EA/TROY HILL/Phase II Report

Environmental Site Assessment

Troy Hill Business Partnership
Parcels A21 and A22

Howard County, Maryland

Prepared For:

Howard County Department of Public Works
Bureau of Environmental Services
Howard County, Maryland
Purchase Order No. J9803

KCI TECHNOLOGIES

Prepared By:

KCI Technologies, Inc.
10 North Park Drive
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KCI Project No. 0197004-GG

January 25, 2001

Limited Phase II Investigation
For
Troy Hill Business Partnership
Parcel A-21 and A-22

Prepared for:

Howard County Bureau of Environmental Services
Howard County, Maryland

Purchase Order No. K-2275

Prepared By:

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KCI Project No. 01-97004GG

KCI
TECHNOLOGIES

January 25, 2001

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1.0 PURPOSE AND SCOPE

The purpose of this Phase II investigation is to conduct limited subsurface soil and surface water sampling to assess if toxic or hazardous substances were released within the parcels A-21 and A-22. The project will be conducted under the current requirements contract between KCI and Howard County, Purchase Order #K-2275.

2.0 SITE BACKGROUND

The subject site is located to the east of Troy Hill Corporate Center (Figure-1). The site location in relation to the public roadways is as follows: the site lies approximately ½ mile north of Route 1, ½ mile east of Route 100, and ½ mile south of Route 95. In addition, the partially completed intersection of Mansion Lane and Troy Hill Drive is located approximately 400 ft east of the site. An unnamed dirt and gravel drive borders a small portion of the site's western perimeter. The site is currently undeveloped and consists of woodland and underlying dense vegetation. A Colonial gas pipeline traverses the eastern portion of the site along an approximate northwest to southeast route. An unnamed southeasterly-flowing stream also traverses the eastern portion of the site along a route that generally parallels the gas pipeline.

KCI met with a representative from the Howard County Bureau of Environmental Services (HCBES) during the reconnaissance portion of the Phase I site assessment (KCI, 2000). During the reconnaissance, KCI observed areas of dumped debris within the boundaries of the subject site. Several empty 55-gallon drums were scattered within these areas of dumped debris. One 55-gallon drum was labeled "Freon."

3.0 PHYSICAL CHARACTERISTICS

3.1 Surficial Description

KCI's review of the 1957 (photorevised 1966 and 1974) Savage Quadrangle - Maryland, U.S. Geological Survey topographic map, and the 1984 Topographic Map of Howard County Maryland (provided by the client), revealed that the site lies between approximately 150-200 feet above sea level. The subject site's general topographic trend appears to be towards the southeast. Steeper graded slopes appear in several sections of the subject site, usually in areas associated with an unnamed southeasterly-flowing stream located along the eastern perimeter of the subject site.

3.2 Regional Geology

All geologic information was gathered from the *Maryland Geological Survey: Water Resources, of Howard County, Maryland, Bulletin Number 38*, 1995. The subject site is located in the western

Phase I ESA
Troy Hill Business Partnership
Parcel A-21 & A-22.

Figure 1
Site Location Map

Date: January 2001 KCI Job No: 0197004GG

1" = 2,000'	North

section of the Coastal Plain Physiographic Region. The subject site lies predominately on sedimentary deposits that form the Lower Cretaceous-age Patuxent (Kpc) formation. The Patuxent Formation consists of medium to course quartz-cobble gravel, white to tan locally ferruginous cross-bedded sand, and white, gray, tan, and red clay. The Kpc facies is a predominantly clay/silt facies.

Along the unnamed stream channel, the site is underlain by alluvium and colluvium sedimentary rocks (Qal) of Quaternary age. This material is described as containing interbedded gravel, sand, silt, and clay in tidal marshlands and in flood plains of perennial streams. Furthermore, this material grades into colluvium at bases of slopes and in upland gathering areas.

All soil information was gathered from the U.S Department of Agriculture (USDA), Soil Conservation Service (SCS), *Soil Survey; Howard County, Maryland (1968).* The two general soil types indicated at the subject site were the Neshaminy-Montalto association and the Beltsville-Chillum-Sassafras association. The predominate Neshaminy-Montalto soils are described as deep, well-drained, moderately to slowly permeable, gently sloping to steep soils. The less prevalent Beltsville-Chillum-Sassafras soils are described as deep, moderately well drained and well drained, gently sloping to strongly sloping soils of the Coastal Plain (USDA, 1968).

3.3 Regional Hydrogeology

The groundwater flow divides generally coincide with the surface water drainage divides in Howard County. Groundwater flows from areas of high hydraulic head (height of water level) to areas of low hydraulic head and often discharge to streams through seeps, springs, and through the stream bed. Water flowing in deep (300 - 400 feet) fractures in the crystalline-rock aquifers could be part of a regional system in which groundwater flows very slowly to the east-southeast (Dine, et. al., 1995).

Two domestic hillside wells, identified as well numbers HO-Cf-50 and HO-Cf-51, were identified within the immediate area of the subject site. Well HO-Cf-51 is located approximately 1500 feet west of the subject site, whereas well HO-Cf-50 is located approximately 400 feet southwest of the subject site. The static groundwater elevation readings indicate that well HO-Cf-51 is at a higher hydraulic head then well HO-Cf-50, which lends credence to a groundwater flow to the east-southeast in the general area of the subject site.

4.0 RECORD REVIEW

KCI was tasked by the client to evaluate the adequacy of the *Phase I Environmental Site Assessment, Troy Hill Corporate Center, Howard County, Maryland, May 1999* (GTA, 1999), prepared by Geo-Technologies Associates, Inc. The GTA report was conducted on approximately 137 acres of land that includes portions of the Troy Hill Corporate Center. The subject site parcels A-21 and A-22 are included within the western portion of the 137 acres that were investigated in the GTA report.

In general the GTA report was found to be in accordance with the American Society for Testing and Materials (ASTM) Standard Practices for Environmental Site Assessments. However, the GTA report was found to be inconclusive in the following areas:

- The fate of structures located within the western portion of the subject site is not clear. The GTA report indicated the presence of structures within the western portion of the property from 1943 to at least 1980. The fate of these structures was not reported in the GTA report. In KCI's experience, structures are sometimes associated with, and can be an indication of the presence of, underground storage tanks (USTs) and/or other potential recognized environmental conditions. During the course of KCI's site reconnaissance the foundation of a structure was observed within the subject site's parcel A-21.

- The GTA report indicated only the presence of nuisance dumping of residential waste and automobile parts within the western portion of the subject site. During the course of KCI's site reconnaissance, empty 55-gallon steel drums were found at several locations within the western portion of the subject site.

5.0 METHODOLOGY

From the observations compiled during the Phase I reconnaissance, subsurface soil and surface water collection points were selected. The collection points were located in those areas of the subject site which were thought to best identify potential areas of recognized environmental hazards. The selection of sample collection points was coordinated between KCI and the HCBES representative. Shallow (0-2 feet) hand augured samples were collected to determine if the subsurface soils beneath the areas of debris, and areas containing empty 55-gallon drums, were exposed to hazardous chemicals. In addition, stream surface water samples were collected in order to determine if potential hazardous chemicals were infiltrating into the stream from the areas of dumped debris and the areas containing empty 55-gallon drums.

KCI collected three (3) shallow subsurface soil samples and four (4) surface water samples for laboratory analysis. Figure-2 identifies groundwater and surface water sample locations. Four (4) Quality Assurance/Quality Control (QA/QC) samples were also collected and submitted for laboratory analysis. The QA/QC samples consisted of duplicate samples, which were collected in order to verify the accuracy of the analysis. Trip blanks were also used in order to verify that contaminants were not was not introduced into the samples during transport.

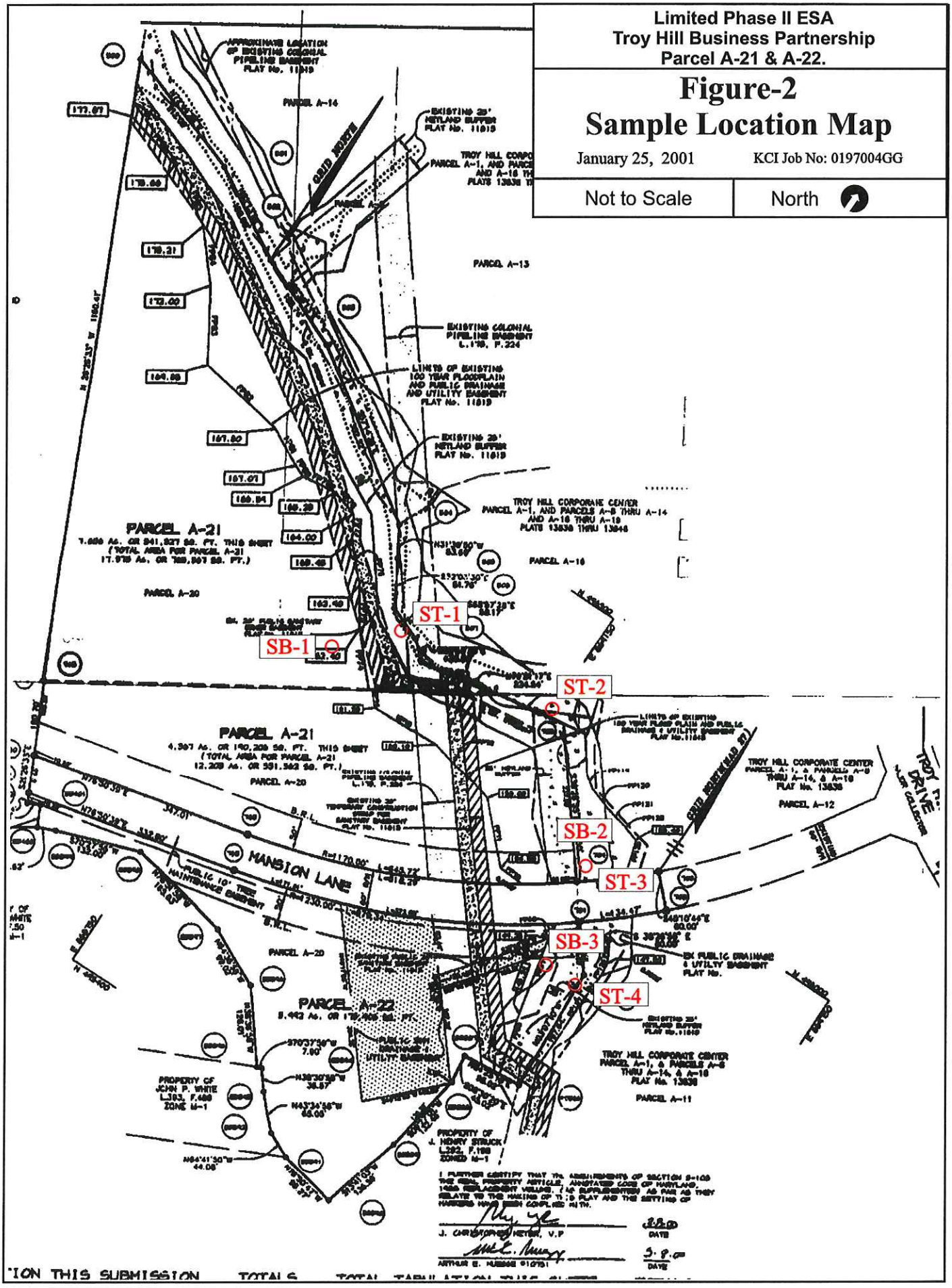
All sample containers, coolers, preservatives, labels, custody seals, and chain-of-custody forms were provided by Gascoyne Laboratory, Inc., which is a laboratory selected by and under separate contract to Howard County. The properly preserved containers, coolers, labels, seals, and forms were delivered by Gascoyne to the KCI offices in Hunt Valley, Maryland.

