1214 West Sixth Street
Suite 201
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(512) 494-0333 • FAX (512) 494-0334

GEOMATRIX

October 3, 2000

Ms. Mirtha Capiro
Project Coordinator
U.S. Environmental Protection Agency
Region 5
77 W. Jackson Boulevard, DRE-9J
Chicago, Illinois 60604-3590

RE: Revision 01- Table 3-1
Current Conditions Report, Morton International Inc., Reading, Ohio
RCRA Docket No. R3013-5-00-001

Dear Ms. Capiro:

Page 1 of Table 3-1 of the above referenced report has been revised to correct the transposition of AO Study Area reference numbers for SWMU 10 and SWMU 11. Please replace the page in the three copies of the Current Conditions Report transmitted to you on October 2, 2000 with page 1, Table 3-1, Revision 01, October 2, 2000.

We apologize for any inconvenience this may cause you. If you have any questions, please feel free to contact me at (512) 494-0333.

Sincerely,
GEOMATRIX CONSULTANTS, INC.

Anne M. Haikola for

Mark P. Hemingway
Principal Hydrogeologist

cc: Mr. Peter V. Palena, The Rohm and Haas Co.
Mr. Matt DeMaison, The Rohm and Haas Co.
Mr. David C. Kurland, Esq., The Rohm and Haas Co.

Attachments – 3 copies of Page 1, Table 3-1, Revision 01, October 2, 2000

TABLE 3-1
SUMMARY OF WASTE MANAGEMENT AREAS
Morton Facility
Reading, Ohio

Identification	Description	AO Study Area Reference [1]	Release Potential [2]
SWMU 1	Former Surface Impoundments	16	High
SWMU 2	Former Neutralization Tank	17	Low
SWMU 3	Former Drum Storage Area	18	Moderate
SWMU 4	Hazardous Waste Drum Storage Area	NA	Low
SWMU 5	Former Sulfide Waste Treatment Tank	19	Low
SWMU 6	Groundwater Collection System	20	Low
SWMU 7	Groundwater Treatment Unit	20	Low
SWMU 8	Satellite Waste Accumulation Areas	NA	Low
SWMU 9	pH Control System	21	Low
SWMU 10	Former Swale Area	22	High
SWMU 11	Combined Sewer System	21	Moderate
Mill Creek Seeps	Seeps on east bank of Mill Creek, west of Morton Facility.	23	NA [4]
5000-Gallon Ignitable Waste Storage Tank	Formerly used for storage of "ignitable waste."	NI [3]	NA
12,000-Gallon Reactive Waste Storage Tank	Formerly used for storage of "reactive waste."	NI	NA
Wastewater Treatment Tank	Formerly used for wastewater treatment.	NI	NA
Waste Burial Location A	Burial location of small quantities of sodium and various lab samples, estimated total of 55 gallons.	NI	NA

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SWMU 10	Former Swale Area	22	High
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GEOMATRIX

September 29, 2000

Ms. Mirtha Capiro
Project Coordinator
U.S. Environmental Protection Agency
Region 5
77 W. Jackson Boulevard, DRE-9J
Chicago, Illinois 60604-3590

RE: Current Conditions Report, Morton International Inc., Reading, Ohio
RCRA Docket No. R3013-5-00-001

Dear Ms. Capiro:

At the direction of the Rohm and Haas Co., Geomatrix Consultants, Inc. (Geomatrix) is submitting a Current Conditions Report for the referenced facility. As discussed in the September 11, 2000 meeting between representatives of the U.S. Environmental Protection Agency, the Rohm and Haas Co., and Geomatrix, the intent of the Current Conditions Report is to support subsequent work at the Morton Facility in Reading, Ohio. Specifically, the Current Conditions Report will facilitate effective planning and implementation of the investigation effort required by the Administrative Order.

We look forward to meeting with you on October 16, 2000 to discuss this Current Conditions Report and the proposed scope of the investigation required by the Administrative Order.

If you have any questions, please feel free to contact me at (512) 494-0333.

Sincerely,
GEOMATRIX CONSULTANTS, INC.

Mark P. Hemingway
Principal Hydrogeologist

cc: Mr. Peter V. Palena, The Rohm and Haas Co.
Mr. Matt DeMaison, The Rohm and Haas Co.
Mr. David C. Kurland, Esq., The Rohm and Haas Co.

Attachments – 3 copies of the Current Conditions Report

Current Conditions Report

Morton International, Inc. Facility
Reading, Ohio

Prepared for:

The Rohm and Haas Co.

Prepared by:

Geomatrix Consultants, Inc.
1214 West 6th Street
Suite 201
Austin, Texas 78703

September 2000

Project No. 6452

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Current Conditions Report

Morton International Inc. Facility
Reading, Ohio

September, 2000
Project No. 6452

This report was prepared by the staff of Geomatrix Consultants, Inc., under the supervision of the Hydrogeologist whose signature appears hereon.

The findings, recommendations, specifications, or professional opinions are presented within the limits described by the client, after being prepared in accordance with generally accepted professional practice. No warranty is expressed or implied.

Mark P. Hemingway, Principal Hydrogeologist

Prepared in Compliance with Administrative Order
RCRA Docket No. R3013-5-00-001, Paragraph 67

Certification by The Rohm and Haas Company

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Bruce E Beiser

Name (Printed): BRUCE E BEISER

Title: PLANT MANAGER

Date: September 26, 2000

1.0 INTRODUCTION

On August 18, 2000, the United States Environmental Protection Agency (USEPA) Region 5 issued an Administrative Order (AO) to Morton International, Inc. (Morton), a wholly-owned subsidiary of the Rohm and Haas Co. (Rohm and Haas) and the owner and operator of a facility at 2000 West Street, Reading, Ohio [EPA ID No. OHD 000 724 138]. This facility is herein referred to as the Morton Facility or "the facility." The basic objective of the AO is to "ascertain the nature and extent of the hazard posed by the hazardous wastes that are present at or that may have been released from the study areas at [the Morton] facility."

This Current Conditions Report (CCR) provides background information to the USEPA concerning the facility, its setting, raw material and/or waste release history, and known or suspected impacts to environmental media. More specifically, it provides:

- A summary of the historic operations at the Morton Facility;
- A description of the Morton Facility's physical setting;
- A summary of environmental sampling data from the Morton Facility;
- A description of known conditions at each of the Solid Waste Management Units identified at the Morton Facility by consultants for the USEPA Region 5.
- Identification of other locations where hazardous waste or constituent treatment, storage, or disposal is known to have occurred.

This information will facilitate the USEPA review of other submittals relating to the process of acquiring additional information regarding conditions at the facility. Geomatrix Consultants, Inc. (Geomatrix) has been retained by Rohm and Haas to prepare this CCR and other submittals required to complete the objectives of the AO.

2.0 SITE DESCRIPTION

2.1 LOCATION AND SETTING

The Morton Facility is located in the City of Reading, which is a northern suburb of Cincinnati, Ohio. The Morton Facility is located at 2000 West Street, Reading, Hamilton County (Figure 2-1). It consists of a single tract of land totaling 34 acres. Of these, approximately 27 acres comprise the fenced, operational area of the facility. The remaining 7 acres contain baseball fields used by the City of Reading.

As illustrated in Figure 2-2, the Morton Facility is bounded:

- On the north by a drum recycling facility owned and operated by Cincinnati Drum Service (Cincinnati Drum), and by the Pristine Superfund Site (Pristine). Further to the north, the property is owned by the City of Reading. This property was formerly used as a municipal water supply well field, and for the disposal of foundry sand and fly ash from the City of Reading incinerator (Camp, Dresser & McKee Inc., or CDM, 1986).

- On the east by a Conrail railroad track. Further to the east lie a grain elevator, various small commercial/industrial facilities, and residential areas. The nearest residential area in this direction lies approximately 600 feet from the Morton Facility's eastern boundary.

- On the south by an instrument manufacture facility operated by Rosemont Industries, and recreational facilities operated by the City of Reading. The recreational areas include baseball fields (actually on property owned by Rohm and Haas, as noted above), a swimming pool, and a track and field area. Further to the south lie a residential area and a cemetery. The residential area lies approximately 350 feet from the southernmost boundary of the Morton Facility.

- On the west by a City of Reading hike and bike trail. Immediately to the west of this trail lies Mill Creek, a tributary of the Ohio River. A small portion of the Morton Facility property at the northwest corner of the facility extends across Mill Creek. The area across Mill Creek to the west is occupied by an aircraft engine manufacturing facility operated by General Electric and by an asphalt plant.

Figure 2-3 illustrates the adjacent property ownership.

Land use in the area of the Morton Facility is mixed (Figure 2-4), with industrial, commercial, recreational, and residential all present within 0.5 miles of the facility boundary. The nearest school is Sisters of Notre Dame de Namur, located approximately 0.5 miles to the east. The nearest hospital is Jewish Hospital at Kenwood, approximately 2 miles to the east-southeast. No agricultural use is identified in the vicinity of the facility. A 1994 aerial photograph of the Morton Facility and adjacent areas is included in Appendix A.

2.2 MORTON FACILITY DESCRIPTION

The facility has approximately 175 employees. Manned operations are on a 24-hours-per-day, 7-days-per-week basis. The operational portion of the Morton Facility consists of approximately 28 buildings, including process, warehouse, office, laboratory, and waste treatment activities. The facility also includes approximately 70 aboveground tanks for feedstock, product, and waste storage. No active underground storage tanks (USTs) are currently present at the facility, although two former heating oil USTs are abandoned in place (see Section 3.3). Figure 2-5 illustrates the layout of the Morton Facility.

Except for the baseball fields operated by the City of Reading, and for the small portion of the facility that extends west across Mill Creek, the entire Morton Facility is security fenced and access-controlled. Neither of these unfenced areas include operational or storage areas. A security guard mans the facility gate on a 24-hours per day, 7-days-per-week basis.

The Morton Facility (under several owners) has been engaged in the manufacturing of chemical products since approximately 1950. These products include:

- Synthetic waxes, used as lubricants in plastic extrusion processes and defoamers in the paper industry;
- Asphalt additives, specifically antistripping agents;

- Antioxidants (this process has been sold to another manufacturer and is anticipated to be terminated at the facility by the end of 2000);
- Organophosphates, specifically for epoxy catalysts, and
- Plastic stabilizers, specifically organotin and cyoglycolate organotin stabilizers.

The raw materials used to manufacture these products include metallic tin, methyl chloride, chlorine, ammonia, 2-mercaptyl ethanol, tall oil fatty acid, 2-ethyl hexanol, thioglycolic acid, ethylene diamine, stearic acid, paraffin waxes, ethyl chloride, benzyl chloride, triphenyl phosphene, and others. Chemical intermediates produced on-site include stannic chloride, dimethyl tin dichloride, esters, and glycolates. A portion of the dimethyl tin dichloride intermediate produced at the Morton Facility is transported off-site for use at other Morton facilities.

Wastes generated from the manufacturing process are stored at the Morton Facility for less than 90 days, then transported off-site for disposal, recycling, or other appropriate disposition. Historic and current solid and hazardous waste management is discussed in Section 3.4 of this report.

Underground utilities present at the Morton Plant include gas, electric, combined sewer, sprinkler, and water. The location of the combined sewer system (CSS) including outfalls is shown on Figure 2-6. The CSS has been defined as SWMU by the USEPA, and is discussed further in Section 3.4 of this report.

2.3 Physiography And Topography

Hamilton County lies in the Till Plains Region of the Central Lowlands Physiographic Province (ODNR, 1992). The Morton Facility is located within the middle reaches of the Mill Creek Valley, and lies on a terrace of Mill Creek. The facility reportedly does not lie within the 100-year floodplain of the creek (PRC, 1993). Mill Creek is discussed in greater detail in Section

2.6 of this report. The axis of the creek valley is oriented generally north-south, and the valley is bounded to the east and west by hills of outcropping Ordovician bedrock.

The topography slopes toward the creek on the west side of the facility (Figure 2-7). This slope is relatively gentle across most of the facility, but steeper in the northeast portion. Beyond the western facility boundary, the topography drops more steeply down to the creek itself. Based on a survey performed in June 1998 by American Process Designs, Inc., surface elevations are highest in the northeast corner of the Morton Facility, at approximately 578 feet above mean sea level, and lowest in the western area, at approximately 550 feet. The approximate elevation of the creek bed west of the facility is 535 feet.

2.4 CLIMATE

According to a Remedial Investigation report for neighboring Pristine, (Camp, Dresser, & McKee, 1986), the average temperature ranges from 29° Fahrenheit in January to 75° Fahrenheit in July. Prevailing winds are from the south-southwest, averaging 9.1 miles per hour. The average annual precipitation is 40 inches, with the maximum precipitation during spring and winter. All data are from the Cincinnati Airport, approximately 18 miles southwest of the Morton Facility.

2.5 GEOLOGY AND HYDROGEOLOGY

The following sections discuss the regional and local geology and hydrogeology.

2.5.1 Regional Geology and Hydrogeology

Hamilton County is located on the west flank of the regional anticline termed the Cincinnati Arch. The Morton Facility is located within the Mill Creek Valley, which is one of a series of buried glacially-incised valleys in the region. The Mill Creek Valley is a buried valley of the Deep Stage Cincinnati River.

In general, the lower portion of this valley is formed of the Ordovician Kope Formation, comprising limey shales with limestone interbeds (Osborne, 1968; Osborne, 1974). The

valley is filled predominantly with glacial outwash deposits, with lesser amounts of moraine deposits and alluvial deposits from the valley walls.

Sand and gravel deposits within the outwash facies filling the buried valleys form a generally prolific aquifer system, referred to as the Buried Valley Aquifer System (E&E, 1991). This aquifer system is the primary source of groundwater for the Cincinnati area (ODNR, 1989), and is widely used for municipal and industrial supply. A review of supply well logs from the vicinity of the facility (Appendix B) confirms that wells are typically completed in these outwash deposits.

The underlying and surrounding bedrock is noted in an early groundwater availability report (U.S. Geological Survey, 1948) as being insufficiently porous to contain large quantities of water. This report also notes that the bedrock groundwater often contains high concentrations of dissolved solids and sometimes hydrogen sulfide. This is supported by the Ohio Department of Natural Resources (ODNR) Division of Water (ODNR, 1989), which noted that, in Hamilton County:

> "Limited ground water supplies are available for the Ordovician limestone-shale sequence. . . . Wells in these formations may experience seasonal losses of water and dry wells are not uncommon. When groundwater is present in the bedrock, it usually occurs in the upper few feet of weathered material or in fractures and bedding planes within the bedrock."

For activities at neighboring Pristine, the bedrock is not treated as a transmissive unit for the purposes of assessment, modeling, or remediation. Instead, it is considered a no-flow boundary (Conestoga-Rovers, 1996a)

2.5.2 Site Geology and Hydrogeology

Based on Pristine drilling and the log of the on-site water supply well, the outwash deposits at the Morton Facility range from approximately 130 to 160 feet thick. These deposits thin dramatically to the east and west of the site, at the margins of the buried valley. A conceptual cross-sectional view of the site hydrogeologic setting is shown in

Figure 2-8. The boundaries of the outwash deposits are shown in a figure prepared by Conestoga-Rovers & Associates (Conestoga-Rovers, 2000a), included as Appendix C.

In general terms, the facility geology consists of the following strata, from shallow to deep:

1. Fill soils, typically comprising clay.
2. A lacustrine clay and silt sequence, with interbeds of sand and gravel which are generally thin and discontinuous. These interbeds are referred to as "outwash lenses" in Pristine reporting.
3. A till from Wisconsin glaciation (PRC, 1992), described as sandy, gravelly clay with rock fragments (H.C. Nutting, 1980).
4. A lacustrine clay, absent in some locations.
5. A thick sequence predominantly comprising silty sand and gravelly sand, with some clay and silt interbeds.
6. A basal clay, absent in some locations.
7. Shale bedrock

The thickness of these units may vary considerably over relatively short distances.

Previous work at this and neighboring facilities have divided the outwash deposits into two aquifers, separated by the till and lower lacustrine clay, for the purposes of investigation and remediation. These are generally referred to as the Upper and Lower Aquifers, although terminology varies. Descriptions of the hydrogeology of these two aquifers is provided below.

Upper Aquifer

The Upper Aquifer consists of the transmissive interbeds within the shallow lacustrine deposits, above the till. For any given location within the Morton Facility, from one to

three sand or gravelly sand interbeds may be present. Groundwater within each of these interbeds is described as perched (Camp Dresser & McKee, 1986), with flow directions controlled primarily by the dip of the interbeds. These interbeds may be in direct hydraulic communication at locations where they come into close proximity or actual contact with one another. Where they are more widely separated, groundwater is believed to move downward from upper to lower interbeds primarily by leakage through the surrounding clays and silts.

Depths to saturation vary across the Morton Facility, from approximately 5 feet at the east-central edge of the facility, to approximately 24 feet in the southwestern area. The Upper Aquifer groundwater gradient has generally been characterized as sloping from the northeast area of the site predominantly westward, mirroring the surface topography. A groundwater flow direction survey performed in 1983 by K-V Associates, Inc . noted strong southerly flow velocities in some wells. These findings suggest that anisotropy plays a strong local role in groundwater flow.

A large portion, perhaps all, of the Upper Aquifer at the Morton Facility is believed to crop out in the Mill Creek bank west of the facility. Groundwater flowing in this direction and reaching outcrop would be present as seepage. Note that groundwater collection efforts at the site are believed to interrupt most or all of this flow, as discussed in Section 7.1.

Various assessments have characterized the hydraulic character of the Upper Aquifer. The findings of these assessments with respect to primary hydraulic parameters are summarized in Table 2-1.

Lower Aquifer

The Lower Aquifer is generally divided into an upper and lower portion based on lithology. The upper portion predominantly comprises silty sand, and is reportedly not

widely used for local water supply. The lower portion is typically screened by local production wells, and predominantly comprises sands and gravels (CDM, 1986).

The two former City of Reading municipal well fields which produced from this zone are both located in the general vicinity of the facility. One is located to the north of Cincinnati Drum and Pristine, approximately 500 feet from the north Morton Facility boundary. This well field consisted of wells RPW1 through RPW6 on the west side of Mill Creek, and wells RPW9, RPW10, and RPW15 to the east of the creek. The second well field is located in the Koenig Park area approximately 1600 feet south-southwest of the Morton Facility, and consisted of wells RPW-13 and RPW-14 (Conestoga-Rovers, 1996b). Use of both well fields was discontinued by March 1994, and City of Reading public works personnel report that municipal wells were plugged with bentonite as part of the fields' closure. The well fields were closed in response to the presence of dissolved chlorinated hydrocarbons, especially 1,2-dichloroethane (1;2-DCA). 1,2-DCA is the primary groundwater contaminant emanating from Pristine, and the chlorinated hydrocarbon plume emanating from Pristine is currently being captured by that site's groundwater recovery and treatment system. Since the well fields' closure, the City of Reading has obtained its water supply from the City of Cincinnati.

Other municipalities also utilize the Lower Aquifer for groundwater supply. Within three miles of the Morton Facility, the cities of Glendale, Lockland, and Wyoming all utilize the aquifer. Major industrial users in the area include General Electric and Formica. One Lower Aquifer supply well is known to have been historically present in the southwest area of the Morton Facility, near the current location of Building 40 (Figure 2-5). This well was reportedly abandoned in the 1970s. Lower Aquifer supply wells were reportedly also installed at the International Minerals & Chemical Corporation property currently occupied by Cincinnati Drum and Pristine. Information regarding the status of these wells was not available to Geomatrix at the time of this report's preparation.

Although widely utilized for municipal and industrial supply in this area, a consultant for the USEPA concluded that "private wells are virtually non-existent in Hamilton County," based on the prevalence of public supply (E&E, 1991).

The Lower Aquifer is characterized as a leaky confined aquifer. Recharge from the Upper Aquifer can occur through the overlying till layer (Conestoga-Rovers, 1996b). Water level measurements from well clusters in the site's vicinity, however, do not demonstrate the presence of any appreciable vertical gradients within the Lower Aquifer. This suggests that the bulk of Lower Aquifer groundwater at the facility is not being derived from leakage. Instead, it is probably derived from recharge in the more northerly portions of the aquifer, which then migrates south along the buried valley (U.S. Geological Survey, 1948).

The degree of leakage from above is probably controlled by the thickness and character of the overlying till layer. Although the till is believed to be relatively continuous across the Morton Facility, there may be areas where it is thin, absent, or where its permeability is higher due to secondary structures or higher admixtures of coarser sediments. One relatively thin area is located near the boundary between the Morton Facility and Pristine, where the till is observed to be only approximately 10 feet thick (Conestoga-Rovers, 1996b).

The thickness of the Lower Aquifer varies from approximately 17 to 122 feet in the immediate vicinity of the Morton Facility, with a mean thickness of approximately 80 feet (Conestoga-Rovers, 1996a). The potentiometric surface of the Lower Aquifer is typically present approximately 50 feet above the upper stratigraphic boundary of that aquifer; at the Morton Facility potentiometric surface is generally equivalent to a depth of approximately 30 feet below the surface. The overall groundwater gradient within the Lower Aquifer is to the south at an average gradient of 10.7 feet per mile (E&E, 1991). Given the relatively narrow character of the aquifer, however, this gradient is strongly

affected by local pumping. During the period of active pumping by the Reading municipal well field north of the Cincinnati Drum facility, a portion of the Lower Aquifer under the Morton Facility, Cincinnati Drum, and Pristine facilities had a northern gradient, toward the well field (Conestoga-Rovers, 1994). Currently, with that municipal well field inactive, the Pristine extraction wells strongly modify the gradient at the Morton Facility. The entire extent of the Lower Aquifer at the Morton Facility is within the interpreted capture zone of wells EW1 and EW2. Appendix C contains potentiometric surface maps generated by Conestoga-Rovers & Associates. These illustrate the Lower Aquifer gradient both with and without active pumping by the nearby Pristine extraction wells.

Various hydrogeologic studies conducted for Pristine have measured or estimated hydraulic parameters for the Lower Aquifer. Values for these parameters are summarized in Table 2-1. Hydraulic testing has shown that the Lower Aquifer is quite variable in terms of transmissivity, due to variations in lithology and thickness. It is also anisotropic, with the highest hydraulic conductivity direction oriented north-south, parallel to the buried valley axis (Conestoga-Rovers, 1996b, 1997).

The Lower Aquifer is bounded on the sides and base primarily by bedrock, although a basal clay stratum is documented in some areas. Bedrock consists of Ordovician shales and limestones of relatively low hydraulic conductivity. The ODNR estimated the bedrock's hydraulic conductivity as 1 to 100 gallons per day per square foot (4.72×10^{-5} to 4.72×10^{-3} cm/sec) in Hamilton County (ODNR, 1989).

2.6 SURFACE WATER HYDROLOGY

Mill Creek is the only body of surface water in the vicinity of the Morton Facility. Mill Creek is a tributary of the Ohio River, and the confluence of the two streams is located approximately 14 miles, measured along the Mill Creek channel, south of the Morton Facility.

Although Mill Creek currently lies 80 to 100 feet west of the Morton Facility property boundary, this is not its original course. An aerial photograph from April 1949 (Appendix A) shows Mill Creek following a meandering channel approximately 300 feet to the west of its current position. The portion beginning at approximately the Cincinnati Drum property and extending south was rerouted to its current, relatively straight course at some point later than this. A May 1949 map shows the channel in its current location, although possibly illustrating the planned rerouting, suggesting that the rerouting occurred in 1949 or the early 1950s. The northwestern portion of the Morton Facility property that currently extends across Mill Creek apparently extended to the former Mill Creek channel.

A contributing stream enters Mill Creek from the General Electric property to the northwest of the Morton Facility, and surface drainages also enter Mill Creek from the Cincinnati Drum and Pristine properties.

According to the USEPA's contractors (PRC, 1992), none of the on-site drainage from the Morton Facility directly enters Mill Creek. Instead, this drainage enters the existing facility's sewers, discharging into the combined sewer system operated by the Metropolitan Sewer District (MSD). Facility runoff may have historically entered Mill Creek through overflow structures during major storm events; one such overflow is noted on a 1949 facility map (E.A. Gast Engineering Co., 1949). Alternatively, runoff and wastewaters from local facilities have entered Mill Creek through documented on-going failures in the MSD sewer system (Thiokol, 1981).

Mill Creek is not used for drinking water supply or agricultural watering in Hamilton County (PRC, 1992), and no surface water intakes are located within three miles of the Morton Facility (TechLaw, 1998). The creek is, however, occasionally used for recreational purposes (U.S. Army Corps of Engineers, 1990, CDM, 1986).

Stream flow in Mill Creek is variable, as shown by data summarized in the Pristine Remedial Investigation Report (CDM, 1986) for the period October 1980 through September 1983. During this period, the mean monthly discharge for the creek varied from a minimum of 10.3 cubic feet per second (cfs) to a maximum of 336 cfs in May 1983. The recorded instantaneous discharge ranged from 5.3 cfs (September 1983) to 1980 cfs (May 1983). All data were from a gauging station approximately one mile south of the Morton Facility.

A 1994 study (OEPA, 1994) found stream waters pervasively impacted by pesticides, industrial chemicals, sewage, and fecal coliform bacteria. Sediments in the lower 17 miles of the creek (i.e. including approximately 3 miles of Mill Creek upstream of the Morton Facility) contained elevated metals, polychlorinated biphenyls, organics, and pesticides. The study concluded that the lower reaches of Mill Creek were being impacted by a variety of sources, including former landfills (1.2 miles of these landfills directly border Mill Creek), hazardous waste sites, industrial discharge, combined sewer overflows, raw sewage discharges, and general urban runoff. The upper reaches were impacted primarily by suburban and agricultural non-point source pollution.

all of Morton's assets were purchased by Rohm and Haas, and Morton became a wholly-owned subsidiary of Rohm and Haas.

3.2 PERMITTING AND REGULATORY HISTORY

The following discussion is not intended to provide an exhaustive description of every permit or interaction with various regulatory agencies. Rather, it is intended to summarize major permits and actions that directly affect the objectives of the AO and this CCR. A similar summary is provided by the USEPA contractor TechLaw, Inc (1998).

3.2.1 Resource Conservation and Recovery Act (RCRA) Solid Waste Permitting

Thiokol submitted a Part A Application for RCRA Hazardous Waste Treatment, Storage, and Disposal at the Morton Facility on November 17, 1980. This Application was approved in December of 1981 by the USEPA. A State Hazardous Waste Facility Installation and Operation Permit was issued, also in December of 1981, by the Hazardous Waste Facility Approval Board of Ohio.

Thiokol withdrew the Part A Application in September 1982, reverting to a generator-only status. It has operated under that status since that time, with on-site storage of hazardous wastes for less than 90 days. The State Hazardous Waste Facility Installation and Operation Permit expired in 1984.

The Ohio Environmental Protection Agency (OEPA) issued notices of violations regarding non-compliance with RCRA hazardous waste storage procedures during 1991. The violations related to placement of more than one drum at accumulation sites, maintenance of inspection logs, and availability of emergency equipment. An OEPA inspection later in 1991 indicated the facility had achieved compliance on these issues.

A RCRA Facility Assessment (RFA) was performed by the USEPA in 1998, in the form of a Preliminary Assessment/Visual Site Inspection (PA/VSI). The RFA was conducted

by a USEPA contractor, TechLaw, Inc. (TechLaw). The RFA concluded there were 11 Solid Waste Management Units (SWMUs) at the Morton Facility. Of these, all but 4 had a low potential for releases to environmental media. Of the remaining four, two had medium potential for releases, and two (former surface impoundments and an area termed the "Former Swale Area") had high potential. A more detailed description of the sampling and analytical activities performed during the RFA is provided in Section 5.1.11 of this report.

3.2.2 Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Actions

Thiokol provided a Submittal of Notification of Hazardous Waste Site, under Section 103(c) of CERCLA, to USEPA in June of 1981, placing the site on the USEPA's Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS). Based on this listing, the OEPA performed a CERCLA Preliminary Assessment in June of 1986. The Preliminary Assessment conclusions were that only the Upper Aquifer had been impacted by the facility, and that the groundwater collection system was functioning satisfactorily (OEPA, 1986). The site was designated low Field Inspection Team priority, and medium state priority, contingent upon the continued operation of the groundwater collection system.

Further inspections under CERCLA were subsequently performed by the USEPA. These consisted of a Site Screening Inspection (SSI) by Ecology and Environment, Inc. in September 1991, and an Expanded Site Investigation by PRC Environmental Management, Inc. in 1992. The SSI detected elevated levels of chlorobenzene and 1,2-dichlorobenzene (1,2-DCB) in the Upper Aquifer. The ESI concluded that facility activities had released these two compounds, in addition to toluene and other constituents, into the Upper Aquifer. It noted that compounds (primarily 1,2-dichloroethane) detected in the local municipal supply wells did not appear to be originating at the Morton Facility. In addition, it concluded that leachate seeps along Mill Creek may have received

contribution from the Morton Facility surface impoundments, although other facilities to the north were probably contributing to the seeps as well. A more detailed description of the sampling and analytical activities performed during the SSI and ESI is provided in Section 5.1 of this report.

Morton was also identified as a potentially responsible party for the Pristine Superfund Site, based on the shipment of a small amount of facility waste to Pristine. Morton participated in the Federal Consent Decree for Pristine, and provided cash payment as a de minimis party to settle both federal and state actions relating to Pristine.

3.2.3 State and Local Regulatory Activities

Based on the identification of impacted seeps along Mill Creek west of the facility in 1979, the OEPA drilled and sampled soil borings at the facility in June 1980. Based on the sampling and analytical results, they requested in July 1980 that the Morton Facility perform a hydrogeologic investigation and identify an appropriate remedy. Although the hydrogeologic investigation was subsequently performed, the agency issued an administrative order (Directors Final Findings and Orders) to the facility in December 1982 (OEPA, 1991). This order established a timetable for submittal of the investigation findings and a remedial design. Thiokol appealed the order and met with the OEPA; based on this, a second order was issued in January 1983, revoking the first.

The Morton Facility was cited in March 1983 by the Ohio Division of Hazardous Materials Management for illegal discharge of hazardous waste and illegal discharge to state waters. This citation also was related to the suspected presence of facility constituents in groundwater and seeps.

The OEPA issued a Permit to Install (PTI) to the Morton Facility in January 1986 for the installation of a groundwater collection and treatment system. The system had actually been completed in 1985, and was operational at the time of the PTI issuance. A second

Permit to Install was reportedly issued in early 1992 or 1993 for a pH control system. This system (SWMU 9) monitored the pH of the combined storm water and wastewater effluent from the facility, and maintained it between 6 and 10.

Throughout its operational life, the facility has performed discharge of this combined effluent into the municipal sewer system. Permits for this discharge have been issued by the MSD. The MSD permits were modified in 1985 to allow the discharge of recovered and treated groundwater into the combined sewer system. In 1992, civil litigation was initiated against the MSD by a citizens' group, the Ohio Public Interest Research Group, alleging Clean Water Act violations and other claims. As a result of this litigation, Morton International, Inc. entered into a Consent Order with the MSD, OEPA, and other parties regarding the facility's MSD discharge. In order to comply with the requirements of the Consent Order, the Morton Facility installed the pH control system mentioned in the preceding paragraph. The facility has also been fined at that time for a Clean Water Act violation based on toluene exceedances. The Consent Order is still in force, and compliance issues are being reviewed by the National Environmental Law Center.

3.2.4 Air

The Morton Facility has received a large number of air emissions permits for individual operations and structures within the facility (TechLaw, 1998). Currently, all of Morton's active air emissions permits are being incorporated into a Federally Enforceable State Operations Permit, as described in Title V of the federal Clean Air Act Amendments. The Title V Permit application by the facility was certified complete in 2000, and the OEPA is anticipated to issue a draft Permit by early 2001.

3.3 STORAGE TANK USE

The facility currently includes approximately 70 aboveground storage tanks (ASTs). Most of these ASTs are located in three tank farms in the northern portion of the facility, termed the East Tank Farm, North or Middle Tank Farm, and West Tank Farm (Figure 2-5). The Morton Facility utilizes these ASTs for the following purposes:

- Liquid raw material storage;
- Liquid nitrogen storage;
- Liquid product storage;
- Wastewater treatment (primarily separation);
- Fuel storage; and
- Reserve fire fighting water storage.

All ASTs containing hazardous materials are equipped with secondary containment for release detection and control. Certain of the facility's ASTs have been designated as SWMUs by the USEPA Region 5 (TechLaw, 1998). These are discussed in detail in Section 3.4 of this report.

There are currently no active underground storage tanks (USTs) at the facility. Available facility records identify the presence of two closed-in-place USTs at the southeast corner of Building 10 (the Power Plant building) (Figure 3-1). Because these USTs were historically used for heating oil storage, they were reportedly not subject to the Ohio State Fire Marshal's Office, Bureau of Underground Storage Tank regulations. (Chemical Waste Management, Inc., 1992; City of Reading Bureau of Fire Prevention, 1992). Despite this, that Office issued a permit for UST removal in 1992 when Morton commissioned the removal of one of these USTs, and the closure-in-place of the second. During the removal effort, however, excavation collapse threatened the integrity of nearby structures, including a rail spur, building foundations, and a natural gas main.

Based on this, and with the concurrence of the City of Reading Bureau of Fire Prevention, both USTs were therefore internally pressure-washed and vacuumed out, then abandoned in place by filling with concrete. The surrounding excavation was backfilled with a combination of concrete and compacted fill.

During the closure, evidence was observed of heating oil releases from the UST system. This evidence included the presence of a hole in one of the USTs, and field indications of impact to tankhold soils and groundwater by petroleum fuels (Chemical Waste Management, Inc., 1992; Morton; 1992). Excavated tankhold soils were sampled and found to contain low concentrations of aromatics—the total concentration of benzene, toluene, ethylbenzene, and xylenes (BTEX) was 194 micrograms per kilogram (μg/kg). After the tank closure, 57 tons of hydrocarbon-impacted soil from the tankhold were transported to an off-site biotreatment facility. Shallow groundwater from the tankhold area was subsequently sampled and analyzed by facility personnel; no BTEX constituents were detected at quantitation limits ranging from 0.5 to 1.5 micrograms per liter (μg/l).

TechLaw (1998) identified an additional 300-gallon UST formerly used for fork lift fuel storage. Facility personnel report this tank was located west of Building 6, and was removed in the 1980s.

3.4 Solid Waste Management History

A RCRA Facility Assessment (RFA) was performed by the USEPA in 1998. This RFA took the form of a Preliminary Assessment/Visual Site Inspection (PA/VSI) conducted by a USEPA contractor, TechLaw. The findings of this RFA are summarized in the PA/VSI Report (TechLaw, 1998).

The RFA identified eleven SWMUs at the facility. Seven of these were described as having little or practically no potential for environmental releases, typically based on process knowledge and/or engineering controls. The remaining four were identified as

having a medium to high potential for such releases. Table 3-1 lists the SWMUs identified by the RFA and their associated release potential. SWMU locations are shown on Figure 3-1 (SWMUs 1 through 10) and 3-6 (SWMU 11). Several of these SWMUs were subsequently identified as Study Areas in the AO. The following summarizes available information regarding the physical character and operational history of each SWMU.

SWMU 1—Former Surface Impoundments

A series of six surface impoundments were excavated in 1950 for wastewater treatment. Although impoundment areas varied, the typical area of each was approximately 2500 square feet, (E&E, 1991), and they occupied a total area of approximately 21,200 square feet (PRC, 1992). Impoundment depths were estimated at 5 to 6 feet. There is no indication that the impoundments were lined.

The impoundments received wastewaters from scrubbers, centrifuges, floor drains, and processes during the period from 1950 to approximately 1980 (Thiokol, 1983). These impoundments were primarily used to neutralize and dispose of dilute acid solutions. The first two ponds contained crushed dolomite to neutralize acid constituents. Neutralized wastewater then passed through a series of three settling ponds, then into an evaporation/infiltration pond.

Based on correspondence from facility personnel (Thiokol, 1983), the three western impoundments were used in the mid-1960s for the disposal of lime sludge from another facility acid neutralization process. The impoundments were dredged at least once to provide additional capacity. The neutralization impoundments were also periodically dredged and refilled with new limestone. Based on gradual changes in facility waste management practices, the impoundments were dredged and backfilled with soil during

the period from 1970 to 1980. Most of the former impoundment area is now paved with concrete and/or asphalt.

A 1979 letter from Cincinnati Milacron to the OEPA (CMC, 1979a) estimated the daily volume of discharge to the impoundments at approximately 960 gallons. This is generally consistent with internal correspondence earlier in 1979 (CMC, 1979b). In 1979, approximately 95 percent of the discharge was dilute hydrochloric acid, with lesser amounts of methanol and dilute sulfuric acid. The discharge also included a large number of minor constituents, including phenols, various other alcohols, amines, ammonia, ketones, chlorides, benzoic acid, and "soluble oils." Facility correspondence (Thiokol, 1983) also references various alcohols (i.e. myristyl, lauryl, stearyl, isopropyl), sodium bicarbonate washes, "fumes from the benzotrichloride vent scrubber," benzophenones, and various chemical additives as being discharged to the impoundments. 1977 documentation (CMC, 1977) described a lower volume of discharge, equivalent to approximately 550 gallons per day, and noted that process reactor cleanouts were also periodically routed to the impoundment. Copies of the documents detailing the waste streams discharged to the impoundments are included in Appendix D.

The 1998 RFA (TechLaw, 1998) concluded that the former surface impoundments had a high potential for releases, and that data indicated that they were a source of hazardous constituents to groundwater, soil, and sediments. This conclusion was based on the results of soil sampling below the former impoundments, groundwater sampling in their vicinity, and sediment sampling at Mill Creek. The results of historic sampling efforts are described in Section 5.1.

SWMU1 is identified as a Study Area in Paragraph 16 of the AO.

SWMU 2—Former Neutralization Tank

After the surface impoundments were phased out for acid waste stream neutralization in 1980, the Morton Facility neutralized these wastestreams in a 10,000-gallon fiberglass aboveground tank (AST). This AST, designated Tank 9089, is located in the East Tank Farm, along the eastern facility boundary (Figure 3-1). All ASTs within the East Tank Farm, including the Former Neutralization Tank, are placed on a concrete pad and equipped with secondary containment.

Neutralized acid waste streams were discharged from the Former Neutralization Tank into the CSS. After the Morton Facility brought a pH Control System (SWMU 9) on line in 1993 for the treatment of facility-wide wastewater/storm water, use of the Neutralization Tank for wastewater treatment was terminated. Tank 9093 is currently used for intermediate material (dimethyl tin dichloride) storage.

There are no documented releases from the Former Neutralization Tank. The 1998 RFA noted that the integrity of the AST and containment appeared intact during the site inspection. The RFA concluded the potential for past or present releases was low, and that "no further investigation appears necessary, since there is no evidence of a spill or release and secondary containment appeared to be intact at the time of the [Visual Site Inspection]."

SWMU 2 is identified as a Study Area in Paragraph 17 of the AO.

SWMU 3—Former Drum Storage Area

This area was historically used for the storage of drummed solid wastes under 90-day accumulation, in accordance with the Morton Facility's generator status. It is located on the north boundary of the facility, overlying the former location of the easternmost three surface impoundments (SWMU 1) (Figure 3-1). The 1982 Closure Plan submitted to the

Ohio Division of Hazardous Materials Management by the facility (Thiokol, 1982) described the Former Drum Storage Area as having dimensions of approximately 130 by 65 feet. The 1998 RFA noted that the area was paved with concrete and curbed, although the concrete was reportedly cracked in several spots. The facility's 1981 State of Ohio Hazardous Waste Facility Installation and Operation Permit (Ohio Hazardous Waste Facility Approval Board, 1981) estimated the area would annually manage:

- Flammable wastes—100 to 275 tons of D001 wastes;
- Corrosive wastes—800 tons of D002 wastes;
- Reactive wastes—40 tons of D003 wastes;
- Methanol wastes—75 tons of U154 wastes; and
- Listed spent halogenated and non-halogenated solvent wastes—100 tons of F001 wastes, 400 pounds of F003 wastes, 10 pounds of F004 wastes, and 10 to 70 tons of F005 wastes.

