-04-05

Location: NCID

Well No.: MCW-7 Well Diameter: 4"

Date: 10/13/04 Start Time: _____

Weather: SUNNY Finish Time: _____

Sampled By: BC/MS

Depth to Bottom of Well: 61.5 Feet.

Depth to Water: 54.00 Feet.

Height of Water Column: 7.5 Feet.

Water Volume in Casing: 4.87 Gallons.

Water Volume to be Purged: 14.63 Gallons.

Water Volume Actually Purged: 14.75 Gallons.

Purge Method: HB

Physical Appearance/Comments: _____

FIELD MEASUREMENTS

Time	Volume (gal)	pH	Conductivity (uS)	Temperature (°F)	Turbidity (FTU)
	5	5.93	276	63.8	>1000
	10	5.36	292	62.3	>1000
	14.75	4.72	300	61.5	>1000

Samplingand Analytical Methods: VOC's

Laboratory Name and Location: STL

FPM group
Engineering and Environmental Science

WELL SAMPLING DATA FORM

Client: AI

Project No.: GS2-04-05

Location: NCIA

Well No.: AI MW-8A Well Diameter: 2"

Date: 10/13/04 Start Time: _____

Weather: Sunny Finish Time: _____

Sampled By: BC/MS

Depth to Bottom of Well: 69.4 Feet.

Depth to Water: 54.21 Feet.

Height of Water Column: 15.19 Feet.

Water Volume in Casing: 2.43 Gallons.

Water Volume to be Purged: 7.29 Gallons.

Water Volume Actually Purged: 7.3 Gallons.

Purge Method: HP

Physical Appearance/Comments: _____

FIELD MEASUREMENTS

Time	Volume (gal)	pH	Conductivity (uS)	Temperature (°F)	Turbidity (FTU)
	2.5	5.58	162	62.2	>1000
	5	5.43	159	62.2	>1000
	7.3	5.36	159	61.3	>1000

Samplingand VOC's Analytical Methods:

Laboratory Name and Location: STL

FPM group
Engineering and Environmental Science

WELL SAMPLING DATA FORM

Client: A1

Project No.: 652-04-05

Location: NCIA

Well No.: A1MW-8B Well Diameter: 2"

Date: 10/13/04 Start Time: _____

Weather: SUNNY Finish Time: _____

Sampled By: BC/MS

Depth to Bottom of Well: 90.1 Feet.

Depth to Water: 54.36 Feet.

Height of Water Column: 35.74 Feet.

Water Volume in Casing: 5.72 Gallons.

Water Volume to be Purged: 17.16 Gallons.

Water Volume Actually Purged: 17.75 Gallons.

Purge Method: HP

Physical Appearance/Comments: _____

FIELD MEASUREMENTS

Time	Volume (gal)	pH	Conductivity (uS)	Temperature (°F)	Turbidity (FTU)
	6	5.31	182	61.4	71000
	12	5.31	189	61.4	>1000
	17.25	5.31	184	61.4	71000

Samplingand VOCs Analytical Methods:

Laboratory Name and Location: STL

FPM group
Engineering and Environmental Science

WELL SAMPLING DATA FORM

Client: AR Kevin, Inc

Project No.: GS2 04-05

Location: NCIA

Well No.: AIMW-9A Well Diameter: 2"

Date: 10/13 Start Time: _____

Weather: Sunny Finish Time: _____

Sampled By: BC/MS

Depth to Bottom of Well: ~~60.7~~ Feet.

Depth to Water: 54.05 Feet.

Height of Water Column: 8.65 Feet.

Water Volume in Casing: 1.4 Gallons.

Water Volume to be Purged: 4.15 Gallons.

Water Volume Actually Purged: 4.25 Gallons.

Purge Method: HP

Physical Appearance/Comments: _____

FIELD MEASUREMENTS

Time	Volume (gal)	pH	Conductivity (uS)	Temperature (°F)	Turbidity (FTU)
	1.5	4.28	196	66.8	71000
	3.0	4.24	184	65.4	71000
	4.25	4.21	190	66.2	71000

Samplingand VOC's Analytical Methods:

Laboratory Name and Location: STL

FPM group
Engineering and Environmental Science

WELL SAMPLING DATA FORM

Client: AI

Project No.: GS2-04-05

Location: NCIA

Well No.: AIMW-9B Well Diameter: 2"

Date: 10/13/04 Start Time: _____

Weather: Sunny Finish Time: _____

Sampled By: BC/MS

Depth to Bottom of Well: 89.61 Feet.

Depth to Water: 54.60 Feet.

Height of Water Column: 35.01 Feet.

Water Volume in Casing: 5.60 Gallons.

Water Volume to be Purged: 16.80 Gallons.

Water Volume Actually Purged: 17 Gallons.

Purge Method: HP

Physical Appearance/Comments: _____

FIELD MEASUREMENTS

Time	Volume (gal)	pH	Conductivity (uS)	Temperature (°F)	Turbidity (FTU)
	5.5	5.41	115	63.7	>1000
	11.0	5.25	113	62.1	>1000
	17	5.23	112	61.5	>1000

Samplingand 0005 Analytical Methods:

Laboratory Name and Location: STL

FPM group
Engineering and Environmental Science

WELL SAMPLING DATA FORM

Client: A1

Project No.: 652-0405

Location: NC1A

Well No.: A1MW-10A Well Diameter: 2"

Date: 6/13/04 Start Time: _____

Weather: Sunny Finish Time: _____

Sampled By: B.C./MS

Depth to Bottom of Well: 62.2 Feet.

Depth to Water: 52.65 Feet.

Height of Water Column: 9.55 Feet.

Water Volume in Casing: 1.5 Gallons.

Water Volume to be Purged: 4.58 Gallons.

Water Volume Actually Purged: 4.75 Gallons.

Purge Method: HP

Physical Appearance/Comments: MS/MSD

~~Duplicate~~ MS/MSD

FIELD MEASUREMENTS

Time	Volume (gal)	pH	Conductivity (uS)	Temperature (°F)	Turbidity (FTU)
	1.5	5.02	345	63.0	71000
	3.0	4.96	343	62.2	71000
	4.75	4.90	338	62.0	71000

Samplingand Analytical Methods: VOC's

Laboratory Name and Location: STL

FPM group
Engineering and Environmental Science

WELL SAMPLING DATA FORM

Client: A1

Project No.: GSJ-04-05

Location: NCIA

Well No.: A1MW-10B Well Diameter: 2"

Date: 10/13 Start Time: _____

Weather: SUNNY Finish Time: _____

Sampled By: BC/MS

Depth to Bottom of Well: 90.0 Feet.

Depth to Water: 52.50 Feet.

Height of Water Column: 37.50 Feet.

Water Volume in Casing: 6 Gallons.

Water Volume to be Purged: 18 Gallons.

Water Volume Actually Purged: 18 Gallons.

Purge Method: HP

Physical Appearance/Comments: _____

FIELD MEASUREMENTS

Time	Volume (gal)	pH	Conductivity (uS)	Temperature (°F)	Turbidity (FTU)
	6	5.26	51	64.3	>1000
	12	4.80	50	63.7	>1000
	18	4.76	50	63.6	>1000

Samplingand COC's Analytical Methods:

Laboratory Name and Location: STL

FPM group
Engineering and Environmental Science

WELL SAMPLING DATA FORM

Client: AI

Project No.: 652-04-05

Location: NC1A

Well No.: AI MW-11A Well Diameter: 2"

Date: 10/13/04 Start Time: _____

Weather: SUNNY Finish Time: _____

Sampled By: BC/MS

Depth to Bottom of Well: 63.00 Feet.

Depth to Water: 53.68 Feet.

Height of Water Column: 9.32 Feet.

Water Volume in Casing: 1.5 Gallons.

Water Volume to be Purged: 4.5 Gallons.

Water Volume Actually Purged: 5 Gallons.

Purge Method: HP

Physical Appearance/Comments: _____

FIELD MEASUREMENTS

Time	Volume (gal)	pH	Conductivity (uS)	Temperature (°F)	Turbidity (FTU)
	1.5	5.42	497	59.7	>1000
	3.0	5.41	487	59.4	>1000
	4.5	5.42	482	59.5	>1000

Samplingand Analytical Methods: VOCs

Laboratory Name and Location: STL

FPM group
Engineering and Environmental Science

WELL SAMPLING DATA FORM

Client: A1

Project No.: 652-04-05

Location: NC14

Well No.: A1MW-11B Well Diameter: 2"

Date: 10/26/04 Start Time: _____

Weather: SUNNY Finish Time: _____

Sampled By: BC/MS

Depth to Bottom of Well: 87.00 Feet.

Depth to Water: 53.35 Feet.

Height of Water Column: 35.65 Feet.

Water Volume in Casing: 5.7 Gallons.

Water Volume to be Purged: 17.1 Gallons.

Water Volume Actually Purged: 17.25 Gallons.

Purge Method: HP

Physical Appearance/Comments: _____

FIELD MEASUREMENTS

Time	Volume (gal)	pH	Conductivity (uS)	Temperature (°F)	Turbidity (FTU)
	6	6.06	181	61.9	>1000
	12	5.57	182	60.3	>1000
	17.25	5.58	189	60.0	>1000

Samplingand Analytical Methods: VOCs

Laboratory Name and Location: STL

ATTACHMENT B

LABORATORY CHEMICAL ANALYTICAL REPORTS

FPM

ANALYTICAL REPORT

JOB NUMBER: 207793

Prepared For:

FANNING, PHILLIPS AND MOLNAR
909 Marconi Avenue
Ronkonkoma, NY 11779

Project: ARKWIN INDUSTRIES

Attention: Ben Cancemi

Date: 11/05/2004

WJC for J.L. Dubauskas
Signature

11/5/2004
Date

Name: Johanna L. Dubauskas

Title: Project Manager

E-Mail: jdubauskas@stl-inc.com

STL Connecticut
128 Long Hill Cross Road
Shelton, CT 06484

This Report Contains (246) Pages

SEVERN TRENT STL

STL Report : 207793
FPM GROUP

Case Narrative

Sample Receipt – All samples were received in good condition and at the proper temperature.

Volatile Organics – Volatile organics were determined by purge and trap GC/MS using guidance provided in Method 5030B/8260B.

The spike compound percent recoveries were within the laboratory generated guidelines in the independent source quality control samples.

Sample Calculation:

Sample ID-A1MW-11A
Compound- 1,1-Dichloroethene

$$\frac{(42636 \text{ area})(125\text{ng})(1)}{(163012 \text{ area})(.346 \text{ area/ng})(5\text{ml})} = 18.89 = 19 \text{ ug/L.}$$

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative.