Limited Phase II ESA
Troy Hill Business Partnership
Parcel A-21 & A-22.

Figure-2
Sample Location Map

January 25, 2001 KCI Job No: 0197004GG

Not to Scale North



The three (3) shallow subsurface soil samples, designated SB-1 through SB-3, were collected from locations where KCI observed dumped drums, chemical containers, and other debris. KCI's purpose in collecting these samples was to investigate the possibility of soil contamination resulting from the debris.

The four surface water samples were collected from an unnamed, southeasterly-flowing stream which flows along the eastern perimeter of the subject site. One of the surface water samples, designated ST-2, was collected from the vicinity of an effluent pipe outfall, where an oily sheen was noted on the surface of the stream. Two additional surface water samples, designated ST-3 and ST-4, were collected adjacent to and just downstream (respectively) from a pile of debris observed near the bank of the stream. A fourth surface water sample, designated ST-1, was collected upstream from ST-2, ST-3, and ST-4. Sample ST-1 was collected in order to provide background chemical data for the remaining three surface water samples, which were collected in order to determine the presence or absence of contaminants originating from the outfall pipe and/or the stream bank debris pile.

5.1 Subsurface Soil Sampling

A stainless steel 3-inch bit hand auger sampler was advanced into designated subsurface soil sample locations (Figure-2). The hand auger sampler was utilized to obtain a representative soil core sample for characterization of soil borings SB-1, SB-2, and SB-3. The hand auger sampler was advanced to a depth of 2 feet into the subsurface at each location. Each location's core sample was then composited and split. One portion of the composite sample was placed into the laboratory supplied container and submitted to Gascoyne for analysis. Subsurface samples were analyzed for parameters presented in Section 6.1. The remaining portion of the composite sample was utilized for the Photovac 2020 PID meter analysis of headspace for Volatile Organic Compounds (VOCs).

5.2 Surface Water Sampling

Surface water samples were collected by lowering a sampling container into the designated surface water sample locations (Figure-2) and dip extracting the surface water samples. Surface water samples were collected, labeled, preserved, and stored in the appropriate laboratory jars, and sent to the laboratory for analysis. Surface water samples were analyzed for parameters presented in Section 6.2.

5.3 Sample Designation

A coding system was used to identify each sample, to provide a tracking record, and to ensure that each sample has a unique identifier. Each unique code indicates the sample type and sample point. "SB" indicates a shallow subsurface soil sample and ST indicates a surface water sample.

A number following the sample type designates the sample point location. An example identification code is SB-1, where:

- "SB" indicates the sample is a shallow subsurface soil sample and
- "1" indicates the sample point location.

In addition, Quality Control samples were collected. "RB" indicates an equipment rinsate blank sample and "TB" indicates a trip blank. The blind duplicate samples were assigned the following:

- SB-4 - blind duplicate subsurface soil sample for SB-3
- ST-5 - blind duplicate surface water sample for ST-4

5.4 Decontamination

Decontamination procedures for the augers, shovels, and the bowls between sample locations were as follows:

1) Alconox soap and bottled spring water wash and brush scrub.
2) Rinse with bottled spring water.
3) Rinse with distilled water.
4) Air dry equipment.

5.5 Investigation Derived Waste Handling Procedures

Investigations derived waste (IDW), i.e., soil cuttings, were placed back within the subsurface soil hand auger hole.

5.6 QA/QC Samples

Quality Assurance/Quality Control (QA/QC) samples collected during the sampling program included two (2) blind duplicate samples, one rinsate sample, and one trip blank. The blind duplicate samples provide for the evaluation of the laboratory's performance by comparing analytical results of two samples from the same location. The blind duplicates were submitted to the laboratory and analyzed for the same parameters as the other subsurface and surface water samples. The rinsate sample was collected to ensure that decontamination procedures were appropriate and that cross-contamination of the samples did not occur. The rinsate sample was analyzed for the same parameters as the samples. A trip blank was collected to ensure that the samples and sample containers were not exposed to contaminants en route to and from the laboratory. The trip blank was analyzed for VOCs via EPA method 8260.

5.7 Screening Criteria

The subsurface soil and surface water data collected during the site investigation were evaluated to assess the type and location of Recognized Environmental Conditions (REC's) present or absent onsite.

5.7.1 Subsurface Soil Samples

Subsurface Soil quality was evaluated by comparing soil sample data to Maryland Department of the Environment (MDE) Numeric Cleanup Standards for Soil. The standards are intended to represent concentration levels at which no further remedial action would be required at a property, based on the harm posed by these substances to human health within the constraints of current knowledge. Although not currently promulgated, these standards have been proposed by the MDE as a guide to cleanup activities. Based on the eventual experience and success of the guidance, the MDE may propose the standards for promulgation at some point in the future. Currently, there are no promulgated soil cleanup standards in Maryland.

The subsurface soil sample results were also compared with USEPA Region III RBCs for chemicals in soil (USEPA, 1999). The RBC values were used for comparison purposes only, as RBC values are not promulgated and are not intended to serve as guidelines for remedial action. Instead, RBC values are used as a preliminary indication of potential human health risks.

5.7.2 Surface Water Samples

Surface water quality was evaluated by comparing surface water sample data to Maryland Department of the Environment (MDE) Toxic Substances Criteria for Ambient Surface Waters as described in COMAR 26.08.02.03-2. In addition, the surface water data was compared to USEPA Region III Risk Based Concentrations (RBCs) for chemicals in tap water (USEPA, 1999). The tap water screening levels were used for comparison purposes only, as RBC values are not promulgated and are not intended to serve as guidelines for remedial action.

6.0 RESULTS

Subsurface soil and surface water samples were analyzed by Gascoyne Laboratories, Inc. under a separate contract with Howard County. Gascoyne provided the transportation for the samples to the lab.

6.1 Subsurface Soil Sampling

Three (3) shallow subsurface soil samples and a blind duplicate sample were collected at the subject site from hand auger locations SB-1, SB-2, and SB-3. The subsurface samples were analyzed using

SW-846 methods, in a non-CLP format, for the following parameters:

- Volatile organic compounds (VOCs) via EPA method 8260
- PCB/pesticides via EPA method 8080
- Total Priority Pollutant metals via method 6010/7000 series

Table 1 summarizes the reported analytical results from subsurface samples. A complete copy of the laboratory results is presented in Appendix A.

Levels of chromium in excess of the proposed MDE residential cleanup standard were detected in sample SB-1, SB-3, and SB-3's blind duplicate sample SB-4. In addtion, trace levels of the metals lead (Pb), copper (Cu), nickel (Ni), mercury (Hg), and zinc (Zn) were identified in the sample SB-1, and trace levels of the metals beryllium (Be), lead (Pb), chromium (Cr), copper (Cu), nickel (Ni), mercury (hg), and zinc (Zn) were identified in sample SB-3 and its blind duplicate sample SB-4. Levels of the aforementioned metals were below the screening criteria of EPA's RBC values for residential and industrial settings.

Trace levels of the metals lead (Pb), copper (Cu), nickel (Ni), and zinc (Zn) were identified in sample SB-2. Levels of the aforementioned metals were below the screening criteria of EPA's RBC values for residential and industrial settings.

All subsurface soil samples were non-detect for Volatile Organic Compounds (VOCs) via EPA method 8260, and PCB/pesticides via EPA method 8080.

6.2 Surface Water Sampling

Surface water samples were analyzed using SW-846 methods, in a non-CLP format, for the following parameters:

- Volatile organic compounds (VOCs) via EPA method 8260
- Total Priority Pollutant metals via method 6010/7000 series

Table 2 summarizes the reported analytical results of surface water samples. A complete copy of the laboratory results is presented in Appendix A.

Surface water samples ST-1, ST-2, and ST-3 were non-detect for Volatile Organic Compounds (VOCs) via EPA method 8260, and for Total Priority Pollutant metals via method 6010/7000 series.

Surface water sample ST-5, a blind duplicate sample for ST-4, was identified as having levels of the metals copper (Cu) and zinc (Zn) which exceeded the EPA's Fresh Water Quality Criteria (WQC) for Ambient Surface Waters. However, analysis of sample ST-4 indicated non-detect for copper and levels of zinc which were below the EPA's WQC. Further, levels of the aforementioned metals were

Table 1
Subsurface Soil Sample Analysis Results

	MDE Draft Cleanup Std	RBC Values - Residential[2]	RBC Values - Industrial[2]				
Sample Number				**SB-1**	**SB-2**	**SB-3**	**SB-4**
							SB-3 Duplicate
Sample Collection Date				**11/30/2000**	**11/30/2000**	**11/30/2000**	**11/30/2000**
Sample Collection Time				**1:20 pm**	**3:25 pm**	**2:15 pm**	**2:15 pm**
EPA Method 8260 VOCs							
Units		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
All compound		--	--	ND	ND	ND	ND
EPA Method 8080Pest/PCBs							
Units		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
All compound		--	--	ND	ND	ND	ND
EPA Method 6000/7000							
Units	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Beryllium	16 / 41*	160	4100	ND	ND	0.63	0.72
Chromium	23 / 62	6100	230	36	ND	26	25
Copper	310 / 830	3100	82000	43	19	19	20
Lead[1]	400 / 400	400	400	150	14	5	55
Nickel	160 / 410	1600	41000	48	18	17	18
Mercury[3]	0.10 / 0.12	0.78	20	0.09	ND	0.07	0.09
Zinc	2300 / 6200	23000	610000	100	59	240	220

ND = None detected
(*)= First value is the standard for a residential property; the second is for a commercial property.
(1)= MDE Guidence Values for lead "Residential/Industrial" = 200/500 mg/kg
(2)= EPA Region III Risk-Based Concentrations for residential and industrial soil: 10/7/1999
(3)= MDE screening criteria "Residential/Industrial" = 0.78/20 mg/kg

= Exceeds MDE standard

below the screening criteria of EPA's RBC values for tap water and EPA MCL values. In addition, both sample ST-4 and its blind duplicate sample ST-5 were non-detect for Volatile Organic Compounds (VOCs) via EPA method 8260.