The use of this area for drummed hazardous waste storage reportedly began in or around 1980, and ended in 1992, in favor of the current Hazardous Waste Drum Storage Area (SWMU 4).

Although no releases were documented for this SWMU, the RFA designated it to have a moderate potential for past or present releases, based on the presence of cracks in the concrete slab. Given this area's location (within the boundaries of SWMU 1), the two SWMUs could be readily addressed by a single assessment.

SWMU 3 is identified as a Study Area in Paragraph 18 of the AO.

SWMU 4—Hazardous Waste Drum Storage Area

Like SWMU 3, SWMU 4 was used for the storage of drummed solid wastes under 90-day accumulation. It is located in the west central area of the facility, near Buildings 24 and 29 (Figure 3-1). The 1982 Closure Plan submitted to the Ohio Division of Hazardous Materials Management by the facility (Thiokol, 1982) described the Hazardous Waste Drum Storage Area as having dimensions of approximately 24 by 12 feet, but noted that it was part of a larger storage area used for raw materials and process intermediates. By the 1998 RFA (TechLaw, 1998), the area had been improved with a storage building constructed specifically to comply with modern management practices for drummed hazardous waste storage. The building is roofed, floored with concrete, and is walled on three sides; the open side is enclosed by heavy plastic sheeting to allow fork lift traffic, but restrict vapor or dust migration. It is constructed to provide containment of liquid releases. The facility's 1981 State of Ohio Hazardous Waste Facility Installation and Operation Permit (Ohio Hazardous Waste Facility Approval Board, 1981) estimated the area would annually manage up to 175 tons of flammable (D001) wastes. The RFA described 1998 waste management as consisting of 30 to 40 drums of flammable (D001) wastes, a partial drum of other corrosive and toxicity wastes (D002, D004, D007, and D008), and an unspecified quantity of spent non-halogenated laboratory solvents (F003 and F005). Use of the area for hazardous waste drum storage reportedly commenced around 1980, and continues today.

There are no documented releases from the Hazardous Waste Drum Storage Area. The 1998 RFA concluded the potential for past or present releases was low, and that "no further investigation appears necessary, since the Hazardous Waste Drum Storage Area (SWMU 4) is covered, contained by walls and a trench system, and there is no evidence of a spill or release from the unit." SWMU 4 is not identified as a Study Area in the AO, and the AO does not require any further evaluation of this unit.

SWMU 5—Former Sulfide Waste Treatment Tank

SWMU 5 is a steel 10,000-gallon AST, designated Tank 9111, and located in the northeastern portion of the site, within the North or Middle Tank Farm (Figure 3-1). The Former Sulfide Waste Treatment Tank is positioned on a concrete surface, and was equipped with secondary containment curbing for release control in 1992. According to the 1998 RFA (PRC, 1998), the Tank was used from 1980 to 1986 or 1987. SWMU 5 is reported to have stored approximately 40,000 gallons of high pH wastewater each year. This wastewater was generated from the sulfurization of fats and oils, and was subsequently transported off-site for disposal. This AST is currently used for fuel oil storage.

There is some inconsistency with regard to the early history of this SWMU in the context of sulfide waste management operations. The ESI Report (PRC, 1993) states that the facility utilized several tanks in the northeast portion of the site for sulfide waste treatment and storage. This report further states that these activities were the basis for the Morton Facility's Part A Permit application.

This is not completely consistent, however, with facility documents from 1982, which describe the hazardous waste management activities during the period November 1980 through September 1982 (Thiokol, 1982a & b). As discussed in Other Waste Management and On-site Waste Disposal Factors below, these documents describe a single tank for the storage of reactive wastes, a second for the storage of corrosive wastes, and a third used for separation of separate-phase organic liquids. These descriptions do not immediately suggest "sulfide waste treatment and storage." In any case, if other tanks were used for sulfide waste treatment and/or storage, it seems likely that they also would have been located within the North Tank Farm with SWMU 5.

The Former Sulfide Waste Treatment Tank is currently used for fuel oil storage. The 1998 RFA noted that its integrity appeared intact. The RFA further concluded that "[no]

further investigation appears necessary, since the structural integrity of the tank appeared intact and there is no evidence of a spill or release from the unit." SWMU 5 is, however, identified as a Study Area in Paragraph 19 of the AO.

SWMU 6—Groundwater Collection System

Based on negotiations in the early 1980s between Thiokol and the OEPA regarding environmental impact at the Morton Facility, Thiokol agreed to install a hydraulic control system in the western portion of the facility. The purpose of this system was to reduce or eliminate the volume of impacted groundwater migrating to seeps on the eastern bank of Mill Creek. The system became operational at full-scale in 1985 (Thiokol, 1986) and has operated with only brief hiatuses since that time. SWMU 6 consists of four major components:

- A french drain extending to a nominal depth of approximately 21 feet, across the uppermost saturated zone. The french drain lies generally along the western property boundary.
- A collection sump at the southern extremity of the french drain. Groundwater is pumped from the french drain at this location, removing it from the Upper Aquifer.
- An Upper Aquifer extraction or recovery well in the west-central portion of the facility, at the former location of a "swale" area reportedly used for on-site waste disposal (see SWMU 11 discussion, below). A submersible pump within this well removes groundwater, pumping it via underground transfer piping to the french drain sump.
- A slurry wall, also to a nominal depth of approximately 21 feet. The slurry wall extends for approximately 350 feet along the northern property boundary.

The locations of these components are shown in Figure 3-1. A discussion of the impact detected along the Creek and in the shallow groundwater is provided in Section 5.2 of this report, and the groundwater collection system is discussed further in Section 7.1.

SWMU 6 does not manage facility wastes per se, but does collect, store, and transfer waste and hazardous material constituents from the subsurface to a groundwater treatment system (SWMU 7). Groundwater collected from this system has historically contained high concentrations of organics (Table 3-2). Concentrations of certain metals may also be elevated, but in the absence of a well-defined site-specific background, it is not possible to make a definitive statement in this regard. Although some portion of these constituents are believed to have originated on-site, it should also be noted that there is not currently sufficient on-site data to evaluate the contribution of potential off-site sources (i.e. Cincinnati Drum, Pristine, et al.).

The RFA did not identify any releases from this SWMU. Given the physical nature of this operation, releases could only occur from groundwater transfer piping. Because collected groundwater is transferred to a treatment system located immediately upgradient of the french drain, any such releases would be recaptured by the system. Presumably in recognition of this, the RFA further noted that the potential for past or future releases from this system is low, and did not recommend any investigation. It did recommend, however, that the system continue to operate as long as necessary to control the off-site migration of impacted groundwater.

With SWMU 7, SWMU 6 is identified as a Study Area in Paragraph 20 of the AO.

SWMU 7—Groundwater Treatment Unit

As noted under the SWMU 6 discussion, Upper Aquifer groundwater is collected by a french drain and extraction well, both in the western portion of the facility, and transferred via underground piping to an on-site treatment plant. The Groundwater Treatment Unit was constructed at pilot scale in 1984, then full scale in 1985. The purpose of this Unit was to render groundwater suitable for permitted discharge (with the balance of the facility's effluent) into the MSD sewer (Morton Thiokol, 1984). The initial

treatment was the addition of a concentrated hydrogen peroxide solution to the recovered groundwater, in order to oxidize organics and reduced inorganics (particularly sulfides).

The MSD permit to discharge treated groundwater apparently expired on May 1, 1991, although discharge was allowed to continue on a conditional basis until May 1, 1992 (Municipal Sewer District, 1991). During this period, and as a part of efforts to improve compliance with MSD discharge criteria, the Morton Facility enhanced the treatment of recovered groundwater. Additional treatment consisted of carbon adsorption, bag filtration, and softening. At approximately the same time, the Morton Facility began efforts to identify a reuse for the approximately 12,200 gallons per day of treated groundwater. The reuse selected was as make-up non-contact cooling water in a recirculating cooling tower; as of 1990, the facility required an average of 24,900 gallons of make-up water each day (Morton, 1991).

Facility personnel have voluntarily performed regular sampling of the influent and effluent water quality since at least 1993 to verify the effectiveness of the treatment system. The resulting analytical data is summarized in Table 3-2.

The RFA did not identify any releases from SWMU 7, but did note verbal reports by facility personnel that the treated groundwater would be released from the cooling system via evaporation and overflows (presumably minor). As shown in Table 3-2, this treated groundwater may contain low levels (aggregate concentration of metals and organics at less than 1 milligram per liter, or mg/l) of a small number of hazardous constituents.

The RFA did not recommend any investigation of this SWMU, but did recommend that the water quality testing program be continued on a mandatory basis. With SWMU 6, however, SWMU 7 is identified as a Study Area in Paragraph 20 of the AO.

SWMU 8—Satellite Waste Accumulation Unit

There are five Satellite Waste Accumulation Areas at the Morton Facility, each consisting of a single drum. These are located within Buildings 3, 4, 6, 11/12, and 27 in the eastern portion of the facility (Figure 3-1). These Areas are used for temporary storage of drummed hazardous wastes, pending their consolidation at the Hazardous Waste Drum Storage Area (SWMU 4). These areas reportedly manage flammability (D001), toxicity (D004, D007, D008), and spent non-halogenated solvent (F003, F005) wastes (TechLaw, 1998). They have been used for this purpose since 1982.

The RFA designated SWMU 8 as having a low potential for past or present releases. It further concluded that "[no] further investigation appears necessary, since all Satellite Waste Accumulation Areas . . . are located over concrete surfaces and there is no evidence of past or present spills or releases from the units." SWMU 4 is not identified as a Study Area in the AO, and the AO does not require any further evaluation of this unit.

SWMU 9—pH Control System

As discussed in Section 3.2.3 of this report, civil litigation was filed against the MSD for Clean Water Act violations. As a part of the resolution of this litigation, the Morton Facility entered into a Consent Order addressing facility discharge to the MSD. To minimize excursions from permitted discharge criteria, the facility installed and operated the pH Control System. The System was placed to treat process wastewaters discharging to the facility's west outfall (see discussion of SWMU 11—Combined Sewer System).

The Morton Facility commission a siting investigation prior to construction of the pH Control System. This investigation was performed in November 1992 by IT Corporation, and identified acetone, toluene, ethylbenzene, and xylenes in one soil sample at a depth of

8 to 14 feet (see Section 5.1.10 of this report). Groundwater was encountered at a depth of 10 to 12 feet below grade.

The pH Control System came on line in 1993. It consists of two lined concrete sumps in series, with automated pH monitoring and metering of caustic or acid addition. pH-adjusted water is discharged from SWMU 9 into the MSD.

The RFA designated this SWMU to have a low potential for past or present releases, based on the construction of the unit. It did not recommend any further investigation of the pH Control System.

With SWMU 11, SWMU 9 is identified as a Study Area in Paragraph 21 of the AO.

SWMU 10—Former Swale Area

As depicted in the 1949 topographic map and 1949 aerial photograph (Appendix A) of the Morton Facility, the Former Swale Area is a broad, irregular depression, including at least one small pond. Topographically, the base of this depression was approximately 14 feet below the higher terrain to the east and southeast, and 3 to 5 feet below the terrain to the west and northwest. It was located near what is now the northwest portion of the employee parking lot, in the southwest/west central area of the facility (Figure 3-1). No physical expression of the Former Swale Area still remains. This location is frequently referred to in documents from the 1980s and 1990s as the MW-2 area.

There have been historical allegations and documentation regarding waste disposal activities at this area. Given its physical nature, the RFA notes it may readily have been used for the disposal of dairy wastes prior to the Morton Facility's construction in 1949. A 1983 letter from Thiokol (Thiokol, 1983) noted that the area probably contained construction rubble, portions of a demolished barn from the former dairy (including metal debris), and fill dirt. It further stated that the area had never been used for formal

chemical waste disposal; but acknowledged that such activities may have historically occurred. An interoffice memorandum (Thiokol, 1980a) and attached backup notes described the disposal of neutralized acid wastes (lime sludge), demolition debris, sample bottles, excavated soils, and "possibly some drums" at this location during the 1950s and early 1960s. A former employee engaged in litigation against Thiokol alleged that hundreds of fiber and metal drums of waste were buried in this area, at depths of up to 15 feet (PRC, 1993; E&E, 1991). Finally, the disposal of optical brightener waste at this location is referenced in 1982 OEPA correspondence to the facility.

Metal detector surveys were performed in the Former Swale Area by the OEPA and a USEPA contractor in 1980 (OEPA, 1980; E&E, 1982). Although these surveys did detect scattered areas of apparent buried metals, including an area with approximate dimensions of 50 feet by 100 feet in the northwest corner of the parking lot, subsequent drilling did not encounter drums or waste materials.

It is clear, however, that soils and groundwater in the former swale area are impacted with organics and possibly metals. Sample data from investigations throughout the 1980s identified relatively high levels of hexachlorobenzenes, hexachlorobutadiene, hexachloroethane, and toluene in groundwater from this location. Arsenic, chromium, lead, and other inorganics may also have been elevated. Sampling during the ESI (PRC, 1993) detected acetone, chlorobenzene, 1,2-dichlorobenzene, nickel, and vanadium in groundwater from Former Swale Area wells. Historical groundwater analyses for the facility are discussed in Section 5.1 of this report.

In response to the presence of groundwater impact, the Morton Facility installed the extraction well component of the Groundwater Collection System (SWMU 6) within the Former Swale Area. This well has been removing impacted groundwater since 1985.

The RFA concluded that it was likely that the detected groundwater impact was originating within the Former Swale Area, and designated it as having a high potential for past or present releases. It further concluded that continued groundwater recovery may be effective in containing the area of impact, and recommended further subsurface investigation of this SWMU.

SWMU 10 is identified as a Study Area in Paragraph 22 of the AO.

SWMU 11—Combined Sewer System

The CSS is a complex of underground piping underlying most of the process and other operational areas of the Morton Facility (Figure 2-6). Although most of this piping system is still active, certain portions are no longer used. The CSS collects and transports sanitary, storm water, and process wastewater to one of two facility outfalls: one on the western facility boundary, and one on the southern facility boundary. Process wastewater discharging via the western outfall are treated by the pH Control System (SWMU 9). All discharge from both outfalls is transported by the MSD main to the Mill Creek Wastewater Treatment Plant owned by Hamilton County and operated by the City of Cincinnati.

There is no definitive information on the age or integrity of the CSS. Given its complexity and extent, however, it is reasonable to conclude that portions of it were probably constructed with the initial facility. The presence of some kind of sewer system outfall is suggested by the overall configuration of the property, with a long, narrow "peninsula" extending to the former channel of Mill Creek. A similar pattern is present along the western property boundary of Cincinnati Drum. The balance of the CSS was presumably constructed in stages as the facility expanded during its 50 years of on-going operations. Figure 2-6 summarizes available information regarding the size and material of construction of CSS components. Facility personnel anticipate that the CSS will be upgraded to new MSD criteria, with separate systems to discretely manage stormwater vs.

industrial and sanitary wastewater. Upgrades are anticipated to be in place prior to the MSD permit renewal in 2002.

The RFA (TechLaw, 1998) references the presence of four floor trenches and two weir pits that collect process wastewaters into the CSS. These wastewaters include acids, amines, esters, waxes, alcohols, fats, vegetable oils, phenols, and other constituents.

Based on the potential for underground leakage of wastewater from the CSS, and absence of information regarding its integrity, the RFA concluded that this SWMU has a moderate potential of past or present releases. The RFA recommended that the integrity and construction of the CSS be evaluated, and that the construction and wastes managed be inventoried for each CSS component.

With SWMU 9, SWMU 11 are identified in the AO as Study Area 21.

Other Waste Management and On-Site Waste Disposal Features

In addition to the SWMUs described above, there are several waste management and disposal areas described in facility documentation from the late 1970s through early 1980s. These areas are listed on Table 3-1, and their locations are shown on Figure 3-1. Available information regarding the activities at each is summarized as follows:

- 5000-Gallon Ignitable Waste Storage Tank—This AST was located in the northeast area of the facility. The 1982 Closure Plan (Thiokol, 1982b) referred to the contents of this AST as "ignitable waste," but also noted that this material was anticipated to be beneficially recycled in the facility. Later 1982 correspondence to the USEPA (Thiokol, 1982) confirms that this recycling was performed, and specifies that the material should therefore "not be considered a RCRA hazardous waste." This AST is not currently in use for waste storage; it is not known when storage activities were terminated.

- 12,000-Gallon Reactive Waste Storage Tank—This AST was located in the northeast area of the facility. As with the Ignitable Waste Storage Tank, the 1982 Closure Plan referred to the AST contents as "reactive waste," but noted the

anticipated on-site beneficial recycling of these materials. Supporting correspondence (Thiokol, 1982b) indicates that the material was being "beneficially recycled by a third party." This AST is not currently in use for waste storage; it is not known when storage activities were terminated.

- Wastewater Treatment Tank—This AST was located in the northeast portion of the facility and its size is not specified in available documentation. It had a wastewater treatment capacity of 59,000 gallons per day, but was only used intermittently when a specific manufacturing process was active. Treatment consisted of separation of phase-separated organic liquids from the wastewater, followed by wastewater discharge into the CSS (Thiokol, 1982b). By September 1982, however, the process which required this treatment was changed, and the Treatment Tank was no longer used (Thiokol, 1982a).

Waste Disposal Areas—A 1980 Thiokol memorandum (Thiokol, 1980a) and attached documentation inventory the locations and contents of several on-site locations historically used for waste disposal. The locations of these disposal areas, identified as Waste Burial Areas A through G, and a summary of the reported contents, are provided on Figure 3-1. Although disposal activities varied considerably from location to location, they typically consisted of the placement of two to three drums, sample bottles, demolition debris, and other materials into an excavation. Except at one location (see Figure 3-1), there is no record of these materials being disinterred. One area, designated 'B' on Figure 3-1, was reportedly also used for the burning of waste solvents. Small amounts of laboratory wastes and other materials were noted in an area near Building 27.

One area not shown on Figure 3-1, but identified in the 1980 memorandum, was located near the current placement of Building 40, in the southwest area of the facility. This area was noted as having stockpiles of concrete rubble and clean fill. Given the nature of these materials, this is not considered a waste disposal area.

3.5 Spill History

No documentation of spills are present in the OEPA regulatory files. The RFA (TechLaw, 1998) documents statements by the former Manager of Health, Safety, and

Environmental for the Morton Facility that no chemical spills occurred during the period 1983 and 1991. Current facility personnel indicate that minor spills do routinely occur, but are either within containment or onto pavement.

Because of the prevalent use of pavement, curbing, and other secondary containment features in the storage and operational areas of the site, it is likely that the bulk of any spilled chemicals would have been contained and/or routed to the CSS.

One exception is the releases noted in a memorandum discussing elevated tin concentrations in surface soils in the late 1970s (CMC, 1979b). This memorandum noted aqueous tin chloride line leaks, leaks from storage drums, and spills from equipment failures. These releases occurred in the vicinity of Buildings 12, 19, 26, and 27.

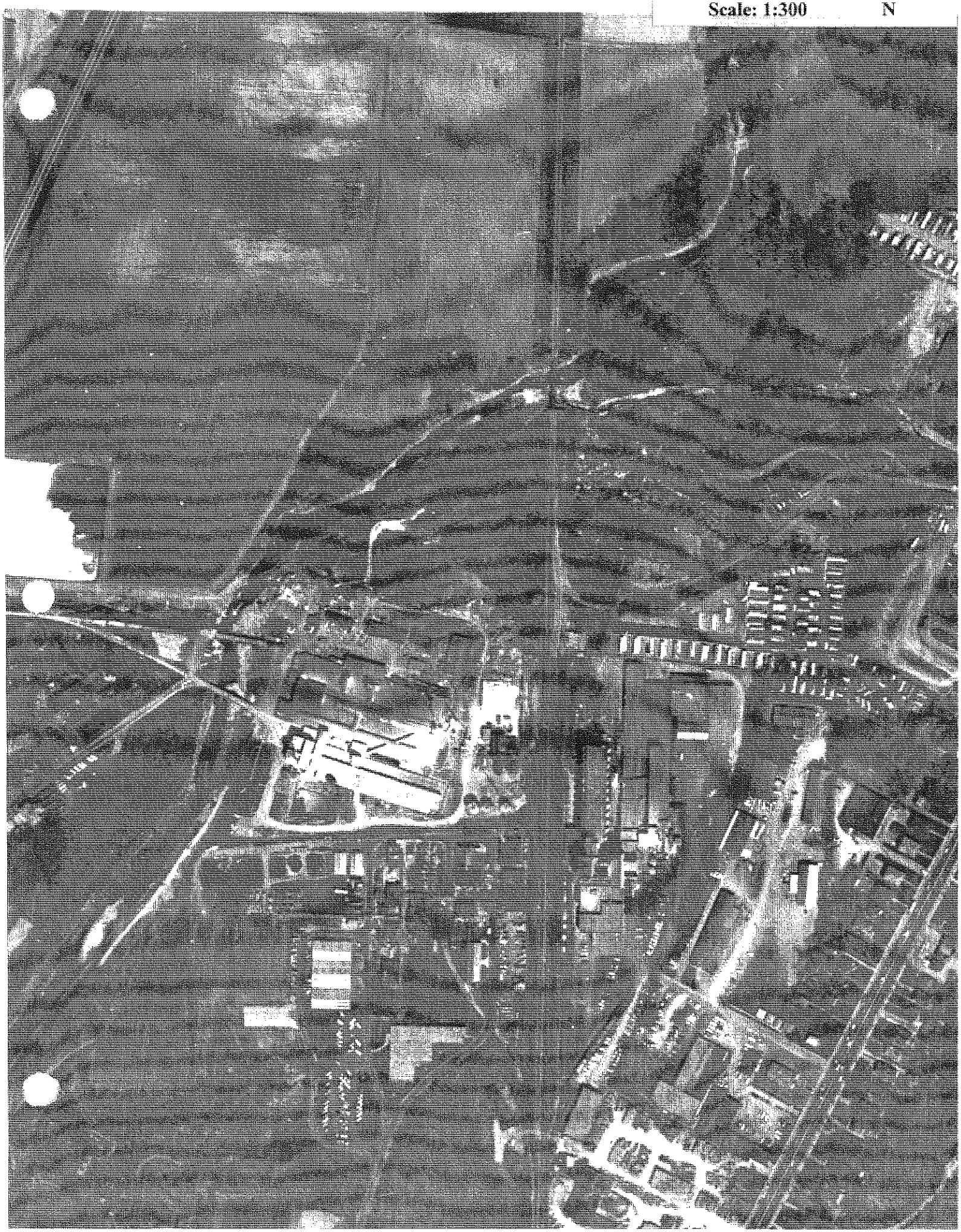
APPENDIX A

AERIAL PHOTOGRAPHS

Date: 4/9/49
Scale: 1:300

Date: 4/19/60
Scale: 1:300

↑
N



Date: 4/10/70
Scale: 1:300

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N

Date: 4/1/94
Scale: 1:500

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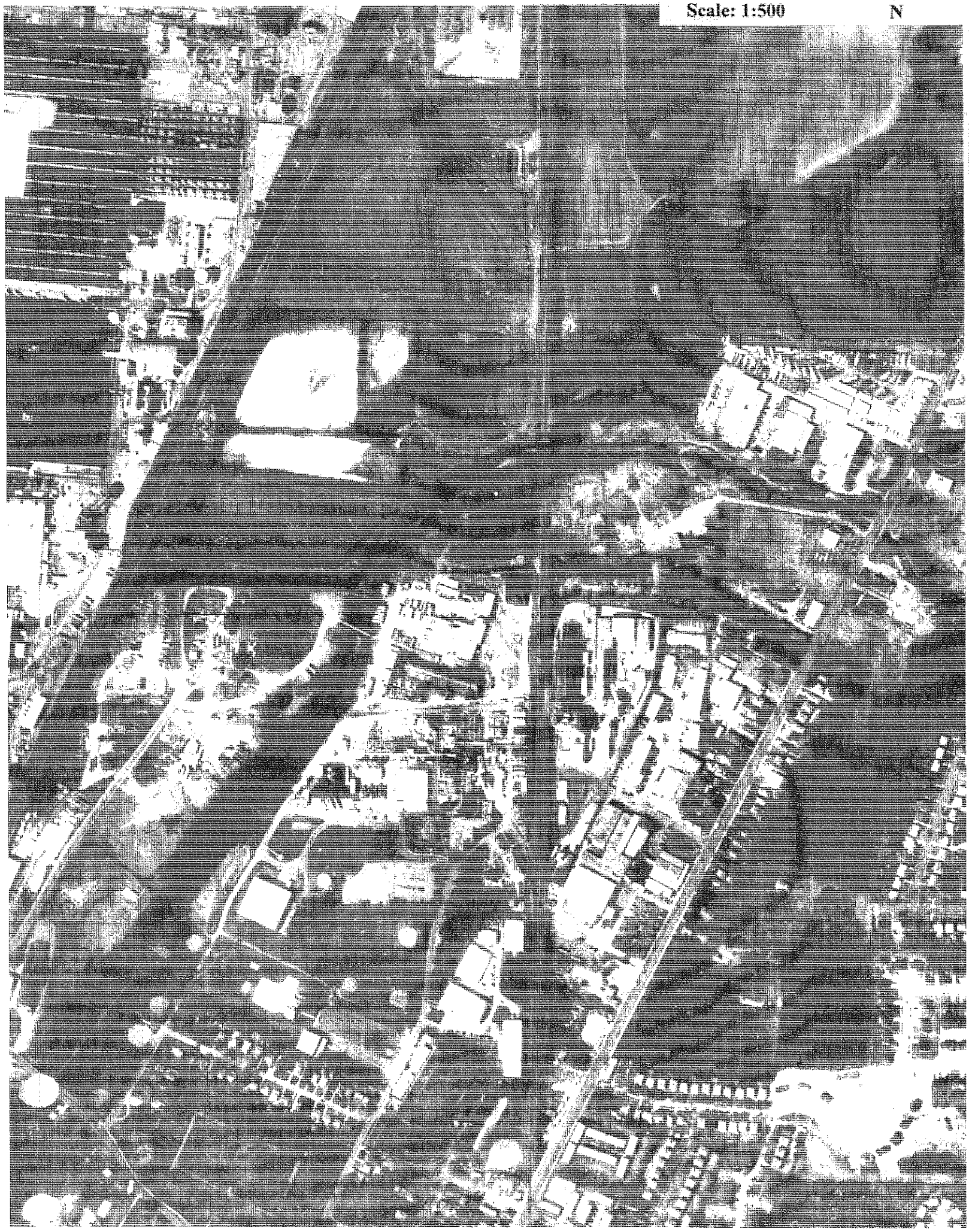


4.0 KNOWN AND POTENTIAL OFF-SITE SOURCES OF ENVIRONMENTAL IMPACT

As discussed in Section 2.1, the Morton Facility lies in a predominantly industrial area. Like the Morton Facility, a number of the neighboring and nearby properties or historic operations represent potential or known sources of environmental impact. The purpose of this section is to discuss known or likely off-site sources that may be pertinent to the evaluation of impact at the Morton Facility.

4.1 THE PRISTINE SUPERFUND SITE

The Pristine Superfund Site (Pristine) is located adjacent to the northeast portion of the Morton Facility; the two properties share approximately 220 feet of common boundary (Figure 2-2). Pristine shares a common boundary with Cincinnati Drum, and the two properties are owned by the same party (Figure 2-3). Both the Pristine and Cincinnati Drum properties were originally operated by International Minerals and Chemicals, Inc.; the Pristine area was formerly part of a sulfuric acid manufacturing facility, while the Cincinnati Drum area was formerly used for fertilizer manufacture. Compared to neighboring Morton and Cincinnati Drum properties, Pristine is fairly small at approximately 5 acres.

Pristine, Inc., utilizing the Pristine property under lease, began licensed liquid waste disposal in 1974. The operation received a permit to operate a liquid waste incinerator in 1977. OEPA inspections in 1979 noted the presence of an estimated 8000 to 10,000 drums on the 5-acre site. After frequent complaints by neighboring properties and the City of Reading, and numerous violations noted by state and federal regulatory personnel, the waste management activities were terminated under the terms of a Consent Agreement in September 1981.

A removal action was performed during the period June 1980 to July 1984. USEPA contractors removed most of the on-site waste and approximately 620 to 725 cubic yards

of on-site sludges; materials removed included "paint sludges, lab packs, flammable solvents, cyanide wastes, pesticides, chlorinated solvent sludge, DDT, "neutralized" acid sludge, PCB-contaminated soils, incinerator ash, solvent/sludge mixture and unknown waste mixtures . . . "(CDM, 1986). A more complete tabulation of on-site waste types from the Remedial Investigation Report (CDM, 1986) is included as Appendix C of this report.

Pristine was placed on the National Priorities List (NPL) in December 1982. Initial activities, including the Remedial Investigation, were performed by USEPA contractors and consultants. During the 1990s, a Potentially Responsible Party (PRP) Steering Committee assumed primary responsibility for site activities, under USEPA oversight. Based on a volumetric ranking, the primary PRPs were Eli Lilly and Co., Formic Corporation, and Procter & Gamble.

Although the initial RI activities occurred during the mid-1980s, a great deal of supplemental assessment, especially of groundwater impact and the character of the Lower Aquifer, was performed by PRP Steering Committee consultants during the 1990s. The primary consultant during this period was Conestoga-Rovers & Associates (Conestoga-Rovers) of Waterloo, Canada. It should be noted that most of the Upper Aquifer subsurface investigation was focused on the Pristine and Cincinnati Drum properties—Pristine investigations of the Upper Aquifer did not extend onto the Morton Facility, although impacted Upper Aquifer groundwater appears to have been flowing from Pristine onto the Morton Facility (CDM, 1986). Pristine assessments of the Lower Aquifer did include the installation of several monitoring wells and well clusters on the Morton Facility (Figure 4-1).

Assessment of sediment, surface and subsurface soils, surface water, and groundwater identified impact from a wide suite of volatile and semivolatile organics, pesticides, polychlorinated biphenyls (PCBs), furans and dioxins, metals, and other chemical types. Summaries of constituents detected at the site are provided in Appendix C.

The constituents observed in shallow media (i.e. surface and near-surface soils, sediment, surface water) included:

- Volatile Organics (VOCs)—benzene, chlorobenzene, 1,1-dichloroethene (1,1-DCE), 1,2-dichloroethane (1,2-DCA), 1,2-dichloropropane, 2-hexanone, 4-methyl-2-pentanone, methylene chloride, trichloroethene (TCE), 1,1,1-trichloroethane (TCA), tetrachloroethene (PCE), styrene, toluene, vinyl acetate, xylenes;

- Polycyclic Aromatic Hydrocarbons (PAHs): benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, fluorene, fluoranthene;

- Other Semivolatile Organics (SVOCs): phenol, aniline, 1,2- and 1,4-dichlorobenzene, 2-methylphenol, 4-methylphenol, 2-nitrophenol, N-nitrosodiphenylamine, benzoic acid, pentachlorophenol, di-n-butylphthalate, bis(2-ethylhexyl)phthalate.

- Pesticides: aldrin, lindane, dieldrin, 4,4'-DDE, 4,4'-DDD, 4,4'-DDT, endrin ketone, heptachlor, chlordane.

- Metals (apparently elevated): arsenic, chromium, cadmium, lead, mercury, vanadium, zinc.

Upper Aquifer groundwater impact reported in the 1986 RI Report (CDM, 1986) included:

- Volatile Organics (VOCs)—acetone, benzene, 2-butanone, chloroform, chlorobenzene, 1,1-dichloroethane (1,1-DCA), 1,1-DCE, 1,2-dichloroethane (1,2-DCA), 1,2-dichloropropane, 2-hexanone, 2-methyl-4-hexanone, methylene chloride, trichloroethene (TCE), 1,1,1-trichloroethane (TCA), tetrachloroethene (PCE), styrene, toluene, vinyl chloride, xylenes.

- Semivolatile Organics (SVOCs): hexachloroethane, 1,2- and 1,4-dichlorobenzene, 2,4-dimethylphenol, 2- and 4-methylphenol, 2,6-dinitrotoluene.

- Pesticides: aldrin, lindane, 4,4'-DDD, toxaphene, beta-BHC, delta-BHC.

Summaries of groundwater analyses from groundwater monitoring from the early 1990s through the present are provided in Table 4-1. During this period, the primary focus of monitoring and remediation has been on several dissolved VOCs, especially chloroform and 1,2-DCA. Lower Aquifer impact from these dissolved VOCs extends approximately one mile to the south from Pristine.

Remedial action was resumed at the Pristine site in various stages during the late 1990s (Conestoga-Rovers, 2000b). Approximately 13,000 tons of soil was excavated and thermally treated, and an engineered cap was constructed over soils remaining in place. Soils that could not be practicably removed are being addressed through the implementation of a soil vapor extraction system. This system is also believed to be generally dewatering approximately the upper 35 feet of the Upper Aquifer (Conestoga-Rovers, 1995). This dewatering will have modified or even reversed historical groundwater gradients within this zone.

Groundwater in the Lower Aquifer is being hydraulically controlled through the installation and operation of several groundwater extraction wells. Three of these wells (EW-1, -2, and -3) are located on or immediately adjacent to the Morton Facility (Figure 4-1); the zone of capture from these wells in the Lower Aquifer extends under the entire Morton Facility (Appendix C). The groundwater extraction system collects groundwater at a typical rate of 500,000 to 800,000 gallons per day, and transfers it via underground piping to a treatment system located on the Pristine site. The treated groundwater is then discharged to Mill Creek under the terms of a USEPA National Pollution Discharge Elimination System (NPDES) Interim Effluent Limitation.

In summary, the Pristine Superfund Site must be considered a known source of impact to groundwater at the Morton Facility. Pristine has historically been immediately upgradient of the Morton Facility, both for the Lower Aquifer and the primary transmissive portions of the Upper Aquifer. Lower Aquifer groundwater at the Morton Facility contains

constituents derived from Pristine, and is being addressed by the Pristine remedial action. Upper Aquifer groundwater is documented to have flowed on-site from Pristine waste management areas immediately adjacent to the Morton Facility boundary (CDM, 1986). A 1992 assessment by a USEPA contractor identified elevated metals and SVOCs in a surface soil sample from the northeast corner of the Morton Facility, near the Pristine boundary (PRC, 1993). This assessment concluded that "the results of [this sample] indicate that some of the contaminants in surficial soils at [the Morton Facility] could have originated off site . . . ."

4.2 CINCINNATI DRUM FACILITY

As noted in the preceding discussion of Pristine, the Cincinnati Drum property was formerly part of an International Minerals and Chemicals fertilizer/sulfuric acid manufacturing facility. The Cincinnati Drum property is owned by Jeffery D. and Pauline Long, who also own the Pristine site. Cincinnati Drum accepts drums and recycles them for reuse; these activities have been performed since at least the late 1970s.

Environmental conditions at the Cincinnati Drum facility has been examined to a limited extent as a part of Pristine assessments. This has included the installation of Upper Aquifer wells (Figure 4-1), and the sampling of sediment, soils, surface water, and groundwater. This assessment has identified pervasive impact by Pristine constituents. A 1980 assessment by an OEPA contractor (E&E, 1982), which included limited sampling on the Cincinnati Drum facility, identified elevated metals, PCBs, and various organics in shallow samples from that facility.

Minimal information was identified regarding historic waste and chemical management at Cincinnati Drum facility. OEPA regulatory files on the facility are very limited. A 1960 aerial photograph (Appendix A) shows the presence of a large pond or surface impoundment (approximately 7500 square feet) on the Cincinnati Drum facility, approximately 100 feet north of the former Morton Facility surface impoundments.

As discussed in Section 2.6 of this report, impacted seepage has been historically identified along the eastern bank of Mill Creek. Although the current status of these seeps is not known, the primary location of this seepage has been at or near the intersection of the Morton Facility/Cincinnati Drum property boundary and the east creek bank. Operational areas at both Cincinnati Drum and the Morton Facility would be considered hydraulically upgradient of this seep area.

In summary, Cincinnati Drum should be considered a potential source of impact to Morton Facility groundwater. It is immediately upgradient with respect to the Lower Aquifer, and previous assessments have identified evidence of shallow impact on the Cincinnati Drum facility. Minimal information is available on historic waste management activities, but aerial photographs indicate surface impoundment use.

4.3 Undifferentiated Sources of Impact North Along Mill Creek

As discussed in Section 2.6 of this report, previous studies have identified pervasive industrial and non-point source type impact to Mill Creek throughout its lower 17 miles (the Morton Facility lies approximately 14 miles upstream from Mill Creek's terminus). As a result, surface water, stream sediments, and creek flora and fauna near the Morton Facility are anticipated to be impacted. Sources upstream of the Morton Facility are or have been contributing to this anticipated impact. During a 1980 assessment by an OEPA contractor, for example, high concentrations of both carbon tetrachloride (47 μg/l) and TCA (450 μg/l) were detected in surface water upstream of both the Morton and Cincinnati Drum facilities (E&E, 1982).

4.4 City of Reading

Two areas of historic waste disposal are located on City of Reading property in the immediate vicinity of the Morton Facility. These are:

- The former municipal well field located immediately north of Cincinnati Drum, which was formerly used for the disposal of fly ash and foundry sand from the City incinerator (CDM, 1986). 1980 surface soil sampling at the well field identified low concentrations of various chlorinated organics and possibly elevated mercury. A 1992 assessment by a USEPA contractor (PRC, 1993) observed approximately 15 discarded, crushed, and corroded drums on the property. The only legible drum label was for methylene chloride.

- Soil piles located on City of Reading property adjacent to the southwest Morton Facility property boundary, east of Mill Creek. An assessment by a USEPA contractor (PRC, 1993) found that the soil piles contained various analytes (primarily PAHs and metals), but at concentrations below or comparable to those measured in background sampling. This assessment concluded that the soils were placed on the City property by several parties, including Carstab, although information regarding their origin was vague. It further concluded that "information available at this time does not indicate that the piles contain significant concentrations of hazardous substances that can be definitively attributed to Carstab."

Based on current data and their physical location, there is no evidence that either of these City of Reading sites are contributing to on-site impact at the Morton Facility.

5.0 PRELIMINARY ASSESSMENT OF THE NATURE AND EXTENT OF CONTAMINATION

The Morton Facility has been investigated by various parties since 1979. This section briefly describes the scope and findings of these investigations, and summarizes the known extent of chemical impact to air, soils, groundwater, surface water, and stream sediments. Please note that this summary is intended to capture significant investigative work, and not to provide an exhaustive list of every inspection or sample collected at the facility.

5.1 PREVIOUS INVESTIGATIONS

Figure 2-5 illustrates historical sampling locations for soils, sediments, and groundwater. Table 5-1 summarizes the historical investigations. Sampling methods include surface soil sampling, sediment sampling, soil borings, and permanent and temporary monitoring wells. Table 5-2 summarizes construction data for on-site monitoring wells. Appendix E contains selected on-site boring and monitoring well logs. Figure 5-1 shows potentiometric surface contours as determined by water level measurements from on-site monitoring wells. Soil and groundwater analytical data from these investigations are summarized on Figures 5-2 through 5-7, and in Tables 5-3 through 5-8. Hydrogeologic data developed by these investigations is summarized in Table 2-1.