SAMPLE INFORMATION
Date: 11/05/2004

Job Number.: 207793
Customer...: FANNING, PHILLIPS AND MOLNAR
Attn.....: Ben Cancemi

Project Number.....: 20000435
Customer Project ID....: ARKWIN INDUSTRIES
Project Description....: Arkwin Industries

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
207793-1	A1MW-11E	Groundwater	10/13/2004	10:00	10/15/2004	09:30
207793-2	A1MW-11A	Groundwater	10/13/2004	10:20	10/15/2004	09:30
207793-3	A1MW-11B	Groundwater	10/13/2004	10:10	10/15/2004	09:30
207793-4	MW-1	Groundwater	10/13/2004	12:20	10/15/2004	09:30
207793-5	A1MW-8A	Groundwater	10/13/2004	11:50	10/15/2004	09:30
207793-6	A1MW-8B	Groundwater	10/13/2004	11:40	10/15/2004	09:30
207793-7	MW-2	Groundwater	10/13/2004	11:00	10/15/2004	09:30
207793-8	MW-12	Groundwater	10/13/2004	11:10	10/15/2004	09:30
207793-9	MW-3	Groundwater	10/13/2004	13:40	10/15/2004	09:30
207793-10	A1MW-9A	Groundwater	10/13/2004	13:10	10/15/2004	09:30
207793-11	A1MW-9B	Groundwater	10/13/2004	13:00	10/15/2004	09:30
207793-12	MW-7	Groundwater	10/13/2004	15:40	10/15/2004	09:30
207793-13	A1MW-10B	Groundwater	10/13/2004	14:50	10/15/2004	09:30
207793-14	A1MW-10A	Groundwater	10/13/2004	15:00	10/15/2004	09:30
207793-15	MW-4	Groundwater	10/13/2004	14:15	10/15/2004	09:30
207793-16	TB	Groundwater	10/13/2004	00:00	10/15/2004	09:30

Job Number: 207793

LABORATORY TEST RESULTS

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-11E
Date Sampled.....: 10/13/2004
Time Sampled.....: 10:00
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-1
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	1,1-Dichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39771		10/25/04 1707	pam
	Methylene chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	1,1-Dichloroethane	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	cis-1,2-Dichloroethene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39771		10/25/04 1707	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	1,1,1-Trichloroethane	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Trichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39771		10/25/04 1707	pam
	Toluene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Tetrachloroethene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39771		10/25/04 1707	pam

0000003

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-11E
Date Sampled.....: 10/13/2004
Time Sampled.....: 10:00
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-1
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1707	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 1707	pam

0000004

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-11A
Date Sampled.....: 10/13/2004
Time Sampled.....: 10:20
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-2
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	1,1-Dichloroethene	19			0.80	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39771		10/25/04 1731	pam
	Methylene chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	1,1-Dichloroethane	8.2			0.40	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	cis-1,2-Dichloroethene	15			0.70	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39771		10/25/04 1731	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	1,1,1-Trichloroethane	20			0.90	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Trichloroethene	49			0.80	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39771		10/25/04 1731	pam
	Toluene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Tetrachloroethene	47			0.40	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39771		10/25/04 1731	pam

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-11A
Date Sampled.....: 10/13/2004
Time Sampled.....: 10:20
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-2
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9000000	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1731	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 1731	pam

* In Description = Dry Wgt.

Job Number: 207793

LABORATORY TEST RESULTS

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-11B
Date Sampled.....: 10/13/2004
Time Sampled.....: 10:10
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-3
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	1,1-Dichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39771		10/25/04 1755	pam
	Methylene chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	1,1-Dichloroethane	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	cis-1,2-Dichloroethene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39771		10/25/04 1755	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	1,1,1-Trichloroethane	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Trichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39771		10/25/04 1755	pam
	Toluene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Tetrachloroethene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39771		10/25/04 1755	pam

0000007

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-11B
Date Sampled.....: 10/13/2004
Time Sampled.....: 10:10
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-3
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8000000	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1755	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 1755	pam

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: MW-1
Date Sampled.....: 10/13/2004
Time Sampled.....: 12:20
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-4
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	1,1-Dichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39771		10/25/04 1819	pam
	Methylene chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	1,1-Dichloroethane	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	cis-1,2-Dichloroethene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39771		10/25/04 1819	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	1,1,1-Trichloroethane	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Trichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39771		10/25/04 1819	pam
	Toluene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Tetrachloroethene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39771		10/25/04 1819	pam

600000

* In Description = Dry Wgt.

Job Number: 207793

LABORATORY TEST RESULTS

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: MW-1
Date Sampled.....: 10/13/2004
Time Sampled.....: 12:20
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-4
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1819	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 1819	pam

0000010

* In Description = Dry Wgt.

Job Number: 207793

LABORATORY TEST RESULTS

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-8A
Date Sampled.....: 10/13/2004
Time Sampled.....: 11:50
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-5
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	1,1-Dichloroethene	1.1	J	H	0.80	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39771		10/25/04 1843	pam
	Methylene chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	1,1-Dichloroethane	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	cis-1,2-Dichloroethene	ND	U	M	0.70	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39771		10/25/04 1843	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	1,1,1-Trichloroethane	ND	U	M	0.90	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Trichloroethene	9.9		H	0.80	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39771		10/25/04 1843	pam
	Toluene	1.1	J		0.40	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Tetrachloroethene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39771		10/25/04 1843	pam

0000011

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-8A
Date Sampled.....: 10/13/2004
Time Sampled.....: 11:50
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-5
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1843	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 1843	pam

0000012

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-8B
Date Sampled.....: 10/13/2004
Time Sampled.....: 11:40
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-6
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	1,1-Dichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39771		10/25/04 1907	pam
	Methylene chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	1,1-Dichloroethane	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	cis-1,2-Dichloroethene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39771		10/25/04 1907	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	1,1,1-Trichloroethane	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Trichloroethene	2.6	J	H	0.80	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39771		10/25/04 1907	pam
	Toluene	0.63	J		0.40	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Tetrachloroethene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39771		10/25/04 1907	pam

00000013

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-8B
Date Sampled.....: 10/13/2004
Time Sampled.....: 11:40
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-6
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1907	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 1907	pam

0000014

* In Description = Dry Wgt.

Job Number: 207793

LABORATORY TEST RESULTS

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: MW-2
Date Sampled.....: 10/13/2004
Time Sampled.....: 11:00
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-7
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	1,1-Dichloroethene	3.3	J	H	0.80	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39771		10/25/04 1931	pam
	Methylene chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	1,1-Dichloroethane	3.0	J	M	0.40	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	cis-1,2-Dichloroethene	1.5	J		0.70	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39771		10/25/04 1931	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	1,1,1-Trichloroethane	2.6	J	M	0.90	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	1,2-Dichloroethane	0.91	J	M	0.60	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Trichloroethene	16			0.80	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39771		10/25/04 1931	pam
	Toluene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Tetrachloroethene	0.80	J		0.40	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39771		10/25/04 1931	pam

0000015

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: MW-2
Date Sampled.....: 10/13/2004
Time Sampled.....: 11:00
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-7
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1931	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 1931	pam

0000016

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: MW-12
Date Sampled.....: 10/13/2004
Time Sampled.....: 11:10
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-8
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	1,1-Dichloroethene	3.8	J	H	0.80	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39771		10/25/04 1956	pam
	Methylene chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	1,1-Dichloroethane	2.8	J	M	0.40	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	cis-1,2-Dichloroethene	1.5	J	H	0.70	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39771		10/25/04 1956	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	1,1,1-Trichloroethane	2.8	J	M	0.90	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Trichloroethene	17			0.80	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39771		10/25/04 1956	pam
	Toluene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Tetrachloroethene	0.51	J		0.40	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39771		10/25/04 1956	pam

0000017

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: MW-12
Date Sampled.....: 10/13/2004
Time Sampled.....: 11:10
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-8
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1956	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 1956	pam

0000018

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: MW-3
Date Sampled.....: 10/13/2004
Time Sampled.....: 13:40
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-9
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	1,1-Dichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39771		10/25/04 2020	pam
	Methylene chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	1,1-Dichloroethane	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	cis-1,2-Dichloroethene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39771		10/25/04 2020	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	1,1,1-Trichloroethane	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Trichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39771		10/25/04 2020	pam
	Toluene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Tetrachloroethene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39771		10/25/04 2020	pam

0000019

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: MW-3
Date Sampled.....: 10/13/2004
Time Sampled.....: 13:40
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-9
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
020000	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 2020	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 2020	pam

* In Description = Dry Wgt.

Job Number: 207793

LABORATORY TEST RESULTS

Date: 10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-9A
Date Sampled.....: 10/13/2004
Time Sampled.....: 13:10
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-10
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	1,1-Dichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39771		10/25/04 2116	pam
	Methylene chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	1,1-Dichloroethane	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	cis-1,2-Dichloroethene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39771		10/25/04 2116	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	1,1,1-Trichloroethane	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Trichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39771		10/25/04 2116	pam
	Toluene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Tetrachloroethene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39771		10/25/04 2116	pam

0000021

* In Description = Dry Wgt.

Job Number: 207793

LABORATORY TEST RESULTS

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-9A
Date Sampled.....: 10/13/2004
Time Sampled.....: 13:10
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-10
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 2116	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 2116	pam

0000022

* In Description = Dry Wgt.

Job Number: 207793

LABORATORY TEST RESULTS

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-9B
Date Sampled.....: 10/13/2004
Time Sampled.....: 13:00
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-11
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	1,1-Dichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39773		10/26/04 1225	pam
	Methylene chloride	ND	U	B	0.60	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	1,1-Dichloroethane	2.1	J		0.40	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	cis-1,2-Dichloroethene	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39773		10/26/04 1225	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	1,1,1-Trichloroethane	1.9	J		0.90	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Trichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39773		10/26/04 1225	pam
	Toluene	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Tetrachloroethene	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39773		10/26/04 1225	pam

0000023

* In Description = Dry Wgt.

Job Number: 207793

LABORATORY TEST RESULTS

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-9B
Date Sampled.....: 10/13/2004
Time Sampled.....: 13:00
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-11
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1225	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39773		10/26/04 1225	pam

0000024

* In Description = Dry Wgt.