6.3 QA/QC Results

The trip blank was non-detect for Volatile Organic Compounds (VOCs) via EPA method 8260. However, the rinsate blank was identified as containing chloroform at a level of 0.0087mg/L, which is slightly above the laboratory's reporting limit of 0.005 mg/L. This chloroform level exceeds the RBC value for tap water of 0.0015 mg/L. It should be noted that chloroform is a common laboratory solvent, and was likely introduced during sample preparation. The Rinsate blank was non-detect for Priority Pollutant metals via method 6010/7000 series.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The subsurface soil samples were collected from three locations thought to have the highest potential of contamination by hazardous chemicals (Figure-2). All subsurface soil samples were non-detect for Volatile Organic Compounds (VOCs) via EPA method 8260, and PCB/pesticides via EPA method 8080. However, two (2) of the subsurface soil samples were found to have levels of Chromium which exceed the proposed MDE Cleanup Standards for a residential property.

Based on *Cleanup Criteria for Contaminated Soil and Groundwater* (ASTM, 1996), the natural background level for chromium in soils of the United States is approximately 54 mg/kg. As shown in Table 1, the residential cleanup standard proposed by the MDE is 23 mg/kg, and the levels of chromium found in the two soil samples from the site are 36 mg/kg and 28 mg/kg, respectively.

Although higher than the MDE's proposed residential cleanup standard for chromium, these analytical results are still below the reported average background soil concentrations for the United States. Further, it should be noted that the subject site is not technically classified as a residential property (i.e., the site has not been zoned for residential use by a county or local government jurisdiction), and that the proposed MDE non-residential cleanup standard for chromium in soils is 62 mg/kg. In addition, the MDE's soil cleanup criteria are not yet promulgated. Based on these factors, no action is currently required with regard to the findings from the analysis of the subsurface soil samples.

Surface water analytical results (Table 2) indicated that surface water sample ST-5 (a blind duplicate for sample ST-4) exceeded the MDE Fresh Water Quality Criteria (acute) for copper and zinc for ambient surface waters (COMAR 26.08.02.03-2). Based on this result, KCI recommends that a background study and site-specific risk assessment be conducted in order to determine whether further action is needed. Surface water analytical results for all sample locations were below RBC

Table 2
Surface Water Analysis Results

	WQC[1] (Acute/ Chronic)	RBC Values[2]							
Sample Number			**ST-1**	**ST-2**	**ST-3**	**ST-4**	**ST-5 ST-4 duplicate**	**TRIP BLANK**	**RINSATE**
Sample Collection Date			**11/30/2000**	**11/30/2000**	**11/30/2000**	**11/30/2000**	**11/30/2000**	**11/22/2000**	**11/30/2000**
Sample Collection Time			**1:45 pm**	**1:50 pm**	**1:10 pm**	**1:25 pm**	**1:25 pm**	**1:20 pm**	**1:00 pm**
EPA Method 8260									
Units	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**
Chloroform	N/A	0.0015	ND	ND	ND	ND	ND	ND	0.0087
EPA Method 6010B									
Units	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**
Copper	0.013 / 0.009	1.5	ND	ND	ND	ND	0.3	ND	ND
Zinc	0.12 / 0.12	11	ND	ND	ND	0.11	0.16	ND	ND

(1) WQC = EPA Fresh Water Quality Criteria for Ambient Surface Waters 12/2000

(2) RBC = EPA Region III Risk-Based Concentrations for fish 4/12/1999

ND = Non-detect

N/A = Not applicable

values for metals. Further, all surface water samples were non-detect for VOCs via EPA method 8260.

KCI evaluated the adequacy of the *Phase I Environmental Site Assessment, Troy Hill Corporate Center, Howard County, Maryland, May 1999*, prepared by Geo-Technologies Associates, Inc.(GTA report). In general, the report was in accordance with standard ASTM practices; however, the following was noted:

- The fate of structures located within the western portion of the subject site is not clear. The GTA report indicated the presence of structures within the western portion of the property from 1943 to at least 1980. The fate of these structures was not reported in the GTA report. In KCI's experience, structures are sometimes associated with, and can be an indication of the presence of, underground storage tanks (USTs) and/or other potential recognized environmental conditions. During the course of KCI's site reconnaissance the foundation of a structure was observed within the subject site's parcel A-21.

- The GTA report indicated only the presence of nuisance dumping of residential waste and automobile parts within the western portion of the subject site. During the course of KCI's site reconnaissance, empty 55-gallon steel drums were found at several locations within the western portion of the subject site.

Based on the results of the Troy Hill Business Partnership Parcel A-21 and A-22, Limited Phase II Investigation, KCI recommends the following:

- KCI has no recommendations regarding further investigation of dumped debris areas and/or stream areas which had representative samples collected and analyzed for this report (Figure-2).

- Clarify the type, number, location, and fate of structures historically located on parcels A-21 and A-22. Once the aforementioned facts are obtained, further investigative activity, such as the need for a geophysical survey, can be determined.

- A background study and site-specific risk assessment be conducted in order to address levels of copper and zinc which exceeded the MDE's Fresh Water Quality Criteria.

8.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Thomas G. Sprehe, P.E.
Vice President

Pradip M. Patel, P.G.
Chief, Hazardous Waste

Doug Talaber
Environmental Scientist

9.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

This Phase II Environmental Assessment was completed by several of KCI's environmental professionals. ASTM Standard E 1527 defines an environmental professional as follows:

> *Environmental professional* - a person possessing sufficient training and experience necessary to conduct a site reconnaissance, interviews, and other activities in accordance with this practice, and from the information generated by such activities, having the ability to develop conclusions regarding recognized environmental conditions in connection with the property in question. An individual's status as an environmental professional may be limited to the type of assessment to be performed or to specific segments of the assessment for which the professional is responsible. The person may be an independent contractor or an employee of the user.

Mr. Thomas Sprehe, P.E. who serves as the Chief of the Environmental Engineering Division, was responsible for overall management of the project and this report. He has served as Project Manager, specializing in environmental investigations and remedial actions for surface and subsurface contamination, with more than 17 years of professional experience in conducting and managing multidisciplinary scientific and engineering projects involving engineering geology, hydrology, geochemistry, geophysics, and site remediation. Mr. Sprehe has experience presenting findings to regulatory agencies and the public, coordinating with regulatory officials, and conducting negotiations.

Mr. Pradip M. Patel, P.G., who serves as the Chief of the Hazardous Waste Division, was responsible for project management and QA/QC of this report. Mr. Patel has extensive experience while dealing effectively with various environmental, geological, and solid and hazardous waste

programs. Mr. Patel is skilled in hazardous waste site investigations, site assessments, site characterizations and risk assessments, hydrogeological studies, soil gas surveys/monitoring, landfill designs, groundwater monitoring, and UST management. Mr. Patel has developed and implemented health and safety plans. Mr. Patel has direct project experience in the identification of remediation strategies that meet site and project objectives, maximizing the use of project budgets, and employ innovative technologies and administrative strategies.

Mr. Doug Talaber, who serves as an Environmental Scientist in KCI's Hazardous Waste Division, was responsible for report writing and QA/QC of the project and this report. He has extensive experience in site background research and reconnaissance; groundwater, soil, and sediment sampling protocol; on-site health and safety issues; equipment decontamination procedures; and data organization and analysis. Mr. Talaber has performed over twenty-five Phase I Environmental Site Assessments.

APPENDIX A
Analytical Results

Gascoyne Laboratories, Inc.

Baltimore, MD 21224

(410) 633-1800

FAX NO.
(410) 633-5443

www.gascoyne.com

REPORT OF ANALYSIS

KCI Technologies
10 North Park Dr.

Hunt Valley, MD 21030
Attn: Douglas Talaber

Revised

Report No. : 0012046

This report of analysis contains test results for samples received at Gascoyne Laboratories, Inc on 12/1/00 .

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Chain of Custody [Attachment]

Report revised to ammend Cr and Cu result on sample ST-5.

This Report of Analysis Contains 29 Pages plus Attachment(s)

Final report reviewed by: James H. Newman, Laboratory Manager 12/18/00 Report issue date

Gascoyne Laboratories, Inc. laboratory accreditations: Maryland 109, Delaware MD015, Virginia 00152, New Jersey 60637, Pennsylvania 68-339, New York 11158, A2LA 410.01, AIHA 100491 and US Army Corps of Engineers.

Gascoyne Laboratories, Inc.

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REPORT OF ANALYSIS

Sample Summary

Client: KCI Technologies
Project: Troy Hill
Report No: 0012046
Date Received: 12/1/00

Client Sample ID	Lab Sample ID	Collection Date	Collection Time
SB-1; Grab	0012046-001	11/30/00	13:20
SB-2; Grab	0012046-002	11/30/00	15:25
SB-3; Grab	0012046-003	11/30/00	14:15
SB-4; Grab	0012046-004	11/30/00	14:15
ST-1; Grab	0012046-005	11/30/00	13:45
ST-2; Grab	0012046-006	11/30/00	13:50
ST-3; Grab	0012046-007	11/30/00	15:10
ST-4; Grab	0012046-008	11/30/00	14:25
ST-5; Grab	0012046-009	11/30/00	14:25
Trip Blank; Grab	0012046-010	11/22/00	13:20
Rinsate; Grab	0012046-011	11/30/00	13:00

Gascoyne Laboratories, Inc.

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: SOIL/SOLID/SLUDGE

Client Sample ID: SB-1; Grab

Lab ID: 0012046-001

Collection Date: 11/30/00 13:20

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
MERCURY, TOTAL (EPA 7471A)				Analyst: JLS
Mercury	**0.090**	0.030	mg/Kg-dry	12/5/00 21:09
PERCENT MOISTURE (DRIED AT 105C)				Analyst: NSB
PMOIST	**21**	0.060	wt%	12/5/00 13:00
PRIORITY POLLUTANT METALS, TOTAL (EPA 6010B)				Analyst: JSM
Antimony	**< 25**	25	mg/Kg-dry	12/8/00 15:41
Arsenic	**< 25**	25	mg/Kg-dry	12/8/00 15:41
Beryllium	**1.4**	0.25	mg/Kg-dry	12/8/00 15:41
Cadmium	**< 5.0**	5.0	mg/Kg-dry	12/8/00 16:31
Chromium	**36**	10	mg/Kg-dry	12/8/00 16:31
Copper	**43**	5.0	mg/Kg-dry	12/8/00 16:31
Lead	**150**	5.0	mg/Kg-dry	12/8/00 15:41
Nickel	**48**	10	mg/Kg-dry	12/8/00 16:31
Selenium	**< 25**	25	mg/Kg-dry	12/8/00 15:41
Silver	**< 1.0**	1.0	mg/Kg-dry	12/8/00 15:41
Thallium	**< 25**	25	mg/Kg-dry	12/8/00 15:41
Zinc	**100**	10	mg/Kg-dry	12/8/00 16:31
TCL PESTICIDES AND PCBS (EPA 3550B/8081A/8082)				Analyst: MST
alpha-BHC	**< 63**	63	µg/Kg-dry	12/6/00 1:32
beta-BHC	**< 63**	63	µg/Kg-dry	12/6/00 1:32
gamma-BHC	**< 63**	63	µg/Kg-dry	12/6/00 1:32
delta-BHC	**< 63**	63	µg/Kg-dry	12/6/00 1:32
Heptachlor	**< 63**	63	µg/Kg-dry	12/6/00 1:32
Aldrin	**< 63**	63	µg/Kg-dry	12/6/00 1:32
Heptachlor epoxide	**< 63**	63	µg/Kg-dry	12/6/00 1:32
gamma-Chlordane	**< 130**	130	µg/Kg-dry	12/6/00 1:32
Endosulfan I	**< 130**	130	µg/Kg-dry	12/6/00 1:32
alpha-Chlordane	**< 130**	130	µg/Kg-dry	12/6/00 1:32