More detailed descriptions of individual investigations are provided in the following sections.

5.1.1 Cincinnati Milacron Chemicals, Inc. Tin Sampling

Cincinnati Milacron performed on-site surface soil and Mill Creek sediment sampling during 1976 (CMC, 1979b). Surface soil sampling was repeated in 1978, after limited soil removal. Surface soil samples were collected from several locations near Buildings 12, 19, 26 and 27. Sediment samples were collected from four locations along the eastern

bank of Mill Creek, approximately two feet above creek level. All sediment sampling locations were west of the Former Surface Impoundments (SWMU 1).
The 1976 sampling detected elevated levels of tin across both sampling areas, in both sediments and surface soils. Noting that background tin levels were expected to be below 5 milligrams per kilogram, or mg/kg, reported tin concentrations ranged from 30 to greater than 1000 mg/kg in surface soils, and from 10 to 500 mg/kg for sediment samples. Concentrations from soil samples at a depth of 12 inches were reported to have been in the range of 1 to 10 mg/kg, suggesting the impact was limited to the uppermost soils.

The report notes that most of the top soil in the sampling area was replaced between the 1976 and 1978 events. Presumably based on this, tin concentrations from the 1978 surface soil sampling were somewhat lower, ranging from 50 to 500 mg/kg. No information is provided on the disposition of the removed soils.

The report identified the source of the tin in soils as run off from leaking aqueous tin chloride transfer piping, drum storage in the area of Buildings 12 and 26, line washings during maintenance operations, and spills resulting from equipment failures in Building 27. The source of the elevated tin in the Mill Creek sediments is not specified, but the location is consistent with that of impacted seepage described in later reports.

5.1.2 Ohio Environmental Protection Agency Investigations

OEPA personnel identified the presence of discolored and apparently chemically-affected seepage in the eastern bank of Mill Creek in 1979. This seepage was primarily located along the western boundaries of the Morton and Cincinnati Drum Facilities. Based primarily on this discovery, the OEPA performed a series of inspections and sampling efforts during the early 1980s (primarily in 1980). These investigations included the collection of seep samples, the advancement of soil borings, the collection of soil samples, collection of groundwater samples from borings, and performance of a metal detector survey. The metal detector survey was performed in the Former Swale Area

(SWMU 10), in response to allegations by a former employee that hundreds of drums had been buried there. Qualitative analysis of a 1980 Mill Creek seep sample identified a large number of organic compounds, primarily alcohols, ketones, anilines, phthalates, cyclohexanone, and N-diethylacetamide (Thiokol, 1980). A copy of this analysis is included in Appendix F. Seepage samples also reportedly contained slightly elevated concentrations of arsenic, lead, and chromium (PEDCo, 1982).

In August 1982, sampling of Mill Creek seepage was performed at 11 locations extending from approximately the center of the Cincinnati Drum property to the downgradient edge of the Morton Facility (Bautista, 1983). These samples were analyzed for chloride, Total Organic Carbon (TOC), and Chemical Oxygen Demand (COD), and were primarily intended to estimate organic loading to the creek. All constituents were generally highest along the north to central portions of the Morton Facility.

Seep samples were again sampled by OEPA in January 12, 1983 (OEPA, 1983) at locations near the Morton Facility. Only qualitative detections were reported in the source document; these consisted of chlorobenzene, dichlorobenzenes, 1,2-DCA, ethyl benzene, 1,1-DCA, toluene, xylenes, mesitylene, n-propyl benzene, cis-1,2-DCE, TCE, cyclohexanone, cyclohexanol, aniline, n-methyl aniline, isophorone, and phenol. The source document noted that several other organic compounds were detected, but that they were at "extremely low concentrations."

5.1.3 Ecology & Environment, Inc. Investigation

Under contract to the USEPA, Ecology & Environment, Inc. (E&E) performed a hydrogeologic assessment of the Morton, Cincinnati Drum, and Pristine facilities, including immediately surrounding properties. This assessment was intended to characterize types, amounts, and sources of environmental impact at the three sites. Activities included drilling, well installation (three monitoring wells on the Morton Facility), a metal detector survey at the Former Swale Area (SWMU 10) and surrounding

areas, and sampling of surface soil, surface water (including Mill Creek), groundwater, and sediments across the three sites. The assessment also included the sampling of several Morton Facility wells (designated C1 through C7, currently referred to as MW-1 through MW-7) concurrently installed by PEDCo Environmental, Inc. (PEDCo) on behalf of Thiokol (see Section 5.1.4). Samples were generally analyzed for extractable organics, metals, and selected other inorganic parameters.

The metal detector survey identified 17 scattered metallic anomalies, but did not determine their nature. Surface water sampling from Mill Creek and tributaries identified chlorinated methanic and aliphatic compounds, phthalates, and a variety of pesticides (4,4'-DDE, -DDD, and -DDT, and 4,4'-BHC). Surface soils from the Morton Facility contained methylene chloride; several metals (notably vanadium) may also have been elevated. Morton Facility groundwater samples contained chlorobenzenes, amines, phthalates, PAHs, chlorinated aliphatics, toluenes, and possibly elevated metals. Among other issues, the assessment concluded that the Morton Facility surface impoundments were the primary suspected source of the impacted seepage along Mill Creek.

5.1.4 PEDCo Environmental, Inc. Investigation

Generally concurrent with the E&E investigation in 1980, Thiokol retained PEDCo to perform a parallel, but independent, assessment. The assessment was intended to identify the source of the impacted Mill Creek seepage, and to characterize the shallow hydrogeology of the facility.

The PEDCo assessment consisted of the installation of 10 monitoring wells, designated MW-1 through MW-10, and the sampling of subsurface soils, groundwater, and Mill Creek seepage. Samples were analyzed for metals and major anions/cations; selected samples were also analyzed for TOC, COD, and total extractable organics. Selected soil samples were also subjected to geotechnical testing.

Based on field observations and analytical data, PEDCo concluded that groundwater in the Upper Aquifer moved at a velocity of approximately 6 feet per day, and that 20,000 to 60,000 gallons per day discharged through seepage along Mill Creek. Indications of organic impact to groundwater, including elevated TOC, COD, and total extractables, were identified at the east and west ends of the former surface impoundments (SWMU 1), at the Former Swale Area (SWMU 10), and in seepage along the northwest edge of the facility. Generally speaking, these same areas exhibited elevated chlorides, and possibly slightly elevated arsenic, chromium, and lead. Individual organic constituents observed included phenol, benzoic acid, phthalates, amines, 4-methylpyridine, toluene, and dichlorobenzenes.

The PEDCo drilling program also identified dark staining interpreted to represent chemical saturation at depths of 10 to 15 feet. This condition was observed in all borings from the northwest and wes-central portions of the facility; specifically in the borings for wells MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, and MW-10.

The assessment concluded that the former surface impoundments were the source of organics to the seepage along the northwest portion of the facility. In particular, the presence of detectable chlorobenzenes only in the well (MW-5) and seep sample (CS-1) to the west of the former surface impoundments suggested that these compounds were predominantly derived from the impoundments. It noted, however, that available data was not sufficient to rule out a possible upgradient source for these compounds. It also concluded that the impacted seepage was not significantly affecting Mill Creek water quality.

5.1.5 Thiokol Environmental Analysis Group Monitoring

A technical group within Thiokol initiated a groundwater monitoring program of on-site wells in 1981 (Bautista, 1983). Wells were sampled 15 times, generally at monthly intervals, between May 1981 and January of 1983. Samples were analyzed for pH,

chloride, TOC, and arsenic. Arsenic and chloride levels were generally elevated in the northern portion of the facility, and near the Former Swale Area (SWMU 10). TOC was highest at the east and west ends of the Former Surface Impoundments (SWMU 1) and near the Former Swale Area. pH was slightly lower in the northwest portion of the facility than elsewhere, but was generally within typical ranges for natural waters. Based on the sampling data, the report concluded that on-site groundwater conditions were relatively stable, with a possible declining trend in TOC.

In addition, Thiokol sampled and analyzed Mill Creek surface water at roughly monthly intervals from April 1981 through at least March 1983 (Bautista, 1983). Samples were analyzed for pH, TOC, and chloride; selected samples were also analyzed for arsenic. Seven sampling stations were established for this evaluation: three along the Morton Facility boundary, two upstream, and two downstream.

All Mill Creek water parameters varied with time. The evaluation concluded that there were no trends in the data to indicate significant impact to Mill Creek water quality by leachate. It also noted the presence of intermittent discharge from a broken sewer into the creek.

5.1.6 K-V Associates, Inc. Investigation

K-V Associates, Inc. (K-V) was retained by Thiokol in 1983 to evaluate on-site groundwater flow characteristics. The primary activity described in investigation reporting is the measurement of velocity profiles in on-site wells. The K-V report also references two new on-site wells, NW1 and NW2, presumably installed by K-V in related work. These wells were referred to as KV-1 and KV-2 in the 1983 ATEC assessment report (ATEC, 1983). No sampling data or construction information was identified for these wells.

The investigation concluded that, although the overall Upper Aquifer gradient was generally to the west, flow directions and velocities at discrete locations were quite variable. This was attributed largely to the presence of anisotropic features, such as stream channel facies. It also noted the presence of darkened or stained sediments at the well NW-1 location, in the vicinity of Building 18. The groundwater flux due to seepage was calculated at approximately 38,000 gallons per day.

5.1.7 ATEC Associates, Inc. Investigation

ATEC Associates, Inc. (ATEC) performed a supplemental hydrogeologic assessment during the summer of 1983. The objective of this assessment was the delineation of the southern extent of Upper Aquifer impact, and the overall evaluation of Upper Aquifer groundwater flow.

ATEC installed six additional monitoring wells, MW-11 through MW-16, and also installed seven temporary observation wells to support pump testing. ATEC performed pump tests in two wells, analyzed soil samples for geotechnical parameters, and sampled all new and existing wells. Groundwater samples were analyzed for sulfur, chloride, and TOC.

Groundwater analytical results were generally consistent with previous findings. Highest sulfur and TOC concentrations were present downgradient (west) of the Former Surface Impoundments (SWMU 1) and near the Former Swale Area (SWMU 10). Chloride concentrations were elevated in the north area of the facility and near the Former Swale Area (SWMU 10), as in former assessments. A new area of elevated chlorides was also identified in the west central portion of the facility near wells MW-11 and MW-12. Chloride concentrations at MW-12 (4400 mg/l) were the highest detected by ATEC at the facility.

As with the PEDCo assessment, ATEC identified dark staining interpreted to represent chemical saturation at depths of 10 to 15 feet. As with the PEDCo drilling, ATEC observed this condition in borings from the northwest and west-central portions of the facility; specfically in borings for wells MW-11, MW-12, and MW-13.

5.1.8 Ecology & Environment, Inc. Site Screening Inspection

E&E performed the Site Screening Inspection (SSI) in 1990 under contract to the USEPA. The SSI was intended to supplement data obtained during a 1986 Preliminary Assessment by OEPA (see Section 3.2 of this report), in order to improve Hazard Ranking System scoring of the facility under CERCLA. Note that no sampling or investigation was apparently performed as a part of the 1986 Preliminary Assessment. The Hazard Ranking System scoring was a part of an on-going regulatory effort to identify sites most likely to qualify for the National Priorities List. The SSI was also intended to identify the most critical data requirements for any subsequent investigation.

The scope of the SSI consisted of interviews with key facility personnel, performance of soil borings, and the sampling of subsurface soils, surface soils, and Mill Creek sediment. Groundwater was also sampled from five existing on-site wells. All samples were analyzed for VOCs, SVOCs, metals, PCBs, and cyanides.

An SSI reconnaissance of the eastern bank of Mill Creek adjacent to the facility did not document the presence of any active seeps. The reconnaissance did identify and sample a dry, crystalline material along the lower creek bank. This material was determined to contain a number of VOCs and SVOCs, including carbon disulfide, 1,2-DCA, 2-butanone, chlorobenzene, ethylbenzene, xylenes, 1,2-dichlorobenzene, bis(2-chloroisopropyl)ether, bis(2-ethylhexyl)phthalate, and various PAHs. It was also tentatively identified to contain several amines, ketones, aromatics, alcohols, sulfides, and esters.

Several surface soils, including a sample from off-site to the south, contained low concentrations of various PAHs. A subsurface soil sample collected near the southwest corner of the Former Surface Impoundments (SWMU 1), also contained a number of VOCs and SVOCs, especially dichlorobenzenes. Primary groundwater constituents were chlorobenzene and 1,2-dichlorobenzene, although low concentrations of other VOCs were detected (Tables 5-6 and 5-7 and Figures 5-5 and 5-6).

5.1.9 PRC Environmental Management, Inc. Expanded Site Investigation

In 1992, PRC Environmental Management, Inc. (PRC), under contract to the USEPA, performed a followup investigation to the SSI described in the preceding section. This investigation, termed an Expanded Site Inspection or ESI, was intended to collect any additional data needed for Hazard Ranking System scoring of the facility under CERCLA. The ESI consisted of a reconnaissance and the installation of four new monitoring wells (MW-EPA-1, -2, -3, and -4). PRC collected groundwater samples from selected municipal wells, the four new monitoring wells, five existing monitoring wells, and the Groundwater Collection System (SWMU 6). In addition, sediment samples were collected from Mill Creek at locations upstream (north) of both the Morton and Cincinnati Drum Facilities, west of Cincinnati Drum, and west of the Morton Facility.

PRC noted the presence of one active impacted seep, approximately 200 feet in length, on the eastern bank of Mill Creek along the Cincinnati Drum facility. The southern end of the seep was located approximately 50 feet north of the Morton Facility northern boundary. This seep was described as "emerging on the stream bank about 3 to 4 feet above the water in the creek and was discharging oily-appearing, white, orange, black, and brown leachate . . . . It had a strong hydrocarbon odor and was dripping down the bank into the streambed sediments. . . . ." The sediment sample from this seep contained a number of VOCs, PAHs, other SVOCs, and pesticides; specific compounds included chlorobenzene, 1,2-dichlorobenzene, and PCBs (Aroclor 1254). PAHs, pesticides, and PCBs were also detected in a downstream sediment sample west of the Morton Facility,

and in a sediment sample collected upstream of both the Morton and Cincinnati Drum Facilities. Metal concentrations were generally consistent for all three sediment locations; i.e. upstream of both facilities, upstream of the Morton Facility near Cincinnati Drum, and near the Morton Facility.

Based largely on the presence of chlorobenzene in both the Mill Creek seep and nearby Morton Facility groundwater, the ESI noted the possibility that groundwater from the Morton Facility was migrating north to contribute to the seep. In reaching this conclusion, the ESI did not appear to consider the presence of the slurry wall along the Morton Facility's northern boundary. The ESI also concluded that it was likely that "sources to the north" of the Morton Facility were contributing to the seep.

Surface soil samples generally contained low concentrations (up to 12 mg/kg maximum) of various pesticides and PAHs. This included an off-site sample collected to evaluate background. Some on-site samples also contained phenol and 4-methylphenol. Metals were generally consistent with concentrations in the background sample, except possibly elevated levels of magnesium.

Upper Aquifer groundwater samples from the vicinity and downgradient (west) of the Former Surface Impoundments (SWMU 1) typically contained a variety of VOCs and SVOCs, including acetone, benzene, carbon disulfide, chlorobenzene, dichlorobenzenes, ethylbenzene, heptachlor, gamma chlordane, phenol, toluene, and xylenes. Groundwater from upgradient (east) of SWMU 1, however, also contained a number of dissolved organics, including vinyl chloride, 1,1-DCA, 1,2-DCA, 1,2-DCE (total), benzene, chloroform, chlorobenzene, PAHs, bis(2-ethylhexyl)phthalate, dibenzofuran, and phenol. Groundwater at the upgradient (northeast) edge of the facility, near the Pristine boundary and the Morton Facility process areas, contained only two organic analytes—PCE and chloroform. Groundwater from the Former Swale Area (SWMU 10) contained acetone, benzene, 4-methyl-2-pentanone, toluene, chlorobenzene, dichlorobenzenes, and

methylphenols. Inorganics, including possibly vanadium, generally appeared elevated near SWMUs 1 and 10 relative to other sampling locations.

Groundwater from municipal supply wells contained a variety of chlorinated constituents: 1,2-DCA, chloroform, trichloroethene (TCE), cis- and trans-1,2-DCE, 1,1,-DCA, methylene chloride. The ESI concluded that the analytical data do not indicate that these compounds are originating at the Morton Facility.

5.1.10 IT Corporation Pre-Construction Investigation

The Morton Facility commissioned a siting investigation prior to the construction of the pH Neutralization System (SWMU 9). This investigation was performed in November 1992 by IT Corporation, and consisted of the collection of two composite soil samples from two borings in the planned System location. Samples were analyzed for a range of parameters, including VOCs, SVOCs, and metals (IT, 1992).

The shallow (0-8 feet depth) composite soil sample did not contain detectable constituents. The composite soil sample from a depth of 8 to 14 feet, however, contained acetone, toluene, ethylbenzene, and xylenes. Groundwater was encountered at a depth of 10 to 12 feet below grade.

5.1.11 TechLaw, Inc. Preliminary Assessment/Visual Site Inspection

Techlaw, inc. (techlaw), under contract to the usepa, performed a preliminary assessment/visual site inspection (pa/vsi) in 1998. This pa/vsi was intended to fulfill requirements for a rcra facility assessment (rfa); the rfa objective was to identify actual or potential environmental releases from swmus or areas of concern (aocs) that require corrective action.

The PA/VSI or RFA consisted of a site reconnaissance, personnel interviews, and a review of available documentation. No sampling of environmental media was performed.

The PA/VSI or RFA identified 11 SWMUs and no AOCs at the facility. The identified SWMUs are discussed in Section 3.4 of this report.

5.1.12 Usability of Historical Data (Quality Assurance/Quality Control)

Previous investigations of the site have included collection and analysis of soil and groundwater samples. This report must rely on these data to draw tentative conclusions about the extent of affected soils and groundwater. In general, investigations were carried out using protocols and techniques which were most accepted at the time of their performance. Accepted quality assurance/quality control (QA/QC) practices, such as blanks and duplicates, were used for many of these sampling events.

In the case of groundwater samples collected from permanent monitoring wells, the current quality of groundwater at these wells can be determined by sampling and analysis. Although the groundwater quality may change over time because of natural flow and degradation of certain constituents, current conditions can be measured, and these data can be reliably used to make decisions about future action.

In the case of soil samples, it is recognized that all soil samples targeting volatile constituents are subject to inherent limitations in sample handling, both in the field and in the laboratory, that result in some losses of the target compounds. Historical detections in such samples would be useful indicators of chemical presence, but their absence could not be considered conclusive. Such samples may be useful for screening purposes, but will not be used for quantitative risk assessment.

In addition, it should be noted that the multiple investigations of the Morton Facility and its surroundings have generated a history of analyses, particularly with respect to groundwater. Successive sampling events at particular locations, even when performed by different parties, have generally obtained similar results. This suggests that those results are representative of actual conditions.

Investigation performed to meet AO objectives will meet data quality objectives (DQOs) identified within an approved Quality Assurance Project Plan (QAPP). These DQOs and the methods to achieve them will meet current USEPA criteria for data useability. As this new data is generated, it will be compared to previously acquired data to evaluate the latter's reliability.

5.2 Preliminary Assessment Of Contamination

Organic and elevated inorganic constituents (including possibly elevated metals) have been identified in environmental media in several areas of the facility. The following sections summarize the known extent of such impact for each potentially impacted medium—soils, surface water, sediment, groundwater, and air.

5.2.1 Soil

Chemical analysis of soils has been performed during a number of the investigations discussed in Section 5.1. As shown on Figures 5-2, 5-3 and 5-4, chemical impact to soils has been identified at various locations across the Morton Facility. Organic constituents detected in surface soils consist primarily of pervasively distributed PAHs and pesticides, and isolated detections of toluene and methylene chloride; apparently elevated metals include tin, vanadium, and magnesium. In the subsurface, the pattern of detection tends to mirror the impact to shallow groundwater, consisting notably of toluene, chlorobenzene, 1,2-dichlorobenzene, chlorinated aliphatics, and ethers. Concentrations are typically under 10 mg/kg total organics.

Organic impact to subsurface soils has been observed primarily in the north portion of the facility, near the former surface impoundments (SWMU 1). This may, however, simply be reflective of the greater number of data in that area. Concentrations of some organics in subsurface soils were relatively high, ranging into the hundreds or thousands of mg/kg. In addition, a layer of dark staining, interpreted to represent chemical saturation, was

observed across the west-central and northwest portion of the facility. This is discussed further in Section 5.2.2.

As discussed in Section 3.0, impact to soils could have resulted from a variety of historical operations, including both surface releases (e.g. spills, maintenance activities) and those in the subsurface (e.g. releases from surface impoundments and sewer leaks). Impact to surface soils would generally be associated with surface releases. Subsurface soil impact, in contrast, could result from either subsurface releases, or from surface releases that penetrated into the subsurface.

Currently the presence of exposed surface soils with chemical impact should be minimal. Periodic expansion of Morton Facility buildings and operational areas, in addition to landscaping and grounds improvement, have resulted in most of the Morton Facility being covered with lawns, pavement, or foundations. This includes most of the areas where historic waste management is documented to have occurred.

5.2.2 Groundwater

Chemical analysis of groundwater has been performed during a number of the investigations discussed in Section 5.1. As shown on Figures 5-5, 5-6, and 5-7 chemical impact to groundwater by volatile and semivolatile organics, and by inorganics (possibly including metals) has been identified throughout the northern and western portions of the facility. It must be noted, however, that the most recent groundwater data collected for the facility was in 1992. This data cannot be assumed to be representative of current groundwater conditions.

Drilling during various environmental and geotechnical investigations has identified dark staining interpreted to represent chemical saturation. This condition is identified within the uppermost saturated zone, at a typical depth range of 10 to 15 feet below grade. It has been observed across the west-central and northwest portions of the site, basically within

an area bounded by the Building 16 on the northeast, the facility parking lot on the southeast, Building 40 on the southwest, and well MW-E3 on the northwest. Borings extending beyond this staining suggest it did not extend to greater depths, but data are not definitive in this regard.

From a historical standpoint, the highest levels of organic and inorganic impact have been observed in the vicinity of the Former Surface Impoundments (SWMU 1) and the Former Swale Area (SWMU 10), but elevated levels of organic and inorganic constituents have been detected at intermediate and upgradient portions of the facility.

Primary organic constituents in groundwater include benzene, ethylbenzene, toluene, and xylenes (BTEX), chloroform, methylene chloride, chlorobenzenes, acetone, chlorinated aliphatics (e.g. PCE, TCE, 1,1-DCE, 1,1-DCA, 1,1,1-TCA, vinyl chloride), phenols, phthalates, amines, ketones, PAHs, and pesticides. Apparently elevated metals include arsenic, chromium, lead, and possibly tin. The distribution of detected organic and metal constituents in groundwater is illustrated in Figures 5-5, 5-6, and 5-7.

In addition, Pristine assessment and monitoring has documented the presence of a number of VOCs in the Lower Aquifer underlying most or all of the Morton Facility. These include 1,2-DCA and chloroform.

The potential for impacted Upper Aquifer groundwater to migrate beyond the Morton Facility boundaries will depend primarily upon:

- The effectiveness of the Groundwater Collection System (SWMU 6) in intercepting Upper Aquifer groundwater migrating westward toward Mill Creek.
- Flow characteristics in various Upper Aquifer strata, specifically the potential for migration in directions other than to the west.

Current data are not sufficient to evaluate this potential for off-site migration.

5.2.3 Surface Water and Sediment

Mill Creek seeps, sediment, and surface water have been characterized a number of times since the late 1970s. As discussed in greater detail in Sections 2.6 and 4.3 of this report, Mill Creek has been documented to be pervasively contaminated along much of its length. Although impacted seepage along Mill Creek must have had some affect on local Mill Creek water quality, historic data does not allow for any quantitative evaluation of the significance of this impact. There is no recent data regarding on-going seepage or related impact to Mill Creek, although seeps were documented adjacent to Cincinnati Drum in 1992.

Groundwater seeping to the surface along Mill Creek has historically exhibited field evidence of impact, including discoloration and odor. It has also been documented to contain a wide range of VOCs, SVOCs, pesticides, and other organics, although the suite of organics observed varied somewhat through time. Routinely observed organics include chlorobenzenes, amines, phthalates, BTEX, and ketones.

Mill Creek sediment samples (Figures 5-2, 5-3, and 5-4), including those from upstream of the facility, have been documented to contain PAHs and pesticides. Other constituents identified in sediments include tin, chlorobenzenes, chlorinated aliphatics, BTEX compounds, and carbon disulfide. Historic sediment sampling is not sufficient to allow delineation of impacted areas. In addition, since compounds may naturally degrade and sediments in active streams may be mobile, the historic data may not be representative of current conditions.
Mill Creek seeps are identified as a Study Area in Paragraph 23 of the AO.

5.2.4 Air

Air emissions from the Morton Facility occur in association with process and storage operations. These emissions are permitted, and are believed to be routinely within permitted limits. Given the age of the facility, however, it is possible that some impact to

surface soils has occurred due to air emissions. In addition, air emissions from off-site operations may also have contributed to surface soil impact. Current data is not sufficient to evaluate the likelihood or significance of this mechanism.

6.0 ECOLOGICAL SETTING

This section provides a preliminary description of the general ecological setting in the vicinity of the Morton Facility. Federal and state natural resource agencies were contacted regarding species of concern, significant habitats, and fishery resources that are within 2 miles of the facility. For purposes of discussion, local habitats may be categorized as terrestrial, freshwater wetlands, and aquatic.

6.1 TERRESTRIAL HABITATS

The area within the 0.5-mile radius of the facility is primarily upland. Currently, commercial/industrial, residential, and recreational uses dominate this area. The residential areas consist of buildings (homes) surrounded by maintained lawns and ornamental plantings. Recreational areas consist primarily of maintained lawns surrounding buildings. Industrial establishments consist primarily of buildings and asphalt. Limited vegetation exists within the industrial areas to support wildlife populations, with the exception of wooded and brushy areas along Mill Creek.

6.2 FRESHWATER WETLANDS

A review of the U.S. Fish and Wildlife National Wetland Inventory (NWI) Maps indicates the presence of a palustrine forested broad-leaved deciduous temporarily-flooded (PFO1A) wetland on the western bank of Mill Creek adjacent to the Morton Facility (http://wetlands2.nwi.fws.gov/startmap/). In addition, the NWI Maps identify wetlands in the Glendale, Ohio quadrangles.

6.3 AQUATIC HABITATS

Mill Creek borders the Morton Facility to the west, and represents the only aquatic habitat in the facility's vicinity. Water quality standards described in Chapters 3745-1 and 3634-1 of the Ohio Administrative Code (OAC) define beneficial use designations, describing existing or potential uses for surface water bodies within the State of Ohio. These beneficial use

designations consider the use and value of the water for public water supplies, the protection and propagation of aquatic life, recreation in and on the water, agriculture, industrial, and other use issues. Possible beneficial use designations include "aquatic life use", "recreational use", "public water supply" and "state resource water."

The State of Ohio has assigned Mill Creek the following beneficial use designations:

- Aquatic Life – warm-water habitat
- Recreation – primary contact recreation
- Water Supply – agricultural and industrial

The designation as a warm-water habitat defines the "typical" warm-water assemblage of aquatic organisms for the stream. Primary contact recreation waters are suitable for full body contact recreation (e.g. swimming). To qualify as a primary contact recreation use, a stream must have at least one pool 100 square feet in area and greater than a depth of three feet. The water supply designation indicates Mill Creek may be used for irrigation and livestock watering and industrial and commercial use without treatment.

Currently, Mill Creek is not meeting applicable criteria for its assigned aquatic life designated use. Physically, the stream channel is capable of supporting the criteria, but the designation is not being attained due to chemical and biological criteria violations, (OEPA, 1994). Mill Creek has also exhibited exceedances of the Primary Contact Recreation criteria for fecal coliform and *E. coli*.

6.4 Fish And Wildlife

No state-listed endangered, threatened, or species of concern occur within 2 miles of the facility (Knasel, 2000). One federally-listed endangered species, Indiana bat (*Myotis sodalis*), is listed as potentially occurring in the area (Kurey, 2000). Their preferred summer habitat is dead trees and snags along riparian corridors. The Indiana bat is

typically found in trees with exfoliating bark or cavities in trunks or branches that may be used as maternity roosts, or in live trees (such as shagbark hickory) which have exfoliating bark. It is not known whether suitable habitat for the Indiana bat is present in the vicinity of the facility.

The surrounding 2-mile radius around the facility consists of residential homes and industrial/commercial properties. These areas are dominated by mowed lawns interspersed with trees and shrubs. Because of the lack of vegetation and constant human activity, these areas do not support an abundance of wildlife. The wildlife expected to occur in the vicinity of the facility includes more urbanized bird and mammalian species such as rock dove (*Columbia livia*), gray squirrel (*Sciurus carolinensis*), and Norway rat (*Rattus norvegicus*). Since limited areas of vegetation exist, the population size in the area will also be limited.

Mill Creek supports a warm-water fishery. However, due to degradation in the stream channel, fish species tolerant to a wide variety of environmental disturbances are predominant in the creek. The fish species expected to occur in Mill Creek include suckers, darters, and various minnows. Bass may be present in reaches with lesser degrees of chemical impact.

7.0 IMPLEMENTATION OF INTERIM MEASURES

"Interim measures" are actions implemented before a final corrective action as necessary to mitigate potential exposures to impacted media. Over the past 20 to 25 years, several interim measures have been implemented at the Morton Facility and neighboring properties to control and eliminate potential exposures. Each of the most likely mechanisms for potential exposures and the pertinent interim measures taken are discussed below.

7.1 POTENTIAL EXPOSURE TO SEEPAGE OF UPPER AQUIFER GROUNDWATER AT MILL CREEK

The seeps observed during the 1970s and 1980s along the Morton Facility western boundary represent the outcrop of a saturated transmissive stratum within the Upper Aquifer. Groundwater in this stratum was migrating generally west across the facility to the area of seepage. The presence of chlorobenzenes, amines, and other constituents led previous investigators to conclude that at least a portion of the seep constituents were being derived from the Former Surface Impoundments (SWMU 1) and other areas within the Morton Facility.

To mitigate this seepage, the Morton Facility constructed the Groundwater Collection System (SWMU 6). The System was brought on line in 1985, and has operated continuously, except for short-term shut downs, since that time. The System also included installation of a slurry wall along the northern property boundary. This slurry wall would tend to reduce both on-site migration of impacted groundwater from the north, and off-site migration of groundwater in areas where the shallow groundwater gradient may have a northern component.

Although the effectiveness of the system has never been definitively determined, it is germane that all assessments performed before 1985 described pervasive active seeps. No active seeps along the Morton Facility were described in assessments after 1985. Active seeps were described only along the Cincinnati Drum facility after 1985.

The Groundwater Collection System was also intended to recover groundwater downgradient of a known area of impact at the Former Swale Area (SWMU 10). To this end, it includes a recovery well, also installed in 1985 and active through today.

In addition, it should be noted that the probable on-site sources of groundwater impact at the facility are almost all historical in nature—that is, releases would have resulted from operations terminating in the 1970s or early 1980s, prior to Morton's ownership. The single exception is the CSS (SWMU 11), whose status as a source of groundwater impact has not been determined. Given this, the overall changes at the facility over the last two decades must be considered to have reduced or eliminated potential threats to human health and the environment. These changes were implemented both by Morton and by its predecessor owners at the facility, and include elimination of surface impoundments, waste minimization, improved waste management, improved spill and release control, and the removal/closure of underground chemical storage.

Finally, studies of the Pristine Superfund Site indicate that impacted Upper Aquifer groundwater from Pristine was migrating onto the Morton Facility. Although these actions were performed by parties other than Morton, the removal of large volumes of source materials from Pristine, and the implementation of an Upper Aquifer remediation system, clearly should be reducing any on-site migration. This, in turn, should be enhancing any improvements in Morton Facility Upper Aquifer water quality resulting from either natural processes or groundwater collection.

7.2 Potential Exposure To On-Site Soils

The presence of site constitutents, especially tin, in surficial soils is discussed in Section 5.0. On-site facility and contracted workers would potentially be exposed to such soils; public exposures would presumably be minimal or absent, given the controlled access nature of the facility.

Interim Measures that have been implemented to minimize or control such potential exposures include the expansion of paving and landscaping (especially maintained lawns and crushed rock areas). In addition, the facility records discussed in Section 5.1.1 above, also describe the removal of impacted surface soils during the late 1970s. Improved spill control and response procedures also reduce the magnitude of surface or shallow soil impact.

7.3 POTENTIAL EXPOSURE TO LOWER AQUIFER GROUNDWATER

As noted in Section 4.1, the entire Morton Facility lies within an area of Lower Aquifer impact attributed to the Pristine Superfund Site. The remedial action implemented for Pristine includes a groundwater collection system with a capture zone encompassing all of the Morton Facility. In addition, the City of Reading has terminated their use of local groundwater. Although these are not Interim Measures or corrective actions implemented by Morton, they clearly are pertinent to the control or elimination of exposures to environmental impact that is present at (although not necessarily derived from) the Morton Facility.

8.0 CONCLUSIONS

The Morton Facility and its surroundings have been repeatedly investigated with respect to environmental impact since the late 1970s. Recent data regarding environmental conditions at the facility, however, is sparse and incomplete. A review of available data supports the following conclusions:

- On-site sources of impact are predominantly related to historic waste management practices and potential historic releases dating from 1950 through the early 1980s, prior to Morton's ownership. Modifications in facility practices, structures, and process have largely eliminated any on-going releases. The possible exception is the Combined Sewer System (SWMU 11), which is still in use for on-site wastewater transport today. The role of this system as an on-going source of impact is not known.

- The hydrogeologic setting of the facility is a shallow perched aquifer (the Upper Aquifer) overlying an areally-extensive regional aquifer (the Lower Aquifer). A clay or series of clay strata act as a confining layer between the two, restricting vertical groundwater migration. Local leakage from the Upper to the Lower Aquifers is believed to be occurring, although the absence of significant vertical gradients suggests that it is not a major source of Lower Aquifer groundwater. Leakage would be controlled by the thickness and character of the clay confining layer.

- Impact from organics and inorganics to Upper Aquifer groundwater is probably still present across much of the north and west portions of the facility. Although a large part of this impact probably resulted from on-site sources, some contribution from off-site sources is likely. There is no data suggesting impact from on-site sources has migrated to the Lower Aquifer.

- The entire facility is encompassed within a Lower Aquifer VOC plume believed to emanating from the Pristine Superfund Site. This plume is currently being controlled by the Pristine groundwater collection system; the area of capture for this system covers the entire Morton Facility.

Interim Measures implemented at the site are reducing or eliminating the off-site migration of impacted Upper Aquifer groundwater, and thereby mitigating impacted seepage along Mill Creek. Interim Measures are also believed to be effectively addressing any immediate threats posed by impacted surface soils and Lower Aquifer groundwater.

9.0 REFERENCES

ATEC Associates, Inc., 1980, Subsurface Investigation and Foundation Recommendations, Cincinnati, Ohio, November 24.

ATEC Associates, Inc., 1983, Final Report Hydrogeologic Assessment, Carstab Facility, Cincinnati, Ohio, September 2.

Bautista, Paul A. March 14, 1983a, Monitoring of Ground Waters at Carstab Corporation.

Bautista, Paul A. March 21, 1983b, Analyses of Samples from Mill Creek Bank Near Carstab Corporation.

Bautista, Paul A. March 21, 1983c, Monitoring of Mill Creek Waters Near Carstab Corporation.

Camp Dresser & McKee Inc. (CDM), 1986, Final Remedial Investigation Report for Pristine, Inc. Site Reading Ohio, including Appendices, July

Chemical Waste Management, Inc., 1992, In-Place Closure of UST(s) Report.

Cincinnati Milacron Chemicals, Inc. (CMC), May 2, 1977, On-Site Disposal of Solid Waste Report to Hamilton County Health Department.

Cincinnati Milacron Chemicals, Inc. (CMC), March 29, 1979a, Memorandum from Robert J. Neubert to R. Witman.

Cincinnati Milacron Chemicals, Inc. (CMC), June 6, 1979b, Interoffice Memorandum from Paul A. Bautista to C.L. Adams, J.L. Hanley, T.G. Kugele, and R.C. Witman.

Conestoga-Rovers & Assoc. (Conestoga-Rovers), 1993, Technical Memorandum, Pre-Design Investigation, Soil and Sediment Investigation, July.

Conestoga-Rovers & Assoc. (Conestoga-Rovers), 1994, Technical Memorandum No. 1, Pre-Design Investigation, Lower Aquifer Investigation, Pristine, Inc. Site, February.

Conestoga-Rovers & Associates (Conestoga-Rovers), 1995, Preliminary Treatment Facility Design Report, Pristine, Inc. Site, May.

Conestoga-Rovers & Associates (Conestoga-Rovers), 1996a, Hydrogeologic Modeling Report, Lower Aquifer Investigation, Pristine, Inc. Site, August.

Conestoga-Rovers & Associates (Conestoga-Rovers), 1996b, Lower Aquifer Investigation, Pristine, Inc. Site, Reading, Ohio, December.

Conestoga-Rovers & Associates (Conestoga-Rovers), 1997, EW-4 Pumping Test Report, Pristine, Inc. Site, November.

Conestoga-Rovers & Associates (Conestoga-Rovers), 1998, Data Summary Tables

Conestoga-Rovers & Associates (Conestoga-Rovers), 2000a, Round 13 Monitoring Well Sampling Results, Pristine Inc. Site, April.

Conestoga-Rovers & Associates (Conestoga-Rovers), 2000b, Year Two Operation and Maintenance Annual Report, Pristine, Inc. Site, February.

Ecology and Environment, Inc. (E&E), 1982, Hydrogeologic Report of the Pristine-Cincinnati Drum-Carstab Site in Reading, Ohio, November

Ecology and Environment, Inc. (E&E), 1991, Screening Site Inspection Report for Carstab Corp., Reading, Ohio, August 19.

http://205.133.113.116/ (Hamilton County Auditor Home Page)

http://cagis.hamilton-co.org/map/cagis.htm (CAGIS Internet Map Server)

International Technology Corporation (IT), 1992, Soil Contamination Determination, Disposal Alternatives and Groundwater Management and Treatment Alternative Report, Cincinnati, Ohio, November 24.

Kurey, W., 2000, personal communication, Acting Supervisor, U.S. Department of the Interior, Fish and Wildlife Service, Reynoldsburg, Ohio.

Knasel,T.J., 2000, personal communication, Ecologist Analyst, Ohio Department of Natural Resources, Division of Natural Areas and Preserves. Columbus, Ohio.

K-V Associates, Inc., 1983, Hydrogeological Evaluation Carstab Chemical Plant, Reading, Ohio, June

Metropolitan Sewer District, November 15, 1991, Correspondence from John H. Trapp, P.E. to Glenn E. Schaaf.

Morton International, Inc. (Morton), November 18, 1991, Correspondence from Glenn E. Schaaf to Marianne Piekutowski.

Ohio Department of Natural Resources (ODNR), Division of Water, 1989, Pollution Potential Study.

Ohio Environmental Protection Agency (OEPA), undated, Summary of OEPA Sampling Results.

Ohio Environmental Protection Agency (OEPA), 1980, Ohio EPA Initial Pollution Incident Report.

Ohio Environmental Protection Agency (OEPA), May 4, 1983, Interoffice Memorandum from Connie Rogers to Ed Kitchen.

Ohio Environmental Protection Agency (OEPA), June 26, 1986, Preliminary Assessment Narrative.