Job Number: 207793

LABORATORY TEST RESULTS

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: MW-7
Date Sampled.....: 10/13/2004
Time Sampled.....: 15:40
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-12
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	1,1-Dichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39773		10/26/04 1249	pam
	Methylene chloride	ND	U	B	0.60	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	1,1-Dichloroethane	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	cis-1,2-Dichloroethene	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39773		10/26/04 1249	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	1,1,1-Trichloroethane	ND	U		0.90	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Trichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39773		10/26/04 1249	pam
	Toluene	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Tetrachloroethene	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39773		10/26/04 1249	pam

0000251

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: MW-7
Date Sampled.....: 10/13/2004
Time Sampled.....: 15:40
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-12
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1249	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39773		10/26/04 1249	pam

9200026

* In Description = Dry Wgt.

Job Number: 207793

LABORATORY TEST RESULTS

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-10B
Date Sampled.....: 10/13/2004
Time Sampled.....: 14:50
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-13
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	1,1-Dichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39773		10/26/04 1313	pam
	Methylene chloride	ND	U	B	0.60	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	1,1-Dichloroethane	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	cis-1,2-Dichloroethene	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39773		10/26/04 1313	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	1,1,1-Trichloroethane	ND	U		0.90	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Trichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39773		10/26/04 1313	pam
	Toluene	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Tetrachloroethene	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39773		10/26/04 1313	pam

000027

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-10B
Date Sampled.....: 10/13/2004
Time Sampled.....: 14:50
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-13
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1313	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39773		10/26/04 1313	pam

0000028

* In Description = Dry Wgt.

Job Number: 207793

LABORATORY TEST RESULTS

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-10A
Date Sampled.....: 10/13/2004
Time Sampled.....: 15:00
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-14
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	1,1-Dichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39771		10/25/04 1642	pam
	Methylene chloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	1,1-Dichloroethane	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	cis-1,2-Dichloroethene	2.0	J		0.70	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39771		10/25/04 1642	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	1,1,1-Trichloroethane	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Trichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39771		10/25/04 1642	pam
	Toluene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Tetrachloroethene	ND	U		0.40	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39771		10/25/04 1642	pam

0000029

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: A1MW-10A
Date Sampled.....: 10/13/2004
Time Sampled.....: 15:00
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-14
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39771		10/25/04 1642	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39771		10/25/04 1642	pam

0000030

* In Description = Dry Wgt.

Job Number: 207793

LABORATORY TEST RESULTS

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: MW-4
Date Sampled.....: 10/13/2004
Time Sampled.....: 14:15
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-15
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	1,1-Dichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39773		10/26/04 1337	pam
	Methylene chloride	ND	U	B	0.60	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	1,1-Dichloroethane	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	cis-1,2-Dichloroethene	2.3	J		0.70	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39773		10/26/04 1337	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	1,1,1-Trichloroethane	ND	U		0.90	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Trichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39773		10/26/04 1337	pam
	Toluene	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Tetrachloroethene	18			0.40	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39773		10/26/04 1337	pam

000031

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: MW-4
Date Sampled.....: 10/13/2004
Time Sampled.....: 14:15
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-15
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1337	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39773		10/26/04 1337	pam

0000032

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 207793

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: TB
Date Sampled.....: 10/13/2004
Time Sampled.....: 00:00
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-16
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics (5mL Purge)											
	Chloromethane	ND	U		1.4	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Vinyl chloride	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Bromomethane	ND	U		2.7	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Chloroethane	ND	U		1.7	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	1,1-Dichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Carbon disulfide	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Acetone	ND	U		2.0	10	1.00000	ug/L	39773		10/26/04 1201	pam
	Methylene chloride	2.2	J	B	0.60	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	trans-1,2-Dichloroethene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	1,1-Dichloroethane	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Vinyl acetate	ND	U		1.9	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	cis-1,2-Dichloroethene	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	2-Butanone (MEK)	ND	U		1.6	10	1.00000	ug/L	39773		10/26/04 1201	pam
	Chloroform	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	1,1,1-Trichloroethane	ND	U		0.90	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Carbon tetrachloride	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Benzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	1,2-Dichloroethane	ND	U		0.60	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Trichloroethene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	1,2-Dichloropropane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Bromodichloromethane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	cis-1,3-Dichloropropene	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.90	10	1.00000	ug/L	39773		10/26/04 1201	pam
	Toluene	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	trans-1,3-Dichloropropene	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	1,1,2-Trichloroethane	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Tetrachloroethene	ND	U		0.40	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	2-Hexanone	ND	U		0.70	10	1.00000	ug/L	39773		10/26/04 1201	pam

0000033

* In Description = Dry Wgt.

Job Number: 207793

LABORATORY TEST RESULTS

Date:10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR | PROJECT: ARKWIN INDUSTRIES | ATTN: Ben Cancemi

Customer Sample ID: TB
Date Sampled.....: 10/13/2004
Time Sampled.....: 00:00
Sample Matrix.....: Groundwater

Laboratory Sample ID: 207793-16
Date Received.....: 10/15/2004
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Chlorobenzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Ethylbenzene	ND	U		0.50	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Styrene	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Bromoform	ND	U		0.80	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	1,1,2,2-Tetrachloroethane	ND	U		0.70	5.0	1.00000	ug/L	39773		10/26/04 1201	pam
	Xylenes (total)	ND	U		0.90	5.0	1.00000	ug/L	39773		10/26/04 1201	pam

00000034

* In Description = Dry Wgt.

LABORATORY CHRONICLE

Job Number: 207793

Date: 11/05/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR PROJECT: ARKWIN INDUSTRIES ATTN: Ben Cancemi

Lab ID: 207793-1 Client ID: A1MW-11E
Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
5030A	5030 5 mL Purge Prep	1	39688			
8260B	Volatile Organics (5mL Purge)	1	39771	39688	10/25/2004 1707	1.00000

Lab ID: 207793-2 Client ID: A1MW-11A
Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
5030A	5030 5 mL Purge Prep	1	39688			
8260B	Volatile Organics (5mL Purge)	1	39771	39688	10/25/2004 1731	1.00000

Lab ID: 207793-3 Client ID: A1MW-11B
Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
5030A	5030 5 mL Purge Prep	1	39688			
8260B	Volatile Organics (5mL Purge)	1	39771	39688	10/25/2004 1755	1.00000

Lab ID: 207793-4 Client ID: MW-1
Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
5030A	5030 5 mL Purge Prep	1	39688			
8260B	Volatile Organics (5mL Purge)	1	39771	39688	10/25/2004 1819	1.00000

Lab ID: 207793-5 Client ID: A1MW-8A
Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
5030A	5030 5 mL Purge Prep	1	39688			
8260B	Volatile Organics (5mL Purge)	1	39771	39688	10/25/2004 1843	1.00000

Lab ID: 207793-6 Client ID: A1MW-8B
Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
5030A	5030 5 mL Purge Prep	1	39688			
8260B	Volatile Organics (5mL Purge)	1	39771	39688	10/25/2004 1907	1.00000

Lab ID: 207793-7 Client ID: MW-2
Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
5030A	5030 5 mL Purge Prep	1	39688			
8260B	Volatile Organics (5mL Purge)	1	39771	39688	10/25/2004 1931	1.00000

Lab ID: 207793-8 Client ID: MW-12
Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
5030A	5030 5 mL Purge Prep	1	39688			
8260B	Volatile Organics (5mL Purge)	1	39771	39688	10/25/2004 1956	1.00000

Lab ID: 207793-9 Client ID: MW-3
Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
5030A	5030 5 mL Purge Prep	1	39688			
8260B	Volatile Organics (5mL Purge)	1	39771	39688	10/25/2004 2020	1.00000

Lab ID: 207793-10 Client ID: A1MW-9A
Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
5030A	5030 5 mL Purge Prep	1	39688			
8260B	Volatile Organics (5mL Purge)	1	39771	39688	10/25/2004 2116	1.00000

Lab ID: 207793-11 Client ID: A1MW-9B
Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
5030A	5030 5 mL Purge Prep	1	39741			
8260B	Volatile Organics (5mL Purge)	1	39773	39741	10/26/2004 1225	1.00000

Lab ID: 207793-12 Client ID: MW-7
Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
5030A	5030 5 mL Purge Prep	1	39741			

LABORATORY CHRONICLE

Job Number: 207793 Date: 11/05/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR PROJECT: ARKWIN INDUSTRIES ATTN: Ben Cancemi

Lab ID: 207793-12 Client ID: MW-7 Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
8260B	Volatile Organics (5mL Purge)	1	39773	39741	10/26/2004	1249	1.00000

Lab ID: 207793-13 Client ID: A1MW-10B Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030A	5030 5 mL Purge Prep	1	39741				
8260B	Volatile Organics (5mL Purge)	1	39773	39741	10/26/2004	1313	1.00000

Lab ID: 207793-14 Client ID: A1MW-10A Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030A	5030 5 mL Purge Prep	1	39688				
8260B	Volatile Organics (5mL Purge)	1	39771	39688	10/25/2004	1642	1.00000

Lab ID: 207793-15 Client ID: MW-4 Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030A	5030 5 mL Purge Prep	1	39741				
8260B	Volatile Organics (5mL Purge)	1	39773	39741	10/26/2004	1337	1.00000

Lab ID: 207793-16 Client ID: TB Date Recvd: 10/15/2004 Sample Date: 10/13/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030A	5030 5 mL Purge Prep	1	39741				
8260B	Volatile Organics (5mL Purge)	1	39773	39741	10/26/2004	1201	1.00000

SURROGATE RECOVERIES REPORT

Job Number.: 207793 Report Date.: 10/28/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR PROJECT: ARKWIN INDUSTRIES ATTN: Ben Concetti

Method.....: Volatile Organics (5mL Purge) Method Code...: 8260.5 Prep Batch....: 39688
Batch(s).....: 39771 Test Matrix...: Water Equipment Code: MSL

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS-39688-2			10/25/2004	81	76	80	75
MB-39688-1			10/25/2004	81	80	83	77
207793- 1		A1MW-11E	10/25/2004	80	76	79	76
207793- 2		A1MW-11A	10/25/2004	81	77	80	75
207793- 3		A1MW-11B	10/25/2004	83	80	83	75
207793- 4		MW-1	10/25/2004	82	80	80	73
207793- 5		A1MW-8A	10/25/2004	83	78	86	74
207793- 6		A1MW-8B	10/25/2004	79	78	81	76
207793- 7		MW-2	10/25/2004	78	76	81	77
207793- 8		MW-12	10/25/2004	82	77	79	74
207793- 9		MW-3	10/25/2004	80	74	79	73
207793- 10		A1MW-9A	10/25/2004	80	76	84	75
207793- 14		A1MW-10A	10/25/2004	83	75	81	80