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Client Sample ID: SB-1; Grab

Report No: 0012046

Project: Troy Hill

Lab ID: 0012046-001

Collection Date: 11/30/00 13:20

Matrix: SOIL/SOLID/SLUDGE

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Dieldrin	< 130	130	µg/Kg-dry	12/6/00	1:32
4,4´-DDE	< 130	130	µg/Kg-dry	12/6/00	1:32
Endrin	< 130	130	µg/Kg-dry	12/6/00	1:32
Endosulfan II	< 380	380	µg/Kg-dry	12/6/00	1:32
4,4´-DDD	< 380	380	µg/Kg-dry	12/6/00	1:32
Endrin aldehyde	< 380	380	µg/Kg-dry	12/6/00	1:32
Endosulfan sulfate	< 380	380	µg/Kg-dry	12/6/00	1:32
4,4´-DDT	< 380	380	µg/Kg-dry	12/6/00	1:32
Endrin Ketone	< 380	380	µg/Kg-dry	12/6/00	1:32
Methoxychlor	< 630	630	µg/Kg-dry	12/6/00	1:32
Toxaphene	< 3,800	3,800	µg/Kg-dry	12/6/00	2:04
Aroclor 1016	< 1,300	1,300	µg/Kg-dry	12/6/00	2:04
Aroclor 1221	< 1,300	1,300	µg/Kg-dry	12/6/00	2:04
Aroclor 1232	< 1,300	1,300	µg/Kg-dry	12/6/00	2:04
Aroclor 1242	< 1,300	1,300	µg/Kg-dry	12/6/00	2:04
Aroclor 1248	< 1,300	1,300	µg/Kg-dry	12/6/00	2:04
Aroclor 1254	< 1,300	1,300	µg/Kg-dry	12/6/00	2:04
Aroclor 1260	< 1,300	1,300	µg/Kg-dry	12/6/00	2:04
VOLATILE ORGANIC COMPOUNDS, TCL LIST (EPA 8260B)				Analyst: THP	
Chloromethane	< 13	13	µg/Kg-dry	12/4/00	22:21
Vinyl chloride	< 13	13	µg/Kg-dry	12/4/00	22:21
Bromomethane	< 13	13	µg/Kg-dry	12/4/00	22:21
Chloroethane	< 13	13	µg/Kg-dry	12/4/00	22:21
Acetone	< 130	130	µg/Kg-dry	12/4/00	22:21
1,1-Dichloroethene	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
Carbon disulfide	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
Methylene chloride	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
trans-1,2-Dichloroethene	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
1,1-Dichloroethane	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
2-Butanone	< 130	130	µg/Kg-dry	12/4/00	22:21
cis-1,2-Dichloroethene	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
Chloroform	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
1,1,1-Trichloroethane	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: SOIL/SOLID/SLUDGE

Client Sample ID: SB-1; Grab

Lab ID: 0012046-001

Collection Date: 11/30/00 13:20

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Carbon tetrachloride	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
Benzene	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
1,2-Dichloroethane	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
Trichloroethene	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
1,2-Dichloropropane	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
Bromodichloromethane	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
4-Methyl-2-pentanone	< 130	130	µg/Kg-dry	12/4/00	22:21
cis-1,3-Dichloropropene	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
Toluene	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
trans-1,3-Dichloropropene	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
1,1,2-Trichloroethane	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
2-Hexanone	< 130	130	µg/Kg-dry	12/4/00	22:21
Tetrachloroethene	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
Dibromochloromethane	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
Chlorobenzene	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
Ethylbenzene	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
m,p-Xylene	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
o-Xylene	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
Styrene	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
Bromoform	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
1,1,2,2-Tetrachloroethane	< 6.6	6.6	µg/Kg-dry	12/4/00	22:21
Xylenes, Total	< 13	13	µg/Kg-dry	12/4/00	22:21

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Client Sample ID: SB-2; Grab

Report No: 0012046

Project: Troy Hill

Lab ID: 0012046-002

Collection Date: 11/30/00 15:25

Matrix: SOIL/SOLID/SLUDGE

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
MERCURY, TOTAL (EPA 7471A)				Analyst: JLS
Mercury	**< 0.040**	0.040	mg/Kg-dry	12/5/00 21:12
PERCENT MOISTURE (DRIED AT 105C)				Analyst: NSB
PMOIST	**18**	0.060	wt%	12/5/00 13:00
PRIORITY POLLUTANT METALS, TOTAL (EPA 6010B)				Analyst: JSM
Antimony	**< 25**	25	mg/Kg-dry	12/8/00 16:09
Arsenic	**< 25**	25	mg/Kg-dry	12/8/00 16:09
Beryllium	**0.78**	0.25	mg/Kg-dry	12/8/00 16:09
Cadmium	**< 5.0**	5.0	mg/Kg-dry	12/8/00 16:35
Chromium	**< 10**	10	mg/Kg-dry	12/8/00 16:35
Copper	**19**	5.0	mg/Kg-dry	12/8/00 16:35
Lead	**14**	5.0	mg/Kg-dry	12/8/00 16:09
Nickel	**18**	1.0	mg/Kg-dry	12/8/00 16:09
Selenium	**< 25**	25	mg/Kg-dry	12/8/00 16:09
Silver	**< 1.0**	1.0	mg/Kg-dry	12/8/00 16:09
Thallium	**< 25**	25	mg/Kg-dry	12/8/00 16:09
Zinc	**59**	10	mg/Kg-dry	12/8/00 16:35
TCL PESTICIDES AND PCBS (EPA 3550B/8081A/8082)				Analyst: MST
alpha-BHC	**< 61**	61	µg/Kg-dry	12/6/00 5:20
beta-BHC	**< 61**	61	µg/Kg-dry	12/6/00 5:20
gamma-BHC	**< 61**	61	µg/Kg-dry	12/6/00 5:20
delta-BHC	**< 61**	61	µg/Kg-dry	12/6/00 5:20
Heptachlor	**< 61**	61	µg/Kg-dry	12/6/00 5:20
Aldrin	**< 61**	61	µg/Kg-dry	12/6/00 5:20
Heptachlor epoxide	**< 61**	61	µg/Kg-dry	12/6/00 5:20
gamma-Chlordane	**< 120**	120	µg/Kg-dry	12/6/00 5:20
Endosulfan I	**< 120**	120	µg/Kg-dry	12/6/00 5:20
alpha-Chlordane	**< 120**	120	µg/Kg-dry	12/6/00 5:20

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Client Sample ID: SB-2; Grab

Report No: 0012046

Project: Troy Hill

Lab ID: 0012046-002

Collection Date: 11/30/00 15:25

Matrix: SOIL/SOLID/SLUDGE

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Dieldrin	< 120	120	µg/Kg-dry	12/6/00	5:20
4,4´-DDE	< 120	120	µg/Kg-dry	12/6/00	5:20
Endrin	< 120	120	µg/Kg-dry	12/6/00	5:20
Endosulfan II	< 370	370	µg/Kg-dry	12/6/00	5:20
4,4´-DDD	< 370	370	µg/Kg-dry	12/6/00	5:20
Endrin aldehyde	< 370	370	µg/Kg-dry	12/6/00	5:20
Endosulfan sulfate	< 370	370	µg/Kg-dry	12/6/00	5:20
4,4´-DDT	< 370	370	µg/Kg-dry	12/6/00	5:20
Endrin Ketone	< 370	370	µg/Kg-dry	12/6/00	5:20
Methoxychlor	< 610	610	µg/Kg-dry	12/6/00	5:20
Toxaphene	< 3,700	3,700	µg/Kg-dry	12/6/00	5:52
Aroclor 1016	< 1,200	1,200	µg/Kg-dry	12/6/00	5:52
Aroclor 1221	< 1,200	1,200	µg/Kg-dry	12/6/00	5:52
Aroclor 1232	< 1,200	1,200	µg/Kg-dry	12/6/00	5:52
Aroclor 1242	< 1,200	1,200	µg/Kg-dry	12/6/00	5:52
Aroclor 1248	< 1,200	1,200	µg/Kg-dry	12/6/00	5:52
Aroclor 1254	< 1,200	1,200	µg/Kg-dry	12/6/00	5:52
Aroclor 1260	< 1,200	1,200	µg/Kg-dry	12/6/00	5:52
VOLATILE ORGANIC COMPOUNDS, TCL LIST (EPA 8260B)				Analyst: THP	
Chloromethane	< 13	13	µg/Kg-dry	12/4/00	22:53
Vinyl chloride	< 13	13	µg/Kg-dry	12/4/00	22:53
Bromomethane	< 13	13	µg/Kg-dry	12/4/00	22:53
Chloroethane	< 13	13	µg/Kg-dry	12/4/00	22:53
Acetone	< 130	130	µg/Kg-dry	12/4/00	22:53
1,1-Dichloroethene	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
Carbon disulfide	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
Methylene chloride	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
trans-1,2-Dichloroethene	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
1,1-Dichloroethane	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
2-Butanone	< 130	130	µg/Kg-dry	12/4/00	22:53
cis-1,2-Dichloroethene	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
Chloroform	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
1,1,1-Trichloroethane	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Client Sample ID: SB-2; Grab

Report No: 0012046

Project: Troy Hill

Lab ID: 0012046-002

Collection Date: 11/30/00 15:25

Matrix: SOIL/SOLID/SLUDGE

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Carbon tetrachloride	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
Benzene	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
1,2-Dichloroethane	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
Trichloroethene	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
1,2-Dichloropropane	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
Bromodichloromethane	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
4-Methyl-2-pentanone	< 130	130	µg/Kg-dry	12/4/00	22:53
cis-1,3-Dichloropropene	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
Toluene	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
trans-1,3-Dichloropropene	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
1,1,2-Trichloroethane	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
2-Hexanone	< 130	130	µg/Kg-dry	12/4/00	22:53
Tetrachloroethene	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
Dibromochloromethane	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
Chlorobenzene	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
Ethylbenzene	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
m,p-Xylene	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
o-Xylene	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
Styrene	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
Bromoform	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
1,1,2,2-Tetrachloroethane	< 6.5	6.5	µg/Kg-dry	12/4/00	22:53
Xylenes, Total	< 13	13	µg/Kg-dry	12/4/00	22:53