Ohio Environmental Protection Agency (OEPA), May 22, 1991, Correspondence from Amy F. Gibbons to Mark Dunnigan.

Ohio Environmental Protection Agency (OEPA), 1994a, Biological and Water Quality Study of Mill Creek and Tributaries Butler and Hamilton Counties, Ohio. OEPA Technical Reports SWS/1993-12-9. Columbus, Ohio.

Ohio Environmental Protection Agency (OEPA), April 15, 1994b, Biological and Water Quality Study of Mill Creek and Tributaries.

Ohio Hazardous Waste Facility Approval Board, 1981, Hazardous Waste Facility Installation and Operation Permit, Permit No. 05-31-0227, December 1981

Osborne, Robert H., November 1968, "American Upper Ordovician Standard. IX. Bedrock Geology of Eastern Hamilton County, Ohio." The American Association of Petroleum Geologists Bulletin, Vol. 52-11, pp. 2137-2152.

Osborne, Robert H., 1974, Bedrock Geology of the Cincinnati East Quadrangle, Hamilton County, Ohio. Ohio Division of Geological Survey, Report of Investigations No. 94.

PEDCo Environmental, Inc. (PEDCo), 1982, Investigation of Seepage into the Mill Creek at the Carstab Chemical Production Facility in Reading, Ohio, Cincinnati, Ohio, February.

PRC Environmental Management, Inc. (PRC), 1993, Expanded Site Inspection Report, Carstab Corporation (Morton International, Inc.) Site, Cincinnati, Ohio, May 7.

State of Ohio Hazardous Waste Facility Approval Board, December 8, 1981, State of Ohio Hazardous Waste Facility Installation and Operation Permit.

TechLaw, Inc. (TechLaw), 1998, Preliminary Assessment/Visual Site Inspection Report for Morton International, Inc., Reading, Ohio, July 8.

Thiokol, Inc. (Thiokol), June 10, 1980a, Interoffice Memorandum from R.J. Neubert to C.L. Adams.

Thiokol, Inc. (Thiokol), July 31, 1980b, Interoffice Memorandum from R.J. Neubert to C.L. Adams.

Thiokol, Inc. (Thiokol), July 2, 1981, Correspondence from Robert J. Neubert to Joseph Niehause.

Thiokol, Inc. (Thiokol), September 14, 1982a, Correspondence from Raymond F. Phillips to Kathleen Homer.

Thiokol, Inc. (Thiokol), September 17, 1982b, Closure Plan for Thiokol/Carstab Corporation, Reading Ohio.

Thiokol, Inc. (Thiokol), February 22, 1983a, Correspondence from Joseph A Mazzei to Mr. Thomas M. Ontko.

Thiokol, Inc. (Thiokol), June 3, 1983b, Correspondence from Robert C. Witman to Ben L. Pfefferle.

Thiokol, Inc. (Thiokol), December 5, 1995, Application to the OEPA for Permit to Install.

U.S. Army Corps of Engineers, Contamination Assessment of Mill Creek, August 1, 1990.

U.S. Environmental Protection Agency (USEPA), Region 5, August 18, 2000, Order Requiring Monitoring, Testing, Analysis, and Reporting, Morton International, Inc.

U.S. Geological Survey (USGS), 1948, Groundwater Resources of the Cincinnati Area Butler and Hamilton Counties, Ohio by Fred H. Klaer, Jr. and David G. Thompson.

TABLE 2-1
HYDROGEOLOGIC PARAMETERS
Morton Facility
Reading, Ohio

UPPER AQUIFER	RANGES			REFERENCE
General groundwater flow direction	Southwest			E&E, 1982; K-V, 1983; PRC, 1993
Estimated seasonal groundwater elevation fluctuation	2		feet	ATEC, 1983
Hydraulic Conductivity (K) sand	2.00E-03	to 1.20E-01	cm/s	ATEC, 1983
Hydraulic Conductivity (K) sand (literature value)	8.00E-02	to 2.50E-02	cm/s	PEDCo, 1982
Hydraulic Conductivity (K) sand (MW-6)	1.00E-05	to 1.00E-04	cm/s	PEDCo, 1982
Hydraulic Conductivity (K) sand	3.80E-04	to 8.10E-04	cm/s	E&E, 1982
Hydraulic Conductivity (K) clay underlying sand	1.20E-08	to 2.40E-08	cm/s	E&E, 1982
Seepage Discharge - summer and winter (low flow)	1,000	to 3,000	gal/day	ATEC, 1983
Seepage Discharge - spring and fall (high flow)	18,000	to 25,000	gal/day	ATEC, 1983
Seepage Discharge	20,000	to 60,000	gal/day	PEDCo, 1982
Seepage Discharge	38,024		gal/day	K-V, 1983
Gradient	0.013		unitless	ATEC, 1983
Gradient	0.023	to 0.03	unitless	E&E, 1982
Porosity	0.3		unitless	ATEC, 1983
Groundwater velocity (average seepage velocity)	14.20		ft/day	ATEC, 1983
Groundwater velocity	6.20		ft/day	PEDCo, 1982
Laboratory Hydraulic Conductivity (assumed vertical)	4.00E-06	to 2.77E-03	cm/s	ATEC, 1983
Laboratory Hydraulic Conductivity (triaxial)	1.00E-09	to 1.00E-08	cm/s	PEDCo, 1982
Average Well Yield - MW-11	2.8		gpm	ATEC, 1983
Average Well Yield - MW-13	0.1		gpm	ATEC, 1983
LOWER AQUIFER	**RANGES**			**REFERENCE**
General groundwater flow direction	South/Southeast			Conestoga-Rovers, 1996
Hydraulic Conductivity (K) - vicinity of the Pristine Site	4.00E-03	to 7.00E-02	cm/s	Conestoga-Rovers, 1996
Transmissivity (T) - vicinity of the Pristine Site	170,000		gpd/ft	Conestoga-Rovers, 1996
Hydraulic Conductivity (K) from slug tests	2.00E-03	to 1.00E-01	cm/s	Conestoga-Rovers, 1996
Hydraulic Conductivity (K) - vicinity of GE plant	6.50E-02	to 1.10E-01	cm/s	Conestoga-Rovers, 1996
Transmissivity (T) - vicinity of GE plant	168,000		gpd/ft	Conestoga-Rovers, 1996
Transmissivity (T) from the pumping tests (Theis)	12,400	to 53,200	gpd/ft	Conestoga-Rovers, 1996
Storativity (S)	3.88E-03	to 5.90E-03	unitless	Conestoga-Rovers, 1996
Well yield, City of Reading Well No. 15	900	to 1,100	gpm	Conestoga-Rovers, 1996

Note:
All hydrogeologic parameters were measured prior to the implementation of groundwater control in the area.

TABLE 3-1
SUMMARY OF WASTE MANAGEMENT AREAS
Morton Facility
Reading, Ohio

Identification	Description	AO Study Area Reference [1]	Release Potential [2]
SWMU 1	Former Surface Impoundments	16	High
SWMU 2	Former Neutralization Tank	17	Low
SWMU 3	Former Drum Storage Area	18	Moderate
SWMU 4	Hazardous Waste Drum Storage Area	NA	Low
SWMU 5	Former Sulfide Waste Treatment Tank	19	Low
SWMU 6	Groundwater Collection System	20	Low
SWMU 7	Groundwater Treatment Unit	20	Low
SWMU 8	Satellite Waste Accumulation Areas	NA	Low
SWMU 9	pH Control System	21	Low
SWMU 10	Former Swale Area	21	High
SWMU 11	Combined Sewer System	22	Moderate
Mill Creek Seeps	Seeps on east bank of Mill Creek, west of Morton Facility.	23	NA [4]
5000-Gallon Ignitable Waste Storage Tank	Formerly used for storage of "ignitable waste."	NI [3]	NA
12,000-Gallon Reactive Waste Storage Tank	Formerly used for storage of "reactive waste."	NI	NA
Wastewater Treatment Tank	Formerly used for wastewater treatment.	NI	NA
Waste Burial Location A	Burial location of small quantities of sodium and various lab samples, estimated total of 55 gallons.	NI	NA

TABLE 3-1
SUMMARY OF WASTE MANAGEMENT AREAS
Morton Facility
Reading, Ohio

Identification	Description	AO Study Area Reference [1]	Release Potential [2]
Waste Burial Location B	Through 1950, area was used to neutralize acid wastes. Burial location of excavation and building debris from Building 27 demolition.	NI	NA
Waste Burial Location C	Area was used to burn waste solvents (notably hexane, heptane, and methanol). Possible location of three drums, contents unknown, buried in lime and soda ash fill.	NI	NA
Waste Burial Location D	One drum of sulfur monochloride buried in lime and soda ash fill.	NI	NA
Waste Burial Location E	Possible location of one or two drums, contents unknown, buried in lime and soda ash fill.	NI	NA
Waste Burial Location F	Former burial location of pipes and equipment, including sodium metal in pipes, from a building explosion and fire. The debris was later removed.	NI	NA
Waste Burial Location G	Possible location of three drums, contents unknown, buried in lime and soda ash.	NI	NA

Notes:
1. The AO Study Area Reference corresponds to the paragraph within the Administrative Order (AO) that identifies the unit or location as a Study Area (USEPA, 2000).
2. The release potential was determined by USEPA Contractor TechLaw Inc. (TechLaw, 1998)
3. NI = Unit or location is not identified as a Study Area in the Administrative Order.
4. NA = Release potential not assigned by TechLaw, Inc.

TABLE 3-2
TREATMENT INFLUENT AND EFFLUENT WATER QUALITY
GROUNDWATER TREATMENT SYSTEM
FEBRUARY 1993 TO MAY 2000

Morton Facility
Reading, Ohio
Units: mg/l

	Range of Concentrations					
Constituent	**Before Treatment**			**After Treatment**		
Volatile Organic Compounds						
Benzene	<0.003	to	0.02			<0.003
Chlorobenzene	0.057	to	0.203	<0.003	to	0.0244
1,1-DCA	<0.003	to	0.012	<0.003	to	0.005
1,2-Dichlorobenzene	0.01	to	1.5	<0.005	to	0.0304
1,3-Dichlorobenzene	<0.005	to	0.129			<0.005
1,4-Dichlorobenzene	0.046	to	0.187	<0.005	to	0.0084
1,1-DCE	<0.003	to	0.007			<0.003
Ethylbenzene	<0.004	to	0.02			<0.003
Toluene	0.033	to	0.294	<0.002	to	0.0361
Carbon Tetrachloride			<0.003			<0.003
1,2-DCA			<0.002			<0.002
1,1,1-TCA			<0.001	<0.001	to	0.001
1,1,2-TCA	<0.003	to	0.005			<0.003
Chloroethane			<0.005			<0.005
Chloroform	<0.003	to	0.255			<0.003
trans 1,2-DCE			<0.003			<0.003
1,2-Dichloropropane			<0.003			<0.003
1,3-Dichloropropylene			<0.003			<0.003
Methylene Chloride	<0.005	to	0.014			<0.005
Methyl Chloride			<0.005			<0.005
TCE	<0.003	to	0.021			<0.003
PCE			<0.002			<0.002
Vinyl Chloride			<0.005			<0.005
Semivolatile Organic Compounds						
Acenapthene			<0.02			<0.02
Anthracene			<0.02			<0.02
Bis(2-ethylhexyl)phthalate	<0.04	to	0.058	<0.04	to	0.011
Di-n-butylphthalate			<0.02			<0.02
Diethyl phthalate			<0.02			<0.02
Dimethylphthalate	<0.02	to	0.238			<0.02
4,6-Dinitrocresol			<0.02			<0.02
Fluoranthene			<0.02			<0.02
Fluorene			<0.02			<0.02
Hexachlorobenzene			<0.02			<0.02
Hexachlorobutadine			<0.04			<0.04
Hexachloroethane			<0.02			<0.02
Naphthalene	<0.02	to	0.028			<0.02

TABLE 3-2
TREATMENT INFLUENT AND EFFLUENT WATER QUALITY
GROUNDWATER TREATMENT SYSTEM
FEBRUARY 1993 TO MAY 2000

Morton Facility
Reading, Ohio
Units: mg/l

	Range of Concentrations					
Constituent	**Before Treatment**			**After Treatment**		
Semivolatile Organic Compounds (Continued)						
Nitrobenzene			<0.02			<0.02
2-Nitrophenol			<0.02			<0.02
4-Nitrophenol			<0.04			<0.04
Phenanthrene			<0.02			<0.02
Pyrene			<0.02			<0.02
1,2,4-Trichlorobenzene			<0.02			<0.02
Metals						
Cadmium	<0.004	to	0.025	<0.004	to	0.024
Chromium			<0.010	<0.010	to	0.086
Copper	<0.010	to	0.077			<0.010
Mercury			<0.0002			<0.0002
Nickel	<0.015	to	0.06	<0.015	to	0.06
Lead			<0.020	<0.020	to	0.153
Zinc	<0.005	to	0.108	<0.005	to	0.102

Source:
Analytical reports from Morton International, Inc. files.

Chemical abbreviations:
1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
1,1-DCE = 1,1-Dichloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane
trans 1,2-DCE = trans 1,2-Dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene
< = Compound was not detected at the indicated reporting limit.

TABLE 4-1
GROUNDWATER ANALYTICAL RESULTS FROM ON-SITE LOWER AQUIFER WELLS
Morton Facility
Reading, Ohio
Units: µg/l

Well ID.	Sample Date	Reference	VOCs																
			1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE (total)	1,1,1-TCA	1,1,2-TCA	cis-1,2-DCE	trans-1,2-DCE	Acetone	Benzene	Chlorobenzene	Chloroethane	Chloroform	Ethylbenzene	Methylene Chloride	MIBK	TCE
MW84	9/19/1997	1	2 J	150	<10	4 J	39	13	NA	NA	<10	<10	<10	<10	48	<10	3 J	<10	<10
MW84	9/11/1998	1	10	250	<10	<10	37	<10	NA	NA	NA	<10	<10	<10	32	<10	<10	<10	<10
MW84	8/9/1999	2	NA	350	<12	NA	19	NA	13	<12	NA	<12	1.9 J	NA	25	<12	NA	NA	<12
MW85	9/19/1997	1	<25	450	<25	<25	<25	<25	NA	NA	<50	<25	<25	<25	8 J	<25	13 KJ	<50	<25
MW85	9/11/1998	2	<10	240	<10	<10	15	<10	NA	NA	NA	<10	<10	<10	31	<10	<10	<10	<10
MW85	8/10/1999	2	NA	210	<8.3	NA	8.5	NA	23	<8.3	NA	<8.3	<8.3	NA	<14	<8.3	NA	NA	<8.3
MW86	Range through 1997	1	NA	26,000-40,000	NA	ND	NA	ND	NA	NA	ND	ND	480	ND	99-270	ND	420-940	ND	440
MW86	9/20/1997	1	<1200	26,000	260 J	<1200	<1200	<1200	NA	NA	<2500	<1200	480 J	<1200	<1200	<1200	940 KJ	<2500	440 J
MW86	9/10/1998	2	19	10,000	<10	11	<10	44	NA	NA	NA	23	<10	13	290 E	<10	<10	14	<10
MW86	12/21/1999	2	NA	2200	<200	NA	<200	NA	<200	<200	NA	21 J	<200	NA	<270	<200	NA	NA	<200
MW87	Range through 1997	1	NA	2	NA	ND	NA	ND	NA	NA	16	16	ND	ND	0.7	ND	ND	4	ND
MW87	9/17/1997	1	<10	2 J	<10	<10	<10	<10	NA	NA	16	16	<10	<10	<10	<10	<10	4 J	<10
MW87	8/27/1998	2	<10	<10	<10	<10	<10	<10	NA	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10
MW87	8/12/1999	2	NA	0.67 J	<1.0	NA	<1.0	NA	<1.0	<1.0	NA	<1.0	0.11 J	NA	<1.0	<1.0	NA	NA	<1.0
MW88	Range through 1997	1	NA	10-77	NA	ND	NA	ND	NA	NA	28	19	ND	ND	5.7	ND	ND	ND	ND
MW88	9/17/1997	1	<10	14	<10	<10	<10	<10	NA	NA	28	<10	<10	<10	<10	<10	<10	<10	<10
MW88	8/31/1998	2	<10	34	<10	<10	<10	<10	NA	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10
MW88	8/12/1999	2	NA	1500	<50	NA	<50	NA	<50	<50	NA	<50	<50	NA	76	<50	NA	NA	12 J
MW89	Range through 1997	1	NA	1200-3400	NA	ND	NA	ND	NA	NA	77-200	ND	ND	ND	84-150	ND	32	ND	ND
MW89	9/20/1997	1	<50	1200	<50	<50	<50	<50	NA	NA	77 J	<50	<50	<50	<50	<50	32 KJ	<100	<50
MW89	8/31/1998	2	12	3200	<10	26	<10	<10	NA	NA	NA	<10	<10	22	44	<10	NA	<10	60 E
MW89	12/21/1999	2	NA	750	<40	NA	<40	NA	9.3 J	<40	NA	8.4 J	<40	NA	40 U	<40	NA	NA	13 J

TABLE 4-1
GROUNDWATER ANALYTICAL RESULTS FROM ON-SITE LOWER AQUIFER WELLS
Morton Facility
Reading, Ohio
Units: µg/l

			VOCs		SVOC	Inorganics										
Well ID.	Sample Date	Reference	Toluene	Vinyl Choride	Bis(2-ethylhexyl)phthalate	Aluminum	Arsenic	Cadmium	Calcium	Copper	Iron	Lead	Magnesium	Manganese	Sodium	Zinc
MW84	9/19/1997	1	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW84	9/11/1998	1	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW84	8/9/1999	2	1.7 J	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW85	9/19/1997	1	<25	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW85	9/11/1998	2	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW85	8/10/1999	2	<8.3	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW86	Range through 1997	1	430	180	9.9	550	ND	ND	398,000-407,000	ND	10,700-15,100	ND	116,000-118,000	1100	110,000	120
MW86	9/20/1997	1	430 J	<1200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW86	9/10/1998	2	<10	110 E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW86	12/21/1999	2	<200	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW87	Range through 1997	1	ND	ND	ND	490-720	ND	5.0-7.6	154,000-170,000	28-140	7700-12,000	3.4-3.5	38,900-42,700	790-840	26,800-29,600	250-310
MW87	9/17/1997	1	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW87	8/27/1998	2	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW87	8/12/1999	2	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW88	Range through 1997	1	ND	ND	ND	430	ND	ND	141,000-143,000	ND	700-3000	ND	41,100-42,900	820-830	64,700-69,600	ND
MW88	9/17/1997	1	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW88	8/31/1998	2	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW88	8/12/1999	2	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW89	Range through 1997	1	ND	ND	21-23	240-290	14-21	ND	194,000-204,000	ND	1900-9700	ND	52,800-55,400	2500-2700	168,000-181,000	ND
MW89	9/20/1997	1	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW89	8/31/1998	2	<10	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW89	12/21/1999	2	<40	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

References:
1. Conestoga-Rovers & Associates, 1998
2. Conestoga-Rovers & Associates, 2000

Data Qualifiers:
J = Estimated result
K = Spike recovery was not within control limits.
E = Concentrations exceeded calibration range.

Notes:
MW84 - MW89 are owned by the Pristine, Inc. Site.
This table is not intended to be an all-inclusive summary of sampling events.
Additional data from other sampling events may be available in other sources.
Table only lists compounds detected during the sampling events.
VOCs = Volatile organic compounds
SVOC = Semivolatile organic compound
NA = Not analyzed
ND = Not detected; detection limit was not specified in source document.
Shaded areas indicate parameters that were not analyzed.
Shaded areas indicate parameters that were not detected.

Chemical abbreviations:
1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
1,1-DCE = 1,1-Dichloroethene
1,2-DCE (total) = 1,2-Dichloroethene (total)
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane
cis-1,2-DCE = cis-1,2-Dichloroethene
trans-1,2,-DCE = trans-1,2-Dichloroethene
MIBK = Methyl isobutyl ketone or 4-Methyl-2-pentanone
TCE = Trichloroethene

TABLE 5-1
SUMMARY OF PREVIOUS INVESTIGATIONS
Morton Facility
Reading, Ohio

No.	Performed By	Performed For	Year Performed	Document	Scope
1	Cincinnati Milacron Chemicals, Inc.	Cincinnati Milacron Chemicals, Inc.	1976 and 1978	Cincinnati Milacron Chemicals, Inc. Interoffice Memorandum (Cincinnati Milacron Chemicals, Inc., 1979)	• In 1976, collected soil samples from 14 locations in the northeast quadrant of the facility. Analyzed samples for tin. • In 1978, collected soil samples from 11 locations in the northeast quadrant of the facility. Analyzed samples for tin. • In 1978 collected soil samples from Mill Creek bank, approximately two feet above the water table. Samples were collected from two depth intervals (surface and 12 inches below surface) at four locations. Analyzed samples for tin.

TABLE 5-1
SUMMARY OF PREVIOUS INVESTIGATIONS
Morton Facility
Reading, Ohio

No.	Performed By	Performed For	Year Performed	Document	Scope
2	Ohio Environmental Protection Agency (OEPA)	OEPA	June and July 1980, August 1982, January 1983	Ohio EPA Initial Pollution Incident Report, and District Office Investigation Report (OEPA, 1980); Analyses of Samples from Mill Creek Near Carstab Corporation (Bautista, 1983); OEPA Interoffice Memorandum (OEPA, 1983)	• Interviewed plant personnel. • Toured facility, including nine locations of reported waste burial. • Drilled exploratory holes to depths ranging from 4 to 18 feet below ground surface at approximately 10 locations. • Used a metal detector to investigate an alleged drum burial location. • Examined soil and liquid samples from the drilling for visual staining and/or odor. • Collected one Mill Creek seep sample. Analyzed sample for metals and extractable organics. • In August 1982, collected 11 composite Mill Creek seep samples. Analyzed samples for pH, TOC, and COD. • In January 1983, collected Mill Creek seep sample. Analyzed sample for VOCs and SVOCs.

TABLE 5-1
SUMMARY OF PREVIOUS INVESTIGATIONS
Morton Facility
Reading, Ohio

No.	Performed By	Performed For	Year Performed	Document	Scope
3	Ecology & Environment, Inc. Under the Field Investigation Team Program	USEPA	July 1980 - January 1981	Hydrogeologic Report of the Pristine-Cincinnati Drum-Carstab Site in Reading, Ohio (E&E, 1982)	• The study included the Pristine Inc. Site, the Cincinnati Drum property, and the Morton (Carstab) Facility. • Performed a metal detection survey of parking lot, the field west and northwest of parking lot, and south of the Morton Facility. • Collected six surface water samples from Mill Creek. Analyzed samples for organics. • Collected nine surface soil and sediment samples across the three properties. Analyzed samples for VOCs, SVOCs, and metals/inorganics. • Installed 11 borings with 10 monitoring wells (E1 to E11) across the three properties. • Collected groundwater samples from 15 monitoring wells, including eight of the ten new monitoring wells. Analyzed samples for VOCs, SVOCs, and metals/inorganics.

TABLE 5-1
SUMMARY OF PREVIOUS INVESTIGATIONS
Morton Facility
Reading, Ohio

No.	Performed By	Performed For	Year Performed	Document	Scope
4	PEDCo. Environmental, Inc.	Thiokol, Inc.	December 1980	Investigation of Seepage into Mill Creek (PEDCo, 1982)	• Installed 10 monitoring wells. • Measured groundwater elevations in monitoring wells. • Collected groundwater samples from the 10 monitoring wells. • Collected two composite water samples from seeps along the east bank of Mill Creek • Analyzed all water samples for metals and major anions and cations. • Analyzed water from seeps, MW-1, MW-2, MW-5, MW-7, and MW-9 for BNA extractable organics. • Collected soil cores from borings for geologic description. • Measured laboratory permeabilities of soil core samples from the clay underlying the uppermost saturated sand.
5	Thiokol Environmental Analysis Group, Paul Bautista	Thiokol, Inc.	1981-1982	Monitoring of Groundwaters at Carstab Corp (Bautista, 1983)	• Sampled PEDCo-installed wells for a one-year period. • Analyzed groundwater samples for pH, chloride, TOC, and arsenic. • Evaluated flow of groundwater and extent of groundwater contamination.

TABLE 5-1
SUMMARY OF PREVIOUS INVESTIGATIONS
Morton Facility
Reading, Ohio

No.	Performed By	Performed For	Year Performed	Document	Scope
6	K-V Associates, Inc.	Thiokol, Inc.	1983	Hydrogeologic Investigation (K-V, 1983)	• Installed two monitoring wells. • Measured groundwater velocity profiles in selected site wells. • Analyzed the direction and rate of Upper Aquifer groundwater flow across the site.
7	ATEC Associates, Inc./Salisbury Engineering	Thiokol, Inc.	1983	Hydrogeologic Assessment (ATEC, 1983)	• Installed six permanent monitoring wells. • Analyzed soil samples for grain size and laboratory permeability • Collected groundwater samples from 19 wells, including the six new monitoring wells. • Analyzed groundwater samples for sulfur, chloride and TOC. • Installed seven temporary wells for pump test observation. • Performed pump tests in selected Upper Aquifer wells.
8	Ecology and Environment, Inc.	USEPA	October 1990	Screening Site Inspection Report (E&E, 1991)	• Interviewed plant personnel. • Collected a total of seven samples from soil and sediment sampling locations. • Analyzed soil and sediment samples for VOCs, SVOCs, pesticides, PCBs, and metals/ inorganics. • Collected groundwater samples and measured water levels from five existing wells. • Analyzed groundwater samples for VOCS, SVOCs, and metals/inorganics.

TABLE 5-1
SUMMARY OF PREVIOUS INVESTIGATIONS
Morton Facility
Reading, Ohio

No.	Performed By	Performed For	Year Performed	Document	Scope
9	PRC Environmental Management Inc. (USEPA Field Investigation Team Contractor)	USEPA	1992	Expanded Site Inspection (PRC, 1993)	• Performed data review, document review, and site reconnaissance. • Interviewed plant personnel. • Installed four monitoring wells. • Collected groundwater samples from nine monitoring wells (including the four new monitoring wells). • Sampled two Reading Municipal Supply Wells. • Analyzed groundwater samples for VOCs, SVOCs, pesticides, and metals/inorganics. • Measured water levels in all sampled monitoring wells. • Collected seven surface soil samples. Analyzed samples for SVOCs, pesticides and PCBs, and metals/inorganics. • Collected three sediment samples from Mill Creek. Analyzed samples for VOCs, SVOCs, pesticides, and metals/inorganics.

TABLE 5-1
SUMMARY OF PREVIOUS INVESTIGATIONS
Morton Facility
Reading, Ohio

No.	Performed By	Performed For	Year Performed	Document	Scope
10	IT Corporation	Morton Specialty Chemical Products	1992	Soil Contamination, Determination, Disposal Alternatives and Groundwater Management and Treatment Alternative Report (IT, 1992)	• Drilled two soil borings to a depth of 14 feet in the neutralization basin excavation area. • Drilled two soil borings to a depth of 8 feet along the sewer lines to be excavated for the basin structure. • Collected four composite samples from the soil borings. Analyzed the samples for TCLP and Total VOCs, SVOCs, Metals; TCLP herbicides/pesticides; pH; flashpoint; total and reactive cyanide and sulfide, and PCBs. • Performed a "Theis Well Field Model" to evaluate pumping rates required to maintain a water table elevation below excavation depth. • Evaluated groundwater treatment.
11	TechLaw, Inc.	USEPA	1998	Preliminary Assessment/Visual Site Inspection Report (TechLaw, 1998)	• Performed reconnaissance of facility. • Interviewed plant personnel.

Notes:
BNA – Base Neutral Acids
GC/MS- Gas Chromatography/Mass Spectrometry
OEPA - Ohio Environmental Protection Agency
PCBs - Polychlorinated Biphenyls
SVOCs - Semivolatile Organic Constituents
TCLP – Toxicity Characteristic Leaching Procedure
TOC - Total Organic Carbon
USEPA – United States Environmental Protection Agency
VOCs - Volatile Organic Constituents

TABLE 5-2
SUMMARY OF MONITORING WELL CONSTRUCTION
Morton Facility
Reading, Ohio

Well Identification	Other Ids	Installed by	Date Constructed	Top of Casing Elevation[1]	Grout Seal Interval (ft. bgs)	Bentonite Seal Interval (ft. bgs)	Filter Pack Interval (ft. bgs)	Screened Interval (ft. bgs)	Depth of Boring (ft. bgs)	Well Casing Diameter (inches)	Screen Slot Size (inches)	Well Materials
MW-1	MW1, C1	PEDCo	12/9/1980	568.27	NA	NA	NA	9.0 - 19.0	20.5	1.5	0.010	PVC
MW-2	MW2, C2	PEDCo	12/9/1980	558.5	NA	NA	NA	10.0 - 20.0	20.5	1.5	0.010	PVC
MW-3	MW3, C3	PEDCo	12/16/1980	552.45	NA	NA	NA	9.5 - 19.5	19.5	1.5	0.010	PVC
MW-4	MW4, C4	PEDCo	12/17/1980	554.02	NA	NA	NA	9.0 - 17.0	18.5	1.5	0.010	PVC
MW-5	MW5, C5	PEDCo	12/17/1980	554.62	NA	NA	NA	6.0 - 16.0	18.0	1.5	0.010	PVC
MW-6	MW6, C6	PEDCo	12/17/1980	554.52	NA	NA	NA	7.5 - 17.5	19.0	1.5	0.010	PVC
MW-7	MW7, C7	PEDCo	12/17/1980	558.29	NA	NA	NA	10.5 - 20.5	21.5	1.5	0.010	PVC
MW-8	MW8	PEDCo	12/17/1980	558.49	NA	NA	NA	6.0 - 16.0	18.0	1.5	0.010	PVC
MW-9	MW9	PEDCo	12/18/1980	554.84	NA	NA	NA	6.0 - 16.0	18.0	1.5	0.010	PVC
MW-10	MW10	PEDCo	12/18/1980	558.46	NA	NA	NA	5.0 - 15.0	16.5	1.5	0.010	PVC
MW-11	MW11	ATEC	7/12/1983	555.56	NA	NA	NA	7.0 - 17.0	17.5	2	0.010	PVC
MW-11B	NA	ATEC	7/1983	555.35	NA	NA	NA	6.0 - 16.0	16.5	2	0.010	PVC
MW-12	MW12	ATEC	7/8/1983	553.66	NA	NA	NA	8.92 - 18.92	19.0	2	0.020	PVC
MW-13	MW13	ATEC	7/8/1983	553.65	NA	NA	NA	13.83 - 18.83	21.5	4	0.020	PVC
MW-13B	NA	ATEC	7/1983	553.10	NA	NA	NA	6.5 - 16.5	17.0	2	0.025	PVC
MW-14	MW14	ATEC	7/11/1983	561.26	NA	NA	NA	9.0 - 19.0	30.0	2	0.020	PVC
MW-15	MW15	ATEC	7/11/1983	565.09	NA	NA	NA	17.0 - 27.0	27.5	2	0.020	PVC
MW-16	MW16	ATEC	7/12/1983	563.63	NA	NA	NA	19.5 - 29.5	30.0	2	0.010	PVC
MW-E1	E1	H.C. Nutting Co.	1/6/1981	NA	0 - 2	2 - 4	4 - 20	15 -20	21.5	2	0.026	SS/Gal
MW-E2	E2	H.C. Nutting Co.	1/7/1981	NA	0 - 16.5	16.5 - 18.5	18.5 -26	21 - 26	27.0	2	0.026	SS/Gal
MW-E3	E3	H.C. Nutting Co.	1/8/1981	NA	0 - 8	8 - 10	10 - 20	15 -20	21.5	2	0.026	SS/Gal
MW-EPA-1	NA	PRC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-EPA-2	NA	PRC	9/14/1992	575.72	1 - 6	6 - 8	8 - 20.75	10.5 - 20.5	20.75	2	0.010	SS
MW-EPA-3	NA	PRC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-EPA-4	NA	PRC	9/15/1992	560.85	1.5 -12.5	12.5 - 14	14 -21.5	16.5 - 21.5	21.5	2	0.010	SS
KV-1	NW-1, NW 1	K-V	1983	NA	NA	NA	NA	NA	NA	NA	NA	NA
KV-2	NW-2, NW 2	K-V	1983	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
ft. bgs = feet below ground surface
NA = Not available
MW-11B located 5.0' west of MW-11
MW-13B located 5.0' north of MW-13
[1]It is believed that measurements are relative to Mean Sea Level (MSL).

Definitions:
SS/Gal = Stainless steel screen with galvanized steel riser
SS = Stainless steel screen and riser
PVC = PVC screen and riser

References:
PEDCo Environmental, 1982
ATEC Associates, Inc., 1983
K-V Associates, Inc., 1983
PRC Environmental Management, Inc., 1993

TABLE 5-2

TABLE 5-3
SOIL AND SEDIMENT ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
Morton Facility
Reading, Ohio
Units: mg/kg

Sample ID	Sample Depth	Sample Date	Reference	1,1-DCA	1,2-DCA	Carbon Disulfide	Chlorobenzene	Ethylbenzene	MEK	Methylene chloride	Toluene	Xylenes (total)
MW-E1	5.0-6.5	1/1981	1	NA	NA	NA	NA	NA	TIC	120	0.4	NA
MW-E1	10.0-11.5	1/1981	1	NA	NA	NA	NA	NA	TIC	136	2	NA
MW-E1	15.0-16.5	1/1981	1	NA	NA	NA	NA	NA	TIC	65	2.4	NA
MW-E3	5.0-6.5	1/1981	1	NA	NA	NA	NA	NA	TIC	35	3	NA
MW-E3	10.0-11.5	1/1981	1	NA	NA	NA	NA	NA	TIC	130	1	NA
MW-E3	15.0-16.5	1/1981	1	NA	NA	NA	NA	NA	TIC	132	1	NA
S1	9'	10/1/1990	2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	NA	<0.005	<0.005
S2	7'	10/1/1990	2	<0.005	<0.005	<0.005	12 J	1.6 J	<0.01	NA	5 J	10 J
S3	Sediment	10/1/1990	2	<0.005	0.002 J	0.037 J	0.054 J	0.082 J	0.18 J	NA	<0.005	0.082 J
S4	0-6"	10/1/1990	2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	NA	<0.005	<0.005
S5	0-6"	10/1/1990	2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	NA	<0.005	<0.005
S6	0-6"	10/1/1990	2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	NA	<0.005	<0.005
S7	0-6"	10/1/1990	2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	NA	<0.005	<0.005
S-10	Sediment	9/23/1992	3	<0.01	NA	NA	<0.01	<0.01	NA	NA	NA	NA
S-11	Sediment	9/23/1992	3	0.002 J	NA	NA	0.016	0.002 J	NA	NA	NA	NA
S-12	Sediment	9/23/1992	3	<0.01	NA	NA	<0.01	<0.01	NA	NA	NA	NA
SS-1	0-6"	9/23/1992	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-2	0-6"	9/23/1992	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-3	0-6"	9/23/1992	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-4	Soil Piles	9/23/1992	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-5	Soil Piles	9/23/1992	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-6	0-6"	9/23/1992	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-7	0-6"	9/23/1992	3	NA	NA	NA	NA	NA	NA	NA	NA	NA

References:
1. Ecology and Environment, Inc., 1982
2. Ecology and Environment, Inc., 1991
3. PRC Environmental Management, Inc., 1993

Notes:
NA = It is believed that sample was not analyzed for this compound.
TIC = Compound was tentatively identified but not quantified.
Unless indicated, tentatively identified compounds (TICs) have not been summarized in this table.
Table only lists the compounds detected during the sampling events.
Shaded areas indicate parameters that were not analyzed
Shaded areas indicate parameters that were not detected

Qualifier Definitions:
J = Estimated value. Value may be quantitative or semiquantitative.