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	70 - 130
BRFLBE	4-Bromofluorobenzene (surr)	70 - 130
DBRFLM	Dibromofluoromethane (surr)	70 - 130
TOLD8	Toluene-d8 (surr)	70 - 130

Method.....: Volatile Organics (5mL Purge) Method Code...: 8260.5 Prep Batch....: 39741
Batch(s).....: 39773 Test Matrix...: Water Equipment Code: MSL

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS-39741-2			10/26/2004	87	74	86	74
MB-39741-1			10/26/2004	80	76	84	75
207793- 11		A1MW-9B	10/26/2004	86	78	86	76
207793- 12		MW-7	10/26/2004	81	81	84	77
207793- 13		A1MW-10B	10/26/2004	82	78	80	74
207793- 14	MS	A1MW-10A	10/26/2004	91	76	91	77
207793- 14	MSB	A1MW-10A	10/26/2004	86	75	85	75
207793- 14	MSD	A1MW-10A	10/26/2004	86	73	86	79
207793- 15		MW-4	10/26/2004	87	78	85	75
207793- 16		TB	10/26/2004	81	76	84	76

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	70 - 130
BRFLBE	4-Bromofluorobenzene (surr)	70 - 130
DBRFLM	Dibromofluoromethane (surr)	70 - 130
TOLD8	Toluene-d8 (surr)	70 - 130

QUALITY CONTROL RESULTS

Job Number.: 207793 Report Date.: 10/27/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR PROJECT: ARKWIN INDUSTRIES ATTN: Ben Cancemi

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B Equipment Code....: MSL Analyst...: pam
Method Description.: Volatile Organics (5mL Purge) Batch.....: 39773

MS	Matrix Spike	V04HWRK001	207793-14		10/26/2004 1456

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	51.497		50.000	1.400	U 103		43-134	
Vinyl chloride	ug/L	54.142		50.000	0.600	U 108		51-139	
Bromomethane	ug/L	46.907		50.000	2.700	U 94		27-171	
Chloroethane	ug/L	52.248		50.000	1.700	U 104		53-167	
1,1-Dichloroethene	ug/L	55.071		50.000	0.800	U 110		57-137	
Carbon disulfide	ug/L	51.881		50.000	0.400	U 104		44-142	
Acetone	ug/L	52.590		50.000	2.000	U 105		18-263	
Methylene chloride	ug/L	51.959		50.000	0.600	U 104		61-129	
trans-1,2-Dichloroethene	ug/L	53.644		50.000	0.500	U 107		57-129	
1,1-Dichloroethane	ug/L	54.701		50.000	0.400	U 109		67-121	
cis-1,2-Dichloroethene	ug/L	55.586		50.000	1.954	J 107		65-120	
2-Butanone (MEK)	ug/L	48.071		50.000	1.600	U 96		30-222	
Chloroform	ug/L	53.814		50.000	0.600	U 108		70-124	
1,1,1-Trichloroethane	ug/L	57.252		50.000	0.900	U 115		60-128	
Carbon tetrachloride	ug/L	59.510		50.000	0.600	U 119		56-131	
Benzene	ug/L	54.904		50.000	0.500	U 110		68-126	
1,2-Dichloroethane	ug/L	54.390		50.000	0.600	U 109		68-124	
Trichloroethene	ug/L	54.113		50.000	0.800	U 108		58-125	
1,2-Dichloropropane	ug/L	54.574		50.000	0.700	U 109		69-122	
Bromodichloromethane	ug/L	55.532		50.000	0.700	U 111		67-118	
cis-1,3-Dichloropropene	ug/L	53.834		50.000	0.400	U 108		60-122	
4-Methyl-2-pentanone (MIBK)	ug/L	47.876		50.000	0.900	U 96		61-140	
Toluene	ug/L	47.405		50.000	0.400	U 95		70-116	
trans-1,3-Dichloropropene	ug/L	54.461		50.000	0.800	U 109		55-126	
1,1,2-Trichloroethane	ug/L	56.312		50.000	0.800	U 113		70-119	
Tetrachloroethene	ug/L	48.728		50.000	0.400	U 97		62-118	
2-Hexanone	ug/L	49.129		50.000	0.700	U 98		54-179	
Dibromochloromethane	ug/L	49.218		50.000	0.500	U 98		65-114	
Chlorobenzene	ug/L	47.861		50.000	0.500	U 96		71-114	
Ethylbenzene	ug/L	48.729		50.000	0.500	U 97		71-115	
Styrene	ug/L	47.314		50.000	0.700	U 95		69-112	
Bromoform	ug/L	48.293		50.000	0.800	U 97		63-115	
1,1,2,2-Tetrachloroethane	ug/L	45.231		50.000	0.700	U 90		66-129	
Xylenes (total)	ug/L	140.992		150.000	0.900	U 94		66-118	

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 207793 Report Date.: 10/27/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR PROJECT: ARKWIN INDUSTRIES ATTN: Bert Cancemi

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	V04HWRK001	207793-14		10/26/2004	1521

Test Method.....: 8260B Equipment Code....: MSL Analyst...: pam
Method Description.: Volatile Organics (5mL Purge) Batch.....: 39773

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	53.664	51.497	50.000	1.400 U	107 4		43-134 20	
Vinyl chloride	ug/L	56.088	54.142	50.000	0.600 U	112 4		51-139 20	
Bromomethane	ug/L	49.078	46.907	50.000	2.700 U	98 5		27-171 20	
Chloroethane	ug/L	57.216	52.248	50.000	1.700 U	114 9		53-167 20	
1,1-Dichloroethene	ug/L	57.619	55.071	50.000	0.800 U	115 5		57-137 20	
Carbon disulfide	ug/L	53.534	51.881	50.000	0.400 U	107 3		44-142 20	
Acetone	ug/L	53.420	52.590	50.000	2.000 U	107 2		18-263 20	
Methylene chloride	ug/L	54.278	51.959	50.000	0.600 U	109 4		61-129 20	
trans-1,2-Dichloroethene	ug/L	56.011	53.644	50.000	0.500 U	112 4		57-129 20	
1,1-Dichloroethane	ug/L	57.199	54.701	50.000	0.400 U	114 4		67-121 20	
cis-1,2-Dichloroethene	ug/L	58.004	55.586	50.000	1.954 J	112 4		65-120 20	
2-Butanone (MEK)	ug/L	51.215	48.071	50.000	1.600 U	102 6		30-222 20	
Chloroform	ug/L	56.284	53.814	50.000	0.600 U	113 4		70-124 20	
1,1,1-Trichloroethane	ug/L	58.098	57.252	50.000	0.900 U	116 1		60-128 20	
Carbon tetrachloride	ug/L	61.375	59.510	50.000	0.600 U	123 3		56-131 20	
Benzene	ug/L	56.844	54.904	50.000	0.500 U	114 3		68-126 20	
1,2-Dichloroethane	ug/L	56.570	54.390	50.000	0.600 U	113 4		68-124 20	
Trichloroethene	ug/L	55.740	54.113	50.000	0.800 U	111 3		58-125 20	
1,2-Dichloropropane	ug/L	56.352	54.574	50.000	0.700 U	113 3		69-122 20	
Bromodichloromethane	ug/L	57.450	55.532	50.000	0.700 U	115 3		67-118 20	
cis-1,3-Dichloropropene	ug/L	56.369	53.834	50.000	0.400 U	113 5		60-122 20	
4-Methyl-2-pentanone (MIBK)	ug/L	53.288	47.876	50.000	0.900 U	107 11		61-140 20	
Toluene	ug/L	50.449	47.405	50.000	0.400 U	101 6		70-116 20	
trans-1,3-Dichloropropene	ug/L	56.939	54.461	50.000	0.800 U	114 4		55-126 20	
1,1,2-Trichloroethane	ug/L	55.516	56.312	50.000	0.800 U	111 1		70-119 20	

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 207793 Report Date.: 10/27/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR PROJECT: ARKWIN INDUSTRIES ATTN: Ben Cancemi

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	V04HWRK001	207793-14		10/26/2004	1521

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value		QC Calc.	*	Limits	F
Tetrachloroethene	ug/L	54.243	48.728	50.000	0.400	U	108 11		62-118 20	
2-Hexanone	ug/L	53.136	49.129	50.000	0.700	U	106 8		54-179 20	
Dibromochloromethane	ug/L	52.864	49.218	50.000	0.500	U	106 7		65-114 20	
Chlorobenzene	ug/L	51.079	47.861	50.000	0.500	U	102 7		71-114 20	
Ethylbenzene	ug/L	53.065	48.729	50.000	0.500	U	106 9		71-115 20	
Styrene	ug/L	50.975	47.314	50.000	0.700	U	102 7		69-112 20	
Bromoform	ug/L	52.794	48.293	50.000	0.800	U	106 9		63-115 20	
1,1,2,2-Tetrachloroethane	ug/L	47.584	45.231	50.000	0.700	U	95 5		66-129 20	
Xylenes (total)	ug/L	153.108	140.992	150.000	0.900	U	102 8		66-118 20	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 207793

Report Date.: 10/27/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR PROJECT: ARKWIN INDUSTRIES ATTN: Ben Cancemi

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics (5mL Purge)