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: SOIL/SOLID/SLUDGE

Client Sample ID: SB-3; Grab

Lab ID: 0012046-003

Collection Date: 11/30/00 14:15

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
MERCURY, TOTAL (EPA 7471A)				Analyst: JLS
Mercury	**0.070**	0.030	mg/Kg-dry	12/5/00 21:14
PERCENT MOISTURE (DRIED AT 105C)				Analyst: NSB
PMOIST	**13**	0.060	wt%	12/5/00 13:00
PRIORITY POLLUTANT METALS, TOTAL (EPA 6010B)				Analyst: JSM
Antimony	**< 25**	25	mg/Kg-dry	12/8/00 16:24
Arsenic	**< 25**	25	mg/Kg-dry	12/8/00 16:24
Beryllium	**0.63**	0.25	mg/Kg-dry	12/8/00 16:24
Cadmium	**< 5.0**	5.0	mg/Kg-dry	12/8/00 16:46
Chromium	**26**	10	mg/Kg-dry	12/8/00 16:46
Copper	**19**	5.0	mg/Kg-dry	12/8/00 16:46
Lead	**< 50**	50	mg/Kg-dry	12/8/00 16:46
Nickel	**17**	1.0	mg/Kg-dry	12/8/00 16:24
Selenium	**< 25**	25	mg/Kg-dry	12/8/00 16:24
Silver	**< 1.0**	1.0	mg/Kg-dry	12/8/00 16:24
Thallium	**< 25**	25	mg/Kg-dry	12/8/00 16:24
Zinc	**240**	10	mg/Kg-dry	12/8/00 16:46
TCL PESTICIDES AND PCBS (EPA 3550B/8081A/8082)				Analyst: MST
alpha-BHC	**< 57**	57	µg/Kg-dry	12/6/00 6:25
beta-BHC	**< 57**	57	µg/Kg-dry	12/6/00 6:25
gamma-BHC	**< 57**	57	µg/Kg-dry	12/6/00 6:25
delta-BHC	**< 57**	57	µg/Kg-dry	12/6/00 6:25
Heptachlor	**< 57**	57	µg/Kg-dry	12/6/00 6:25
Aldrin	**< 57**	57	µg/Kg-dry	12/6/00 6:25
Heptachlor epoxide	**< 57**	57	µg/Kg-dry	12/6/00 6:25
gamma-Chlordane	**< 110**	110	µg/Kg-dry	12/6/00 6:25
Endosulfan I	**< 110**	110	µg/Kg-dry	12/6/00 6:25
alpha-Chlordane	**< 110**	110	µg/Kg-dry	12/6/00 6:25

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Client Sample ID: SB-3; Grab

Report No: 0012046

Project: Troy Hill

Lab ID: 0012046-003

Collection Date: 11/30/00 14:15

Matrix: SOIL/SOLID/SLUDGE

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Dieldrin	< 110	110	µg/Kg-dry	12/6/00	6:25
4,4´-DDE	< 110	110	µg/Kg-dry	12/6/00	6:25
Endrin	< 110	110	µg/Kg-dry	12/6/00	6:25
Endosulfan II	< 340	340	µg/Kg-dry	12/6/00	6:25
4,4´-DDD	< 340	340	µg/Kg-dry	12/6/00	6:25
Endrin aldehyde	< 340	340	µg/Kg-dry	12/6/00	6:25
Endosulfan sulfate	< 340	340	µg/Kg-dry	12/6/00	6:25
4,4´-DDT	< 340	340	µg/Kg-dry	12/6/00	6:25
Endrin Ketone	< 340	340	µg/Kg-dry	12/6/00	6:25
Methoxychlor	< 570	570	µg/Kg-dry	12/6/00	6:25
Toxaphene	< 3,400	3,400	µg/Kg-dry	12/6/00	6:58
Aroclor 1016	< 1,100	1,100	µg/Kg-dry	12/6/00	6:58
Aroclor 1221	< 1,100	1,100	µg/Kg-dry	12/6/00	6:58
Aroclor 1232	< 1,100	1,100	µg/Kg-dry	12/6/00	6:58
Aroclor 1242	< 1,100	1,100	µg/Kg-dry	12/6/00	6:58
Aroclor 1248	< 1,100	1,100	µg/Kg-dry	12/6/00	6:58
Aroclor 1254	< 1,100	1,100	µg/Kg-dry	12/6/00	6:58
Aroclor 1260	< 1,100	1,100	µg/Kg-dry	12/6/00	6:58
VOLATILE ORGANIC COMPOUNDS, TCL LIST (EPA 8260B)				Analyst: THP	
note: Sample received with headspace.					
Chloromethane	< 14	14	µg/Kg-dry	12/4/00	23:25
Vinyl chloride	< 14	14	µg/Kg-dry	12/4/00	23:25
Bromomethane	< 14	14	µg/Kg-dry	12/4/00	23:25
Chloroethane	< 14	14	µg/Kg-dry	12/4/00	23:25
Acetone	< 140	140	µg/Kg-dry	12/4/00	23:25
1,1-Dichloroethene	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
Carbon disulfide	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
Methylene chloride	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
trans-1,2-Dichloroethene	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
1,1-Dichloroethane	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
2-Butanone	< 140	140	µg/Kg-dry	12/4/00	23:25
cis-1,2-Dichloroethene	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
Chloroform	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
1,1,1-Trichloroethane	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Client Sample ID: SB-3; Grab

Report No: 0012046

Project: Troy Hill

Lab ID: 0012046-003

Collection Date: 11/30/00 14:15

Matrix: SOIL/SOLID/SLUDGE

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Carbon tetrachloride	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
Benzene	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
1,2-Dichloroethane	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
Trichloroethene	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
1,2-Dichloropropane	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
Bromodichloromethane	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
4-Methyl-2-pentanone	< 140	140	µg/Kg-dry	12/4/00	23:25
cis-1,3-Dichloropropene	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
Toluene	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
trans-1,3-Dichloropropene	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
1,1,2-Trichloroethane	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
2-Hexanone	< 140	140	µg/Kg-dry	12/4/00	23:25
Tetrachloroethene	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
Dibromochloromethane	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
Chlorobenzene	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
Ethylbenzene	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
m,p-Xylene	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
o-Xylene	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
Styrene	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
Bromoform	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
1,1,2,2-Tetrachloroethane	< 6.8	6.8	µg/Kg-dry	12/4/00	23:25
Xylenes, Total	< 14	14	µg/Kg-dry	12/4/00	23:25

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Client Sample ID: SB-4; Grab

Report No: 0012046

Project: Troy Hill

Lab ID: 0012046-004

Collection Date: 11/30/00 14:15

Matrix: SOIL/SOLID/SLUDGE

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
MERCURY, TOTAL (EPA 7471A)				Analyst: JLS
Mercury	**0.090**	0.030	mg/Kg-dry	12/5/00 21:17
PERCENT MOISTURE (DRIED AT 105C)				Analyst: NSB
PMOIST	**11**	0.070	wt%	12/5/00 13:00
PRIORITY POLLUTANT METALS, TOTAL (EPA 6010B)				Analyst: JSM
Antimony	**< 25**	25	mg/Kg-dry	12/8/00 16:28
Arsenic	**< 25**	25	mg/Kg-dry	12/8/00 16:28
Beryllium	**0.72**	0.25	mg/Kg-dry	12/8/00 16:28
Cadmium	**< 5.0**	5.0	mg/Kg-dry	12/8/00 16:50
Chromium	**25**	10	mg/Kg-dry	12/8/00 16:50
Copper	**20**	5.0	mg/Kg-dry	12/8/00 16:50
Lead	**55**	5.0	mg/Kg-dry	12/8/00 16:50
Nickel	**18**	1.0	mg/Kg-dry	12/8/00 16:50
Selenium	**< 25**	25	mg/Kg-dry	12/8/00 16:31
Silver	**< 1.0**	1.0	mg/Kg-dry	12/8/00 16:31
Thallium	**< 25**	25	mg/Kg-dry	12/8/00 16:31
Zinc	**220**	10	mg/Kg-dry	12/8/00 16:50
TCL PESTICIDES AND PCBS (EPA 3550B/8081A/8082)				Analyst: MST
alpha-BHC	**< 56**	56	µg/Kg-dry	12/6/00 7:30
beta-BHC	**< 56**	56	µg/Kg-dry	12/6/00 7:30
gamma-BHC	**< 56**	56	µg/Kg-dry	12/6/00 7:30
delta-BHC	**< 56**	56	µg/Kg-dry	12/6/00 7:30
Heptachlor	**< 56**	56	µg/Kg-dry	12/6/00 7:30
Aldrin	**< 56**	56	µg/Kg-dry	12/6/00 7:30
Heptachlor epoxide	**< 56**	56	µg/Kg-dry	12/6/00 7:30
gamma-Chlordane	**< 110**	110	µg/Kg-dry	12/6/00 7:30
Endosulfan I	**< 110**	110	µg/Kg-dry	12/6/00 7:30
alpha-Chlordane	**< 110**	110	µg/Kg-dry	12/6/00 7:30

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: SOIL/SOLID/SLUDGE

Client Sample ID: SB-4; Grab

Lab ID: 0012046-004

Collection Date: 11/30/00 14:15

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Dieldrin	< 110	110	µg/Kg-dry	12/6/00	7:30
4,4´-DDE	< 110	110	µg/Kg-dry	12/6/00	7:30
Endrin	< 110	110	µg/Kg-dry	12/6/00	7:30
Endosulfan II	< 340	340	µg/Kg-dry	12/6/00	7:30
4,4´-DDD	< 340	340	µg/Kg-dry	12/6/00	7:30
Endrin aldehyde	< 340	340	µg/Kg-dry	12/6/00	7:30
Endosulfan sulfate	< 340	340	µg/Kg-dry	12/6/00	7:30
4,4´-DDT	< 340	340	µg/Kg-dry	12/6/00	7:30
Endrin Ketone	< 340	340	µg/Kg-dry	12/6/00	7:30
Methoxychlor	< 560	560	µg/Kg-dry	12/6/00	7:30
Toxaphene	< 3,400	3,400	µg/Kg-dry	12/6/00	8:03
Aroclor 1016	< 1,100	1,100	µg/Kg-dry	12/6/00	8:03
Aroclor 1221	< 1,100	1,100	µg/Kg-dry	12/6/00	8:03
Aroclor 1232	< 1,100	1,100	µg/Kg-dry	12/6/00	8:03
Aroclor 1242	< 1,100	1,100	µg/Kg-dry	12/6/00	8:03
Aroclor 1248	< 1,100	1,100	µg/Kg-dry	12/6/00	8:03
Aroclor 1254	< 1,100	1,100	µg/Kg-dry	12/6/00	8:03
Aroclor 1260	< 1,100	1,100	µg/Kg-dry	12/6/00	8:03
VOLATILE ORGANIC COMPOUNDS, TCL LIST (EPA 8260B)				Analyst: THP	
note: Sample received with headspace.					
Chloromethane	< 12	12	µg/Kg-dry	12/4/00	23:56
Vinyl chloride	< 12	12	µg/Kg-dry	12/4/00	23:56
Bromomethane	< 12	12	µg/Kg-dry	12/4/00	23:56
Chloroethane	< 12	12	µg/Kg-dry	12/4/00	23:56
Acetone	< 120	120	µg/Kg-dry	12/4/00	23:56
1,1-Dichloroethene	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
Carbon disulfide	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
Methylene chloride	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
trans-1,2-Dichloroethene	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
1,1-Dichloroethane	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
2-Butanone	< 120	120	µg/Kg-dry	12/4/00	23:56
cis-1,2-Dichloroethene	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
Chloroform	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
1,1,1-Trichloroethane	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: SOIL/SOLID/SLUDGE