Chemical Abbreviations:
1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
MEK = 2-Butanone or methyl ethyl ketone

TABLE 5-4
SOIL AND SEDIMENT ANALYTICAL RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS AND PESTICIDES
Morton Facility
Reading, Ohio
Units: mg/kg

Sample ID	Sample Depth	Sample Date	Reference	SVOCs																										
				1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Methylnaphthalene	4-Methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Bis(2-chloroethyl)ether	Bis (2-chloroisopropyl)ether	Bis(2-ethylhexyl)phthalate	Butylbenzylphthalate	Carbazole	Chrysene	Dibenzo(a,h) anthracene	Dibenzofuran	Diethylphthalate	Di-n-butylphthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Indeno (1,2,3-cd)pyrene	Naphthalene
MW-E1	5.0-6.5	1/1981	1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	0.5	NA	NA	NA	NA	NA
MW-E1	10.0-11.5	1/1981	1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
MW-E1	15.0-16.5	1/1981	1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.589	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA
MW-E3	5.0-6.5	1/1981	1	0.77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA
MW-E3	10.0-11.5	1/1981	1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA
MW-E3	15.0-16.5	1/1981	1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
S1	9'	10/1/1990	2	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	4.4	<0.33	<0.33	<0.33	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
S2	7'	10/1/1990	2	3300 D	59	280	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
S3	Sediment	10/1/1990	2	0.67 J	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.37 J	0.44 J	0.54 J	<0.33	0.4 J	<0.33	0.28 J	0.5 J	<0.33	NA	0.53 J	<0.33	<0.33	<0.33	<0.33	<0.33	1.0	<0.33	<0.33	<0.33
S4	0-6"	10/1/1990	2	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	5.9	<0.33	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
S5	0-6"	10/1/1990	2	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
S6	0-6"	10/1/1990	2	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.13 J	0.22 J	0.21 J	0.47	<0.33	<0.33	<0.33	<0.33	0.21 J	<0.33	NA	0.27 J	<0.33	<0.33	<0.33	<0.33	<0.33	0.5	<0.33	<0.33	<0.33
S7	0-6"	10/1/1990	2	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.17 J	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.2 J	<0.33	<0.33	<0.33
S-10	Sediment	9/23/1992	3	<0.33	NA	NA	NA	NA	0.073 J	0.057 J	0.22 J	1.1	0.96	0.96	0.62	0.87	NA	NA	0.075 J	NA	0.16 J	1.1	0.34 J	0.057 J	NA	0.074 J	NA	2.1	0.13 J	0.66	NA
S-11	Sediment	9/23/1992	3	0.056 J	NA	NA	NA	NA	<0.33	<0.33	0.034 J	0.2 J	0.19 J	0.27 J	0.16 J	0.18 J	NA	NA	0.093 J	NA	0.092 J	0.27 J	0.07 J	<0.33	NA	0.034 J	NA	0.65	<0.33	0.17 J	NA
S-12	Sediment	9/23/1992	3	0.042 J	NA	NA	NA	NA	0.032 J	<0.33	0.071 J	0.36 J	0.32 J	0.43	0.28 J	0.31 J	NA	NA	0.21 J	NA	0.063 J	0.41	0.099 J	0.024 J	NA	<0.33	NA	0.97	0.045 J	0.26 J	NA
SS-1	0-6"	9/23/1992	3	NA	NA	NA	<0.01	<0.01	<0.33	<0.33	<0.33	0.068 J	0.11 J	0.23 JXR	<0.33	0.23 JXR	NA	NA	1.2	<0.33	<0.33	0.17 J	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.01
SS-2	0-6"	9/23/1992	3	NA	NA	NA	<0.01	<0.01	<0.33	<0.33	<0.33	<0.33	<0.33	0.12 JXR	<0.33	0.12 JXR	NA	NA	<0.33	<0.33	<0.33	0.058 J	<0.33	<0.33	<0.33	<0.33	<0.33	0.082 J	<0.33	<0.33	<0.01
SS-3	0-6"	9/23/1992	3	NA	NA	NA	<0.01	0.076 J	<0.33	<0.33	<0.33	0.24 J	0.23 J	0.670 XR	0.14 J	0.67 XR	NA	NA	12 BDJ	0.39 J	0.11 J	0.4 J	<0.33	<0.33	0.064 J	0.093 J	2.4	0.33 J	<0.33	0.18 J	<0.01
SS-4	Soil Piles	9/23/1992	3	NA	NA	NA	0.064 J	<0.01	<0.33	<0.33	<0.33	0.15 J	0.18 J	0.46 JXR	<0.33	0.46 JXR	NA	NA	2.3 BJ	<0.33	0.076 J	0.43 J	<0.33	<0.33	<0.33	<0.33	<0.33	0.29 J	0.077 J	<0.33	<0.01
SS-5	Soil Piles	9/23/1992	3	NA	NA	NA	<0.01	<0.01	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	NA	NA	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.01
SS-6	0-6"	9/23/1992	3	NA	NA	NA	<0.01	<0.01	0.084 J	0.085 J	0.4 J	1.9	1.7	4 XR	1.4	4 XR	NA	NA	<0.33	<0.33	0.22 J	1.9	0.33 J	0.068 J	<0.33	<0.33	<0.33	3.4	0.13 J	1.4	<0.01
SS-7	0-6"	9/23/1992	3	NA	NA	NA	0.088 J	<0.01	0.37 J	<0.33	1.5	10 D	7.6	19 DXR	3.3	19 DXR	NA	NA	<0.33	<0.33	0.65	9.2 D	0.9	0.15 J	<0.33	0.082 J	<0.33	23 D	0.44 J	3.6	0.074 J

TABLE 5-4
SOIL AND SEDIMENT ANALYTICAL RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS AND PESTICIDES

Morton Facility
Reading, Ohio
Units: mg/kg

				SVOCs			PESTICIDES																	PCB
Sample ID	Sample Depth	Sample Date	Reference	Phenanthrene	Phenol	Pyrene	4,4'-DDD	4,4'-DDE	Aldrin	alpha Chlordane	beta-BHC	delta-BHC	Dieldrin	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma Chlordane	gamma BHC (lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Aroclor 1254
MW-E1	5.0-6.5	1/1981	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA
MW-E1	10.0-11.5	1/1981	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA
MW-E1	15.0-16.5	1/1981	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA
MW-E3	5.0-6.5	1/1981	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA
MW-E3	10.0-11.5	1/1981	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA
MW-E3	15.0-16.5	1/1981	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA
S1	9'	10/1/1990	2	<0.33	<0.33	<0.33	<0.016	<0.016	<0.008	<0.08	<0.008	<0.008	<0.016	<0.016	<0.016	<0.016	NA	<0.016	<0.08	<0.008	<0.008	<0.008	<0.08	<0.16
S2	7'	10/1/1990	2	<0.33	<0.33	<0.33	<0.016	<0.016	<0.008	<0.08	<0.008	<0.008	<0.016	<0.016	<0.016	<0.016	NA	<0.016	<0.08	<0.008	<0.008	<0.008	<0.08	<0.16
S3	Sediment	10/1/1990	2	0.54 J	<0.33	0.74 J	<0.016	<0.016	<0.008	<0.08	<0.008	<0.008	<0.016	<0.016	<0.016	<0.016	NA	<0.016	<0.08	<0.008	<0.008	<0.008	<0.08	<0.16
S4	0-6"	10/1/1990	2	<0.33	<0.33	<0.33	<0.016	<0.016	<0.008	<0.08	<0.008	<0.008	<0.016	<0.016	<0.016	<0.016	NA	<0.016	<0.08	<0.008	<0.008	<0.008	<0.08	0.55
S5	0-6"	10/1/1990	2	<0.33	<0.33	<0.33	<0.016	<0.016	<0.008	<0.08	<0.008	<0.008	<0.016	<0.016	<0.016	<0.016	NA	<0.016	<0.08	<0.008	<0.008	<0.008	<0.08	<0.16
S6	0-6"	10/1/1990	2	0.5	<0.33	<0.33	<0.016	<0.016	<0.008	<0.08	<0.008	<0.008	<0.016	<0.016	<0.016	<0.016	NA	<0.016	<0.08	<0.008	<0.008	<0.008	<0.08	<0.16
S7	0-6"	10/1/1990	2	0.084 J	<0.33	<0.33	<0.016	<0.016	<0.008	<0.08	<0.008	<0.008	<0.016	<0.016	<0.016	<0.016	NA	<0.016	<0.08	<0.008	<0.008	<0.008	<0.08	<0.16
S-10	Sediment	9/23/1992	3	1.1	NA	1.8	NA	NA	0.00081 J	0.0026	NA	NA	0.00072 JP	NA	NA	NA	NA	0.00089 JP	0.0035 P	<0.0017	0.00039 JP	NA	0.0021 JP	<0.033
S-11	Sediment	9/23/1992	3	0.3 J	NA	0.48	NA	NA	<0.0017	<0.0017	NA	NA	<0.0033	NA	NA	NA	NA	0.0012 JP	<0.0017	0.00076 JP	0.0014 JP	NA	<0.017	0.06 P
S-12	Sediment	9/23/1992	3	0.54	NA	0.85	NA	NA	<0.0017	<0.0017	NA	NA	<0.0033	NA	NA	NA	NA	0.0012 J	<0.0017	<0.0017	0.00071 JP	NA	<0.017	0.12
SS-1	0-6"	9/23/1992	3	0.077 J	<0.01	0.14 J	<0.0033	0.0019 JP	0.00029 JP	0.0051 PJ	<0.0017	<0.0017	<0.0033	<0.0033	0.0065 PJ	<0.0033	0.0018 JP	0.0099 J	0.0079 PJ	0.00015 JP	<0.0017	0.0054 P	0.01 JP	0.22 P*J
SS-2	0-6"	9/23/1992	3	<0.33	<0.01	0.068 J	<0.0033	<0.0033	0.00029 JP	0.0016 JP	<0.0017	<0.0017	0.0035 JP	<0.0033	0.0015 JP	<0.0033	0.001 JP	<0.0033	0.00026 JP	<0.0017	0.00024 JP	<0.0017	0.0016 JP	0.14 *J
SS-3	0-6"	9/23/1992	3	0.29 J	0.25 J	0.4 J	<0.0033	<0.0033	0.00053 JP	0.0065 PJ	<0.0017	<0.0017	<0.0033	<0.0033	<0.0033	<0.0033	0.0071 PJ	0.0029 JP	0.0022 JP	<0.0017	<0.0017	<0.0017	0.028 PJ	0.5 *J
SS-4	Soil Piles	9/23/1992	3	0.37 J	<0.01	0.45 J	0.0014 J	0.00093 JP	0.00091 JP	0.002 JP	<0.0017	<0.0017	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	0.0012 JP	0.00044 JP	0.00021 JP	0.00063 JP	<0.0017	0.0017 JP	0.11 P*
SS-5	Soil Piles	9/23/1992	3	<0.33	<0.01	<0.33	0.00024 JP	0.0014 JP	<0.0017	0.00024 JP	0.00054 JP	0.00021 JP	<0.0033	<0.0033	0.00023 JP	<0.0033	0.00039 JP	0.00046 JP	0.0013 JP	0.00044 JP	0.00027 JP	<0.0017	<0.017	0.014 J
SS-6	0-6"	9/23/1992	3	1.9	<0.01	2.8 J	<0.0033 J	0.01 PJ	0.0016 JP	0.0016 JP	<0.0017	<0.0017	0.0006 JP	0.003 JP	0.0068 PJ	0.0087 PJ	0.00067 JP	0.0098 PJ	0.0015 JP	0.000086	0.000099 JP	0.00059 JP	0.17 J	<0.033
SS-7	0-6"	9/23/1992	3	6.3	<0.01	15 D	0.007 JP	<0.0033	<0.0017	0.02 PJ	<0.0017	<0.0017	<0.0033	<0.0033	0.031 PJ	0.031 P	0.12 PJ	0.0011 JP	0.00155 PJ	0.0017 JP	<0.0017	<0.0017	<0.017	1 P*J

References:
1. Ecology and Environment, Inc., 1982
2. Ecology and Environment, Inc., 1991
3. PRC Environmental Management, Inc., 1993

Notes:
SVOCs = Semivolatile organic compounds
PCB = Polychlorinated biphenyl
ND = Compound was not detected; detection limit was not specified in source document.
NA = It is believed that sample was not analyzed for this compound. The source document did not report the analysis of this compound.
Unless indicated, tentatively identified compounds (TICs) have not been summarized in this table.
Table only lists the compounds detected during the sampling events.
Shaded areas are a visual tool to indicate parameters that were not analyzed.
Shaded areas are a visual tool to indicate parameters that were not detected.

Qualifier Definitions:
* = Duplicate value outside QC protocols which indicates a possible matrix problem. Value may be quantitative or semiquantitative.
B = Value is real, but is above instrument detection limit and below contract required detection limit. Value may be quantitative or semiquantiative.
D = Compound identified in sample re-analysis at a secondary dilution. Value is quantitative.
J = Estimated value. Value may be quantitative or semiquantitative.
P = Used for pesticide compounds when there is > 25% difference in the detected concentrations from the two parallel gas chromatograph columns. The lower of the two values is reported.
R = Results were rejected because of a violation to quality control protocols.
X = This flag denotes indistinguishable coeluting isomers.

Chemical Abbreviations:
4,4'-DDD = 4,4'-Dichlorodiphenyldichloroethane
4,4'-DDE = 4,4'-Dichlorodiphenyldichloroethylene
BHC = Benzene hexachloride

TABLE 5-5
SOIL AND SEDIMENT ANALYTICAL RESULTS - INORGANICS
Morton Facility
Reading, Ohio
Units: mg/kg

Sample ID	Sample Depth	Sample Date	Reference	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
MW-E1	5.0-6.5	1/1981	1	430	NA	ND	18	NA	ND	83,500	ND	1.6	1.6	470	3	13,600	241	ND	2.2	200	NA	NA	ND	NA	NA	1.1	3.1
MW-E1	10.0-11.5	1/1981	1	400	NA	1.0	NA	NA	ND	67,500	ND	0.5	5.5	1100	4	11,300	346	ND	ND	210	NA	NA	ND	NA	NA	0.9	2.2
MW-E1	15.0-16.5	1/1981	1	250	NA	ND	22	NA	ND	72,400	ND	0.7	3.7	960	6	11,300	224	ND	0.9	160	NA	NA	ND	NA	NA	1.0	2.9
MW-E3	5.0-6.5	1/1981	1	120	NA	ND	ND	NA	ND	56,700	ND	ND	1.0	1140	3	16,900	145	ND	1.0	380	NA	NA	ND	NA	NA	1.2	14.1
MW-E3	10.0-11.5	1/1981	1	300	NA	ND	12	NA	ND	44,000	ND	1.3	2.6	490	3	11,900	165	ND	1.8	250	NA	NA	ND	NA	NA	1.3	33.5
MW-E3	15.0-16.5	1/1981	1	320	NA	ND	8	NA	ND	103,000	ND	0.5	6.5	1210	3	22,300	283	ND	ND	210	NA	NA	ND	NA	NA	1.3	2.6
S1	9'	10/1/1990	2	13,100	<2.4	7.9 NJ	318 N*J	0.37 B	NA	17,400	15.1	8.6 B	10.4	24,200	8.9 N	6140	3300 *J	<0.008	20	1520	<1	NA	1.46 B	0.63 BWNJ	NA	27.5	42.9
S2	7'	10/1/1990	2	8060	<2.4	6.3 NJ	72.7 N*J	<1	NA	49,800	57.6	21.9	50.6	11,800	79.1 N	10,900	341 *J	<0.008	14.2	729 B	<1	NA	62.4 B	<2	NA	17	243
S3	Sediment	10/1/1990	2	8330	<2.4	4.4 NJ	44.7 BN*J	0.36 B	NA	61,500	19.2	7.8 B	24.3	14,700	22.1 N	13,700	334 *J	<0.008	23.1	1120 B	<1	NA	200 B	0.62 BNJ	NA	17.9	80.4
S4	0-6"	10/1/1990	2	8110	8.2 BNJ	8.5 NJ	56.3 N*J	<1	NA	59,700	12.4	5.8 B	34.1	12,800	23.2 N	28,200	454 *J	0.13	14	922 B	<1	NA	95.5 B	<2	NA	18.8	346
S5	0-6"	10/1/1990	2	11,500	<2.4	6.1 NJ	105 N*J	0.47 B	NA	5600	20	9.9 B	26.1	17,300	98.8 N	3310	988 *J	0.34	18.1	1610	<1	NA	251 B	<2	NA	26.5	144
S6	0-6"	10/1/1990	2	17,600	<2.4	8.7 NJ	165 N*J	0.79 B	NA	8100	21.7	11.6 B	20.3	24,100	78.3 N	3770	1290 *J	<0.008	22.1	2160	0.85 BWJ	NA	72.8 B	<2	NA	30.8	75.1
S7	0-6"	10/1/1990	2	8000	13.5 NJ	7.93 +NJ	76.3 N*J	0.4 B	NA	1760	11.8	7.5 B	11.5	12,600	33.1 N	1360	714 *J	<0.008	10.8	1260	1.5	NA	37.2 B	0.49 BWNJ	NA	19.9	128
SS-1	0-6"	9/23/1992	3	11,100	8.5 BNJ	4.4 NSJ	63.7	0.76 B	3.5	14,200 *J	101	8.5 B	43.7	15,100	422 *	6310	178	<0.1	67.3 *	1240 B	<1	<2	119 B	0.82 B	NA	22.8	317 *
SS-2	0-6"	9/23/1992	3	13,300	<12	6.3 NJ	97.1	1.4	3.3	28,600 *J	17.1	7.2 B	23.8	16,000	29.7	10,600	585	<0.1	15.9	1900	<1	<2	159 B	0.63 B	NA	26.6	146
SS-3	0-6"	9/23/1992	3	10,800	<12	5.1 NJ	110	1.5	9.6	42,400 *J	47.2	9.2 B	93.4 *	23,600	117 +J	17,000	581	0.30	28.5	1670	<1 J	2.8	220 B	0.63 B	NA	26.7	438 *
SS-4	Soil Piles	9/23/1992	3	11,800	<12	11.0 N+J	89.2	1.6	3.3	65,100 *J	17.7	7.3 B	18.3	15,600	37.4 +	19,800	530	<0.1	16.8	1620	<1 J	<2	624	0.61 B	NA	27.5	59.8
SS-5	Soil Piles	9/23/1992	3	16,500	<12	9.9 N+J	111	0.92 B	3.5	5300 *J	26.5	8.1 B	16.5	19,800	11.3 +	3440	512	<0.1	20.3	2330	<1	<2	106 B	0.59 B	NA	29.3	259 *
SS-6	0-6"	9/23/1992	3	10,500	<12	3.8 NSJ	82.6	0.89 B	3.3	17,500 *J	18.6	7.0 B	17.1	14,300	30.4	4830	728	<0.1	16.3	2010	<1	<2	67.1 B	0.45 B	NA	22.2	81.0
SS-7	0-6"	9/23/1992	3	7830	<12	55.0 NSJ	171	0.88 B	10.4 *	8340 *J	49.0	8.2 B	153 *	31,800	526	3210	502	0.20 *	22.5	973 B	0.66 B	<2	72.7 B	0.78 B	NA	23.9	445 *
S-10	Sediment	9/23/1992	3	4950	<12	6.5 +	37.8 B	0.35 B	NA	65,300	10.4	5.3 B	11.7	11,400	44.0 S*J	11,200	542 NJ	NA	10.6 B	958 B	NA	NA	143 B	0.34 BWJ	NA	12.7 B	45.2
S-11	Sediment	9/23/1992	3	7860	7.3 BJ	4.5 S	45.4	0.51 B	NA	83,800	15.8	8.9 B	20.4	16,600	16.7 S*J	18,000	483 NJ	NA	17.4	1320	NA	NA	234 B	0.28 BWJ	NA	17.8	76.7
S-12	Sediment	9/23/1992	3	4600	<12	3.4 S	33.5 B	0.24 B	NA	47,900	11.7	4.5 B	12.8	8770	54.0 S*J	9840	352 NJ	NA	8.7 B	741 B	NA	NA	119 B	0.26 BWJ	NA	10.4 B	51.6
1976-1	0-6"	1976	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	NA	NA
1976-1	12"	1976	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	NA	NA
1976-2	0-6"	1976	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500	NA	NA
1976-2	12"	1976	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500	NA	NA

TABLE 5-5
SOIL AND SEDIMENT ANALYTICAL RESULTS - INORGANICS
Morton Facility
Reading, Ohio
Units: mg/kg

Sample ID	Sample Depth	Sample Date	Reference	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
1976-3	0-6"	1976	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200	NA	NA
1976-3	12"	1976	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200	NA	NA
1976-4	0-6"	1976	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	NA	NA
1976-4	12"	1976	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	NA	NA
1978-1	0-6"	1978	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200	NA	NA
1978-2	0-6"	1978	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200	NA	NA
1978-3	0-6"	1978	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500	NA	NA
1978-4	0-6"	1978	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500	NA	NA
1978-5	0-6"	1978	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500	NA	NA
1978-6	0-6"	1978	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	NA	NA
1978-7	0-6"	1978	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	NA	NA
1978-8	0-6"	1978	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA
1978-9	0-6"	1978	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70	NA	NA
1978-10	0-6"	1978	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA

References:
1. Ecology and Environment, Inc., 1982
2. Ecology and Environment, Inc., 1991
3. PRC Environmental Management, Inc., 1993
4. Cincinnati Milacron Chemicals, Inc., 1979b

Notes:
ND = Compound was not detected; detection limit was not specified in source document.
NA = It is believed that sample was not analyzed for this compound. The source document did not report the analysis of this compound.
Soil samples from E1 and E3 were also analyzed for the following metals: lanthanum, scandiam, silica, strontium, titanium, yttrium, zirconium.
Unless indicated, tentatively identified compounds (TICs) have not been summarized in this table.
Table only lists the compounds detected during the sampling events.
Shaded areas are a visual tool to indicate parameters that were not analyzed.
Shaded areas are a visual tool to indicate parameters that were not detected.

Qualifier Definitions:
* = Duplicate value outside QC protocols which indicates a possible matrix problem. Value may be quantitative or semiquantitative.
+ = Correlation coefficient for standard additions is less than 0.995. Data value may be biased.
B = Value is real, but is above instrument detection limit and below contract required detection limit. Value may be quantitative or semiquantiative.

J = Estimated value. Value may be quantitative or semiquantitative.
N = Spike recoveries are outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. Value may be quantitative or semiquantitative.
S = Analysis by Method of Standard Additions.
W = Post-digestive spike for furnace AA analysis is out of control limits, while sample absorbance is <50% of spike absorbance. Value may be semiquantitative.

TABLE 5-6
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
Morton Facility
Reading, Ohio
Units: µg/l

Well ID.	Sample Date	Reference	1,1-DCA	1,2-DCA	1,2-DCE (total)	1,1,1-TCA	Acetone	Benzene	Carbon Disulfide	Chlorobenzene	Chloroform	Ethylbenzene	Methylene Chloride	MIBK	PCE	TCE	Toluene	Vinyl Choride	Xylenes (total)
MW-1	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	1/19/1981	3	ND	ND	NA	ND	ND	<10	NA	ND	ND	ND	<10	NA	ND	ND	ND	ND	NA
MW-1	10/2/1990	4	<5	<5	<5	NA	<10	<5	2 J	14	<5	<5	<5	<10	<5	<5	<5	<10	<5
MW-2	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	1/19/1981	3	ND	ND	NA	ND	ND	ND	NA	ND	ND	ND	29	NA	ND	ND	0.6	ND	NA
MW-2	12/8/1981	3	ND	ND	NA	ND	NA	NA	NA	NA	ND	NA	ND	NA	ND	ND	1000	ND	NA
MW-2	10/2/1990	4	<5	<5	<5	NA	<10	1 J	<5	55	<5	<5	<5	<10	<5	<5	<5	<10	<5
MW-2	9/28/1992	5	<10	<10	<10	NA	22	3 J	<10	150	<10	<10	<10	6 J	<10	<10	3 J	<10	<10
MW-3	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	1/19/1981	3	ND	ND	NA	ND	--	ND	NA	ND	ND	ND	51	NA	ND	ND	ND	ND	NA
MW-3	12/8/1981	3	ND	ND	NA	ND	NA	NA	NA	NA	ND	NA	ND	NA	ND	ND	ND	ND	NA
MW-3	10/2/1990	4	<5	<5	<5	NA	<10	2 J	<5	22	<5	<5	<5	<10	<5	<5	<5	<10	2 J
MW-4	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	12/8/1981	3	ND	ND	NA	ND	NA	NA	NA	NA	ND	NA	ND	NA	ND	ND	2100	ND	NA
MW-4	10/2/1990	4	<5	<5	<5	NA	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5
MW-5	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	10/2/1990	4	1 J	<5	<5	NA	<10	5	3 J	2 J	<5	3 J	<5	7 J	<5	<5	5	<10	4 J
MW-5	9/29/1992	5	<10	<10	<10	NA	19	6 J	<10	730 D	<10	2 J	<10	<10	<10	<10	<10	<10	<10
MW-6	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	12/8/1981	3	ND	ND	NA	ND	NA	NA	NA	NA	ND	NA	ND	NA	ND	ND	ND	ND	NA
MW-6	9/29/1992	5	<10	<10	<10	NA	13	<10	<10	<10	<10	<10	<10	<10	<10	2 J	<10	<10	<10
MW-7	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	1/19/1981	3	ND	ND	NA	ND	ND	ND	NA	ND	ND	ND	46	NA	ND	ND	ND	ND	NA
MW-7	12/8/1981	3	ND	ND	NA	2000	NA	NA	NA	NA	80	NA	ND	NA	NA	73	ND	ND	NA
MW-7DUP	12/8/1981	3	ND	ND	NA	1700	NA	NA	NA	NA	43	NA	ND	NA	24	73	ND	ND	NA
MW-7	9/28/1992	5	87	9 J	28	NA	<10	3 J	<10	4 J	1 J	<10	<10	<10	<10	<10	<10	35	<10

TABLE 5-6
GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS
Morton Facility
Reading, Ohio
Units: µg/l

Well ID.	Sample Date	Reference	1,1-DCA	1,2-DCA	1,2-DCE (total)	1,1,1-TCA	Acetone	Benzene	Carbon Disulfide	Chlorobenzene	Chloroform	Ethylbenzene	Methylene Chloride	MIBK	PCE	TCE	Toluene	Vinyl Choride	Xylenes (total)
MW-8	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	9/29/1992	5	5 J	<10	<10	NA	<10	1 J	<10	4 J	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-E1	1/19/1981	3	ND	ND	NA	ND	ND	<10	NA	ND	ND	ND	<10	NA	ND	ND	<10	ND	NA
MW-E1	12/8/1981	3	ND	ND	NA	ND	NA	NA	NA	NA	ND	NA	ND	NA	ND	ND	425	ND	NA
MW-E1DUP	1/19/1981	3	ND	ND	NA	ND	ND	<10	NA	ND	ND	ND	ND	NA	ND	ND	<10	ND	NA
MW-E2	12/8/1981	3	ND	ND	NA	ND	NA	NA	NA	NA	ND	NA	<1000	NA	ND	ND	ND	ND	NA
MW-E3	12/8/1981	3	ND	ND	NA	ND	NA	NA	NA	NA	ND	NA	ND	NA	ND	ND	ND	ND	NA
MW-EPA-1	9/29/1992	5	<10	<10	<10	NA	2700	48 J	<10	2300	<10	110 J	<10	<10	<10	<10	630	<10	360
MW-EPA-2	9/28/1992	5	<10	<10	<10	NA	<10	<10	<10	<10	3 J	<10	<10	<10	25	<10	<10	<10	<10
MW-EPA-3	9/28/1992	5	<10	<10	<10	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-EPA-4	9/29/1992	5	<10	<10	<10	NA	<10	<10	<10	2 J	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-EPA-4DUP	9/29/1992	5	<10	<10	<10	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

References:
1. PEDCo Environmental, Inc., 1982
2. Bautista, 1983a
3. Ecology and Environment, Inc., 1982
4. Ecology and Environment, Inc., 1991
5. PRC Environmental Management, Inc., 1993

Notes:
DUP = Field duplicate sample
NA = It is believed that sample was not analyzed for this compound.
ND = Compound was not detected; detection limit was not specified in source document.
Table only lists compounds detected during the sampling events.
Shaded areas indicate parameters that were not analyzed.
Shaded areas indicate parameters that were not detected.

Qualifier Definitions:
J = Estimated value
D = Compound identified in sample re-analysis at a secondary dilution

Chemical Abbreviations :
1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
1,2-DCE = 1,2-Dichloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
MIBK = Methyl isobutyl ketone or 4-Methyl-2-pentanone
PCE = Tetrachloroethene
TCE = Trichloroethene

TABLE 5-7
GROUNDWATER ANALYTICAL RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS AND PESTICIDES
Morton Facility
Reading, Ohio
Units: µg/l

Well ID.	Sample Date	Reference	SVOCs																							PESTICIDES	
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dinitrotoluene	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	1,2,4-Trichlorobenzene	Acenaphthene	Bis(2-ethylhexyl)phthalate	Butylbenzenephthalate	Chrysene	Dibenzofuran	Di-n-butylphthalate	Di-n-octylphthalate	Fluoranthene	Hexachlorobenzene	Hexachlorobutadiene	Hexachloroethane	Naphthalene	N-nitrosodi-n-propylamine	Phenanthrene	Phenol	Pyrene	gamma Chlordane	Heptachlor
MW-1	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	1/19/1981	3	ND	NA	NA	NA	NA	NA	NA	NA	NA	<10	NA	ND	NA	<10	<10	NA	NA	NA	NA	ND	NA	NA	<10	ND	NA	ND
MW-1	10/2/1990	4	<10	<10	<10	NA	<10	<10	<10	NA	NA	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	<10	NA	<10	<10	<10	<0.5	<0.05
MW-2	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	1/19/1981	3	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	NA	ND
MW-2	12/8/1981	3	ND	NA	NA	ND	NA	NA	NA	<10,000	ND	ND	NA	ND	NA	ND	ND	NA	25,000	1,000,000	270,000	NA	ND	NA	NA	ND	NA	NA
MW-2	10/2/1990	4	7 J	<10	<10	NA	<10	<10	<10	NA	NA	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	<10	NA	<10	<10	<10	<0.5	<0.05
MW-2	9/28/1992	5	11	0.7 J	4 J	NA	<330	0.5 J	5 J	NA	NA	2 J	<10	<10	<10	10 J	<10	<10	NA	NA	NA	<330	NA	<10	<330	<10	<0.05 R	<0.05 R
MW-3	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	1/19/1981	3	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	NA	ND
MW-3	12/8/1981	3	ND	NA	NA	ND	NA	NA	NA	ND	ND	ND	NA	ND	NA	ND	ND	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	NA
MW-3	10/2/1990	4	<10	<10	<10	NA	<10	<10	<10	NA	NA	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	<10	NA	<10	<10	<10	<0.5	<0.05
MW-4	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	12/8/1981	3	24,000	NA	NA	23,000	NA	NA	NA	20,000	33,000	ND	NA	50,000	NA	40,000	44,000	NA	ND	ND	ND	NA	87,000	NA	NA	40,000	NA	NA
MW-4	10/2/1990	4	<10	<10	<10	NA	<10	<10	<10	NA	NA	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	<10	NA	<10	<10	<10	<0.5	<0.05
MW-5	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5*	9/23/1981	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0021	NA	NA	NA
MW-5	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	10/2/1990	4	<10	<10	<10	NA	<10	<10	<10	NA	NA	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	<10	NA	<10	<10	<10	<0.5	<0.05
MW-5	9/29/1992	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	12/8/1981	3	ND	NA	NA	ND	NA	NA	NA	ND	ND	ND	NA	ND	NA	ND	ND	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	NA
MW-6	9/29/1992	5	4 J	<330	<330	NA	<330	<330	<330	NA	NA	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	<330	NA	<10	<330	<10	<0.05	<0.05
MW-7	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	1/19/1981	3	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	NA	ND

TABLE 5-7
GROUNDWATER ANALYTICAL RESULTS - SEMIVOLATILE ORGANIC COMPOUNDS AND PESTICIDES

Morton Facility
Reading, Ohio
Units: µg/l

			SVOCs																							PESTICIDES	
Well ID.	Sample Date	Reference	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dinitrotoluene	2-Methlynaphthalene	2-Methylphenol	4-Methylphenol	1,2,4-Trichlorobenzene	Acenaphthene	Bis(2-ethylhexyl)phthalate	Butylbenzenephthalate	Chrysene	Dibenzofuran	Di-n-butylphthalate	Di-n-octylphthalate	Fluoranthene	Hexachlorobenzene	Hexachlorobutadiene	Hexachloroethane	Naphthalene	N-nitrosodi-n-propylamine	Phenanthrene	Phenol	Pyrene	gamma Chlordane	Heptachlor
MW-7	12/8/1981	3	ND	NA	NA	ND	NA	NA	NA	ND	ND	15	NA	ND	NA	ND	ND	NA	ND	ND	ND	NA	14	NA	NA	230	NA	NA
MW-7DUP	12/8/1981	3	ND	NA	NA	ND	NA	NA	NA	ND	ND	15	NA	ND	NA	ND	ND	NA	ND	ND	ND	NA	ND	NA	NA	210	NA	NA
MW-7	9/28/1992	5	<330	<330	<330	NA	16 J	<330	<330	NA	NA	190 DJ	<10	0.8 J	31 J	<10	0.6 J	1 J	NA	NA	NA	23 J	NA	1 J	940 DJ	1 J	<0.05 R	<0.05 R
MW-8	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	1981 to 1983	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	12/1980	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	9/29/1992	5	9 J	<330	2 J	NA	<330	<330	<330	NA	NA	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	<330	NA	<10	<330	<10	<0.05 R	<0.05 R
MW-E1	1/19/1981	3	<10	NA	NA	NA	NA	NA	NA	NA	NA	<10	NA	ND	NA	<10	<10	NA	NA	NA	NA	ND	NA	NA	<10	ND	NA	<10
MW-E1	12/8/1981	3	ND	NA	NA	ND	NA	NA	NA	ND	ND	ND	NA	ND	NA	ND	17	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	NA
MW-E1DUP	1/19/1981	3	<10	NA	NA	NA	NA	NA	NA	NA	NA	<10	NA	ND	NA	<10	ND	NA	NA	NA	NA	ND	NA	NA	<10	ND	NA	<10
MW-E2	12/8/1981	3	ND	NA	NA	ND	NA	NA	NA	ND	ND	ND	NA	ND	NA	ND	ND	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	NA
MW-E3	12/8/1981	3	ND	NA	NA	ND	NA	NA	NA	ND	ND	ND	NA	ND	NA	ND	ND	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	NA
MW-EPA-1	9/29/1992	5	4700 J	110 J	640 J	NA	<330 R	<330	<330	NA	NA	<10 R	<10	<10	<10 R	<10	<10	<10	NA	NA	NA	<330	NA	<10	210 J	<10	3.7 JP	3.1 JP
MW-EPA-2	9/28/1992	5	<330	<330	<330	NA	<330	<330	<330	NA	NA	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	<330	NA	<10	<330	<10	<0.05	<0.05
MW-EPA-3	9/28/1992	5	<330	<330	<330	NA	<330	<330	<330	NA	NA	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	<330	NA	<10	<330	<10	<0.05	<0.05
MW-EPA-4	9/29/1992	5	<330	<330	<330	NA	<330	<330	<330	NA	NA	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	<330	NA	<10	<330	<10	<0.05	<0.05
MW-EPA-4DUP	9/29/1992	5	<330	<330	<330	NA	<330	<330	<330	NA	NA	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	<330	NA	<10	<330	<10	<0.05	<0.05

References:
1. PEDCo Environmental Inc., 1982
2. Bautista, 1983a
3. Ecology and Environment, Inc., 1982
4. Ecology and Environment, Inc., 1991
5. PRC Environmental Management, Inc., 1993
6. Ohio Environmental Protection Agency, undated

Data Notes:
SVOCs = Semivolatile organic compounds
* = Dichlorobenzene (unspecified) was reported at 0.0061 ug/l and cyclohexanone was reported at 0.0011 ug/l.
NA = It is believed that sample was not analyzed for this compound.
ND = Compound was not detected; detection limit was not specified in source document.
DUP = Field duplicate sample
Table only lists compounds detected during the sampling events.
Shaded areas indicate parameters that were not analyzed.
Shaded areas indicate parameters that were not detected.

Qualifier Definitions:
J = Estimated value
P = Used for pesticide compounds when there is > 25% difference in the detected concentrations from the two parallel gas chromatograph columns. The lower of the two values is reported.
D = Compound identified in sample re-analysis at a secondary dilution.
R = Result was rejected because of a violation to quality control protocols.

TABLE 5-8
GROUNDWATER ANALYTICAL RESULTS - INORGANICS
Morton Facility
Reading, Ohio
Units: µg/l

Well ID.	Sample Date	Reference	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Cyanide	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Sodium	Strontium	Tin	Vanadium	Zinc
MW-1	12/1980	1	NA	NA	<5	NA	NA	NA	2.8	NA	<3.2	NA	NA	NA	NA	<3.6	NA	NA	NA	NA	NA	NA	NA	<15	NA	NA
MW-1	1981 to 1983	2	NA	NA	8 **	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	1/19/1981	3	49,200	<20	800	3,150	28	108	<5	224,000	512	376	751	NA	1,190,000	<40	606,000	17,700	711	ND	<10	12,300	ND	52	540	1990
MW-1	10/2/1990	4	365	26.3 B	15.7	37.7 B	NA	NA	NA	151,000	<10	NA	13.8 BJ	<10 R	3030	3.8 WJ	25,100	722	10.5 B	2320 B	<5	71,000	NA	NA	49.9 BJ	28.5 J
MW-2	12/1980	1	NA	NA	132	NA	NA	NA	1.3	NA	10.6	NA	NA	NA	NA	18.2	NA	NA	NA	NA	NA	NA	NA	<15	NA	NA
MW-2	1981 to 1983	2	NA	NA	142 **	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	1/19/1981	3	<10,000	<400	<800	<6000	<200	<10,000	<100	950,000	<800	<300	<800	NA	102,000	<900	1,860,000	8000	<500	81,000	<100	1,400,000	1800	ND	<500	<1000
MW-2	12/8/1981	3	<100	<20	63	<100	<5	420	3.9	NA	70	90	<50	NA	2100	<5	NA	950	90	NA	<2	NA	NA	380	<200	40
MW-2	10/2/1990	4	<200	31.5 B	32.7	69.9 B	NA	NA	NA	174,000	<10	NA	<25	<10 R	4230	<5	39,500	739	33.5 B	6940	<5	71,400	NA	NA	64.2	217
MW-2	9/28/1992	5	<200	24.7 B	39.8	67.2 B	NA	NA	NA	339,000	<10	NA	<25	NA	25.5 BJ	1.5 BNW	73,600	1460	44.0	3980 B	1.2 BNW	246,000	NA	NA	71.8	4.6 BJ
MW-3	12/1980	1	NA	NA	21	NA	NA	NA	1.4	NA	6.6	NA	NA	NA	NA	<3.6	NA	NA	NA	NA	NA	NA	NA	42	NA	NA
MW-3	1981 to 1983	2	NA	NA	52 **	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	1/19/1981	3	<10,000	<400	<800	9000	<200	20,000	<100	510,000	<800	<300	<800	NA	14,000	<900	400,000	1900	<500	23,000	<100	300,000	1100	ND	<500	<1000
MW-3	12/8/1981	3	<100	<20	<10	100	<5	200	<1	NA	20	270	<50	NA	<50	<5	NA	<10	<40	NA	<2	NA	NA	62	<200	<10
MW-3	10/2/1990	4	<200	18.7 B	3.8 B	98.4 B	NA	NA	NA	112,000	<10	NA	9.6 BJ	<10 R	532	<5	18,100	387	<40	1300 B	<5	11,600	NA	NA	14.4 BJ	14.5 BJ
MW-4	12/1980	1	NA	NA	29	NA	NA	NA	0.9	NA	6.3	NA	NA	NA	NA	4.1	NA	NA	NA	NA	NA	NA	NA	36	NA	NA
MW-4	1981 to 1983	2	NA	NA	48 **	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	12/8/1981	3	5200	27	12	300	<5	890	1.1	NA	100	570	<50	NA	284,000	<5	NA	214,000	270	NA	<2	NA	NA	385	<200	4700
MW-4	10/2/1990	4	<200	22.5 B	<10	61.9 B	NA	NA	NA	98,000	<10	NA	8.2 BJ	<10 R	<100	<5	20,000	226	<40	623 B	<5	987,000	NA	NA	660	77.4 J
MW-5	12/1980	1	NA	NA	89	NA	NA	NA	<0.2	NA	11.6	NA	NA	NA	NA	3.9	NA	NA	NA	NA	NA	NA	NA	74	NA	NA
MW-5	1981 to 1983	2	NA	NA	110 **	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	10/2/1990	4	<200	<60	<10	<200	NA	NA	NA	<5000	<10	NA	<25	<10 R	<100	<5	<5000	<15	<40	<5000	<5	<5000	NA	NA	<50	<20
MW-5	9/29/1992	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	12/1980	1	NA	NA	58	NA	NA	NA	3.6	NA	<3.2	NA	NA	NA	NA	<3.6	NA	NA	NA	NA	NA	NA	NA	21	NA	NA
MW-6	1981 to 1983	2	NA	NA	183 **	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	12/8/1981	3	4600	<20	<10	<100	<5	680	8.8	NA	60	200	<50	NA	72,000	<5	NA	15,000	120	NA	<2	NA	NA	140	<200	70
MW-6	9/29/1992	5	2790	<60	1.3 BWJ	5.6 BJ	NA	NA	NA	126,000	<10	NA	<25	NA	436	2.5 BNW	22,400	674	<40	10,400	<5	46,000	NA	NA	4.0 B	7.1 BJ
MW-7	12/1980	1	NA	NA	69	NA	NA	NA	4.9	NA	6.5	NA	NA	NA	NA	<3.6	NA	NA	NA	NA	NA	NA	NA	<15	NA	NA
MW-7	1981 to 1983	2	NA	NA	147 **	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	1/19/1981	3	<10,000	<400	<800	<600	<200	<10,000	<100	500,000	<800	<300	<800	NA	41,000	<900	130,000	26,600	<500	15,000	<100	600,000	1200	ND	<500	<1000
MW-7	12/8/1981	3	<750	<20	78	<100	<5	300	<1	NA	40	<50	<50	NA	31,000	<5	NA	21,000	55	NA	<2	NA	NA	154	<200	30
MW-7DUP	12/8/1981	3	1500	<20	63	<100	<5	300	<1	NA	60	50	<50	NA	30,000	<5	NA	20,700	100	NA	<2	NA	NA	119	<200	60
MW-7	9/28/1992	5	<200	<60	30.4	315	NA	NA	NA	172,000	<10	NA	<25	NA	13,700	1.5 BNW	41,400	5020	<40	3600 B	1.3 BNW	273,000	NA	NA	<50	5.5 BJ

TABLE 5-8
GROUNDWATER ANALYTICAL RESULTS - INORGANICS
Morton Facility
Reading, Ohio
Units: µg/l