Equipment Code....: MSL
Batch.....: 39773

Analyst...: pam

MSB	Matrix Spike Blank	V04HWRK001-2	207793-14		10/26/2004 1432

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	•	Limits	F
Chloromethane	ug/L	53.803		50.000	1.400	U 108		43-134	
Vinyl chloride	ug/L	53.441		50.000	0.600	U 107		51-139	
Bromomethane	ug/L	42.741		50.000	2.700	U 85		27-171	
Chloroethane	ug/L	53.465		50.000	1.700	U 107		53-167	
1,1-Dichloroethene	ug/L	55.011		50.000	0.800	U 110		57-137	
Carbon disulfide	ug/L	52.103		50.000	0.400	U 104		44-142	
Acetone	ug/L	57.056		50.000	2.000	U 114		18-263	
Methylene chloride	ug/L	54.434		50.000	0.655	J 108		61-129	
trans-1,2-Dichloroethene	ug/L	54.664		50.000	0.500	U 109		57-129	
1,1-Dichloroethane	ug/L	54.485		50.000	0.400	U 109		67-121	
cis-1,2-Dichloroethene	ug/L	53.680		50.000	0.700	U 107		65-120	
2-Butanone (MEK)	ug/L	57.534		50.000	1.600	U 115		30-222	
Chloroform	ug/L	55.292		50.000	0.600	U 111		70-124	
1,1,1-Trichloroethane	ug/L	53.379		50.000	0.900	U 107		60-128	
Carbon tetrachloride	ug/L	48.371		50.000	0.600	U 97		56-131	
Benzene	ug/L	55.576		50.000	0.500	U 111		68-126	
1,2-Dichloroethane	ug/L	55.016		50.000	0.600	U 110		68-124	
Trichloroethene	ug/L	54.969		50.000	0.800	U 110		58-125	
1,2-Dichloropropane	ug/L	52.765		50.000	0.700	U 106		69-122	
Bromodichloromethane	ug/L	56.733		50.000	0.700	U 113		67-118	
cis-1,3-Dichloropropene	ug/L	55.080		50.000	0.400	U 110		60-122	
4-Methyl-2-pentanone (MIBK)	ug/L	54.688		50.000	0.900	U 109		61-140	
Toluene	ug/L	49.444		50.000	0.400	U 99		70-116	
trans-1,3-Dichloropropene	ug/L	54.889		50.000	0.800	U 110		55-126	
1,1,2-Trichloroethane	ug/L	56.416		50.000	0.800	U 113		70-119	
Tetrachloroethene	ug/L	48.708		50.000	0.400	U 97		62-118	
2-Hexanone	ug/L	56.638		50.000	0.700	U 113		54-179	
Dibromochloromethane	ug/L	51.026		50.000	0.500	U 102		65-114	
Chlorobenzene	ug/L	49.067		50.000	0.500	U 98		71-114	
Ethylbenzene	ug/L	49.283		50.000	0.500	U 99		71-115	
Styrene	ug/L	49.020		50.000	0.700	U 98		69-112	
Bromoform	ug/L	53.587		50.000	0.800	U 107		63-115	
1,1,2,2-Tetrachloroethane	ug/L	50.825		50.000	0.700	U 102		66-129	
Xylenes (total)	ug/L	147.342		150.000	0.900	U 98		66-118	

• %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 207793 Report Date.: 10/27/2004

CUSTOMER: FANNING PHILLIPS AND MOLNAR PROJECT: ARKWIN INDUSTRIES ATTN: Ben Cancemi

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	V04HWRK001	39688-002	1	10/25/2004	1057

Test Method.....: 8260B Equipment Code....: MSL Analyst...: pam
Method Description..: Volatile Organics (5mL Purge) Batch.....: 39771

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	24.349		20.000		122	%	43-134	
Vinyl chloride	ug/L	22.862		20.000		114	%	51-139	
Bromomethane	ug/L	18.816		20.000		94	%	27-171	
Chloroethane	ug/L	21.348		20.000		107	%	53-167	
1,1-Dichloroethene	ug/L	20.758		20.000		104	%	57-137	
Carbon disulfide	ug/L	17.225		20.000		86	%	44-142	
Acetone	ug/L	19.666		20.000		98	%	18-263	
Methylene chloride	ug/L	19.437		20.000		97	%	61-129	
trans-1,2-Dichloroethene	ug/L	20.036		20.000		100	%	57-129	
1,1-Dichloroethane	ug/L	18.799		20.000		94	%	67-121	
cis-1,2-Dichloroethene	ug/L	18.652		20.000		93	%	65-120	
2-Butanone (MEK)	ug/L	22.966		20.000		115	%	30-222	
Chloroform	ug/L	19.829		20.000		99	%	70-124	
1,1,1-Trichloroethane	ug/L	19.399		20.000		97	%	60-128	
Carbon tetrachloride	ug/L	20.612		20.000		103	%	56-131	
Benzene	ug/L	19.779		20.000		99	%	68-126	
1,2-Dichloroethane	ug/L	19.358		20.000		97	%	68-124	
Trichloroethene	ug/L	19.406		20.000		97	%	58-125	
1,2-Dichloropropane	ug/L	19.058		20.000		95	%	69-122	
Bromodichloromethane	ug/L	19.634		20.000		98	%	67-118	
cis-1,3-Dichloropropene	ug/L	18.611		20.000		93	%	60-122	
4-Methyl-2-pentanone (MIBK)	ug/L	17.736		20.000		89	%	61-140	
Toluene	ug/L	18.152		20.000		91	%	70-116	
trans-1,3-Dichloropropene	ug/L	19.168		20.000		96	%	55-126	
1,1,2-Trichloroethane	ug/L	19.688		20.000		98	%	70-119	
Tetrachloroethene	ug/L	17.455		20.000		87	%	62-118	
2-Hexanone	ug/L	18.938		20.000		95	%	54-179	
Dibromochloromethane	ug/L	17.638		20.000		88	%	65-114	
Chlorobenzene	ug/L	17.588		20.000		88	%	71-114	
Ethylbenzene	ug/L	18.010		20.000		90	%	71-115	
Styrene	ug/L	17.794		20.000		89	%	69-112	
Bromoform	ug/L	18.610		20.000		93	%	63-115	
1,1,2,2-Tetrachloroethane	ug/L	18.208		20.000		91	%	66-129	
Xylenes (total)	ug/L	54.548		60.000		91	%	66-118	

QUALITY CONTROL RESULTS

Job Number.: 207793 Report Date.: 10/27/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR PROJECT: ARKWIN INDUSTRIES ATTN: Ben Cancemi

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	V04HWRK001	39741-002		10/26/2004	1119

Test Method.....: 8260B Equipment Code....: MSL Analyst...: pam
Method Description.: Volatile Organics (5mL Purge) Batch.....: 39773

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	25.664		20.000		128	%	43-134	
Vinyl chloride	ug/L	23.217		20.000		116	%	51-139	
Bromomethane	ug/L	18.206		20.000		91	%	27-171	
Chloroethane	ug/L	22.214		20.000		111	%	53-167	
1,1-Dichloroethene	ug/L	21.178		20.000		106	%	57-137	
Carbon disulfide	ug/L	17.959		20.000		90	%	44-142	
Acetone	ug/L	20.462		20.000		102	%	18-263	
Methylene chloride	ug/L	19.711		20.000		99	%	61-129	
trans-1,2-Dichloroethene	ug/L	19.356		20.000		97	%	57-129	
1,1-Dichloroethane	ug/L	19.749		20.000		99	%	67-121	
cis-1,2-Dichloroethene	ug/L	20.497		20.000		102	%	65-120	
2-Butanone (MEK)	ug/L	19.886		20.000		99	%	30-222	
Chloroform	ug/L	20.361		20.000		102	%	70-124	
1,1,1-Trichloroethane	ug/L	20.145		20.000		101	%	60-128	
Carbon tetrachloride	ug/L	17.694		20.000		88	%	56-131	
Benzene	ug/L	20.870		20.000		104	%	68-126	
1,2-Dichloroethane	ug/L	20.554		20.000		103	%	68-124	
Trichloroethene	ug/L	19.439		20.000		97	%	58-125	
1,2-Dichloropropane	ug/L	19.635		20.000		98	%	69-122	
Bromodichloromethane	ug/L	19.086		20.000		95	%	67-118	
cis-1,3-Dichloropropene	ug/L	19.942		20.000		100	%	60-122	
4-Methyl-2-pentanone (MIBK)	ug/L	18.352		20.000		92	%	61-140	
Toluene	ug/L	17.194		20.000		86	%	70-116	
trans-1,3-Dichloropropene	ug/L	19.386		20.000		97	%	55-126	
1,1,2-Trichloroethane	ug/L	19.991		20.000		100	%	70-119	
Tetrachloroethene	ug/L	17.348		20.000		87	%	62-118	
2-Hexanone	ug/L	19.213		20.000		96	%	54-179	
Dibromochloromethane	ug/L	17.170		20.000		86	%	65-114	
Chlorobenzene	ug/L	16.910		20.000		85	%	71-114	
Ethylbenzene	ug/L	17.969		20.000		90	%	71-115	
Styrene	ug/L	16.308		20.000		82	%	69-112	
Bromoform	ug/L	17.845		20.000		89	%	63-115	
1,1,2,2-Tetrachloroethane	ug/L	17.372		20.000		87	%	66-129	
Xylenes (total)	ug/L	52.137		60.000		87	%	66-118	

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

39688-1MB

Lab Name: STL-CT Contract:

Lab Code: STL-CT Case No.: 207793 SAS No.: SDG No.: 207793

Lab File ID: L6535 Lab Sample ID: 39688-1MB

Date Analyzed: 10/25/04 Time Analyzed: 1030

GC Column: RTX-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: MSL

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	39688-2LCS	39688-2LCS	L6536	1057
02	A1MW-10A	207793-14	L6549	1642
03	A1MW-11E	207793-1	L6550	1707
04	A1MW-11A	207793-2	L6551	1731
05	A1MW-11B	207793-3	L6552	1755
06	MW-1	207793-4	L6553	1819
07	A1MW-8A	207793-5	L6554	1843
08	A1MW-8B	207793-6	L6555	1907
09	MW-2	207793-7	L6556	1931
10	MW-12	207793-8	L6557	1956
11	MW-3	207793-9	L6558	2020
12	A1MW-9A	207793-10	L6560	2116
13				
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COMMENTS:

QUALITY CONTROL RESULTS

Job Number.: 207793

Report Date.: 10/27/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR PROJECT: ARKWIN INDUSTRIES ATTN: BERT CHENEY

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B Equipment Code....: MSL Analyst...: pam

Method Description.: Volatile Organics (5mL Purge) Batch.....: 39771

MB	Method Blank		39688-001		10/25/2004	1030

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	•	Limits	F
Chloromethane	ug/L	1.400 U							
Vinyl chloride	ug/L	0.600 U							
Bromomethane	ug/L	2.700 U							
Chloroethane	ug/L	1.700 U							
1,1-Dichloroethene	ug/L	0.800 U							
Carbon disulfide	ug/L	0.400 U							
Acetone	ug/L	2.000 U							
Methylene chloride	ug/L	0.600 U							
trans-1,2-Dichloroethene	ug/L	0.500 U							
1,1-Dichloroethane	ug/L	0.400 U							
Vinyl acetate	ug/L	1.900 U							
cis-1,2-Dichloroethene	ug/L	0.700 U							
2-Butanone (MEK)	ug/L	1.600 U							
Chloroform	ug/L	0.600 U							
1,1,1-Trichloroethane	ug/L	0.900 U							
Carbon tetrachloride	ug/L	0.600 U							
Benzene	ug/L	0.500 U							
1,2-Dichloroethane	ug/L	0.600 U							
Trichloroethene	ug/L	0.800 U							
1,2-Dichloropropane	ug/L	0.700 U							
Bromodichloromethane	ug/L	0.700 U							
cis-1,3-Dichloropropene	ug/L	0.400 U							
4-Methyl-2-pentanone (MIBK)	ug/L	0.900 U							
Toluene	ug/L	0.400 U							
trans-1,3-Dichloropropene	ug/L	0.800 U							
1,1,2-Trichloroethane	ug/L	0.800 U							
Tetrachloroethene	ug/L	0.400 U							
2-Hexanone	ug/L	0.700 U							
Dibromochloromethane	ug/L	0.500 U							
Chlorobenzene	ug/L	0.500 U							
Ethylbenzene	ug/L	0.500 U							
Styrene	ug/L	0.700 U							
Bromoform	ug/L	0.800 U							
1,1,2,2-Tetrachloroethane	ug/L	0.700 U							
Xylenes (total)	ug/L	0.900 U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