Client Sample ID: SB-4; Grab

Lab ID: 0012046-004

Collection Date: 11/30/00 14:15

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Carbon tetrachloride	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
Benzene	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
1,2-Dichloroethane	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
Trichloroethene	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
1,2-Dichloropropane	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
Bromodichloromethane	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
4-Methyl-2-pentanone	< 120	120	µg/Kg-dry	12/4/00	23:56
cis-1,3-Dichloropropene	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
Toluene	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
trans-1,3-Dichloropropene	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
1,1,2-Trichloroethane	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
2-Hexanone	< 120	120	µg/Kg-dry	12/4/00	23:56
Tetrachloroethene	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
Dibromochloromethane	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
Chlorobenzene	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
Ethylbenzene	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
m,p-Xylene	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
o-Xylene	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
Styrene	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
Bromoform	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
1,1,2,2-Tetrachloroethane	< 6.1	6.1	µg/Kg-dry	12/4/00	23:56
Xylenes, Total	< 12	12	µg/Kg-dry	12/4/00	23:56

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: SURFACE WATER

Client Sample ID: ST-1; Grab

Lab ID: 0012046-005

Collection Date: 11/30/00 13:45

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
MERCURY, TOTAL (EPA 7470A)				Analyst: JLS
Mercury	< 0.00020	0.00020	mg/L	12/7/00 20:11
METALS, TOTAL (EPA 6010B)				Analyst: JSM
Antimony	< 0.50	0.50	mg/L	12/8/00 18:19
Arsenic	< 0.50	0.50	mg/L	12/8/00 17:17
Beryllium	< 0.0050	0.0050	mg/L	12/8/00 17:17
Cadmium	< 0.010	0.010	mg/L	12/8/00 17:17
Chromium	< 0.020	0.020	mg/L	12/8/00 17:17
Copper	< 0.010	0.010	mg/L	12/8/00 17:17
Lead	< 0.10	0.10	mg/L	12/8/00 17:17
Nickel	< 0.020	0.020	mg/L	12/8/00 17:17
Selenium	< 0.50	0.50	mg/L	12/8/00 17:17
Silver	< 0.020	0.020	mg/L	12/8/00 17:17
Thallium	< 0.50	0.50	mg/L	12/8/00 17:17
Zinc	< 0.020	0.020	mg/L	12/8/00 17:17
VOLATILES (EPA 8260B)				Analyst: THP
Chloromethane	< 10	10	ug/L	12/5/00 0:28
Vinyl chloride	< 10	10	ug/L	12/5/00 0:28
Bromomethane	< 10	10	ug/L	12/5/00 0:28
Chloroethane	< 10	10	ug/L	12/5/00 0:28
Acetone	< 100	100	ug/L	12/5/00 0:28
1,1-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 0:28
Carbon disulfide	< 5.0	5.0	ug/L	12/5/00 0:28
Methylene chloride	< 5.0	5.0	ug/L	12/5/00 0:28
trans-1,2-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 0:28
1,1-Dichloroethane	< 5.0	5.0	ug/L	12/5/00 0:28
2-Butanone	< 100	100	ug/L	12/5/00 0:28
cis-1,2-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 0:28
Chloroform	< 5.0	5.0	ug/L	12/5/00 0:28
1,1,1-Trichloroethane	< 5.0	5.0	ug/L	12/5/00 0:28

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: SURFACE WATER

Client Sample ID: ST-1; Grab

Lab ID: 0012046-005

Collection Date: 11/30/00 13:45

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Carbon tetrachloride	< 5.0	5.0	ug/L	12/5/00	0:28
Benzene	< 5.0	5.0	ug/L	12/5/00	0:28
1,2-Dichloroethane	< 5.0	5.0	ug/L	12/5/00	0:28
Trichloroethene	< 5.0	5.0	ug/L	12/5/00	0:28
1,2-Dichloropropane	< 5.0	5.0	ug/L	12/5/00	0:28
Bromodichloromethane	< 5.0	5.0	ug/L	12/5/00	0:28
4-Methyl-2-pentanone	< 100	100	ug/L	12/5/00	0:28
cis-1,3-Dichloropropene	< 5.0	5.0	ug/L	12/5/00	0:28
Toluene	< 5.0	5.0	ug/L	12/5/00	0:28
trans-1,3-Dichloropropene	< 5.0	5.0	ug/L	12/5/00	0:28
1,1,2-Trichloroethane	< 5.0	5.0	ug/L	12/5/00	0:28
2-Hexanone	< 100	100	ug/L	12/5/00	0:28
Tetrachloroethene	< 5.0	5.0	ug/L	12/5/00	0:28
Dibromochloromethane	< 5.0	5.0	ug/L	12/5/00	0:28
Chlorobenzene	< 5.0	5.0	ug/L	12/5/00	0:28
Ethylbenzene	< 5.0	5.0	ug/L	12/5/00	0:28
m,p-Xylene	< 5.0	5.0	ug/L	12/5/00	0:28
o-Xylene	< 5.0	5.0	ug/L	12/5/00	0:28
Styrene	< 5.0	5.0	ug/L	12/5/00	0:28
Bromoform	< 5.0	5.0	ug/L	12/5/00	0:28
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/L	12/5/00	0:28
Xylenes, Total	< 10	10	ug/L	12/5/00	0:28

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: SURFACE WATER

Client Sample ID: ST-2; Grab

Lab ID: 0012046-006

Collection Date: 11/30/00 13:50

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
MERCURY, TOTAL (EPA 7470A)				Analyst: JLS
Mercury	< 0.00020	0.00020	mg/L	12/7/00 20:13
METALS, TOTAL (EPA 6010B)				Analyst: JSM
Antimony	< 0.50	0.50	mg/L	12/8/00 18:48
Arsenic	< 0.50	0.50	mg/L	12/8/00 17:38
Beryllium	< 0.0050	0.0050	mg/L	12/8/00 17:38
Cadmium	< 0.010	0.010	mg/L	12/8/00 17:38
Chromium	< 0.020	0.020	mg/L	12/8/00 17:38
Copper	< 0.010	0.010	mg/L	12/8/00 17:38
Lead	< 0.10	0.10	mg/L	12/8/00 17:38
Nickel	< 0.020	0.020	mg/L	12/8/00 17:38
Selenium	< 0.50	0.50	mg/L	12/8/00 17:38
Silver	< 0.020	0.020	mg/L	12/8/00 17:38
Thallium	< 0.50	0.50	mg/L	12/8/00 17:38
Zinc	< 0.020	0.020	mg/L	12/8/00 17:38
VOLATILES (EPA 8260B)				Analyst: THP
Chloromethane	< 10	10	ug/L	12/5/00 1:00
Vinyl chloride	< 10	10	ug/L	12/5/00 1:00
Bromomethane	< 10	10	ug/L	12/5/00 1:00
Chloroethane	< 10	10	ug/L	12/5/00 1:00
Acetone	< 100	100	ug/L	12/5/00 1:00
1,1-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 1:00
Carbon disulfide	< 5.0	5.0	ug/L	12/5/00 1:00
Methylene chloride	< 5.0	5.0	ug/L	12/5/00 1:00
trans-1,2-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 1:00
1,1-Dichloroethane	< 5.0	5.0	ug/L	12/5/00 1:00
2-Butanone	< 100	100	ug/L	12/5/00 1:00
cis-1,2-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 1:00
Chloroform	< 5.0	5.0	ug/L	12/5/00 1:00
1,1,1-Trichloroethane	< 5.0	5.0	ug/L	12/5/00 1:00

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: SURFACE WATER

Client Sample ID: ST-2; Grab

Lab ID: 0012046-006

Collection Date: 11/30/00 13:50

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Carbon tetrachloride	< 5.0	5.0	ug/L	12/5/00	1:00
Benzene	< 5.0	5.0	ug/L	12/5/00	1:00
1,2-Dichloroethane	< 5.0	5.0	ug/L	12/5/00	1:00
Trichloroethene	< 5.0	5.0	ug/L	12/5/00	1:00
1,2-Dichloropropane	< 5.0	5.0	ug/L	12/5/00	1:00
Bromodichloromethane	< 5.0	5.0	ug/L	12/5/00	1:00
4-Methyl-2-pentanone	< 100	100	ug/L	12/5/00	1:00
cis-1,3-Dichloropropene	< 5.0	5.0	ug/L	12/5/00	1:00
Toluene	< 5.0	5.0	ug/L	12/5/00	1:00
trans-1,3-Dichloropropene	< 5.0	5.0	ug/L	12/5/00	1:00
1,1,2-Trichloroethane	< 5.0	5.0	ug/L	12/5/00	1:00
2-Hexanone	< 100	100	ug/L	12/5/00	1:00
Tetrachloroethene	< 5.0	5.0	ug/L	12/5/00	1:00
Dibromochloromethane	< 5.0	5.0	ug/L	12/5/00	1:00
Chlorobenzene	< 5.0	5.0	ug/L	12/5/00	1:00
Ethylbenzene	< 5.0	5.0	ug/L	12/5/00	1:00
m,p-Xylene	< 5.0	5.0	ug/L	12/5/00	1:00
o-Xylene	< 5.0	5.0	ug/L	12/5/00	1:00
Styrene	< 5.0	5.0	ug/L	12/5/00	1:00
Bromoform	< 5.0	5.0	ug/L	12/5/00	1:00
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/L	12/5/00	1:00
Xylenes, Total	< 10	10	ug/L	12/5/00	1:00

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: SURFACE WATER

Client Sample ID: ST-3; Grab

Lab ID: 0012046-007

Collection Date: 11/30/00 15:10

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
MERCURY, TOTAL (EPA 7470A)				Analyst: JLS
Mercury	< 0.00020	0.00020	mg/L	12/7/00 20:15
METALS, TOTAL (EPA 6010B)				Analyst: JSM
Antimony	< 0.50	0.50	mg/L	12/8/00 18:51
Arsenic	< 0.50	0.50	mg/L	12/8/00 17:42
Beryllium	< 0.0050	0.0050	mg/L	12/8/00 17:42
Cadmium	< 0.010	0.010	mg/L	12/8/00 17:42
Chromium	< 0.020	0.020	mg/L	12/8/00 17:42
Copper	< 0.010	0.010	mg/L	12/8/00 17:42
Lead	< 0.10	0.10	mg/L	12/8/00 17:42
Nickel	< 0.020	0.020	mg/L	12/8/00 17:42
Selenium	< 0.50	0.50	mg/L	12/8/00 17:42
Silver	< 0.020	0.020	mg/L	12/8/00 17:42
Thallium	< 0.50	0.50	mg/L	12/8/00 17:42
Zinc	< 0.020	0.020	mg/L	12/8/00 17:42
VOLATILES (EPA 8260B)				Analyst: THP
Chloromethane	< 10	10	ug/L	12/5/00 1:32
Vinyl chloride	< 10	10	ug/L	12/5/00 1:32
Bromomethane	< 10	10	ug/L	12/5/00 1:32
Chloroethane	< 10	10	ug/L	12/5/00 1:32
Acetone	< 100	100	ug/L	12/5/00 1:32
1,1-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 1:32
Carbon disulfide	< 5.0	5.0	ug/L	12/5/00 1:32
Methylene chloride	< 5.0	5.0	ug/L	12/5/00 1:32
trans-1,2-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 1:32
1,1-Dichloroethane	< 5.0	5.0	ug/L	12/5/00 1:32
2-Butanone	< 100	100	ug/L	12/5/00 1:32
cis-1,2-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 1:32
Chloroform	< 5.0	5.0	ug/L	12/5/00 1:32
1,1,1-Trichloroethane	< 5.0	5.0	ug/L	12/5/00 1:32