Well ID.	Sample Date	Reference	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Cyanide	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Sodium	Strontium	Tin	Vanadium	Zinc
MW-8	12/1980	1	NA	NA	67	NA	NA	NA	1.5	NA	9.3	NA	NA	NA	NA	<3.6	NA	NA	NA	NA	NA	NA	NA	75	NA	NA
MW-8	1981 to 1983	2	NA	NA	168 **	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	12/1980	1	NA	NA	26	NA	NA	NA	1.2	NA	6.8	NA	NA	NA	NA	<3.6	NA	NA	NA	NA	NA	NA	NA	97	NA	NA
MW-9	1981 to 1983	2	NA	NA	60 **	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	12/1980	1	NA	NA	26	NA	NA	NA	1.8	NA	5.7	NA	NA	NA	NA	9.8	NA	NA	NA	NA	NA	NA	NA	<15	NA	NA
MW-12	9/29/1992	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-E1	1/19/1981	3	87,600	<20	132	959	6	12	6	524,000	146	112	183	NA	237,000	154	132,000	3710	216	ND	<100	12,900	ND	56	138	14,000
MW-E1	12/8/1981	3	1800	<20	<10	200	<5	430	<1	NA	20	<50	50	NA	5300	10	NA	400	<40	NA	<2	NA	NA	<20	<200	2250
MW-E1DUP	1/19/1981	3	123,000	<20	135	1,090	8	15	6	714,000	172	140	222	NA	307,000	174	181,000	4650	259	ND	<250	11,100	ND	50	158	13,000
MW-E2	12/8/1981	3	<100	<20	<10	<100	<5	500	<1	NA	50	<50	<50	NA	460	<5	NA	<10	<40	NA	2	NA	NA	280	<200	30
MW-E3	12/8/1981	3	<100	74	<10	100	<5	510	<1	NA	92	110	<50	NA	550	<5	NA	30	120	NA	<2	NA	NA	278	<200	50
MW-EPA-1	9/29/1992	5	<200	<60	28.85	530 EJ	NA	NA	NA	468,000 EJ	9.4 BJ	NA	5.6 B	NA	323 EJ	1.9 BWNJ	174,000 EJ	926 EJ	55.7 *J	184,000	<5	436,000 EJ	NA	NA	14.6 B	19.3 BJ
MW-EPA-2	9/28/1992	5	<200	<60	<10	56.9 B	NA	NA	NA	152,000	<10	NA	<25	NA	10.7 BJ	1.5 BNJ	54,500	268	11.9 B	2300 B	<5	55,200	NA	NA	<50	4.7 BJ
MW-EPA-3	9/28/1992	5	<200	43.1 B	4.5 BWJ	37.4 B	NA	NA	NA	336,000	<10	NA	<25	NA	851	1.1 BNWJ	121,000	568	<40	1960 B	2.1 BNW	13,900	NA	NA	<50	5.6 BJ
MW-EPA-4	9/29/1992	5	<200	25.5 B	2.9 B	159 B	NA	NA	NA	196,000	<10	NA	<25	NA	1250	<3	55,400	1060	<40	2900 B	<5	263,000	NA	NA	<50	11.9 BJ
MW-EPA-4DUP	9/29/1992	5	50.9 BJ	<60	2.7 B	177 B	NA	NA	NA	199,000	<10	NA	<25	NA	1290	1.1 BNW	56,500	1090	<40	2340 B	<5	269,000	NA	NA	<50	9.6 BJ

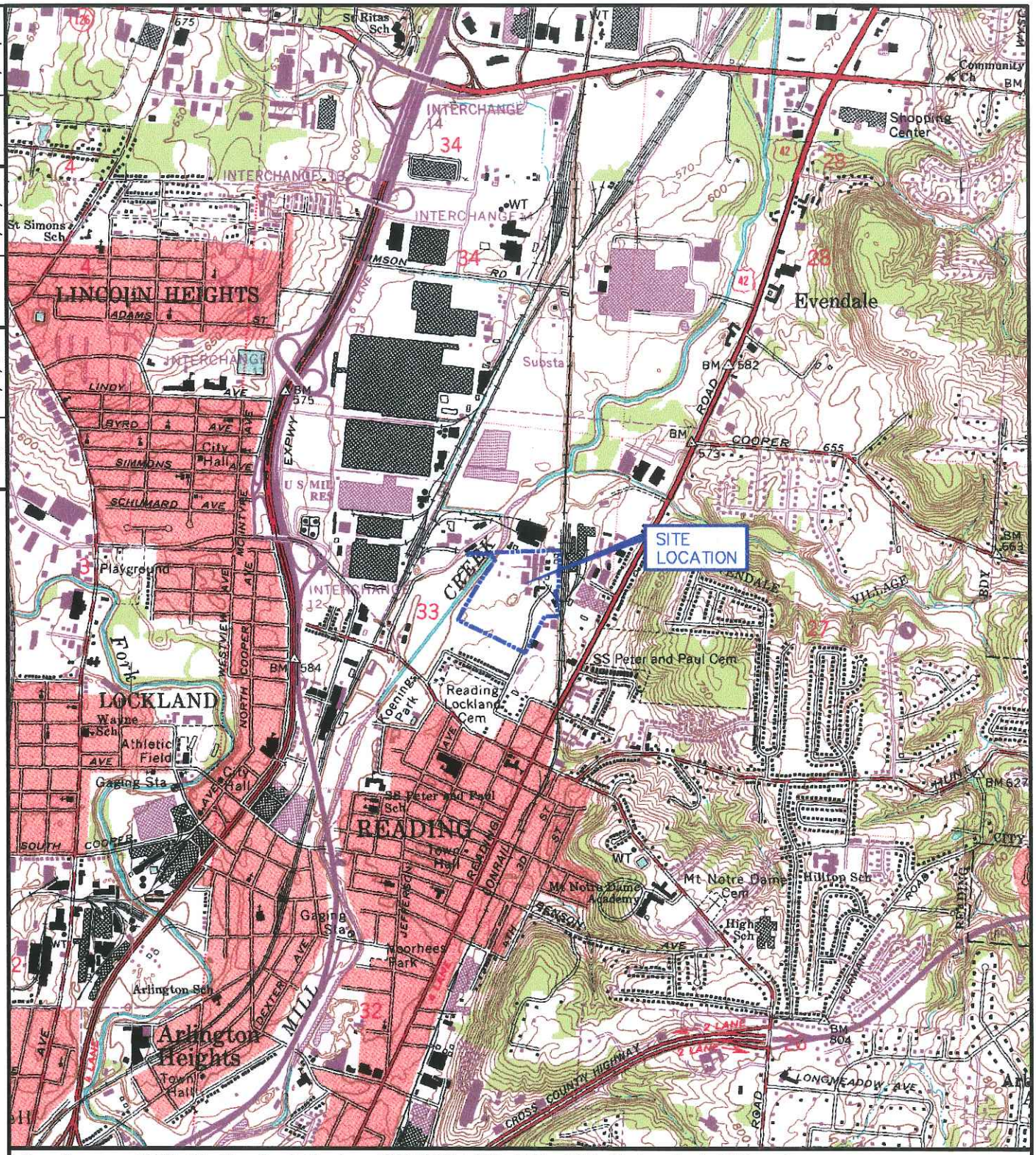
References:
1. PEDCo Environmental Inc., 1982
2. Bautista, 1983a
3. Ecology and Environment, Inc., 1982
4. Ecology and Environment, Inc., 1991
5. PRC Environmental Management, Inc., 1993

Notes:
** = Maximum arsenic level from samples collected 5/81 - 1/83
DUP = Field duplicate sample
NA = It is believed that sample was not analyzed for this compound.
ND = Compound was not detected; detection limit was not specified in source document.
Table only lists the compounds detected during the sampling events.
Shaded areas indicate parameters that were not analyzed.
Shaded areas indicate parameters that were not detected.

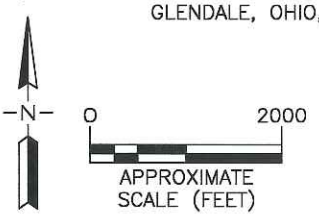
Qualifier Definitions:
* = Duplicate value outside QC protocols which indicates a possible matrix problem. Value may be quantitative or semiquantitative.
J = Estimated value
B = Value is real, but is above instrument detection limit and below contract required detection limit. Value may be quantitative or semiquantitative.
R = Result was rejected because of a violation to quality control protocols
E = Value is estimated due to matrix interferences.
W = Post-digestive spike for furnace AA analysis is out of control limits, while sample absorbance is <50% of spike absorbance.
N = Spike recoveries are outside QC protocols, indicating a possible problem. Data may be biased high or low.

FIGURES

DRAFT BY	RPS 8/5/00	PROJ. CHK	AMH 9/26/00	APPRV. BY	MPH 9/26/00



Map Source: USGS 7.5 Min. Quad Sheets: CINCINNATI EAST, OHIO, 1961 Photorevised 1981 and GLENDALE, OHIO, 1965 Photorevised 1987.



QUADRANGLE LOCATION

GEOMATRIX

SITE LOCATION MAP

PREPARED FOR

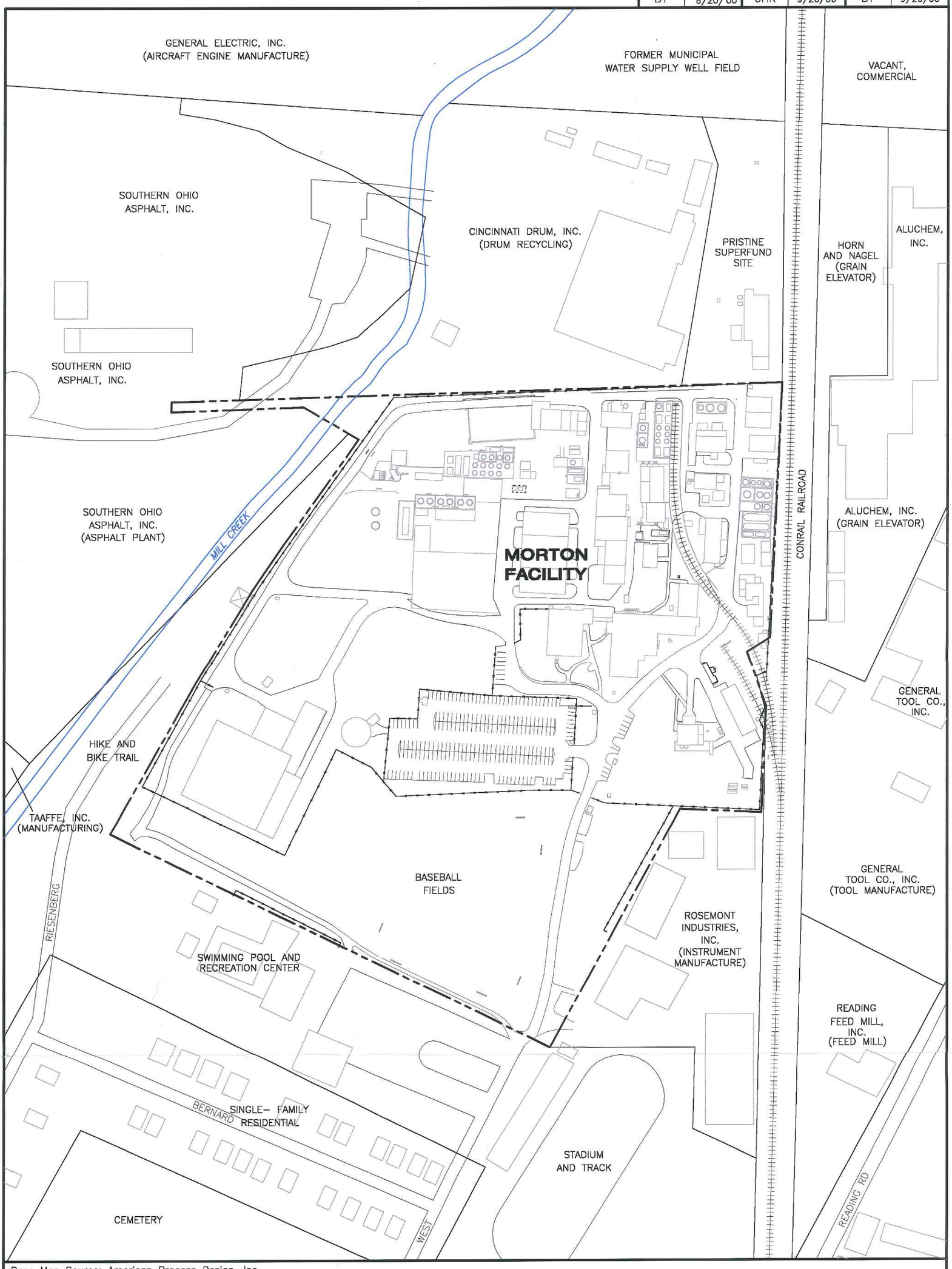
ROHM AND HAAS CO. – READING, OHIO

Project No. 6452

Figure No. 2–1

6452A01.DWG

DRAFT BY	RPS 8/20/00	PROJ. CHK	AMH 9/26/00	APPRV. BY	MPH 9/26/00



Base Map Source: American Process Design, Inc., Cincinnati, OH., Proj. No. 16151, 410, 6/4/98.

-N-

0 200

APPROXIMATE SCALE (FEET)

EXPLANATION

— — — MORTON FACILITY PROPERTY BOUNDARY

SITE VICINITY MAP

PREPARED FOR

ROHM AND HAAS CO.
READING, OHIO

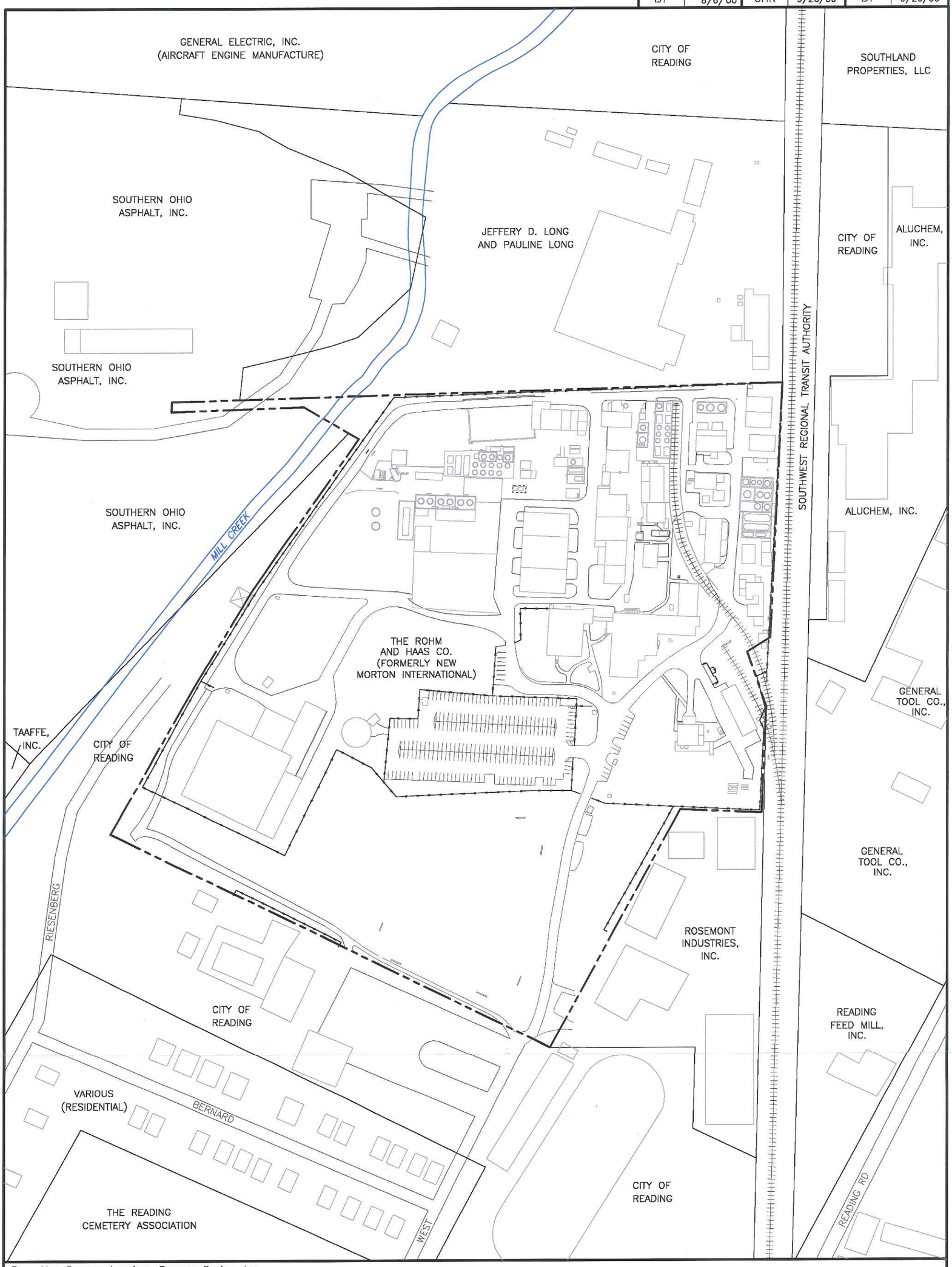
GEOMATRIX

Project No. 6452

Figure 2-2

6452B05.DWG

DRAFT BY	RPS 8/6/00	PROJ. CHK	AMH 9/26/00	APPRV. BY	MPH 9/26/00



Base Map Source: American Process Design, Inc., Cincinnati, OH., Proj. No. 16151, 410, 6/4/98.

NOTE:
PROPERTY OWNERSHIP INFORMATION WAS COMPILED USING TAX MAPS AND INFORMATION AVAILABLE ON THE FOLLOWING INTERNET SITES: http://205.133.113.116/ (Hamilton County Auditor Home Page) and http://cagis.hamilton-co.org/map/cagis.htm (CAGIS Internet Map Server)

—N— 0 200
APPROXIMATE SCALE (FEET)

EXPLANATION

— — — MORTON FACILITY PROPERTY BOUNDARY

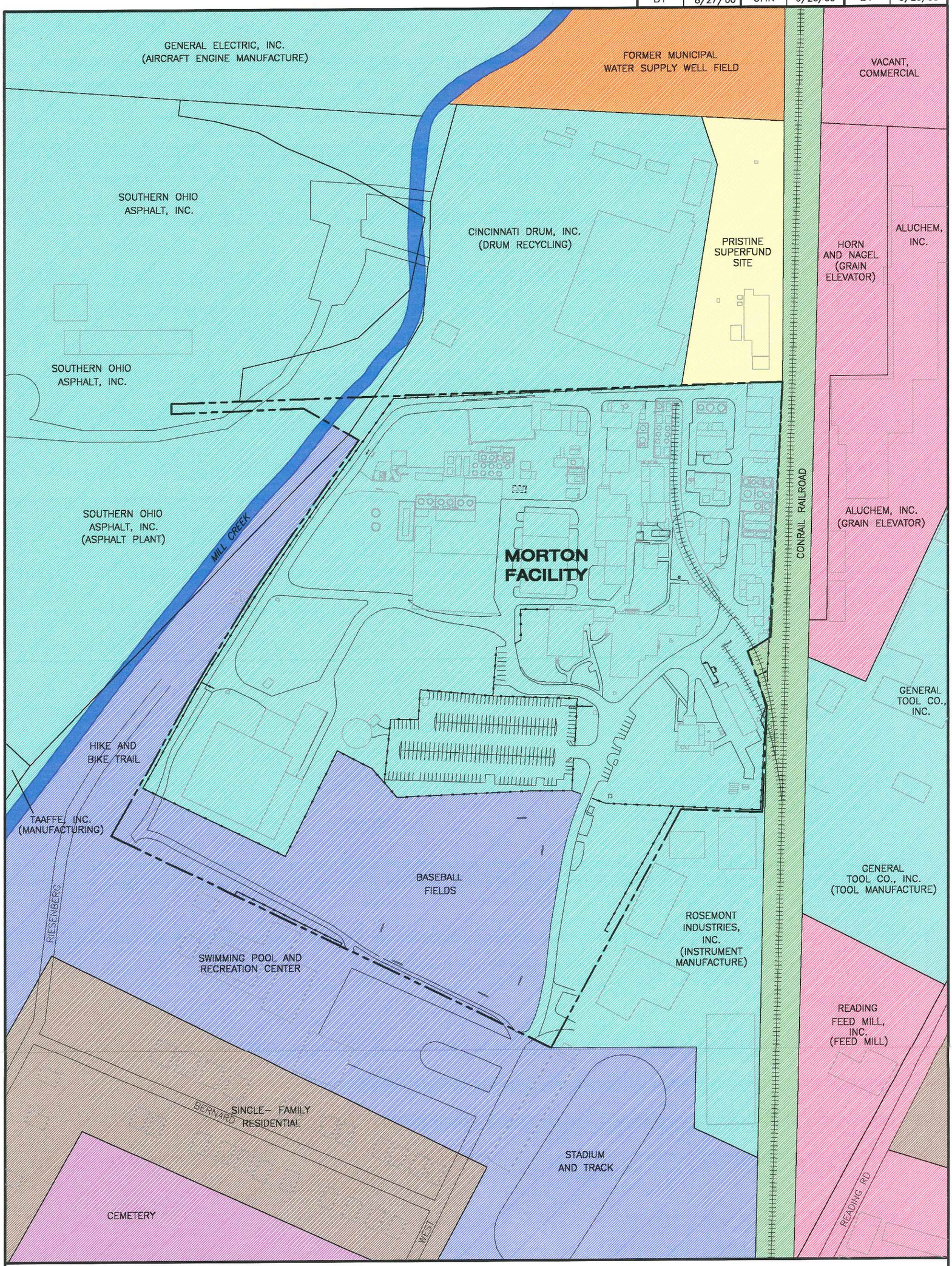
OWNERSHIP OF ADJACENT PROPERTY
PREPARED FOR
ROHM AND HAAS CO.
READING, OHIO

GEOMATRIX

Project No.	Figure
6452	2-3

6452902.DWG

DRAFT BY	RPS 8/27/00	PROJ. CHK	AMH 9/26/00	APPRV. BY	MPH 9/26/00



Base Map Source: American Process Design, Inc., Cincinnati, OH., Proj. No. 16151, 410, 6/4/98.

-N-

0 200

APPROXIMATE SCALE (FEET)

EXPLANATION

- COMMERCIAL
- MUNICIPAL
- RESIDENTIAL
- SUPERFUND SITE
- CEMETERY
- RECREATIONAL
- INDUSTRIAL
- RAILROAD
- MORTON FACILITY PROPERTY BOUNDARY

SURROUNDING LAND USE

PREPARED FOR

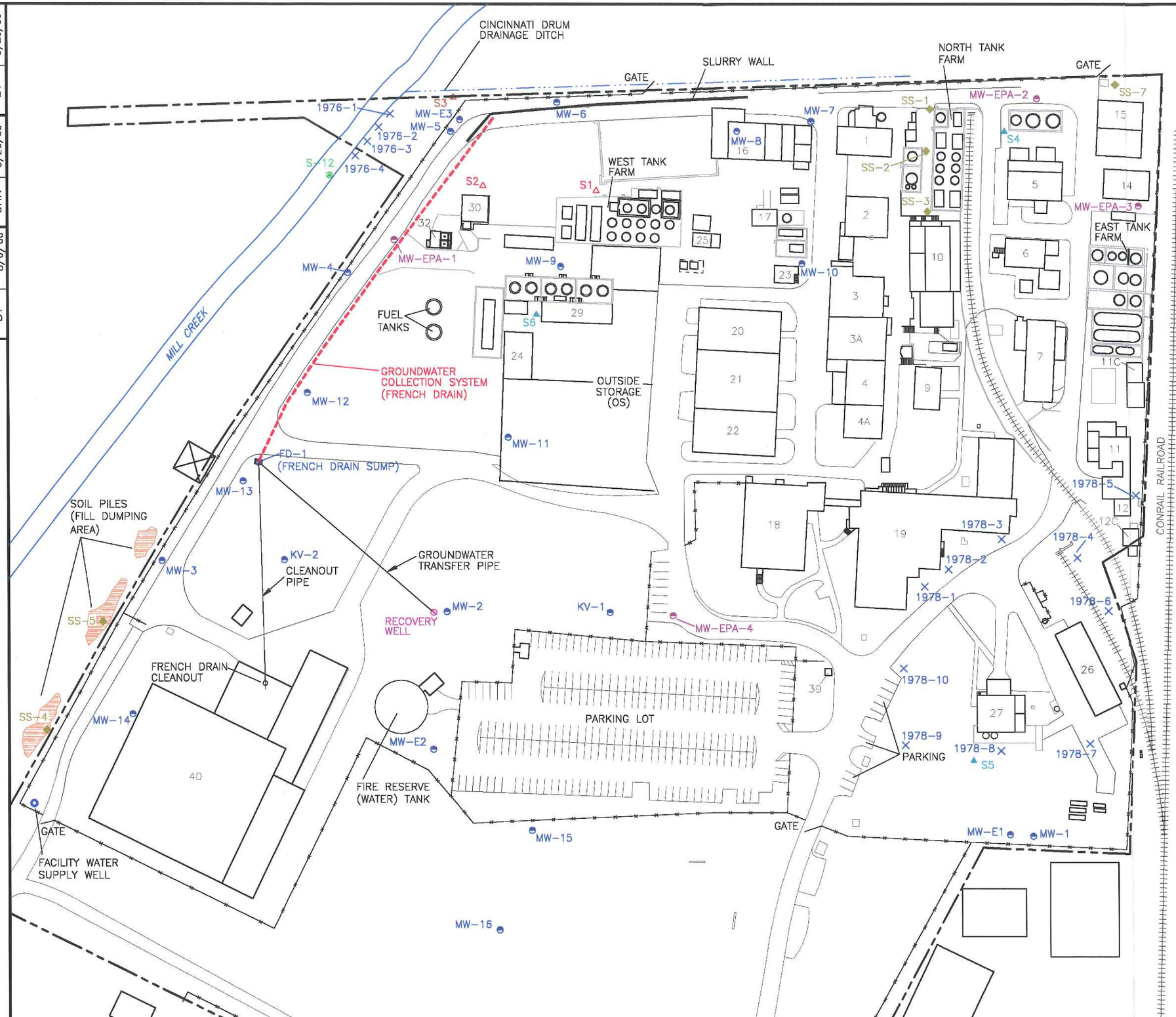
ROHM AND HAAS CO.
READING, OHIO

GEOMATRIX

Project No.	Figure
6452	2-4

6452B10.DWG

DRAFT BY	RPS 8/6/00	PROJ. CHK	AMH 9/26/00	APPRV. BY	MPH 9/26/00



Base Map Source: American Process Design, Inc., Cincinnati, OH., Proj. No. 16151, 410, 6/4/98.

0 120
APPROXIMATE SCALE (FEET)

-N-

EXPLANATION

MW-1	MONITORING WELL LOCATION AND IDENTIFICATION NUMBER (PEDCO, 1982, K-V, 1983 AND ATEC, 1983)
S4	SURFACE SOIL SAMPLE LOCATION AND IDENTIFICATION NUMBER (E&E, 1991)
S1	SUBSURFACE SOIL SAMPLE LOCATION AND IDENTIFICATION NUMBER (E&E, 1991)
S3	SEDIMENT SAMPLE LOCATION AND IDENTIFICATION NUMBER (E&E, 1991)
MW-EPA-1	MONITORING WELL LOCATION AND IDENTIFICATION NUMBER (PRC, 1993)
S-12	SEDIMENT SAMPLE LOCATION AND IDENTIFICATION NUMBER (PRC, 1993)
SS-1	SURFACE SOIL SAMPLE LOCATION AND IDENTIFICATION NUMBER (PRC, 1993)
1978-1	SEDIMENT OR SURFACE SOIL SAMPLE LOCATION AND IDENTIFICATION NUMBER (CMC, 1979b)
— — —	MORTON FACILITY PROPERTY BOUNDARY

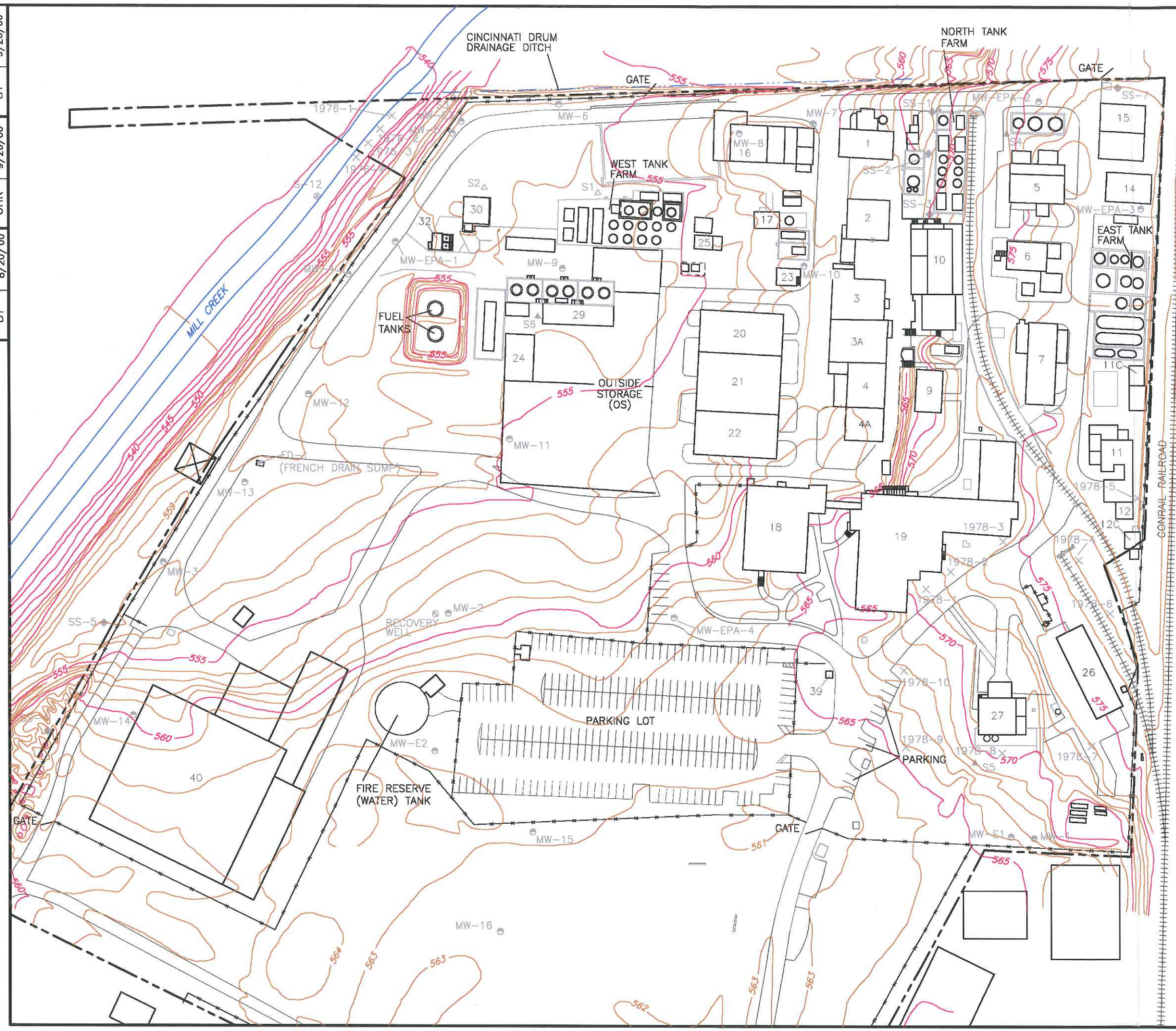
FACILITY MAP
WITH HISTORICAL SAMPLING LOCATIONS
PREPARED FOR
ROHM AND HAAS CO.
READING, OHIO

GEOMATRIX

Project No.	Figure
6452	2-5

6452B06.DWG

DRAFT BY	RPS 8/20/00	PROJ. CHK	AMH 9/26/00	APPRV. BY	MPH 9/26/00



Base Map Source: American Process Design, Inc., Cincinnati, OH., Proj. No. 16151, 410, 6/4/98.

0 120
APPROXIMATE SCALE (FEET)

-N-

EXPLANATION

575 — SURFACE CONTOUR ELEVATION (5 FT INTERVAL, FT MSL)

574 — SURFACE CONTOUR ELEVATION (1 FT INTERVAL, FT MSL)

EXPLANATION

MW-1 — MONITORING WELL LOCATION AND IDENTIFICATION NUMBER (PEDCO, 1982 AND ATEC, 1983)

S4 — SURFACE SOIL SAMPLE LOCATION AND IDENTIFICATION NUMBER (E&E, 1991)

S1 — SUBSURFACE SOIL SAMPLE LOCATION AND IDENTIFICATION NUMBER (E&E, 1991)

S3 — SEDIMENT SAMPLE LOCATION AND IDENTIFICATION NUMBER (E&E, 1991)

MW-EPA-1 — MONITORING WELL LOCATION AND IDENTIFICATION NUMBER (PRC, 1993)

S-12 — SEDIMENT SAMPLE LOCATION AND IDENTIFICATION NUMBER (PRC, 1993)

SS-1 — SURFACE SOIL SAMPLE LOCATION AND IDENTIFICATION NUMBER (PRC, 1993)

1978-1 — SEDIMENT OR SURFACE SOIL SAMPLE LOCATION AND IDENTIFICATION NUMBER (CMC, 1979b)

— — — MORTON FACILITY PROPERTY BOUNDARY

SITE TOPOGRAPHY

PREPARED FOR

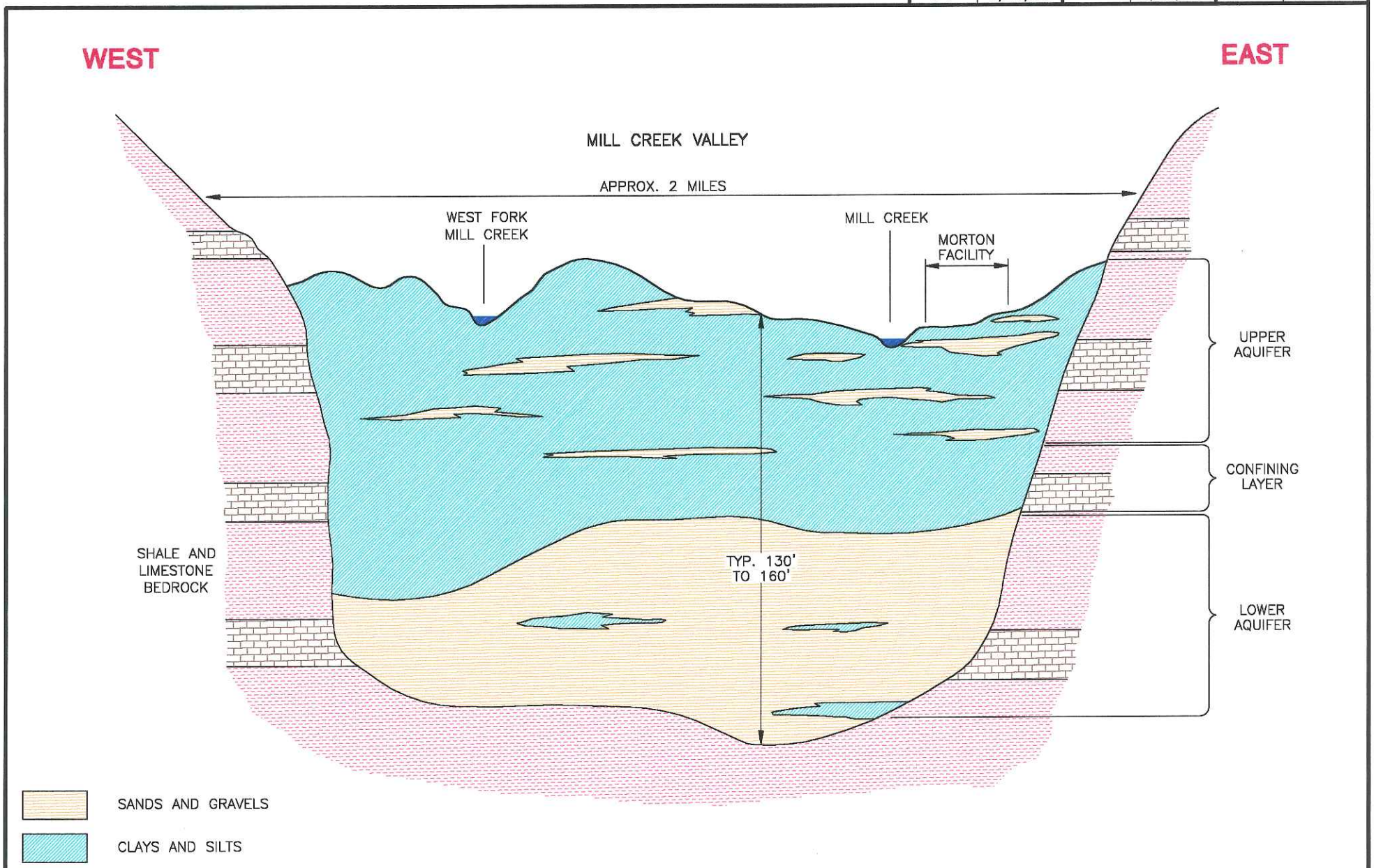
ROHM AND HAAS CO.
READING, OHIO

GEOMATRIX

Project No.	Figure
6452	2-7

6452B07.DWG

DRAFT BY	RPS 9/26/00	PROJ. CHK	AMH 9/26/00	APPRV. BY	MPH 9/26/00



GEOMATRIX

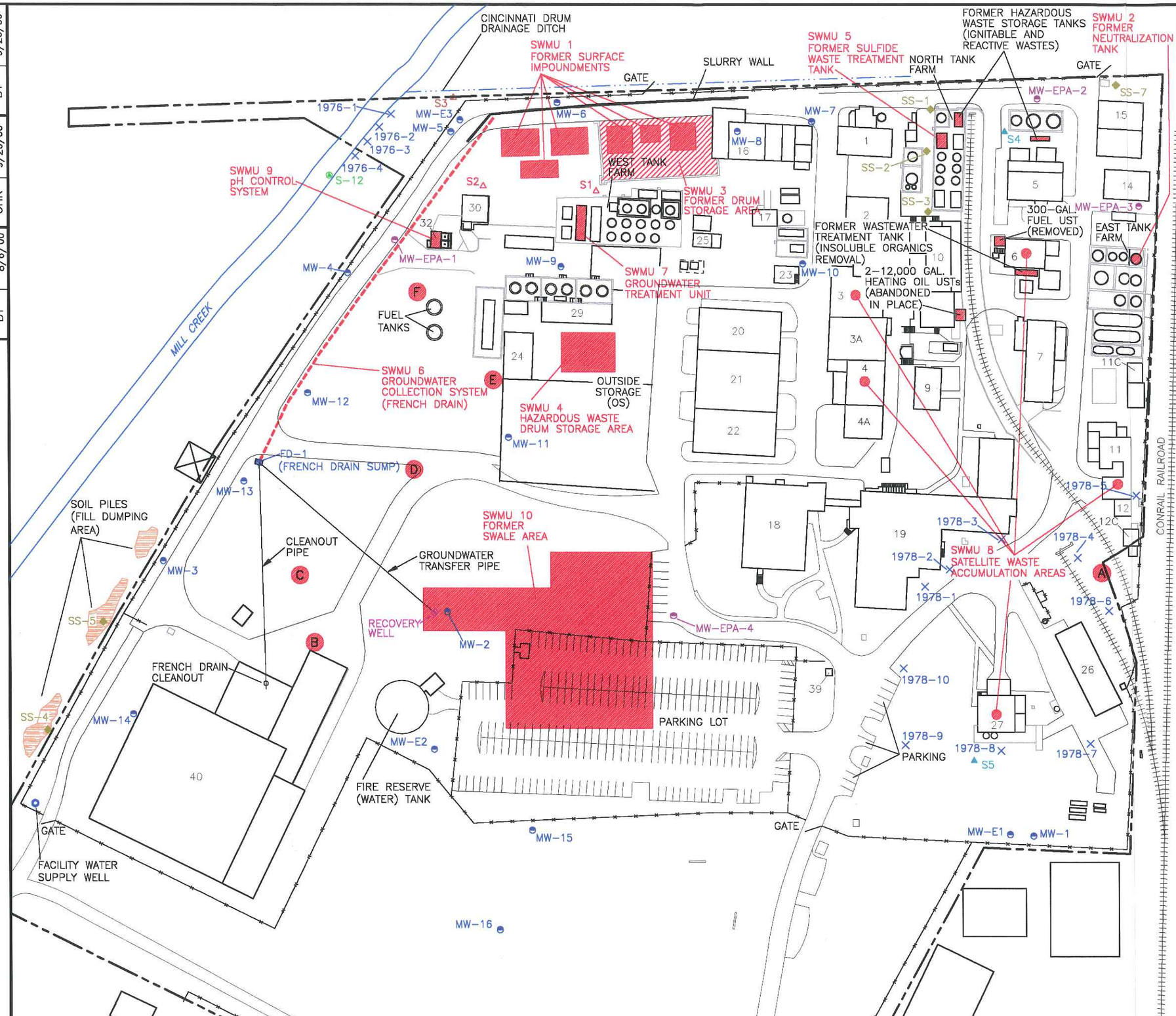
GENERALIZED HYDROGEOLOGIC CROSS SECTION
MILL CREEK VALLEY
PREPARED FOR
ROHM AND HAAS CO. – READING, OHIO

Project No. 6452

Figure No. 2–8

6452A02.DWG

DRAFT BY	RPS 8/6/00	PROJ. CHK	AMH 9/26/00	APPRV. BY	MPH 9/26/00



Base Map Source: American Process Design, Inc., Cincinnati, OH., Proj. No. 16151, 410, 6/4/98.