39741-1MB

Lab Name: STL-CT Contract:

Lab Code: STL-CT Case No.: 207793 SAS No.: SDG No.: 207793

Lab File ID: L6563 Lab Sample ID: 39741-1MB

Date Analyzed: 10/26/04 Time Analyzed: 1055

GC Column: RTX-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: MSL

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	39741-2LCS	39741-2LCS	L6564	1119
02	TB	207793-16	L6565	1201
03	A1MW-9B	207793-11	L6566	1225
04	MW-7	207793-12	L6567	1249
05	A1MW-10B	207793-13	L6568	1313
06	MW-4	207793-15	L6569	1337
07	A1MW-10A	207793-14MSB	L6571	1432
08	A1MW-10AMS	207793-14MS	L6572	1456
09	A1MW-10AMSD	207793-14MSD	L6573	1521
10				
11				
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COMMENTS:

QUALITY CONTROL RESULTS

Job Number.: 207793 — Report Date.: 10/27/2004

CUSTOMER: FANNING, PHILLIPS AND MOLNAR — PROJECT: ARKWIN INDUSTRIES — ATTN: Ben Carcerni

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		39741-001		10/26/2004	1055

Test Method.....: 8260B — Equipment Code....: MSL — Analyst...: pam
Method Description.: Volatile Organics (5mL Purge) — Batch.....: 39773

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	•	Limits	F
Chloromethane	ug/L	1.400	U						
Vinyl chloride	ug/L	0.600	U						
Bromomethane	ug/L	2.700	U						
Chloroethane	ug/L	1.700	U						
1,1-Dichloroethene	ug/L	0.800	U						
Carbon disulfide	ug/L	0.400	U						
Acetone	ug/L	2.000	U						
Methylene chloride	ug/L	0.655	J						B
trans-1,2-Dichloroethene	ug/L	0.500	U						
1,1-Dichloroethane	ug/L	0.400	U						
Vinyl acetate	ug/L	1.900	U						
cis-1,2-Dichloroethene	ug/L	0.700	U						
2-Butanone (MEK)	ug/L	1.600	U						
Chloroform	ug/L	0.600	U						
1,1,1-Trichloroethane	ug/L	0.900	U						
Carbon tetrachloride	ug/L	0.600	U						
Benzene	ug/L	0.500	U						
1,2-Dichloroethane	ug/L	0.600	U						
Trichloroethene	ug/L	0.800	U						
1,2-Dichloropropane	ug/L	0.700	U						
Bromodichloromethane	ug/L	0.700	U						
cis-1,3-Dichloropropene	ug/L	0.400	U						
4-Methyl-2-pentanone (MIBK)	ug/L	0.900	U						
Toluene	ug/L	0.400	U						
trans-1,3-Dichloropropene	ug/L	0.800	U						
1,1,2-Trichloroethane	ug/L	0.800	U						
Tetrachloroethene	ug/L	0.400	U						
2-Hexanone	ug/L	0.700	U						
Dibromochloromethane	ug/L	0.500	U						
Chlorobenzene	ug/L	0.500	U						
Ethylbenzene	ug/L	0.500	U						
Styrene	ug/L	0.700	U						
Bromoform	ug/L	0.800	U						
1,1,2,2-Tetrachloroethane	ug/L	0.700	U						
Xylenes (total)	ug/L	0.900	U						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

Abbreviations

Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation Analysis
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
Dil Fac	Dilution Factor
DL	Secondary dilution and analysis
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB	Extraction Blank
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A
ISB	Interference Check Sample B
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group
Lab ID	An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PACK	Packed Column
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PS	Post Spike
PSD	Post Spike Duplicate
RA	Re-analysis
RE	Re-extraction and analysis
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor
RS	Reference Standard
RT	Retention Time
RTW	Retention Time Window
SampleID	A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution
UCB	Unseeded Control Blank

One or a combination of these data qualifiers and abbreviations may appear in the analytical report.

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.

3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 10604
5) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviation

Inorganic Qualifiers (Q-Column)

U	Analyte was not detected at or above the reporting limit.
<	Not detected at or above the reporting limit.
J	Result is less than the RL, but greater than or equal to the method detection limit.
B	Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S	Result was determined by the Method of Standard Additions.

Inorganic Flags (Flag Column)

^	ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed th upper or lower control limits.
*	LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+	MSA correlation coefficient is less than 0.995.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E	SD: Serial dilution exceeds the control limits.
H	MB, EB: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N	MS, MSD: Spike recovery exceeds the upper or lower control limits.
W	PS: Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U	Analyte was not detected at or above the reporting limit.
ND	Compound not detected.
J	Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q	Result was qualitatively confirmed, but not quantified.
C	Pesticide identification was confirmed by GC/MS.
Y	The chromatographic response resembles a typical fuel pattern.
Z	The chromatographic response does not resemble a typical fuel pattern.
E	Result exceeded calibration range, secondary dilution required.

Organic Flags (Flags Column)

^	MB,EB, MLE: Batch QC is greater than reporting limit.
*	LCS, LCD, CCV, MS, MSD, Surrogate, RS:Batch QC exceeds the upper or lower control limits.
A	Concentration exceeds the instrument calibration range or below the reporting limit.
B	Compound was found in the blank.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H	Alternate peak selection upon analytical review
I	Indicates the presence of an interfence, recovery is not calculated.
M	Manually integrated compound.
P	The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

STL-Connecticut
Certification Summary (as of October 2004)

The laboratory identification numbers for the STL-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

State	Responsible Agency	Certification	Expiration Date	Lab Number
Connecticut	Department of Health Services	Drinking Water, Wastewater	12/31/04	PH-0497
Maine	Department of Health and Environmental Services	Drinking Water, Wastewater/Solid, Hazardous Waste	04/18/06	CT023
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	06/30/05	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	08/29/05	2528
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	06/30/05	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste **NELAC**	04/01/05	10602
Rhode Island	Department of Health	Chemistry...Non- Potable Water and Wastewater	12/30/04	A43
Utah	Department of Health	RCRA	05/31/05	2032614458

SEVERN TRENT STL

MISCELLANEOUS DOCUMENTS

SEVERN TRENT STL

STL Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel: (203) 929-8140
Fax: (203) 929-8142

CHAIN OF CUSTODY RECORD

 NO. 435

STL JOB #: 20000 435
CLIENT: FPM Group
PROJECT ID: GS2-04-05
STL PROJECT MGR: Johanna D.
RUSH ☐ YES ☒ NO DUE DATE

TESTS: VOC's NYSDEC ASP CAT B
BOTTLE TYPE AND PRESERVATION: 2×40ml HCl
GENERAL REMARKS: "PASSED RAD SCREEN" 0.0°C

BOTTLE SET #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	MATRIX	LAB ID	QC Y/N	Field filtered Y/(N)	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	SAMPLE REMARKS
	A1MW-11E	10/13/04 1000	H2O	01	N	X								
	A1MW-11A	1020		02										
	A1MW-11B	1010		03										
	MW-1	1220		04										
	A1MW-8A	1150		05										
	A1MW-8B	1140		06										
	MW-2	1100		07										
	MW-12	1110		08										
	MW-3	1340		09										
	A1MW-9A	1310		10										

000048

207793 10/29/2004
FANNING, PHILLIPS AND MOLNAR
BEN CANCEMI
ARKWIN INDUSTRIES

MATRIX CODES
A - AIR
AQ - AQUEOUS
C - COMPLEX
D - DRUM WASTE
OI - OIL
S - SOIL
SL - SLUDGE
W - WIPE
O - OTHER
FB - FIELD BLANK
TB - TRIP BLANK

BOTTLES PREPARED BY — DATE/TIME
SIGNATURE
SAMPLES COLLECTED BY: Ben T. Cancemi — DATE/TIME: 10/14/04
SIGNATURE: [signature]

BOTTLES REC'D BY: [signature] — DATE/TIME: 10/14/04 9:15
SIGNATURE
RECEIVED IN LAB BY: Kristina Blocker — DATE/TIME: 10/15/04 0930
SIGNATURE: [signature]

REMARKS ON SAMPLE RECEIPT
☐ BOTTLES INTACT ☐ CUSTODY SEALS
☐ PRESERVED ☐ SEALS INTACT
☐ CHILLED ☐ SEE REMARKS

STL-8122

SEVERN TRENT **STL**

STL Connecticut
128 Long Hill Cross Road
Shelton, CT 06484

Tel: (203) 929-8140
Fax: (203) 929-8142

CHAIN OF CUSTODY RECORD

 NO.