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Client Sample ID: ST-3; Grab

Report No: 0012046

Project: Troy Hill

Lab ID: 0012046-007

Collection Date: 11/30/00 15:10

Matrix: SURFACE WATER

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Carbon tetrachloride	< 5.0	5.0	ug/L	12/5/00	1:32
Benzene	< 5.0	5.0	ug/L	12/5/00	1:32
1,2-Dichloroethane	< 5.0	5.0	ug/L	12/5/00	1:32
Trichloroethene	< 5.0	5.0	ug/L	12/5/00	1:32
1,2-Dichloropropane	< 5.0	5.0	ug/L	12/5/00	1:32
Bromodichloromethane	< 5.0	5.0	ug/L	12/5/00	1:32
4-Methyl-2-pentanone	< 100	100	ug/L	12/5/00	1:32
cis-1,3-Dichloropropene	< 5.0	5.0	ug/L	12/5/00	1:32
Toluene	< 5.0	5.0	ug/L	12/5/00	1:32
trans-1,3-Dichloropropene	< 5.0	5.0	ug/L	12/5/00	1:32
1,1,2-Trichloroethane	< 5.0	5.0	ug/L	12/5/00	1:32
2-Hexanone	< 100	100	ug/L	12/5/00	1:32
Tetrachloroethene	< 5.0	5.0	ug/L	12/5/00	1:32
Dibromochloromethane	< 5.0	5.0	ug/L	12/5/00	1:32
Chlorobenzene	< 5.0	5.0	ug/L	12/5/00	1:32
Ethylbenzene	< 5.0	5.0	ug/L	12/5/00	1:32
m,p-Xylene	< 5.0	5.0	ug/L	12/5/00	1:32
o-Xylene	< 5.0	5.0	ug/L	12/5/00	1:32
Styrene	< 5.0	5.0	ug/L	12/5/00	1:32
Bromoform	< 5.0	5.0	ug/L	12/5/00	1:32
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/L	12/5/00	1:32
Xylenes, Total	< 10	10	ug/L	12/5/00	1:32

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: SURFACE WATER

Client Sample ID: ST-4; Grab

Lab ID: 0012046-008

Collection Date: 11/30/00 14:25

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
MERCURY, TOTAL (EPA 7470A)				Analyst: JLS
Mercury	< 0.00020	0.00020	mg/L	12/7/00 20:18
METALS, TOTAL (EPA 6010B)				Analyst: JSM
Antimony	< 0.50	0.50	mg/L	12/8/00 18:55
Arsenic	< 0.50	0.50	mg/L	12/8/00 17:46
Beryllium	< 0.0050	0.0050	mg/L	12/8/00 17:46
Cadmium	< 0.010	0.010	mg/L	12/8/00 17:46
Chromium	< 0.020	0.020	mg/L	12/8/00 17:46
Copper	0.20	0.010	mg/L	12/8/00 17:46
Lead	< 0.10	0.10	mg/L	12/8/00 17:46
Nickel	< 0.020	0.020	mg/L	12/8/00 17:46
Selenium	< 0.50	0.50	mg/L	12/8/00 17:46
Silver	< 0.020	0.020	mg/L	12/8/00 17:46
Thallium	< 0.50	0.50	mg/L	12/8/00 17:46
Zinc	0.11	0.020	mg/L	12/8/00 17:46
VOLATILES (EPA 8260B)				Analyst: THP
Chloromethane	< 10	10	ug/L	12/5/00 2:04
Vinyl chloride	< 10	10	ug/L	12/5/00 2:04
Bromomethane	< 10	10	ug/L	12/5/00 2:04
Chloroethane	< 10	10	ug/L	12/5/00 2:04
Acetone	< 100	100	ug/L	12/5/00 2:04
1,1-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 2:04
Carbon disulfide	< 5.0	5.0	ug/L	12/5/00 2:04
Methylene chloride	< 5.0	5.0	ug/L	12/5/00 2:04
trans-1,2-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 2:04
1,1-Dichloroethane	< 5.0	5.0	ug/L	12/5/00 2:04
2-Butanone	< 100	100	ug/L	12/5/00 2:04
cis-1,2-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 2:04
Chloroform	< 5.0	5.0	ug/L	12/5/00 2:04
1,1,1-Trichloroethane	< 5.0	5.0	ug/L	12/5/00 2:04

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Client Sample ID: ST-4; Grab

Report No: 0012046

Project: Troy Hill

Lab ID: 0012046-008

Collection Date: 11/30/00 14:25

Matrix: SURFACE WATER

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Carbon tetrachloride	< 5.0	5.0	ug/L	12/5/00	2:04
Benzene	< 5.0	5.0	ug/L	12/5/00	2:04
1,2-Dichloroethane	< 5.0	5.0	ug/L	12/5/00	2:04
Trichloroethene	< 5.0	5.0	ug/L	12/5/00	2:04
1,2-Dichloropropane	< 5.0	5.0	ug/L	12/5/00	2:04
Bromodichloromethane	< 5.0	5.0	ug/L	12/5/00	2:04
4-Methyl-2-pentanone	< 100	100	ug/L	12/5/00	2:04
cis-1,3-Dichloropropene	< 5.0	5.0	ug/L	12/5/00	2:04
Toluene	< 5.0	5.0	ug/L	12/5/00	2:04
trans-1,3-Dichloropropene	< 5.0	5.0	ug/L	12/5/00	2:04
1,1,2-Trichloroethane	< 5.0	5.0	ug/L	12/5/00	2:04
2-Hexanone	< 100	100	ug/L	12/5/00	2:04
Tetrachloroethene	< 5.0	5.0	ug/L	12/5/00	2:04
Dibromochloromethane	< 5.0	5.0	ug/L	12/5/00	2:04
Chlorobenzene	< 5.0	5.0	ug/L	12/5/00	2:04
Ethylbenzene	< 5.0	5.0	ug/L	12/5/00	2:04
m,p-Xylene	< 5.0	5.0	ug/L	12/5/00	2:04
o-Xylene	< 5.0	5.0	ug/L	12/5/00	2:04
Styrene	< 5.0	5.0	ug/L	12/5/00	2:04
Bromoform	< 5.0	5.0	ug/L	12/5/00	2:04
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/L	12/5/00	2:04
Xylenes, Total	< 10	10	ug/L	12/5/00	2:04

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: SURFACE WATER

Client Sample ID: ST-5; Grab

Lab ID: 0012046-009

Collection Date: 11/30/00 14:25

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
MERCURY, TOTAL (EPA 7470A)				Analyst: JLS
Mercury	< 0.00020	0.00020	mg/L	12/7/00 20:20
METALS, TOTAL (EPA 6010B)				Analyst: JSM
Antimony	< 0.50	0.50	mg/L	12/8/00 18:59
Arsenic	< 0.50	0.50	mg/L	12/8/00 17:49
Beryllium	< 0.0050	0.0050	mg/L	12/8/00 17:49
Cadmium	< 0.010	0.010	mg/L	12/8/00 17:49
Chromium	< 0.020	0.020	mg/L	12/8/00 17:49
Copper	0.30	0.010	mg/L	12/8/00 17:49
Lead	< 0.10	0.10	mg/L	12/8/00 17:49
Nickel	< 0.020	0.020	mg/L	12/8/00 17:49
Selenium	< 0.50	0.50	mg/L	12/8/00 17:49
Silver	< 0.020	0.020	mg/L	12/8/00 17:49
Thallium	< 0.50	0.50	mg/L	12/8/00 17:49
Zinc	0.16	0.020	mg/L	12/8/00 17:49
VOLATILES (EPA 8260B)				Analyst: THP
Chloromethane	< 10	10	ug/L	12/5/00 2:36
Vinyl chloride	< 10	10	ug/L	12/5/00 2:36
Bromomethane	< 10	10	ug/L	12/5/00 2:36
Chloroethane	< 10	10	ug/L	12/5/00 2:36
Acetone	< 100	100	ug/L	12/5/00 2:36
1,1-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 2:36
Carbon disulfide	< 5.0	5.0	ug/L	12/5/00 2:36
Methylene chloride	< 5.0	5.0	ug/L	12/5/00 2:36
trans-1,2-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 2:36
1,1-Dichloroethane	< 5.0	5.0	ug/L	12/5/00 2:36
2-Butanone	< 100	100	ug/L	12/5/00 2:36
cis-1,2-Dichloroethene	< 5.0	5.0	ug/L	12/5/00 2:36
Chloroform	< 5.0	5.0	ug/L	12/5/00 2:36
1,1,1-Trichloroethane	< 5.0	5.0	ug/L	12/5/00 2:36

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: SURFACE WATER

Client Sample ID: ST-5; Grab

Lab ID: 0012046-009

Collection Date: 11/30/00 14:25

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Carbon tetrachloride	< 5.0	5.0	ug/L	12/5/00	2:36
Benzene	< 5.0	5.0	ug/L	12/5/00	2:36
1,2-Dichloroethane	< 5.0	5.0	ug/L	12/5/00	2:36
Trichloroethene	< 5.0	5.0	ug/L	12/5/00	2:36
1,2-Dichloropropane	< 5.0	5.0	ug/L	12/5/00	2:36
Bromodichloromethane	< 5.0	5.0	ug/L	12/5/00	2:36
4-Methyl-2-pentanone	< 100	100	ug/L	12/5/00	2:36
cis-1,3-Dichloropropene	< 5.0	5.0	ug/L	12/5/00	2:36
Toluene	< 5.0	5.0	ug/L	12/5/00	2:36
trans-1,3-Dichloropropene	< 5.0	5.0	ug/L	12/5/00	2:36
1,1,2-Trichloroethane	< 5.0	5.0	ug/L	12/5/00	2:36
2-Hexanone	< 100	100	ug/L	12/5/00	2:36
Tetrachloroethene	< 5.0	5.0	ug/L	12/5/00	2:36
Dibromochloromethane	< 5.0	5.0	ug/L	12/5/00	2:36
Chlorobenzene	< 5.0	5.0	ug/L	12/5/00	2:36
Ethylbenzene	< 5.0	5.0	ug/L	12/5/00	2:36
m,p-Xylene	< 5.0	5.0	ug/L	12/5/00	2:36
o-Xylene	< 5.0	5.0	ug/L	12/5/00	2:36
Styrene	< 5.0	5.0	ug/L	12/5/00	2:36
Bromoform	< 5.0	5.0	ug/L	12/5/00	2:36
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/L	12/5/00	2:36
Xylenes, Total	< 10	10	ug/L	12/5/00	2:36