0 120
APPROXIMATE SCALE (FEET)

-N-

EXPLANATION

MW-1	MONITORING WELL LOCATION AND IDENTIFICATION NUMBER (PEDCO, 1982 AND ATEC, 1983)
S4	SURFACE SOIL SAMPLE LOCATION AND IDENTIFICATION NUMBER (E&E, 1991)
S1	SUBSURFACE SOIL SAMPLE LOCATION AND IDENTIFICATION NUMBER (E&E, 1991)
S3	SEDIMENT SAMPLE LOCATION AND IDENTIFICATION NUMBER (E&E, 1991)
MW-EPA-1	MONITORING WELL LOCATION AND IDENTIFICATION NUMBER (PRC, 1993)
S-12	SEDIMENT SAMPLE LOCATION AND IDENTIFICATION NUMBER (PRC, 1993)
SS-1	SURFACE SOIL SAMPLE LOCATION AND IDENTIFICATION NUMBER (PRC, 1993)
1978-1	SEDIMENT OR SURFACE SOIL SAMPLE LOCATION AND IDENTIFICATION NUMBER (CMC, 1979b)
	MORTON FACILITY PROPERTY BOUNDARY
A	LOCATION OF REPORTED WASTE BURIAL

WASTE BURIAL LOCATION	REPORTED USE
A	Burial location of small quantities of sodium and various lab samples, estimated total of 55 gallons.
B	Area was used to burn waste solvents (notably hexane, heptane, and methane). Possible location of three drums, contents unknown, buried in lime and soda ash fill.
C	One drum of sulfur monochloride buried in lime and soda ash fill.
D	Possible location of one or two drums, contents unknown, buried in lime and soda ash fill.
E	Former burial location of pipes and equipment, including sodium metal in pipes, from a building explosion and fire. The debris was later removed.
F	Possible location of three drums, contents unknown, buried in lime and soda ash.

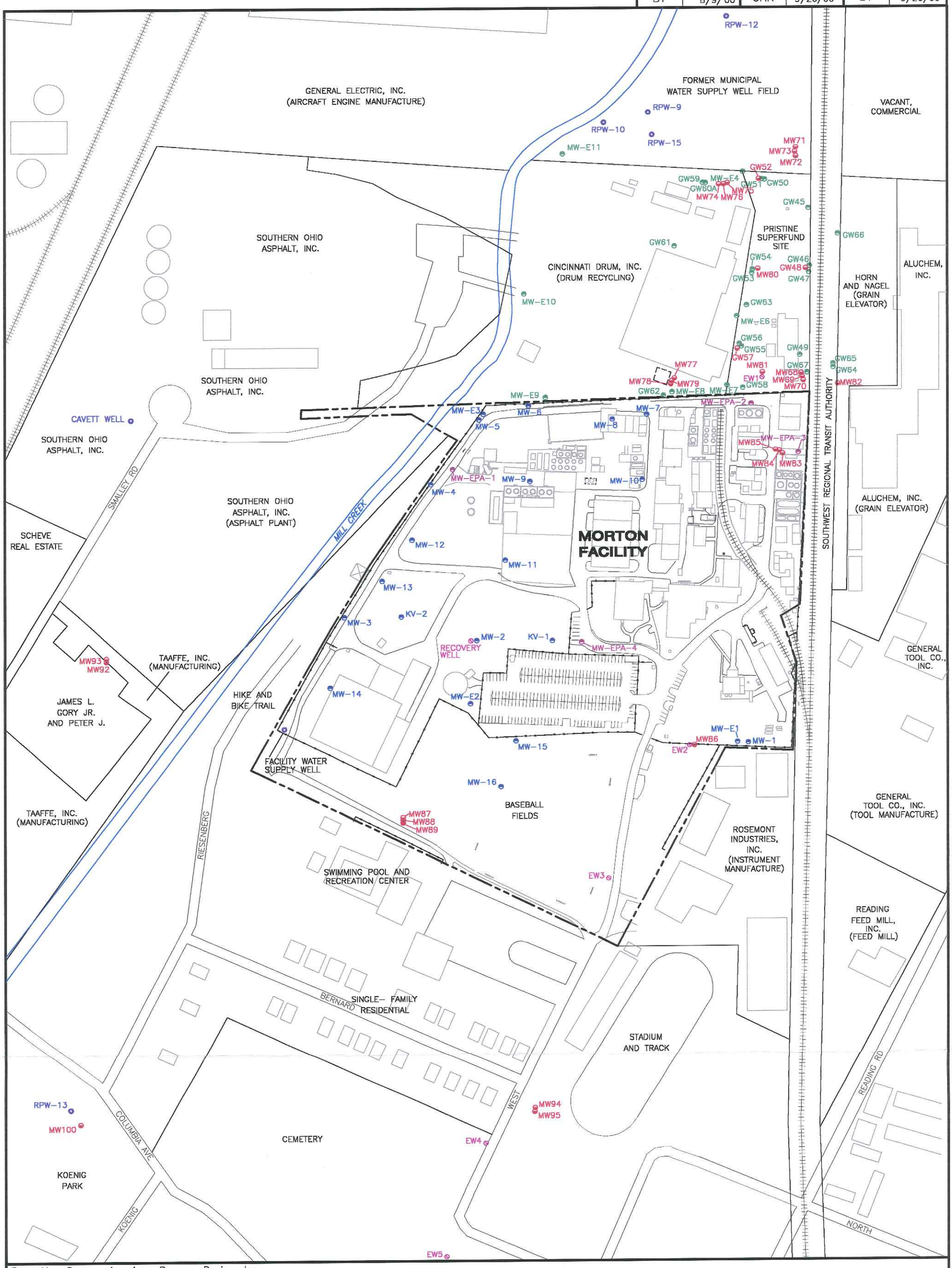
FACILITY MAP
WITH WASTE MANAGEMENT AREAS
PREPARED FOR
ROHM AND HAAS CO.
READING, OHIO

GEOMATRIX

Project No.	Figure
6452	3-1

6452B01.DWG

DRAFT BY	RPS 8/9/00	PROJ. CHK	AMH 9/26/00	APPRV. BY	MPH 9/26/00



Base Map Source: American Process Design, Inc., Cincinnati, OH., Proj. No. 16151, 410, 6/4/98.

EXPLANATION

- RPW-15 — MUNICIPAL WELL LOCATION AND IDENTIFICATION NUMBER (ABANDONED)
- MW-1 — MORTON FACILITY SHALLOW AQUIFER MONITORING WELL LOCATION AND IDENTIFICATION NUMBER
- CAVETT WELL — NON-MUNICIPAL SUPPLY WELL LOCATION
- RECOVERY WELL — MORTON FACILITY SHALLOW AQUIFER RECOVERY WELL LOCATION
- MW-EPA-1 — MONITORING WELL LOCATION AND IDENTIFICATION NUMBER
- GW50 — PRISTINE SHALLOW AQUIFER MONITORING WELL LOCATION AND IDENTIFICATION NUMBER
- MW71 — PRISTINE LOWER AQUIFER MONITORING WELL LOCATION AND IDENTIFICATION NUMBER
- EW1 — PRISTINE EXTRACTION WELL LOCATION AND IDENTIFICATION NUMBER
- MORTON FACILITY PROPERTY BOUNDARY

-N-

0 240

APPROXIMATE SCALE (FEET)

VICINITY WELLS

PREPARED FOR

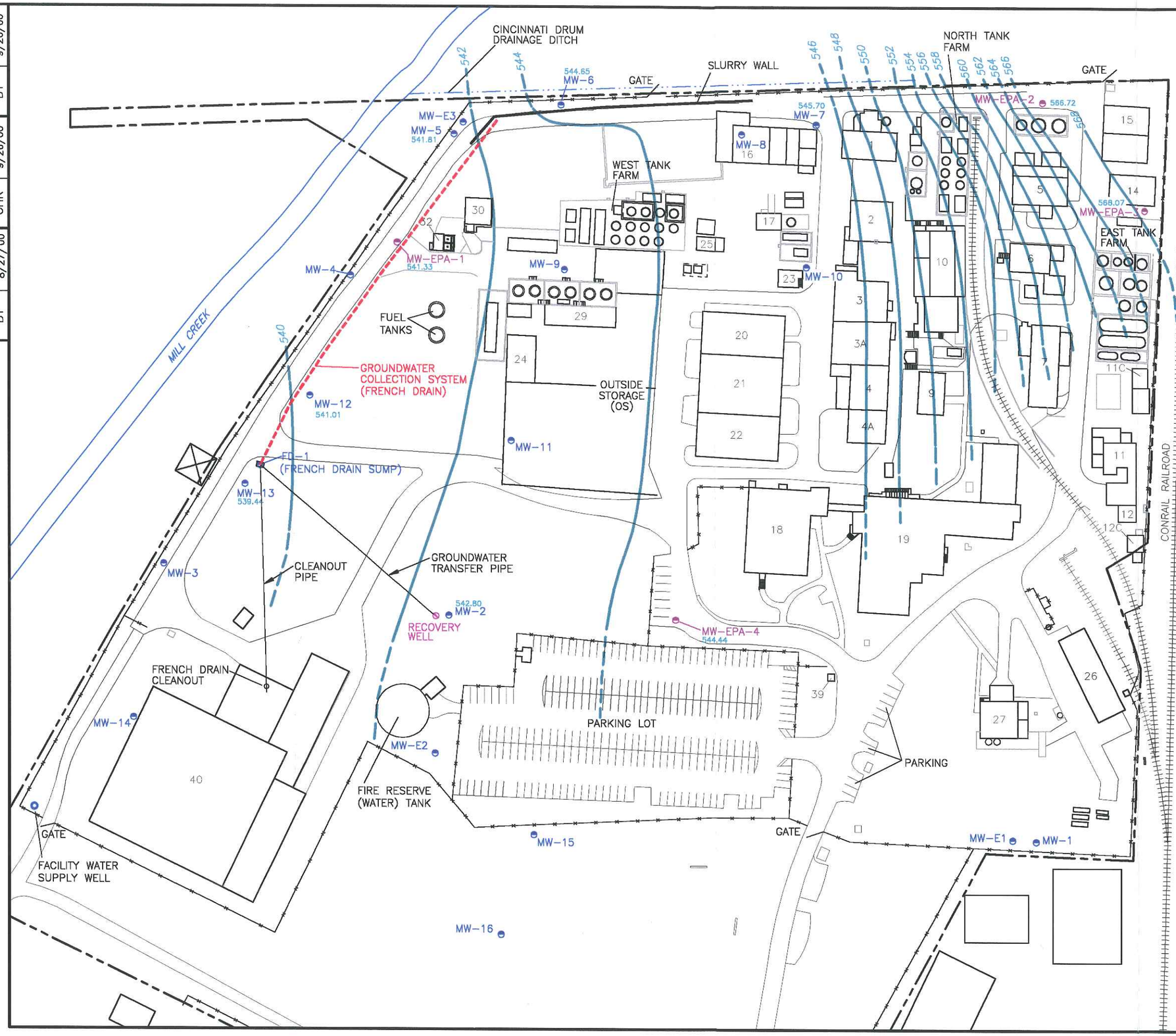
ROHM AND HAAS CO.
READING, OHIO

GEOMATRIX

Project No.	Figure
6452	4-1

6452B03.DWG

DRAFT BY	RPS 8/27/00	PROJ. CHK	AMH 9/26/00	APPRV. BY	MPH 9/26/00



Base Map Source: American Process Design, Inc., Cincinnati, OH., Proj. No. 16151, 410, 6/4/98.

0 120
APPROXIMATE SCALE (FEET)

-N-

EXPLANATION

566	LINE OF CONTOUR WATER ELEVATION (FT MSL, DASHED WHERE INFERRED) (PRC, 1993)
566.72	WATER LEVEL ELEVATION (FT MSL)
MW-1	SHALLOW AQUIFER MONITORING WELL LOCATION AND IDENTIFICATION NUMBER (PEDCO, 1982 AND ATEC, 1983)
MW-EPA-1	MONITORING WELL LOCATION AND IDENTIFICATION NUMBER (PRC, 1993)
RECOVERY WELL	SHALLOW AQUIFER RECOVERY WELL LOCATION
	MORTON FACILITY PROPERTY BOUNDARY

POTENTIOMETRIC SURFACE CONTOURS AND FLOW DIRECTION IN UPPER AQUIFER
9/28/92
PREPARED FOR
ROHM AND HAAS CO.
READING, OHIO

GEOMATRIX

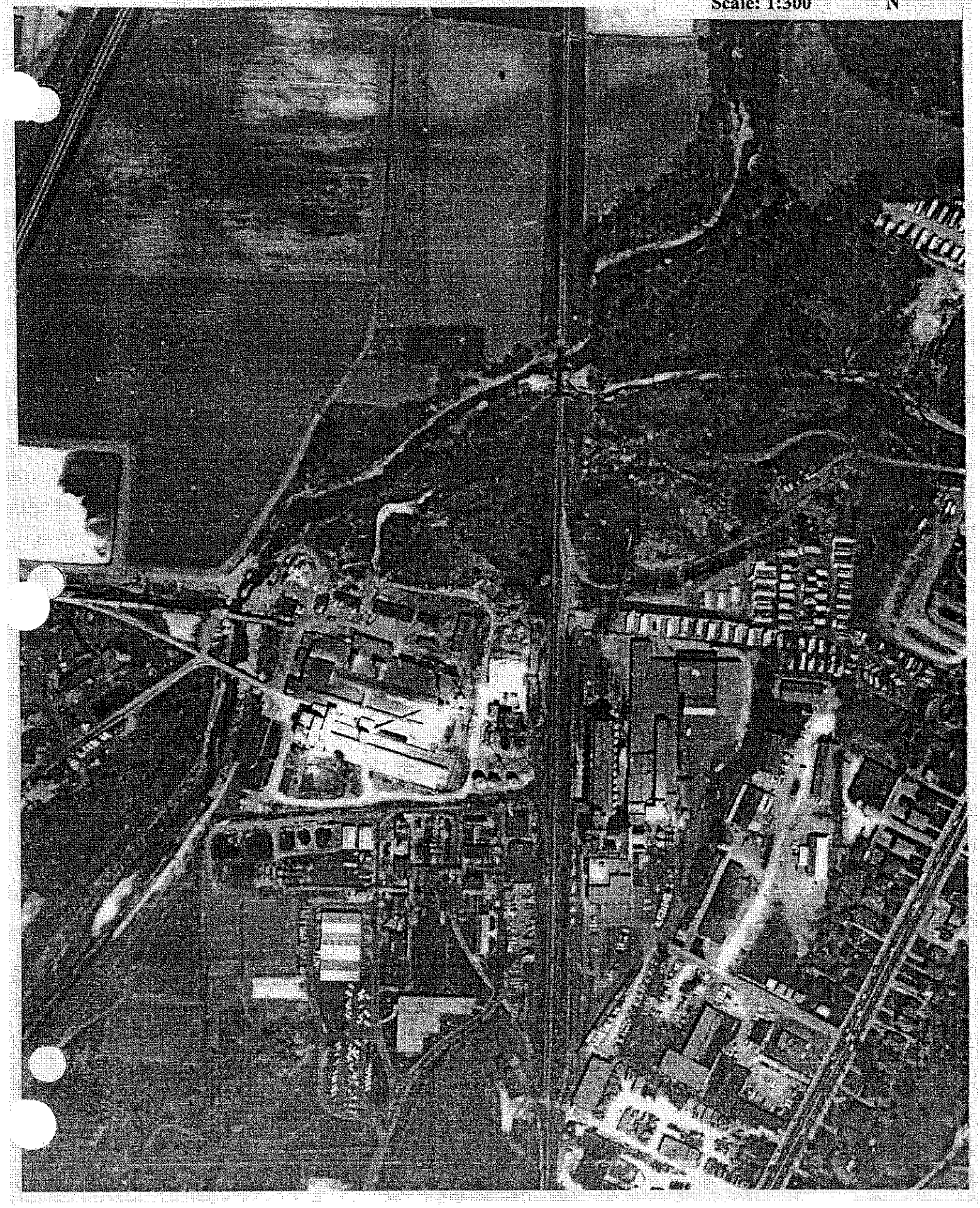
Project No.	Figure
6452	5-1

6452B09.DWG

APPENDIX A

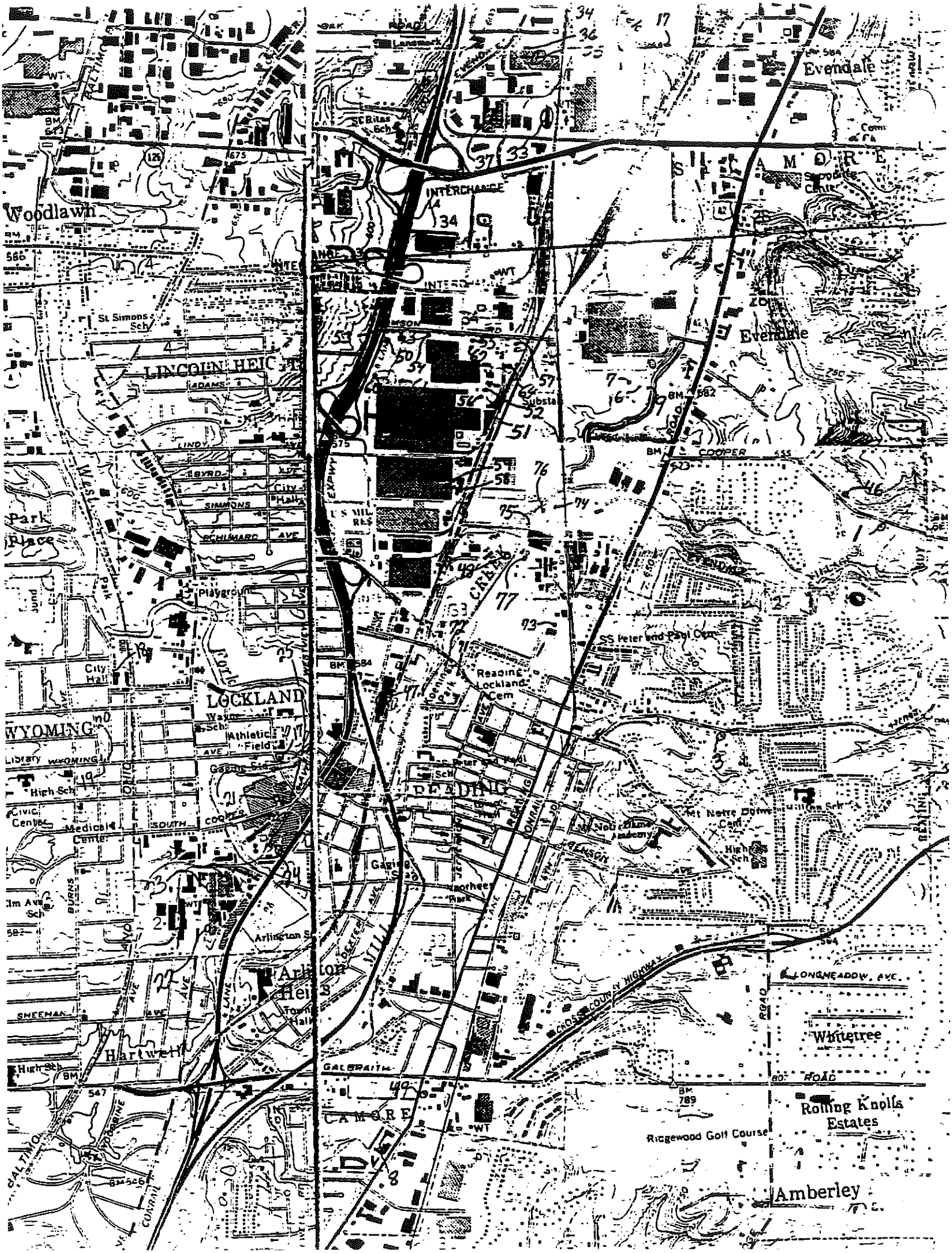
Date: 4/19/60
Scale: 1:300

↑
N



APPENDIX B

SELECTED LOGS OF WATER SUPPLY WELLS IN HAMILTON COUNTY



Evendale
Woodlawn
INTERCHANGE
St Simons Sch
LINCOLN HEIGHTS
ADAMS
LINDY
BYRD
SIMMONS
SCHUMARD AVE
City Hall
Park Place
Playground
City Hall
LOCKLAND
WYOMING
Athletic Field
Library
High Sch
Civic Center
Medical Center
SOUTH
COOPER
Reading Lockland Cem
SS Peter and Paul Cem
READING
Mt Notre Dame Cem
Mt Notre Dame Academy
Arlington Sch
Arlington Heights
Town Hall
SHEEHAN
Hartwell
High Sch
GALBRAITH
CAMORE
Whitetree
LONGMEADOW AVE
Rolling Knolls Estates
Ridgewood Golf Course
Amberley

LOCATED WELL LOGS FOR
HAMILTON COUNTY
SYCAMORE TOWNSHIP
PROJECT # 3250

ODNR

OHIO DEPARTMENT OF
NATURAL RESOURCES

Rec'd CRA
DEC - 4 1992

Here is the material which you requested.
Please let us know if we can be of further
assistance.

GROUND-WATER RESOURCES
1939 FOUNTAIN SQ. CT., E-1, COLUMBUS, OH 43224-1336
(614) 265-6739

33

58

OHIO WATER SUPPLY BOARD

Well Record No. 70 #6

31 — 16

Hamilton Twp. Sycamore Sec. 34
Location See map Size
Map E. Cinci

Wright Aero Co. Address
Layne-Ohio Date 4/41

Head Elev. or M. P. 561
f Ground at Well

g Test: 1000 GPM

Level 56' Date
Pumpage

Use

cy of supply

ll No. or Other Designation Well #1

ot Data Layne-Ohio
d by R.J.B. Date

STRATA	DEPTH From	DEPTH To
Clay	0	5
Coarse Gravel & Sand	5	20
Sandy Clay	20	21
Gravel & Sand	21	50
Blue Clay	50	61
Gravel & Boulders	61	68
Blue Clay	68	83
Gravel & Boulders	83	91
Blue Clay	91	96
Gravel & Sand	96	110
Fine Sand	110	145
Coarse Sand, Some Gravel	145	167

3

X 1,450,400
Y 457,900 S
See sketch on reverse side

* Chief Aquifer

150
1.5
750
150
225.0

551
58 16

59

OHIO WATER SUPPLY BOARD

Well Record No. 249

o. Hamilton 31 Twp. Sycamore 16 Sec. 34
Vell Location Near RR & 300' S of Size 6"
oading Dock Main Bldg. Map E. Cinci.

wner Wright Aeronautical Corp. Address Lockland, O.
riller Layne-Ohio Date 2/12/41

Vell Head Elev. or M. P.
lev. of Ground at Well 559.

umping Test: 30 GPM

tatic Level 55' Date
ormal Pumpage

uality Use

dequacy of supply

wner's Well No. or Other Designation "A"

ource of Data Layne-Ohio
ollected by Ramsey Date 9/2/42

STRATA	DEPTH From	DEPTH To
Soil & Clay	0	2
Yellow Clay	2	6
Coarse Sand	6	32
Blue Clay	32	37
Sandy Clay	37	57
Coarse Sand, Water	57	77
Dark Sand	77	82
Light Gray Sand, Water	82	92
CoarseSand, Water	92	102
Med. Fine Sand, Water	102	163
- Shale -		

3

x 1,450,500
2000 [illegible]
4 459 0005

* Chief Aquifer

55
16
59

57

OHIO WATER SUPPLY BOARD

Well Record No. 72

31 [illegible]

Hamilton Twp. Sycamore Sec. 34

Location Size

Map E. Cinci

Wright Aero Co. Address

Layne-Ohio Date 4/41

Head Elev. or M. P. 560

of Ground at Well

ng Test: 1000 GPM

Level 46' Date

Pumpage

Use

cy of supply

Well No. or Other Designation Well #3

of Data Layne-Ohio

d by R.J.B. Date

STRATA	DEPTH From	DEPTH To
Clay	0	6
Fine Sand	6	28
Sand, Gravel, Boulders	28	30
Blue Clay	30	54
Fine Sand	54	100
Med. Sand	100	165
Coarse Sand, Some Gravel	165	176

3

X 1,451,500

Y 460,400

* Chief Aquifer

R.J.B.

150
15
750
150
2250

563
176
57

76

OHIO WATER SUPPLY BOARD

Well Record No. 71

31

Hamilton Twp. Sycamore Sec. 34

Location Size

Map E. Cinci

r Wright Aero Co. Address

r Layne-Ohio Date 8/41

Head Elev. or M. P. 561

of Ground at Well

ing Test: 1000 GPM

Level 551 Date

al Pumpage

ty Use

acy of supply

Well No. or Other Designation Well #2

e of Data Layne-Ohio

cted by R.L.R. Date

STRATA	DEPTH From	DEPTH To
Clay	0	6
Sand & Gravel	6	32
Clay	32	39
Sand, Gravel & Boulders	39	52
Blue Clay	52	62
Sand	62	67
Blue Clay	67	79
Coarse Gravel	79	94
Fine Sand	94	150
Coarse Sand, Some Gravel	150	178
3		
X 1,451,100		
Y 459,400.5		

* Chief Aquifer

150
1.5
750
900
150
1750

557
178
56

54

OHIO WATER SUPPLY BOARD

31 16

Well Record No. 74

milton Twp. Sycamore Sec. 34
ocation Size
Map E. Cinci

Wright Aero Co. Address
Layne-Ohio Date 1941

ead Elev. or M. P. 56¢
Ground at Well

g Test: 1000 GPM

evel 53' Date
Pumpage

Use

y of supply

l No. or Other Designation Well #5

of Data Layne-Ohio
d by R.J.B. Date

STRATA	DEPTH From	DEPTH To
Top Soil, Clay-	0	7
Fine Sand	7	27
Yellow Clay	27	43
Gravel & Sand	43	57
Blue Clay	57	61
Gravel	61	66
Clay & Gravel	66	70
Coarse Gravel & Boulders	70	90
Fine Sand	90	180
Coarse Boulders	180	184.5

3

X 1,449900
Y 460,500S

* Chief Aquifer

150
5
1550

559
54 184

55

OHIO WATER SUPPLY BOARD

Well Record No. 73

31 16

Hamilton Twp. Sycamore Sec. 34

ll Location Size

Map E. Cinci

ner Wright Aero Co. Address

ller Layne-Ohio Date 1941

ll Head Elev. or M. P. 56'

v. of Ground at Well

ping Test: 1000 GPM

ic Level 56' Date

mal Pumpage

lity Use

quacy of supply

er's Well No. or Other Designation Well #4

ce of Data Layne-Ohio

cted by R.J.B. Date

STRATA	DEPTH From	DEPTH To
Top Soil & Clay	0	4
Sand	4	15
Coarse Sand & Gravel	15	22
Blue Clay	22	25
Gravel & Boulders	25	28
Blue Clay	28	40
Fine Sand	40	42
Blue Clay	42	44
Coarse Gravel	44	50
Sandy Clay	50	65
Gravel	65	68
Blue Clay	68	80
Fine Sand	80	155
Coarse Sand	155	176

3

X 1,450,500
Y 460,500

* Chief Aquifer

155
10
1500

55
55 176

Co. Hamilton Twp. Sycamore Sec. 33
Well Location Koenig Park Size
Map E. Cinci

Owner City of Reading Address
Driller L. E. Posey Date 1932

Well Head Elev. or M. P. 550'
Elev. of Ground at Well

Pumping Test: ✓

Static Level 62' Date 1932
Normal Pumpage

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation U.S.G.S. 220-2

Source of Data
Collected by R.J.B. Date

STRATA	From	To
Clay	0	4
Clay, Sand & Gravel	4	20
Blue Clay	20	31
Gravel & Sand	31	47
Blue Clay	47	60
Muddy Sand	60	65
Blue Clay	65	72
Coarse Gravel	72	81
Hard pan	81	94
Sand & Gravel	94	109
Hard pan	109	115
Sand & Gravel	115	152

Chemical analysis on file.

X 1,449500
Y 453500

* Chief Aquifer

R.J.B.

OHIO WATER SUPPLY BOARD

Well Record No. 99

Co. Hamilton Twp. Sycamore Sec. 33
Well Location Koenig Park Size
Map E. Cinci

Owner City of Reading Address
Driller C. L. Beerly, Lafayette, Ohio Date 1934

Well Head Elev. or M. P. 551
Elev. of Ground at Well

Pumping Test: 350 GPM

Static Level 86.5' Date 7/22/38
Normal Pumpage

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation U.S.G.S. 220-1

Source of Data
Collected by R.J.B. Date

STRATA	DEPTH From	DEPTH To
Yellow Clay	0	4
Muddy Sand	4	15
Blue Clay	15	30
Muddy Sand & Gravel	30	70
Blue Clay	70	75
Hard pan	75	99
Fine Sand	99	125
Coarse Sand	125	127
Yellow Clay	127	131
Sand & Gravel	131	151.3

X 1,449500
Y 453500

* Chief Aquifer

OHIO WATER SUPPLY BOARD

31 — 16

Co. Hamilton Twp. Sycamore Sec. 33
Well Location Walnut & Jefferson Ave. Size
Map E. Cinci

Owner City of Reading Address
Driller Jos. Koehne Date 1/31

Well Head Elev. or M. P. 555
Elev. of Ground at Well

Pumping Test: ✓

Static Level ✓ Date
Normal Pumpage

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation U.S.G.S. 220-3

Source of Data Jos. Koehne
Collected by R.J.B. Date

Well Record No. 100

STRATA	DEPTH From	DEPTH To
Dry Gravel	0	40
Clay	40	43
Coarse Gravel	43	55
Blue Clay	55	101
Fine Sand	101	110
Coarse Gravel	110	122
Fine Loamy Sand	122	133
Coarse Gravel	133	136
Fine Sand	136	152
Coarse Gravel	152	156
Red Rock	156	

3

X 1,449,500
Y 453,500

* Chief Aquifer

R.v.E.

OHIO WATER SUPPLY BOARD

Well Record No. [illegible]

31 — 15

Hamilton Twp. Springfield Sec. 2

Well Location Size 26"

Map E. Circi.

Owner Philip Carey Co. Address Lockland, O.

Driller Layne-Ohio Date 1/4/32

Well Head Elev. or M. P.

Elev. of Ground at Well

Pumping Test: 1400 GPM

Static Level 100' Date

Normal Pumpage

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation 5

Source of Data Layne-Ohio

Collected by Ramsey Date 8/18/42

STRATA	DEPTH From	DEPTH To
Cinders	0	
Clay	5	[illegible]
Sand	40	[illegible]
Clay	44	70
Sand	70	10[illegible]
*Med. Sand	100	18[illegible]
Probable bedrock		

3

X 1,445,000

[illegible]

4 45[illegible]

* Chief Aquifer

55[illegible]

1 [illegible]

3 7[illegible]

2 [illegible]

OHIO WATER RESOURCES BOARD

Well Record No. 372

31 — 15

Hamilton Twp. Springfield Sec. 2

Location between Bag Plant Bldg's Size 10"

on RR Siding Map E. Cincinnati

Owner Fox Paper Co. Address Lockland, O.

Driller Layne Date 5-14-47

Well Head Elev. or M. P.

Elev. of Ground at Well

Pumping Test: Cap. 250 GPM

Static Level 131 Date 5-14-47

Normal Pumpage

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation Well #6

Source of Data Layne 922

Collected by JPM Date 1-15-48

STRATA	DEPTH From	DEPTH To
Fill	0	
Yellow clay	4	25
Yellow sand	25	55
Sharp sand	55	61
Boulders	61	70
Sand & gravel	70	88
Sand	88	95
Sand & gravel	95	145
Sand	145	160
Sand & gravel	160	175

3

X 1,446,200

Y 451800S

* Chief Aquifer

556
17
381

21

OHIO WATER SUPPLY BOARD

Well Record No. [illegible]

31 — 15

Co. Hamilton Twp. Springfield Sec. 2

ell Location Across Canal near end of Wilson St. Size

Map S. Cinci.

Owner The Gardner Richardson Co Address Lockland, O.

Driller Date 8/27/34

Well Head Elev. or M. P.

Elev. of Ground at Well

Pumping Test: ✓

Static Level 95' Date

Normal Pumpage

Quality Use Test Well

Adequacy of supply

Owner's Well No. or Other Designation Test Well No. 1 of 1934

Source of Data Layne-Ohio

Collected by Ramsey Date 9/2/42

STRATA	DEPTH From	DEPTH To
Fill	0	
Sand & Clay	5	10
Gray Sand, Dry	50	90
Fine Sand	90	11
Med. Sand, Little Gravel	115	14
Shale & Rock	140	17

3

x 1,446,200

y 4518,725

* Chief Aquifer

551

14

4 1

24

310 Wayne Ave

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

Office No. 516
Log form No.
Quad. E. Cincinnati

31 Hamilton Twp. 15 Springfield Sec. 2

Owner Gardner Board & Canton Co.
Address Lockland, Ohio
Well location

Construction Details	Pumping Test
Casing: Diam. length	Rate: 800 G.P.M.
Screen: 40' of 26" steel	Hrs:
Type of pump:	D.D. 119 ft.
Capacity:	S.L. 110 ft.
Depth of setting:	Date 5-20-49

Owner's Well No. # 1
Driller Layne Ohio - 1010
Located by RJB Date 1950

Remarks

STRATA	Depth From	
Elevation		
Top soil	0	6
Dry gravel		12
Clay & gravel		20
Blue clay & gravel		39
Blue soft clay		96
Fin supply sand		112
Fine sand with a little gravel.		160
Sand & gravel		173

3

Casing: 110 ft. of 38" steel
138 ft. of 26" steel.

X 1,446,200
Y 451,800

* Approximate Location

562
173
389
Z3

OHIO WATER SUPPLY BOARD

Well Record No. 206

31 — 15

Hamilton Twp. Springfield Sec. 2

Well Location Near Corner of Lock St. Size 12"

& Cooper Ave. Map E. Cinci.

Owner Fox Paper Co. Address Lockland, O.

Driller Layne-Ohio Date 1/1/25

Well Head Elev. or M. P.

Elev. of Ground at Well

Pumping Test: ✓

Static Level 76' Date

Normal Pumpage

Quality Use Test Well

Adequacy of supply

Owner's Well No. or Other Designation Test Well No. 1 of 1925

USGS 241-2

Source of Data Layne-Ohio

Collected by Ramsey Date 9/2/42

STRATA	DEPTH From	DEPTH To
Clay	0	65
Broken Rock	65	69
Sandy Clay	69	79
Gravel & Clay	79	86
Very Fine Sand	86	115
Med. Sand	115	165
Rock & Clay	165	170
Gravel	170	175
- Rock -		

3

X 1,446,200

" 451,8009

* Chief Aquifer

559

175

25 384

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

№ 119295

County Hamilton Township Sycamore Section of Township or Lot Number

Owner Vanderhaar Bros. Address Box 94 RR 2 Sharonville, O

Location of property Cooper Rd (State Rd, RR 2 & 42) ½ mile east of Route 2 & 42

CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 54'

Type of screen Brass Length of screen 10'

Type of pump

Capacity of pump

Depth of pump setting

PUMPING TEST

Pumping rate G.P.M. Duration of test hrs.

Drawdown ft. Date

Developed capacity

Static level—depth to water 19 ft.