STL JOB #: 20000 435
CLIENT: FPM Group
PROJECT ID: 652-04-05
STL PROJECT MGR: Johanna D.
RUSH [ ] YES [X] NO DUE DATE

TESTS: VOC's MSD/ECASP CAT B

GENERAL REMARKS: "PASSED RAD SCREEN"

BOTTLE TYPE AND PRESERVATION: 3x 40ml HCl

BOTTLE SET #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	MATRIX	LAB ID	QC Y/N	FIELD FILTERED (CIRCLE Y or N)	SAMPLE REMARKS
	AIMW-9B	10/13/04 1300	H_2O	11	N	N	
	MW-7	1540		12	N		
	AIMW-10B	1450		13	N		
	AIMW-10A	1500		14	Y		MS/MSD (6) 40ml
	MW-4	1415		15	N		
	TB			16	Y	(both TB vials have headspace JP 10/15/04)	Trip Blank

000049

207793 10/29/2004
FANNING, PHILLIPS AND MOLNAR
BEN CANCEMI
ARKWIN INDUSTRIES

MATRIX CODES	
A - AIR	S - SOIL
AQ - AQUEOUS	SL - SLUDGE
C - COMPLEX	W - WIPE
D - DRUM WASTE	O - OTHER
OI - OIL	FB - FIELD BLANK
	TB - TRIP BLANK

BOTTLES PREPARED BY	DATE/TIME	BOTTLES REC'D BY: [signature]	DATE/TIME: 9:57 10/14/04
SIGNATURE		SIGNATURE	
SAMPLES COLLECTED BY: Ben T. Cancemi	DATE/TIME: 10/14/04	RECEIVED IN LAB BY: Kristina Booker	DATE/TIME: 10/15/04 0930
SIGNATURE: [signature]		SIGNATURE: [signature]	

REMARKS ON SAMPLE RECEIPT
- [ ] BOTTLES INTACT
- [ ] CUSTODY SEALS
- [ ] PRESERVED
- [ ] SEALS INTACT
- [ ] CHILLED
- [ ] SEE REMARKS

rpjsckl | Job Sample Receipt Checklist Report | V2

Job Number.: 207793 Location.: 57207 Check List Number.: 1 Description.:
Customer Job ID.....: Job Check List Date.: Date of the Report..: 10/15/2004
Project Number.: 20000435 Project Description.: Arkwin Industries Project Manager.....: jld
Customer.....: FANNING, PHILLIPS AND MOLNAR Contact.: Ben Cancemi

Questions ?	(Y/N)	Comments
Chain-of-Custody Present?	Y	
...If "yes", completed properly?	Y	
Custody seal on shipping container?	Y	
...If "yes", custody seal intact?	Y	
Custody seals on sample containers?	N	
...If "yes", custody seal intact?		
Samples iced?	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	0.0C
Samples received intact (good condition)?	Y	
Volatile samples acceptable? (no headspace)	N	BOTH TB VIALS HAVE HEADSPACE
Correct containers used?	Y	
Adequate sample volume provided?	Y	
Samples preserved correctly?		
Samples received within holding-time?	Y	
Agreement between COC and sample labels?	Y	
Radioactivity at or below background levels?	Y	
A Sample Discrepancy Report (SDR) was needed?	N	
Comments		
If samples were shipped was there an air bill #?	Y	FEDEX
Sample Custodian Signature/Date		K. Blocken 10/15/04

207793

10/29/2004

FANNING, PHILLIPS AND MOLNAR
BEN CANCEMI
ARKWIN INDUSTRIES

STL - Connecticut
Internal Chain-of-Custody

Trip Blank: #16

QC: #14 Air: —

FB: —

Soil: — Water: #01-16

Date Received: 10/15/04

Sample #s: 01-16

Locations: R34V

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1-10,14,16	CC	DH	10/25/04	16:00	VOA	Used			
11-13,14-16		DH	10/25/04	12:00 11:45 DH	VOA	Used			
					10/26/04				

STL Form# SMF00507.CT

0000051

SEVERN TRENT STL

SDG NARRATIVE

SEVERN TRENT STL

STL Report : 207793
FPM GROUP

Case Narrative

Sample Receipt – All samples were received in good condition and at the proper temperature.

Volatile Organics – Volatile organics were determined by purge and trap GC/MS using guidance provided in Method 5030B/8260B.

The spike compound percent recoveries were within the laboratory generated guidelines in the independent source quality control samples.

Sample Calculation:

Sample ID-A1MW-11A
Compound- 1,1-Dichloroethene

$$\frac{(42636 \text{ area})(125\text{ng})(1)}{(163012 \text{ area})(.346 \text{ area/ng})(5\text{ml})} = 18.89 = 19 \text{ ug/L.}$$

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative.

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Peter Frick
Laboratory Director

Nov 5 2004
Date

YORK
ANALYTICAL LABORATORIES, INC.

cc:BC

OCT 12 2004

Technical Report

prepared for

FPM Group
909 Marconi Avenue
Ronkonkoma, New York 11779
Attention: Ben Cancemi

Report Date: 10/6/2004
Re: Client Project ID: Arkwin 652-04-05
York Project No.: 04090665

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120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 10/6/2004
Client Project ID: Arkwin 652-04-05
York Project No.: 04090665

FPM Group
909 Marconi Avenue
Ronkonkoma, New York 11779
Attention: Ben Cancemi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 09/29/04. The project was identifed as your project "Arkwin 652-04-05 ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			System A Effluent		System B Effluent	
York Sample ID			04090665-01		04090665-02	
Matrix			AIR		AIR	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles(TO-14 list)	EPA TO14	ppbv	---	---	---	---
1,1,1-Trichloroethane			59	1.0	81	1.0
1,1,2,2-tetrachloroethane			Not detected	1.0	Not detected	1.0
1,1,2-Trichloroethane			Not detected	1.0	Not detected	1.0
1,1-Dichloroethane			Not detected	1.0	19	1.0
1,1-Dichloroethylene			Not detected	1.0	Not detected	1.0
1,2,4-Trichlorobenzene			Not detected	1.0	Not detected	1.0
1,2,4-Trimethylbenzene			Not detected	1.0	Not detected	1.0
1,2-Dibromoethane			Not detected	1.0	Not detected	1.0
1,2-Dichlorobenzene			Not detected	1.0	Not detected	1.0
1,2-Dichloroethane			Not detected	1.0	Not detected	1.0
1,2-Dichloropropane			Not detected	1.0	Not detected	1.0
1,2-Dichlorotetrafluoroethane			Not detected	1.0	Not detected	1.0
1,3,5-Trimethylbenzene			Not detected	1.0	Not detected	1.0
1,3-Dichlorobenzene			Not detected	1.0	Not detected	1.0
1,4-Dichlorobenzene			Not detected	1.0	Not detected	1.0
3-Chloropropene			Not detected	1.0	Not detected	1.0

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Client Sample ID			System A Effluent		System B Effluent	
York Sample ID			04090665-01		04090665-02	
Matrix			AIR		AIR	
Parameter	Method	Units	Results	MDL	Results	MDL
4-Ethyltoluene			Not detected	1.0	Not detected	1.0
Benzene			Not detected	1.0	Not detected	1.0
Benzyl Chloride			Not detected	1.0	Not detected	1.0
Bromomethane			Not detected	1.0	Not detected	1.0
Carbon Tetrachloride			Not detected	1.0	Not detected	1.0
Chlorobenzene			Not detected	1.0	Not detected	1.0
Chloroethane			Not detected	1.0	Not detected	1.0
Chloroform			Not detected	1.0	Not detected	1.0
Chloromethane			Not detected	1.0	Not detected	1.0
cis-1,2-Dichloroethylene			12	1.0	99	1.0
cis-1,3-Dichloropropylene			Not detected	1.0	Not detected	1.0
Dichlorodifluoromethane			4.3	1.0	Not detected	1.0
Ethylbenzene			Not detected	1.0	Not detected	1.0
Freon-113			Not detected	1.0	Not detected	1.0
Hexachloro-1,3-Butadiene			Not detected	1.0	Not detected	1.0
Methylene Chloride			Not detected	1.0	Not detected	1.0
o-Xylene			Not detected	1.0	Not detected	1.0
p- & m-Xylenes			Not detected	1.0	Not detected	1.0
Styrene			Not detected	1.0	Not detected	1.0
Tetrachloroethylene			19	1.0	15	1.0
Toluene			2.7	1.0	1.9	1.0
trans-1,3-Dichloropropylene			Not detected	1.0	Not detected	1.0
Trichloroethylene			13	1.0	34	1.0
Trichlorofluoromethane			2.3	1.0	Not detected	1.0
Vinyl Chloride			Not detected	1.0	Not detected	1.0

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 04090665

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 10/6/2004

YORK

YORK

Analytical Laboratories, Inc.

QA/QC Summary Report

Associated Samples: AC32430 06-Oct-04

Client: FPM Group

Analysis Name: *Volatiles(TO-14 list) QA ONLY* **Batch Name:** $TO14_-13987 **QA Sample #:** AC32430

Unit of Measure: ppbv **York's Sample ID:** 04090665-01

Parameter	LCS(%)	Unspiked Result	Blank	Matrix Spike Amount	Matrix Spike Result	Matrix Spike Recovery, %	Spike Duplicate Duplicate	Spike Duplicate Recovery,%	Precision, RPD
1,2-Dichloroethane		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Benzyl Chloride		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Benzene		Not detected	Not detected	5.0	3.9	**78.0**	Not detected		
4-Ethyltoluene		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
3-Chloropropene		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,4-Dichlorobenzene		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,3-Dichlorobenzene		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,3,5-Trimethylbenze		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,1,1-Trichloroethane		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,2-Dichloropropane		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Chlorobenzene		Not detected	Not detected	5.0	4.0	**80.0**	Not detected		
1,2-Dichlorobenzene		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,2-Dibromoethane		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,2,4-Trimethylbenze		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,2,4-Trichlorobenze		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,1-Dichloroethylene		Not detected	Not detected	5.0	4.2	**84.0**	Not detected		
1,1-Dichloroethane		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,1,2-Trichloroethane		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,1,2,2-tetrachloroet		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,2-Dichlorotetrafluor		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Freon-113		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Trichlorofluorometha		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Trichloroethylene		Not detected	Not detected	5.0	4.3	**86.0**	Not detected		
trans-1,3-Dichloropro		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Toluene		1.4	Not detected	5.0	4.1	**82.0**	1.3		7.4
Tetrachloroethylene		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Styrene		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE
STRATFORD, CT 06615
203.325.1371 FAX 203.357-0166

01090665

Field Chain-of-Custody Record

Company Name	Report to:	Invoice to:	Project ID/No.	Samples Collected by (signature)
FPM	Ben Cancemi	FPM	Arkwin 652-04-05	Mark R. Spencer (Name printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	Other	Analyses Requested	Container Desc.
	System A Effluent	9/28/04 1250			X		VOCs by TO14	(1) Tedlar Bag
	System B Effluent	1300			↓		↓	↓

Chain-of-Custody Record					
Bottles Relinquished from Lab by	Date/Time	Samples Relinquished by: Mark R Spencer	Date/Time: 9/29/04	Samples received by: Wayne	Date/Time: 9/29 1100
Bottles received in field by	Date/Time	Samples Relinquished by	Date/Time	Samples received in LAB by: [illegible] 9/29 2pm	Date/Time

Comments/Special Instructions

Turn-Around Time Requested- Specify Date Expected if RUSH Requested: DATE DUE FOR RUSH:

X STANDARD _____ RUSH(Define)