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Client Sample ID: Trip Blank; Grab

Report No: 0012046

Project: Troy Hill

Lab ID: 0012046-010

Collection Date: 11/22/00 13:20

Matrix: WATER

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
VOLATILES (EPA 8260B)				Analyst: THP	
Chloromethane	< 10	10	ug/L	12/5/00	3:07
Vinyl chloride	< 10	10	ug/L	12/5/00	3:07
Bromomethane	< 10	10	ug/L	12/5/00	3:07
Chloroethane	< 10	10	ug/L	12/5/00	3:07
Acetone	< 100	100	ug/L	12/5/00	3:07
1,1-Dichloroethene	< 5.0	5.0	ug/L	12/5/00	3:07
Carbon disulfide	< 5.0	5.0	ug/L	12/5/00	3:07
Methylene chloride	< 5.0	5.0	ug/L	12/5/00	3:07
trans-1,2-Dichloroethene	< 5.0	5.0	ug/L	12/5/00	3:07
1,1-Dichloroethane	< 5.0	5.0	ug/L	12/5/00	3:07
2-Butanone	< 100	100	ug/L	12/5/00	3:07
cis-1,2-Dichloroethene	< 5.0	5.0	ug/L	12/5/00	3:07
Chloroform	< 5.0	5.0	ug/L	12/5/00	3:07
1,1,1-Trichloroethane	< 5.0	5.0	ug/L	12/5/00	3:07
Carbon tetrachloride	< 5.0	5.0	ug/L	12/5/00	3:07
Benzene	< 5.0	5.0	ug/L	12/5/00	3:07
1,2-Dichloroethane	< 5.0	5.0	ug/L	12/5/00	3:07
Trichloroethene	< 5.0	5.0	ug/L	12/5/00	3:07
1,2-Dichloropropane	< 5.0	5.0	ug/L	12/5/00	3:07
Bromodichloromethane	< 5.0	5.0	ug/L	12/5/00	3:07
4-Methyl-2-pentanone	< 100	100	ug/L	12/5/00	3:07
cis-1,3-Dichloropropene	< 5.0	5.0	ug/L	12/5/00	3:07
Toluene	< 5.0	5.0	ug/L	12/5/00	3:07
trans-1,3-Dichloropropene	< 5.0	5.0	ug/L	12/5/00	3:07
1,1,2-Trichloroethane	< 5.0	5.0	ug/L	12/5/00	3:07
2-Hexanone	< 100	100	ug/L	12/5/00	3:07
Tetrachloroethene	< 5.0	5.0	ug/L	12/5/00	3:07
Dibromochloromethane	< 5.0	5.0	ug/L	12/5/00	3:07
Chlorobenzene	< 5.0	5.0	ug/L	12/5/00	3:07
Ethylbenzene	< 5.0	5.0	ug/L	12/5/00	3:07
m,p-Xylene	< 5.0	5.0	ug/L	12/5/00	3:07
o-Xylene	< 5.0	5.0	ug/L	12/5/00	3:07

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: WATER

Client Sample ID: Trip Blank; Grab

Lab ID: 0012046-010

Collection Date: 11/22/00 13:20

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Styrene	**< 5.0**	5.0	ug/L	12/5/00	3:07
Bromoform	**< 5.0**	5.0	ug/L	12/5/00	3:07
1,1,2,2-Tetrachloroethane	**< 5.0**	5.0	ug/L	12/5/00	3:07
Xylenes, Total	**< 10**	10	ug/L	12/5/00	3:07

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: WATER

Client Sample ID: Rinsate; Grab

Lab ID: 0012046-011

Collection Date: 11/30/00 13:00

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
MERCURY, TOTAL (EPA 7470A)				Analyst: JLS	
Mercury	< 0.00020	0.00020	mg/L	12/7/00	20:30
METALS, TOTAL (EPA 6010B)				Analyst: JSM	
Antimony	< 0.50	0.50	mg/L	12/8/00	19:02
Arsenic	< 0.50	0.50	mg/L	12/8/00	18:00
Beryllium	< 0.0050	0.0050	mg/L	12/8/00	18:00
Cadmium	< 0.010	0.010	mg/L	12/8/00	18:00
Chromium	< 0.020	0.020	mg/L	12/8/00	18:00
Copper	< 0.010	0.010	mg/L	12/8/00	18:00
Lead	< 0.10	0.10	mg/L	12/8/00	18:00
Nickel	< 0.020	0.020	mg/L	12/8/00	18:00
Selenium	< 0.50	0.50	mg/L	12/8/00	18:00
Silver	< 0.020	0.020	mg/L	12/8/00	18:00
Thallium	< 0.50	0.50	mg/L	12/8/00	18:00
Zinc	< 0.020	0.020	mg/L	12/8/00	18:00
TCL PESTICIDES AND PCBS (EPA 3510C/8081A/8082)				Analyst: MST	
alpha-BHC	< 0.050	0.050	ug/L	12/5/00	22:16
beta-BHC	< 0.050	0.050	ug/L	12/5/00	22:16
gamma-BHC	< 0.050	0.050	ug/L	12/5/00	22:16
delta-BHC	< 0.050	0.050	ug/L	12/5/00	22:16
Heptachlor	< 0.050	0.050	ug/L	12/5/00	22:16
Aldrin	< 0.050	0.050	ug/L	12/5/00	22:16
Heptachlor epoxide	< 0.050	0.050	ug/L	12/5/00	22:16
gamma-Chlordane	< 0.10	0.10	ug/L	12/5/00	22:16
Endosulfan I	< 0.10	0.10	ug/L	12/5/00	22:16
alpha-Chlordane	< 0.10	0.10	ug/L	12/5/00	22:16
Dieldrin	< 0.10	0.10	ug/L	12/5/00	22:16
4,4´-DDE	< 0.10	0.10	ug/L	12/5/00	22:16
Endrin	< 0.10	0.10	ug/L	12/5/00	22:16
Endosulfan II	< 0.30	0.30	ug/L	12/5/00	22:16

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: WATER

Client Sample ID: Rinsate; Grab

Lab ID: 0012046-011

Collection Date: 11/30/00 13:00

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
4,4´-DDD	< 0.30	0.30	ug/L	12/5/00	22:16
Endrin aldehyde	< 0.30	0.30	ug/L	12/5/00	22:16
Endosulfan sulfate	< 0.30	0.30	ug/L	12/5/00	22:16
4,4´-DDT	< 0.30	0.30	ug/L	12/5/00	22:16
Endrin Ketone	< 0.30	0.30	ug/L	12/5/00	22:16
Methoxychlor	< 0.50	0.50	ug/L	12/5/00	22:16
Toxaphene	< 3.0	3.0	ug/L	12/5/00	22:49
Aroclor 1016	< 1.0	1.0	ug/L	12/5/00	22:49
Aroclor 1221	< 1.0	1.0	ug/L	12/5/00	22:49
Aroclor 1232	< 1.0	1.0	ug/L	12/5/00	22:49
Aroclor 1242	< 1.0	1.0	ug/L	12/5/00	22:49
Aroclor 1248	< 1.0	1.0	ug/L	12/5/00	22:49
Aroclor 1254	< 1.0	1.0	ug/L	12/5/00	22:49
Aroclor 1260	< 1.0	1.0	ug/L	12/5/00	22:49
VOLATILES (EPA 8260B)				Analyst: THP	
Chloromethane	< 10	10	ug/L	12/5/00	3:39
Vinyl chloride	< 10	10	ug/L	12/5/00	3:39
Bromomethane	< 10	10	ug/L	12/5/00	3:39
Chloroethane	< 10	10	ug/L	12/5/00	3:39
Acetone	< 100	100	ug/L	12/5/00	3:39
1,1-Dichloroethene	< 5.0	5.0	ug/L	12/5/00	3:39
Carbon disulfide	< 5.0	5.0	ug/L	12/5/00	3:39
Methylene chloride	< 5.0	5.0	ug/L	12/5/00	3:39
trans-1,2-Dichloroethene	< 5.0	5.0	ug/L	12/5/00	3:39
1,1-Dichloroethane	< 5.0	5.0	ug/L	12/5/00	3:39
2-Butanone	< 100	100	ug/L	12/5/00	3:39
cis-1,2-Dichloroethene	< 5.0	5.0	ug/L	12/5/00	3:39
Chloroform	8.7	5.0	ug/L	12/5/00	3:39
1,1,1-Trichloroethane	< 5.0	5.0	ug/L	12/5/00	3:39
Carbon tetrachloride	< 5.0	5.0	ug/L	12/5/00	3:39
Benzene	< 5.0	5.0	ug/L	12/5/00	3:39
1,2-Dichloroethane	< 5.0	5.0	ug/L	12/5/00	3:39
Trichloroethene	< 5.0	5.0	ug/L	12/5/00	3:39

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: WATER

Client Sample ID: Rinsate; Grab

Lab ID: 0012046-011

Collection Date: 11/30/00 13:00

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
1,2-Dichloropropane	< 5.0	5.0	ug/L	12/5/00	3:39
Bromodichloromethane	< 5.0	5.0	ug/L	12/5/00	3:39
4-Methyl-2-pentanone	< 100	100	ug/L	12/5/00	3:39
cis-1,3-Dichloropropene	< 5.0	5.0	ug/L	12/5/00	3:39
Toluene	< 5.0	5.0	ug/L	12/5/00	3:39
trans-1,3-Dichloropropene	< 5.0	5.0	ug/L	12/5/00	3:39
1,1,2-Trichloroethane	< 5.0	5.0	ug/L	12/5/00	3:39
2-Hexanone	< 100	100	ug/L	12/5/00	3:39
Tetrachloroethene	< 5.0	5.0	ug/L	12/5/00	3:39
Dibromochloromethane	< 5.0	5.0	ug/L	12/5/00	3:39
Chlorobenzene	< 5.0	5.0	ug/L	12/5/00	3:39
Ethylbenzene	< 5.0	5.0	ug/L	12/5/00	3:39
m,p-Xylene	< 5.0	5.0	ug/L	12/5/00	3:39
o-Xylene	< 5.0	5.0	ug/L	12/5/00	3:39
Styrene	< 5.0	5.0	ug/L	12/5/00	3:39
Bromoform	< 5.0	5.0	ug/L	12/5/00	3:39
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/L	12/5/00	3:39
Xylenes, Total	< 10	10	ug/L	12/5/00	3:39

Gascoyne Laboratories, Inc.

Baltimore, MD 21224

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REPORT OF ANALYSIS

Test Results

Client: KCI Technologies

Report No: 0012046

Project: Troy Hill

Matrix: WATER

Client Sample ID: Trip Blank; Grab

Lab ID: 0012046-010

Collection Date: 11/22/00 13:20

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed	
Styrene	**< 5.0**	5.0	ug/L	12/5/00	3:07
Bromoform	**< 5.0**	5.0	ug/L	12/5/00	3:07
1,1,2,2-Tetrachloroethane	**< 5.0**	5.0	ug/L	12/5/00	3:07
Xylenes, Total	**< 10**	10	ug/L	12/5/00	3:07