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

FPM Group
909 Marconi Avenue
Ronkonkoma, New York 11779
Attention: Ben Cancemi

Report Date: 1/4/2005
Re: Client Project ID: Arkwin/652-04-05
York Project No.: 04120697

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120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 1/4/2005
Client Project ID: Arkwin/652-04-05
York Project No.: 04120697

FPM Group
909 Marconi Avenue
Ronkonkoma, New York 11779
Attention: Ben Cancemi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 12/29/04. The project was identifed as your project "Arkwin/652-04-05 ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			System A Effluent		System B Effluent	
York Sample ID			04120697-01		04120697-02	
Matrix			AIR		AIR	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles(TO-14 list)	EPA TO-14A	ppbv	---	---	---	---
1,1,1-Trichloroethane			170	1.0	2.8	1.0
1,1,2,2-tetrachloroethane			Not detected	1.0	Not detected	1.0
1,1,2-Trichloroethane			Not detected	1.0	Not detected	1.0
1,1-Dichloroethane			19	1.0	Not detected	1.0
1,1-Dichloroethylene			Not detected	1.0	Not detected	1.0
1,2,4-Trichlorobenzene			Not detected	1.0	Not detected	1.0
1,2,4-Trimethylbenzene			Not detected	1.0	Not detected	1.0
1,2-Dibromoethane			Not detected	1.0	Not detected	1.0
1,2-Dichlorobenzene			Not detected	1.0	Not detected	1.0
1,2-Dichloroethane			Not detected	1.0	Not detected	1.0
1,2-Dichloropropane			Not detected	1.0	Not detected	1.0
1,2-Dichlorotetrafluoroethane			Not detected	1.0	Not detected	1.0
1,3,5-Trimethylbenzene			Not detected	1.0	Not detected	1.0
1,3-Dichlorobenzene			Not detected	1.0	Not detected	1.0
1,4-Dichlorobenzene			Not detected	1.0	Not detected	1.0
3-Chloropropene			Not detected	1.0	Not detected	1.0

YORK

Client Sample ID			System A Effluent		System B Effluent	
York Sample ID			04120697-01		04120697-02	
Matrix			AIR		AIR	
Parameter	Method	Units	Results	MDL	Results	MDL
4-Ethyltoluene			Not detected	1.0	Not detected	1.0
Benzene			Not detected	1.0	Not detected	1.0
Benzyl Chloride			Not detected	1.0	Not detected	1.0
Bromomethane			Not detected	1.0	Not detected	1.0
Carbon Tetrachloride			Not detected	1.0	Not detected	1.0
Chlorobenzene			Not detected	1.0	Not detected	1.0
Chloroethane			Not detected	1.0	Not detected	1.0
Chloroform			Not detected	1.0	Not detected	1.0
Chloromethane			Not detected	1.0	Not detected	1.0
cis-1,2-Dichloroethylene			47	1.0	Not detected	1.0
cis-1,3-Dichloropropylene			Not detected	1.0	Not detected	1.0
Dichlorodifluoromethane			Not detected	1.0	Not detected	1.0
Ethylbenzene			Not detected	1.0	Not detected	1.0
Freon-113			100	1.0	Not detected	1.0
Hexachloro-1,3-Butadiene			Not detected	1.0	Not detected	1.0
Methylene Chloride			Not detected	1.0	Not detected	1.0
o-Xylene			Not detected	1.0	Not detected	1.0
p- & m-Xylenes			Not detected	1.0	Not detected	1.0
Styrene			Not detected	1.0	Not detected	1.0
Tetrachloroethylene			88	1.0	1.3	1.0
Toluene			Not detected	1.0	Not detected	1.0
trans-1,3-Dichloropropylene			Not detected	1.0	Not detected	1.0
Trichloroethylene			39	1.0	1.5	1.0
Trichlorofluoromethane			Not detected	1.0	Not detected	1.0
Vinyl Chloride			Not detected	1.0	Not detected	1.0
Volatile Organics, TO14 List	EPA TO14A	ug/cu.m.	---	---	---	---
1,1,1-Trichloroethane			943	5.55	15.5	5.55
1,1,2,2-tetrachloroethane			Not detected	7.00	Not detected	7.00
1,1,2-Trichloroethane			Not detected	5.55	Not detected	5.55
1,1-Dichloroethane			78.2	4.10	Not detected	4.10
1,1-Dichloroethylene			Not detected	4.05	Not detected	4.05
1,2,4-Trichlorobenzene			Not detected	8.30	Not detected	8.30
1,2,4-Trimethylbenzene			Not detected	5.00	Not detected	5.00
1,2-Dibromoethane			Not detected	7.80	Not detected	7.80
1,2-Dichlorobenzene			Not detected	6.00	Not detected	6.00
1,2-Dichloroethane			Not detected	4.10	Not detected	4.10
1,2-Dichloropropane			Not detected	4.70	Not detected	4.70
1,2-Dichlorotetrafluoroethane			Not detected	5.00	Not detected	5.00
1,3,5-Trimethylbenzene			Not detected	5.00	Not detected	5.00
1,3-Dichlorobenzene			Not detected	6.10	Not detected	6.10
1,4-Dichlorobenzene			Not detected	6.05	Not detected	6.05
3-Chloropropene			Not detected	7.50	Not detected	7.50
4-Ethyltoluene			Not detected	5.05	Not detected	5.05
Benzene			Not detected	3.25	Not detected	3.25
Benzyl Chloride			Not detected	5.75	Not detected	5.75
Bromomethane			Not detected	3.95	Not detected	3.95
Carbon Tetrachloride			Not detected	6.40	Not detected	6.40
Chlorobenzene			Not detected	4.70	Not detected	4.70
Chloroethane			Not detected	2.70	Not detected	2.70
Chloroform			Not detected	4.95	Not detected	4.95
Chloromethane			Not detected	2.10	Not detected	2.10

YORK

Client Sample ID			System A Effluent		System B Effluent	
York Sample ID			04120697-01		04120697-02	
Matrix			AIR		AIR	
Parameter	Method	Units	Results	MDL	Results	MDL
cis-1,2-Dichloroethylene			190	4.05	Not detected	4.05
cis-1,3-Dichloropropylene			Not detected	4.95	Not detected	4.95
Dichlorodifluoromethane			Not detected	5.05	Not detected	5.05
Ethylbenzene			Not detected	4.40	Not detected	4.40
Freon-113			779	7.80	Not detected	7.80
Hexachloro-1,3-Butadiene			Not detected	7.10	Not detected	7.10
Methylene Chloride			Not detected	3.55	Not detected	3.55
o-Xylene			Not detected	4.40	Not detected	4.40
p- & m-Xylenes			Not detected	4.40	Not detected	4.40
Styrene			Not detected	4.35	Not detected	4.35
Tetrachloroethylene			607	6.90	8.97	6.90
Toluene			Not detected	3.85	Not detected	3.85
trans-1,3-Dichloropropylene			Not detected	5.05	Not detected	5.05
Trichloroethylene			213	5.45	8.20	5.45
Trichlorofluoromethane			Not detected	5.70	Not detected	5.70
Vinyl Chloride			Not detected	2.60	Not detected	2.60

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 04120697

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 1/4/2005

YORK

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ANALYTICAL LABORATORIES, INC.

QA/QC Summary Report

Associated Samples: AC41545 — 04-Jan-05

Client: FPM Group

Analysis Name: *Volatiles(TO-14 list) QA ONLY* — **Batch Name:** $TO14_-14514 — **QA Sample #:** AC41545

Unit of Measure: ppbv — **York's Sample ID:** 04120697-01

Parameter	LCS(%)	Unspiked Result	Blank	Matrix Spike Amount	Matrix Spike Result	Matrix Spike Recovery, %	Spike Duplicate Duplicate	Spike Duplicate Recovery,%	Spike Duplicate Precision, RPD
1,2-Dichloroethane		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Benzyl Chloride		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Benzene		3.2	Not detected	5.0	6.6	**132.0**	2.8		**13.3**
4-Ethyltoluene		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
3-Chloropropene		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,4-Dichlorobenzene		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,3-Dichlorobenzene		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,3,5-Trimethylbenze		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,1,1-Trichloroethane		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,2-Dichloropropane		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Chlorobenzene		1.2	Not detected	5.0	5.7	**114.0**	1.1		**8.7**
1,2-Dichlorobenzene		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,2-Dibromoethane		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,2,4-Trimethylbenze		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,2,4-Trichlorobenze		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,1-Dichloroethylene		Not detected	Not detected	5.0	5.6	**112.0**	Not detected		
1,1-Dichloroethane		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,1,2-Trichloroethane		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,1,2,2-tetrachloroet		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
1,2-Dichlorotetrafluor		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Freon-113		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Trichlorofluorometha		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Trichloroethylene		1.3	Not detected	5.0	5.4	**108.0**	1.6		**20.7**
trans-1,3-Dichloropro		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		
Toluene		2.5	Not detected	5.0	5.8	**116.0**	2.4		**4.1**
Tetrachloroethylene		74	Not detected	Not detected	Not detected	**Not detected**	64		**14.5**
Styrene		Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected		

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QA/QC Summary Report

p- & m-Xylenes	1.6	Not detected	Not detected	Not detected	**Not detected**	1.6	**0.0**
o-Xylene	1.6	Not detected	Not detected	Not detected	**Not detected**	1.4	**13.3**
Bromomethane	Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected	
Hexachloro-1,3-Buta	Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected	
Carbon Tetrachloride	Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected	
Ethylbenzene	1.2	Not detected	Not detected	Not detected	**Not detected**	1.2	**0.0**
Dichlorodifluorometh	Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected	
cis-1,3-Dichloroprop	Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected	
cis-1,2-Dichloroethyl	26	Not detected	Not detected	Not detected	**Not detected**	24	**8.0**
Chloromethane	Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected	
Chloroform	Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected	
Chloroethane	Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected	
Vinyl Chloride	2.8	Not detected	Not detected	Not detected	**Not detected**	2.6	**7.4**
Methylene Chloride	Not detected	Not detected	Not detected	Not detected	**Not detected**	Not detected	

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE
STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

04120097

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected by (Signature) / Name (Printed)
FPM Group	Ben Cancemi	FPM	Arkwin/652-04-05	Marc R. Spencer

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	System A Effluent	12/29/04 1035			X		VOCs by TO14	(1) Tedlar Bag
	System B Effluent	1045						
			—					

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time
			12/28/04 1700		
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	Date/Time
				12/29	9:20AM

Comments/Special Instructions

Turn-Around Time

X Standard ___ RUSH(define)_____