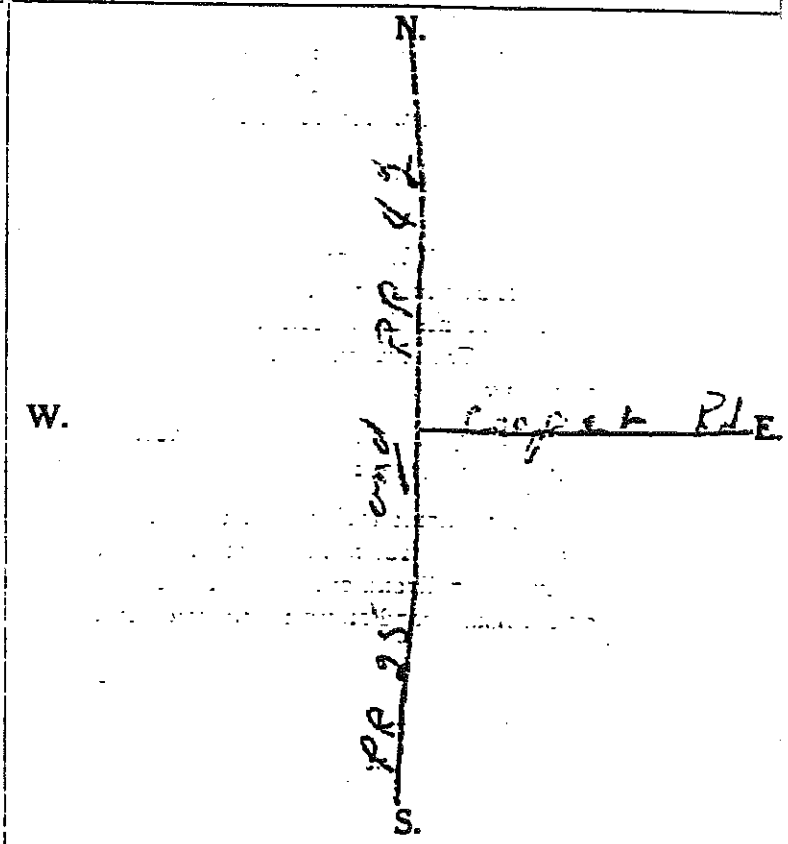
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Clay	0 Feet	7 Ft.
Sand & gravel	49	56

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Valley Well Driller Date 3/21/55

Address RR1 Westchester, O Signed Lloyd Fruthe

46

OHIO WATER SUPPLY BOARD

Well Record No. 232

31 16

Co. Hamilton Twp. Sycamore Sec. 35
Well Location Back Glendale Size 12"
Water Works Map Mason
Sharon Ave.
Owner The Drackett Co. Address Cincinnati, Glendale
Driller Layne-Ohio Date 10-7-33

Well Head Elev. or M. P.
Elev. of Ground at Well

Pumping Test: 1000 gpm

Static Level 25' Date
Normal Pumpage

Quality Use Industry

Adequacy of supply

Owner's Well No. or Other Designation 1
USGS 209
Source of Data Layne
Collected by Ramsey Date 8-19-42

STRATA	DEPTH From	DEPTH To
Soil & Clay	0	
Fine Sand		29
Coarse Sand		57
Blue Clay		68
Fine Gray Sand		77
Blue Clay		170
*Fine Sand & Coarse Sand & Gravel		

3

X 1452600
Y 416400

* Chief Aquifer

OHIO WATER SUPPLY BOARD

Well Record No. 73

31 16

Co. Hamilton Twp. Sycamore Sec. 34
Well Location Size
Map E. Cinci

Owner Wright Aero Co. Address
Driller Layne-Ohio Date 1941

Well Head Elev. or M. P. 564
Elev. of Ground at Well

Pumping Test: 1000 GPM

Static Level 50' Date
Normal Pumpage

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation Well #4

Source of Data Layne-Ohio
Collected by Date

STRATA	DEPTH From	DEPTH To
Top Soil & Clay	0	4
Sand	4	15
Coarse Sand & Gravel	15	22
Blue Clay	22	25
Gravel & Boulders	25	28
Blue Clay	28	40
Fine Sand	40	42
Blue Clay	42	44
Coarse Gravel	44	50
Sandy Clay	50	65
Gravel	65	68
Blue Clay	68	80
Fine Sand	80	155
Coarse Sand	155	176

3

X 1450500
Y 416500

* Chief Aquifer

OHIO WATER SUPPLY BOARD

Well Record No. 72

Co. Hamilton Twp. Sycamore Sec. 34
Well Location Size
Map E. Cinci

Owner Wright Aero Co. Address
Driller Layne-Ohio Date 4/41

Well Head Elev. or M. P. 560
Elev. of Ground at Well

Pumping Test: 1000 GPM

Static Level 46' Date
Normal Pumpage

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation Well #3

Source of Data Layne-Ohio
Collected by R.J.B. Date

STRATA	DEPTH From	DEPTH To
Clay	0	6
Fine Sand	6	28
Sand, Gravel, Boulders	28	30
Blue Clay	30	54
Fine Sand	54	100
Med. Sand	100	165
Coarse Sand, Some Gravel	165	176

3

X 1,451,560
Y 460,4[illegible]

* Chief Aquifer

OHIO WATER SUPPLY BOARD

Well Record No. 71

Co. Hamilton Twp. Sycamore Sec. 34
Well Location Size
Map E. Cinci

Owner Wright Aero Co. Address
Driller Layne-Ohio Date 9/41

Well Head Elev. or M. P. 561
Elev. of Ground at Well

Pumping Test: 1000 GPM

Static Level 55' Date
Normal Pumpage

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation Well #2

Source of Data Layne-Ohio
Collected by R.J.B. Date

STRATA	DEPTH From	DEPTH To
Clay	0	6
Sand & Gravel	6	32
Clay	32	39
Sand, Gravel & Boulders	39	52
Blue Clay	52	62
Sand	62	67
Blue Clay	67	79
Coarse Gravel	79	94
Fine Sand	94	150
Coarse Sand, Some Gravel	150	178

3

X 1,451,100
Y 459,[illegible]

* Chief Aquifer

52

OHIO WATER SUPPLY BOARD

Well Record No. 237

Hamilton 31 Twp. Sycamore 16 Sec. 34
Location 60' S 450' E of Size
ry Gate Guard House Map E. Cinci.

Wright Aeronautical Corp. Address Lockland, O.
Layne-Ohio Date 3/3/42

Head Elev. or M. P.
of Ground at Well

ng Test: ✓

Level ✓ Date
l Pumpage

y Use Test Well

acy of supply

Well No. or Other Designation Test Well No. 5 of 1942

ata Layne-Ohio
ted by Ramsey Date 9/2/42

STRATA	DEPTH From	DEPTH To
Clay	0	6
Clay & Gravel	6	16
Fine Sand	16	21
Blue Clay	21	25

3

λ 1,450,500
2000 0000
y 469 000

* Chief Aquifer

55
52

53

OHIO WATER SUPPLY BOARD

Well Record No. 75

31 — 16

Hamilton Twp. Sycamore Sec. 34

Location NW Cor of Property Size

Map E. Cinci

Wright Aero Address

Layne-Ohio Date 1941

Head Elev. or M. P. 574

of Ground at Well

ng Test: ✓

Level ✓ Date

Pumpage

Use

cy of supply

Well No. or Other Designation Well #6

of Data Layne-Ohio

d by R.J.B. Date

STRATA	DEPTH From	DEPTH To
Hard pan & Blue Clay	0	60
?		
To Be Completed Use Test Well "C"		
X 1,649,100		
Y 46 0 5 0 0 5		

* Chief Aquifer

R.J.C.

53 571

50

OHIO WATER SUPPLY BOARD

Well Record No. 242

Hamilton 31 Twp. Sycamore 16 Sec. 34
ll Location 75' SW of Water Size
ell No. 6 Map E. Cinci.

ner Wright Aeronautical Corp. Address Lockland, O.
ler Layne-Ohio Date 3/7/42

ll Head Elev. or M. P.
v. of Ground at Well

nping Test: ✓

ic Level ✓ Date
mal Pumpage

lity Use Test Well

quacy of supply

s Well No. or Other Designation Test Well No. 10

Data Layne-Ohio
ected by Ramsey Date 9/2/42

STRATA	DEPTH From	DEPTH To
Yellow Clay	0	15
Gray Clay	15	50
? 3		

x 1,450,500
2000' x 2000
4 459 0005

* Chief Aquifer

569
50
50
510

51

OHIO WATER SUPPLY BOARD

Well Record No. 238

Hamilton 31 Twp. Sycamore 16 Sec. 34
Location 500' S of #5 Size
Map E. Cinci.

er Wright Aeronautical Corp. Address Lockland, O.
er Layne-Ohio L Date 3/6/42

Head Elev. or M. P.
of Ground at Well

ing Test: ✓

Level ✓ Date
al Pumpage

ty Use Test Well

acy of supply

r's Well No. or Other Designation Test Well No. 6 of 1942

of Data Layne-Ohio
ted by Ramsey Date 9/2/42

STRATA	DEPTH From	DEPTH To
Clay	0	6
Sandy Clay & Gravel	6	13
Sand & Gravel	13	25

3

X 1,450,500
2000 2000
4 450 000

* Chief Aquifer

558
51 254

60

OHIO WATER SUPPLY BOARD

Well Record No. 252

...ilton 31 Twp. Sycamore 16 Sec. 34
Location Near Messer Office N. of Size 6"
...roposed Office Bldg. Map E. Cinci.

...Wright Aeronautical Corp. Address Lockland, O.
...r Layne-Ohio Date 3/6/41

Head Elev. or M. P.
of Ground at Well

...ng Test: 5 GPM

Level 75' Date
...l Pumpage

...y Use

...acy of supply

...'s Well No. or Other Designation "D"

Data Layne-Ohio
...e Ramsey Date 9/2/42

STRATA	DEPTH From	DEPTH To
Yellow Clay	0	10
Dry Gravel & Clay	10	14
Blue Clay	14	29
Fine Sand	29	64
Blue Clay	64	79
Fine Gray Sand, Water	79	171
Coal (54)		

x 1,450,500
2000 x 2000
4 459 0005

* Chief Aquifer

561
171
60

61

OHIO WATER SUPPLY BOARD

Well Record No. 250

Hamilton 31 Twp. Sycamore 16 Sec. 34
Location Near Test Well "A" Size 6"
Map E. Cinci.

Wright Aeronautical Corp. Address Lockland, O.
Layne-Ohio Date 2/10/41

Head Elev. or M. P. ?
of Ground at Well 576.

ng Test: 10 GPM

Level 55' Date
l Pumpage

y Use

icy of supply

's Well No. or Other Designation "B"

of Data Layne-Ohio
ed by Ramsey Date 9/2/42

STRATA	DEPTH From	DEPTH To
Fine Sand	0	10
Coarse Gravel, Dry-	10	25
Clay	25	50
Black Sand	50	55
Sandy Clay	55	65
Clay & Gravel	65	90
Coarse Gravel, Water	90	113
Fine Sand	113	140
Med. Fine Sand	140	156
- Coal - ?(shale) 3		

x 1,450,500
[illegible]
4 459 000 S

* Chief Aquifer

557
61 158

67

OHIO WATER SUPPLY BOARD

Well Record No. 253

Hamilton 31 Twp. Sycamore 16 Sec. 34
Location Size 6"
E. corner tract Map E. Cinci.

er Wright Aeronautical Corp. Address Lockland, O.
er Layne-Ohio Date 4/2/41

Head Elev. or M. P.
. of Ground at Well 560'

ping Test: 75 GPM

ic Level 48 Date 4-2-42
nal Pumpage

lity Use Test Well

quacy of supply

s Well No. or Other Designation "E"

: Data Layne-Ohio
lected by Ramsey Date 9/2/42
JJC

STRATA	DEPTH From	DEPTH To
Top Soil	0	4
Dry Gravel & Sand	4	30
Clay	30	42
Fine Sand	42	54
Blue Clay	54	62
Fine Sand	62	84
Med. Fine Sand	84	100
Coarse Sand & Gravel	100	180
- Clay -		

3

x 1450500
y 459 000 S

* Chief Aquifer

[redacted]

[redacted]

[redacted]

559
64 18

71

OHIO WATER SUPPLY BOARD

Well Record No. 98

31 — 16

Hamilton Twp. Sycamore Sec. 33

Location Koenig Park Size

Map E. Cinci

r City of Reading Address

r A. R. Posey Date 1932

Head Elev. or M. P. 550'

of Ground at Well

ng Test: ✓

Level 62' Date 1932

l Pumpage —

/ Use

icy of supply

s Well No. or Other Designation U.S.G.S. 200-2 220-2

of Data

d by R.J.B. Date

STRATA	DEPTH From	DEPTH To
Clay	0	4
Clay, Sand & Gravel	4	20
Blue Clay	20	31
Gravel & Sand	31	47
Blue Clay	47	60
Muddy Sand	60	65
Blue Clay	65	72
Coarse Gravel	72	81
Hard pan	81	94
Sand & Gravel	94	109
Hard pan	109	115
Sand & Gravel	115	152

3

Chemical analysis on file.

+ 1,449500

\ [illegible]

Y 4535005

* Chief Aquifer

✓R.J.B.

550

152

71

62

OHIO WATER SUPPLY BOARD

Well Record No. 254

ailton 31 Twp. Sycamore 16 Sec. 34
cation NE Corner of Field Size
Map E. Cinci.

right Aeronautical Corp. Address Lockland, O.
Layne-Ohio Date 3/18/41

ad Elev. or M. P.
Ground at Well

; Test: ✓

evel 47' Date
Pumpage

Use

y of supply

Well No. or Other Designation Reading Well "F"

ta Layne-Ohio
d Ramsey Date 9/2/42

STRATA	DEPTH From	DEPTH To
Top Soil	0	6
Dry Gravel	6	32
Clay	32	42
Fine Sand	42	54
Clay	54	62
Med. Sand	62	82
- Clay -		

3

X 1,450,500
4 459 005

* Chief Aquifer

3

556
62

63

OHIO WATER SUPPLY BOARD

Well Record No. 251

Hamilton 31 Twp. Sycamore 16 Sec. 34
Location NE Corner of Tract Size 6"
Map E. Cinci.

Wright Aeronautical Corp. Address Lockland, O.
Layne-Ohio Date 2/11/41

Head Elev. or M. P.
of Ground at Well 570.

ing Test: 5 GPM

Level 65' Date
al Pumpage

Use Test Well for + 6

acy of supply

's Well No. or Other Designation "C"

of Data Layne-Ohio
ted by Ramsey Date 9/2/42

STRATA	DEPTH From	DEPTH To
Yellow Clay	0	20
Clay	20	95
Fine Sand	95	125
Coarse Sand	125	140
Med. Fine Sand	140	160
Coarse Sand	160	165
Sand & Boulders	165	168
- Shale -		

x 1,450,500
2000 x 2000
14 459 0005

* Chief Aquifer

558
63 168

OHIO WATER RESOURCES BOARD

31 — 15

Co. Hamilton Twp. Springfield Sec.

Well Location Heuer Farm, 3 mi. N. of Lockland Size

Map Mason

Owner Fox Paper Co Address Lockland, Ohio

Driller Layne-Ohio Co Date 12/28/45

Well Head Elev. or M. P.

Elev. of Ground at Well

Pumping Test: ✓

Static Level ✓ Date

Normal Pumpage

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation T.W. #3

Source of Data Layne

Collected by HJS Date May 1948

Well Record No. 400

STRATA	DEPTH From	DEPTH To
Top soil	0	3
Clay, some boulders		90
Sand, some gravels		140
Sandy clay		192

3

x 1,451,500
y 46,40005

* Chief Aquifer

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

Co. Hamilton 31 Twp. Sycamore 16 Sec. 35

Owner Pollak Steel Co.

Address Temple Bar Bldg., Cincinnati, O.

Well location Rt. 50-by pass, 2 mi. W. of Evendale

Office No. 560

Log form No. 94101

Quad Hamilton

Construction Details	Pumping Test
Casing: Diam. 3" length 173'	Rate: 350gpm
Screen:	Hrs.: 0
Type of pump:	D.D. 10
Capacity:	S.L. 60
Depth of setting:	Date 11-27-51

Owner's Well No.

Driller Acme Well Drilling Co., Inc.

Located by JJS Date

Remarks

STRATA	Depth From	Depth To
Elevation		
Top soil	0	6
Muddy sand		16
Clay & boulders		72
Fine silty sand		142
Fine grey sand		160
Sharp sand & gravel bearing water		188

3

x 1,451,400
y 46,3200 5

*Approximate Location

OHIO WATER SURVEY BOARD

Well Record No. [illegible]

Co. Hamilton 31 Twp. Sycamore 16 Sec. 26" x 140'
Well Location Size 18" x 50'
Map Mason

Owner Drackett Co. Address Sharonville, O.
Driller Owen Townsend Date 11/29/44

Well Head Elev. or M. P.
Elev. of Ground at Well

Pumping Test: 1200 GPM; 36'8" D.D.

Static Level 54'4" 54 Date 11/29/44
Normal Pumpage

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation 2

Source of Data Layne-Ohio
Collected by Date 8/21/46

STRATA	DEPTH From	DEPTH To
Top soil and clay	0	5
Sand, gravel & boulders		[illegible]
Blue clay		[illegible]
Gravel		58
Sandy clay		68
Boulders		70
Blue clay and gravel		81
Fine sand		95
Clay and boulders		116
Fine sand		170
Coarse sand and gravel		185

3

Pit: 140' of 26"
50' of 18"
Screen: 20' of 18"

x 1,452600
y 461,4005

* Chief Aquifer

OHIO WATER RESOURCES BOARD

Well Record No. 406

Co. Hamilton 31 Twp. Sycamore 16 Sec. 28
Well Location Evendale Rd. Sharonville Ohio Size 6" x 99'4"
Map Mason

Owner New York Central R. R. Address New York, New York
Driller Joseph Koehne & Sons Date 7/29/46

Well Head Elev. or M. P.
Elev. of Ground at Well

Pumping Test: ✓

Static Level 48' Date 7/29/46
Normal Pumpage

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation

Source of Data Driller
Collected by mt Date June 1948
Located by PMA

2501 STRATA	DEPTH From	DEPTH To
Gravel	0	33
Blue clay		44
Dirty gravel		47
Sand & clay (Soup)		67
Fine sand		76
Fine brown sand		82
Coarse sand		84
Sand		101

3

Type of screen: Cook red brass Tubular slot No. 20.
Length of casing: 3'6"
Length of screen: 4'2"

x 1,452,900
y 461,4005

* Chief Aquifer

Well Record No. 484

OHIO WATER RESOURCES BOARD

31 — 16

amilton Twp. Sycamore Sec.

ll Location S. side of Benson St., Size 8" X 131'

ading, Ohio 429 Benson St. Map E. Cincinnati

E. Kinsler, Monte Vista Theatre

ner XXX 6218 Montgomery Rd. Address Cincinnati 13,

iller Jos. Koehne Sons Date 3-14-49

eil Head Elev. or M. P.

ev. of Ground at Well

mping Test: ✓

atic Level 97 ft. Date 3-14-49

ormal Pumpage

uality Use

dequacy of supply

Owner's Well No. or Other Designation

ource of Data Driller

ected by cb Date 1949

33682 STRATA	DEPTH From	DEPTH To
Yellow clay	0	5
Dry muddy sand		12
Loam		44
Sand & gravel		46
Blue loom		54
Fine sand		65
Blue clay		80
Blue loom		89
Dry gravel		98
Sand		100
Sand & gravel		106
Sand		134
Sand & gravel		141
Rock		141

Type of screen: Brass Tube
Length of screen: 10'

x 1,449,300
y 45,17000

* Chief Aquifer

11

~~650~~
~~141~~
5/09

641-7-56, 57, 58, 59

OHIO WATER SUPPLY BOARD

Well Record No. 20

Co. Hamilton 31 Twp. Springfield 15 Sec. 2

Well Location Near Office bldg. between Lock St. & Wyoming Ave Size 18" Map E. Cinci.

Owner Fox Paper Co. Address Lockland

Driller Layne Date 11-11-33

Well Head Elev. or M. P.

Elev. of Ground at Well 565

Pumping Test: 700 GPM - Guarantee 600 GPM

Static Level 108' 11-33; 130' -1936 Date

Normal Pumpage

Quality Use Ind. Use Cooling

Adequacy of supply

Owner's Well No. or Other Designation 4 USGS 241

Source of Data Layne

Collected by Ramsey Date 8-19-42

STRATA	DEPTH From
Clay	0
Rock	
Clay	
Sandy Clay	
Fine Sand	
Coarse Gravel	
- Loose Rock -	

3

x 1,446,700

y 451,800

* Chief Aquifer

55

181

3 r.

17

Fom + Smalley Rd.

Dock Hd of [illegible]

Bond 48 92

[redacted]

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

Office No. 553
Log form No. 58819
Quad. Hamilton

Co. Hamilton 31 Twp. ~~Lockland~~ Sycamore 16 Sec.

Owner Darling & Company
Address Big 4 & ~~Smalley~~ Smalley Rd. Lockland 15, O.
Well location N. & NE of Smalley Rd.

Construction Details	Pumping Test
Casing: Diam. 12" length	Rate: 500gpm
Screen:	Hrs.:
Type of pump:	D.D.
Capacity:	S.L. 94'
Depth of setting:	Date

Owner's Well No.
Driller Josl Koehne
Located by jjs Date
Remarks

STRATA	Depth From	Depth To
Elevation		
Fill-dry gravel	0	16
Dirty dry gravel		48
Muddy sand		52
Sandy blue clay		102
Dirty sand		104
Fine gray sand		124
Gray sand & some gravel		123
Coarse gray sand		135
Sand & gravel		175
3		
Gd		
X 1,447,000		
Y 455000 5 ?		

*Approximate Location

[redacted]

[redacted]

[redacted]

559
48 175

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

№ 142775

County Hamilton Township Sycamore Section of Township or Lot Number

Owner The Liquid Carbonic Corp. Address 3100 S. Kedzie Ave. Chicago, Ill.

Location of property on e. side of Reading Rd. (US42) 550' so. inter. at Galbraith

CONSTRUCTION DETAILS

Casing diameter 8" Length of casing 141'
Type of screen Cook8 Length of screen 20'
Type of pump Turbine.
Capacity of pump 60GPM
Depth of pump setting 130'

PUMPING TEST

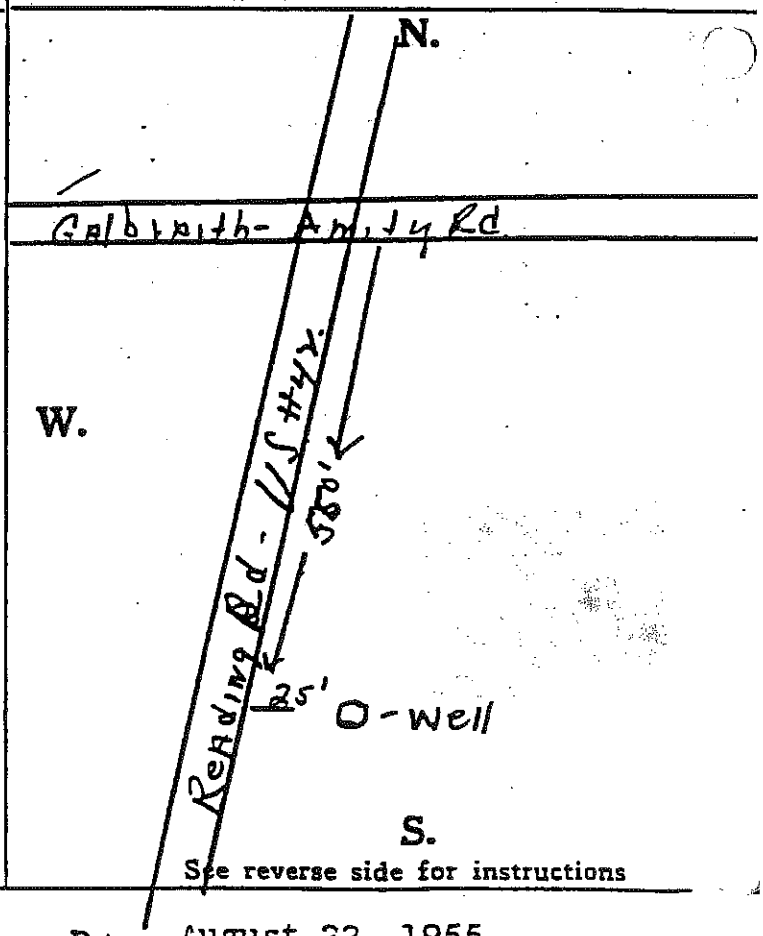
Pumping rate 60 G.P.M. Duration of test
Drawdown ft. Date
Developed capacity 60GPM
Static level—depth to water 110
Pump installed by Jos. Koehne Sons.

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Yellow Clay	0 Feet	~~15~~ Ft.
Boulders & Gravel	15	19
Fine Sand	19'	30'
Blue Clay	30'	80'
Blue Loom	80'	90'
Blue Clay	90'	110'
Muddy Yellow Sand	110'	145'
Fine Muddy Yellow Sand	145'	149'
Sand and Gravel	149'	161'

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc



See reverse side for instructions

Drilling Firm Jos. Koehne Sons. Date August 22, 1955

Address 1826 Sherman Ave. Norwood 12, O Signed Clarence Koehne

WELL LOG AND DRILLING REPORT

N.L.

ORIGINAL

State of Ohio
OHIO WATER RESOURCES BOARD
Department of Public Works
553 E. Broad St., Columbus 15, Ohio

Nº 37453

x 1,447,000
2000 x 5000
+52'500S

County HAMILTON Township Sycamore Section of Township or Lot Number ?

Owner SAWBROOKS STEEL CASTING CO Address SHEPARD LANE

Location of property LOCKLAND Ohio
(Shepard & Newhorter — Manufacturers Directory, 1946)

CONSTRUCTION DETAILS

Casing diameter 8" Length of casing 150'
Type of screen COOK Length of screen 21' - O.A.
Type of pump TURBINE
Capacity of pump 250
Depth of pump setting 130'

PUMPING TEST

Pumping rate 250 G.P.M. Duration of test ..... hrs.
Drawdown ..... ft. Date Aug 10 45
Developed capacity 250 G.P.M.
Static level of completed well 110 ft.
Pump installed by A. R. Posey Co

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	..... Ft.
[illegible] WELL WAS DRILLED 20 YEARS 90. Pulled & Replaced with new Strainer. 154' depth is to Limestone Rock.		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

W. E.

S.

See reverse side for instructions

Drilling Firm A R Posey Co Date Sept 1 - 48

Address 714 McCann Pl Signed Thurman S Posey

Cinti. O

47

WEI LOG AND DRILLING REP RT

ORIGINAL

NO CARBON PAPER NECESSARY– SELF-TRANSCRIBING

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Geological Survey
Fountain Square
Columbus, Ohio 43224 Phone (614) 466-5344

497764

COUNTY Hamilton TOWNSHIP Sycamore SECTION OF TOWNSHIP OR LOT NUMBER

OWNER The Sawbrook Steel Castings Co, ADDRESS Shepherd Ave., Lockland, Ohio 45215

LOCATION OF PROPERTY 1000 Ft. south of Smalley Rd. between Shepherd Ave & the Millcreek.

CONSTRUCTION DETAILS

sing diameter 12" Length of casing 154 Ft.
pe of screen 304 Stainless Length of screen 21' 6"
pe of pump Peerless Turbine
pacity of pump 300 GPM at 300 Ft. TDH
pth of pump setting 157 Ft.
te of completion 10-17-77

BAILING OR PUMPING TEST
(specify one by circling)

Test rate 454 gpm Duration of test 36 hrs
Drawdown 23 ft Date 10-17-77
Static level (depth to water) 81 Ft. ft
Quality (clear, cloudy, taste, odor) Clear

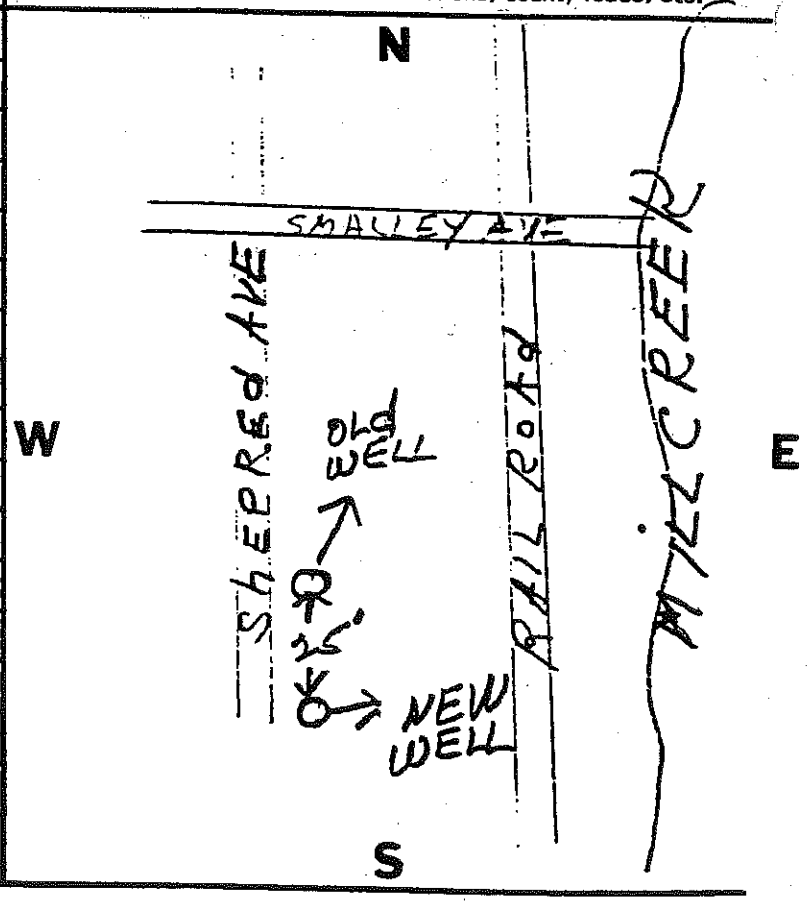
Pump installed by Jos. B. Koehne

WELL LOG*

Formations: sandstone, shale, limestone, gravel, clay	From	To
Yellow Clay	0 ft	14 ft
Blue clay & gravel	14	20
Yellow clay	20	31
Blue clay	31	38
Muddy gravel	38	47
Blue clay	47	73
Brown clay	73	95
Grey clay	95	126
Grey muddy sand	126	148
Grey sand & small gravel	148	166
Brown muddy sand & small gravel	166	173 6"
Shale	173 6"	174
Screen - Top 15 Ft. slot No. 11		
Bottom - 5 Ft. slot No.30		

SKETCH SHOWING LOCATION

Locate in reference to numbered state highways, street intersections, county roads, etc.



DRILLING FIRM Jos. B. Koehne DATE October 19, 1977
ADDRESS 7028 Moorfield Dr., Cinti. Ohio 45230 SIGNED Jos. B. Koehne

*If additional space is needed to complete well log, use next consecutive numbered form

47

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

№ 119296

unty Hamilton Township Sycamore Section of Township or Lot Number

Owner Paul Vandenlear Address Box 94 RR 2 - Sharonville

Location of property Cooper Rd (State Rt. 25 & 42) ½ mile East of Rt. 25 & 42

CONSTRUCTION DETAILS

asing diameter 6" Length of casing 35'

ype of screen Length of screen

ype of pump

apacity of pump

epth of pump setting

PUMPING TEST

Pumping rate G.P.M. Duration of test hrs.

Drawdown ft. Date

Developed capacity

Static level—depth to water 21 ft.

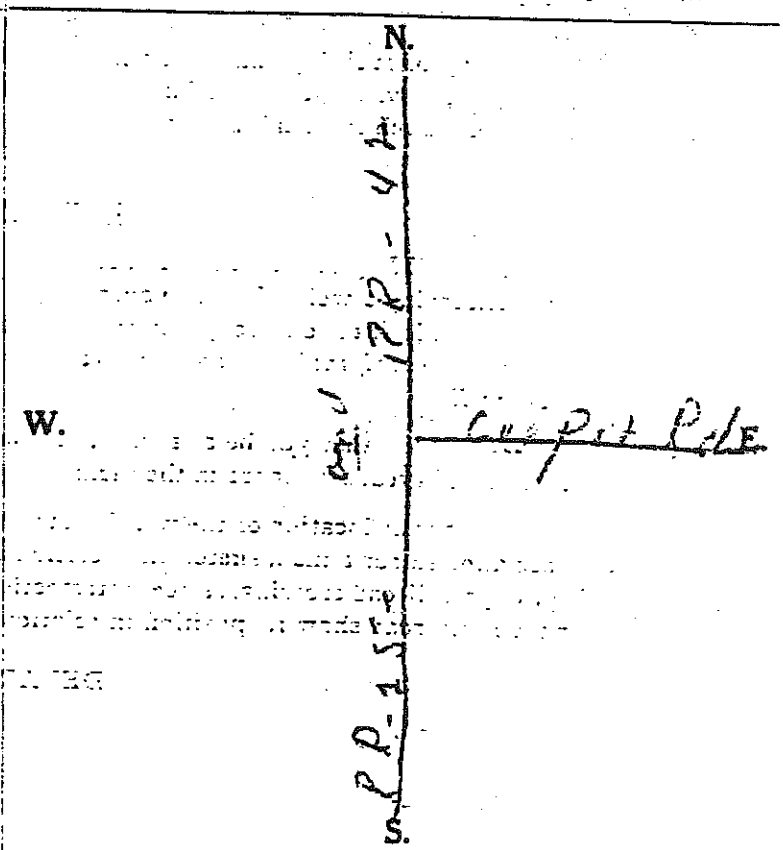
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Clay	0 Feet	9 Ft.
Shale, gray	41	56
Water		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Valley Well Drill. Date 3/25/55

Address RR 1 - West Chester O. Signed [illegible]

4/6

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

Nº 119294

County Hamilton Township Sycamore Section of Township or Lot Number

Owner Vonderhaar Bros Address Box 94 R R 2 Sharonville O

Location of property Cooper Rd (state Rd 25 & 42) 1/2 mile east of Route 25 & 42

CONSTRUCTION DETAILS

asing diameter 6" Length of casing 52'

ype of screen Bronze Length of screen 10'

ype of pump

apacity of pump

epth of pump setting

PUMPING TEST

Pumping rate G.P.M. Duration of test hrs.

Drawdown ft. Date

Developed capacity

Static level—depth to water 19 ft.

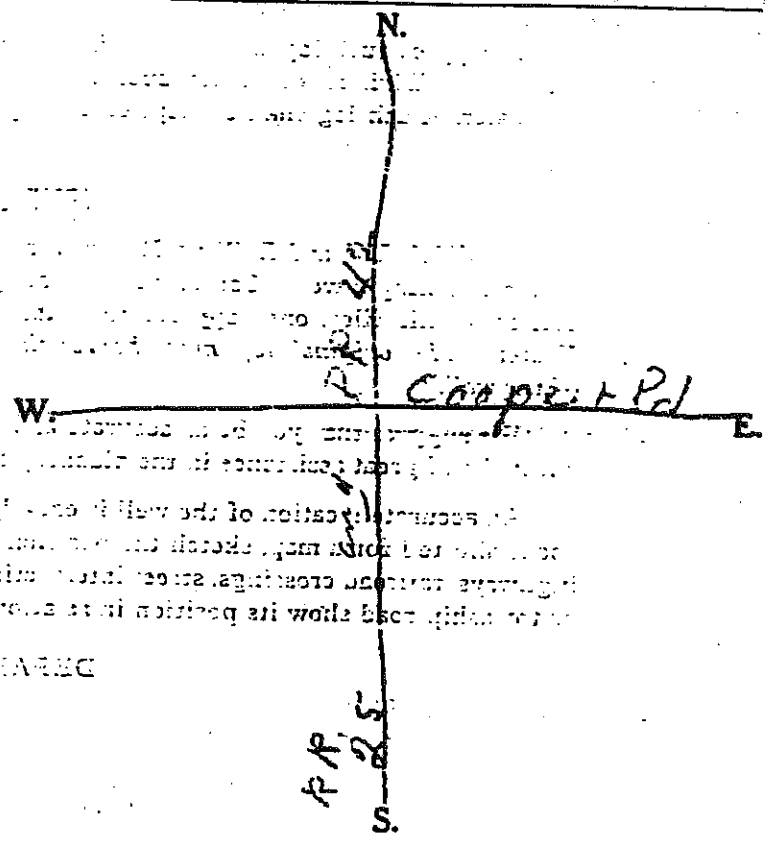
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Clay	0 Feet	7 Ft.
Sand & gravel	45	52

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Valley Well Drillers Date 3/17/55

Address P R 1 West Chester, Ohio Signed Lloyd Frantha

16

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

1448600
449500S

№ 142762

County Hamilton Township ~~Reading~~ Sycamore Section of Township or Lot Number south section.

Owner Reading Sand and Gravel, Inc. Address Granite Ave. Reading 15, Ohio

Location of property West end of Granite Ave, off Jefferson Ave.

CONSTRUCTION DETAILS

Casing diameter 8" Length of casing 127'
Type of screen COOK Length of screen 15'
Type of pump Turbine
Capacity of pump 100 GPM at 245'TDH
Depth of pump setting 139' OA

PUMPING TEST

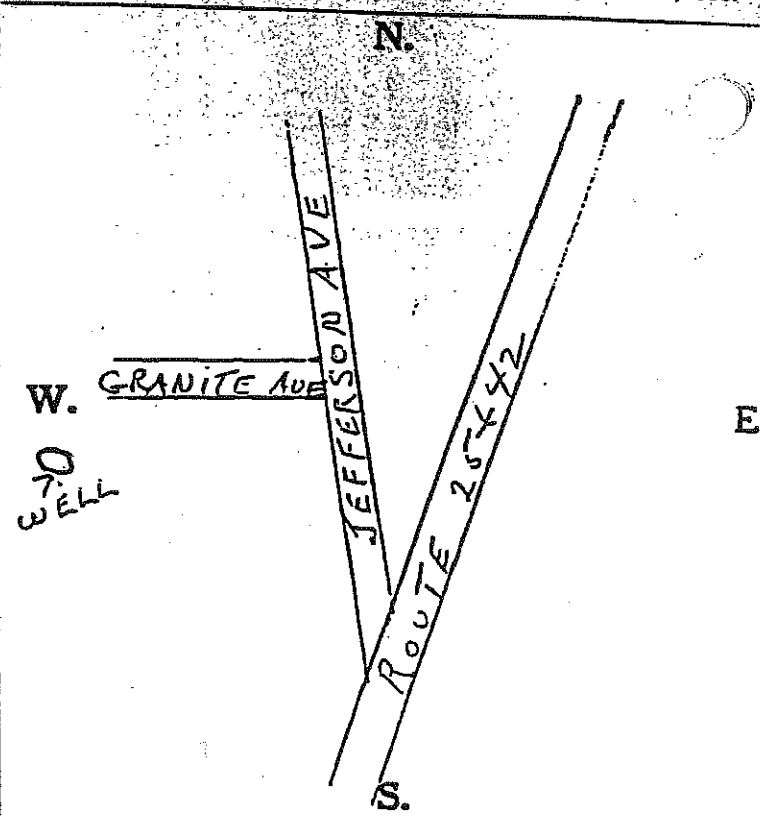
Pumping rate 100 G.P.M. Duration of test 2 hr
Drawdown - ft. Date
Developed capacity 200 GPM
Static level—depth to water 99
Pump installed by Jos. Koehne Sons.

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Yellow Clay & Gravel	0 Feet	~~21~~ Ft.
Yellow Clay	21'	36'
Dry Gravel	36'	46'
Sandy Blue Clay	46'	87'
Fine Muddy Sand	87'	101'
Brown Sand	101'	141'

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm JOS. KOEHNE SONS.
Address 1826 Sherman Ave. Norwood, 12, O.

Date October 18, 1954
Signed Jos B Koehne

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1500 Dublin Road
Columbus, Ohio

No. 201948

County HAMILTON Township SYCAMORE Section of Township 24

Owner INT. MINERALS & CHEM CORP Address CHICAGO ILL

Location of property LOCKLAND OHIO

CONSTRUCTION DETAILS	BAILING OR PUMPING TEST
Casing diameter ..... Length of casing	Pumping rate ..... G.P.M. Duration of test ..... hrs.
Type of screen ..... Length of screen	Drawdown ..... ft. Date .....
Type of pump	Developed capacity .....
Capacity of pump	Static level—depth to water ..... ft.
Depth of pump setting	Pump installed by .....
Date of completion	

WELL LOG			SKETCH SHOWING LOCATION
Formations Sandstone, shale, limestone, gravel and clay	From	To	Locate in reference to numbered State Highways, St. Intersections, County roads, etc.
	0 Feet	..... Ft.	N.
#1500			at Junction Big 4 + Smalley Rd.
			W. E.
			S.

See reverse side for instructions

Drilling Firm Layne Ohio Co Date 3-28-58

Address C.C. O Signed I T Henry

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

№ 142780

unty Hamilton Township Reading Section of Township or Lot Number

Owner City of Reading Ohio Address 431 Pike Street,

Location of property Reading Wells Field

CONSTRUCTION DETAILS

Casing diameter 12" Length of casing 138'

Type of screen Cook Length of screen 24'6"OA

Type of pump Deming Turbine

Capacity of pump

Depth of pump setting 156' OA-

PUMPING TEST

Pumping rate 508 G.P.M. Duration of test 8 hrs.

Drawdown 24' ft. Date 2/14/56

Developed capacity 400 GPM

Static level—depth to water 100' ft.

Pump installed by Jos. Koehne Sons.

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Soil	0 Feet	2 Ft.
Gravel, Blue Clay &		
t..y Rock	2	20'
lue Clay	20'	31'
ellow Clay	31'	35'
lue Clay & Gravel	35'	45'
ellow Loom	45'	83'
ine Brown Sand	83'	107'
ine Gray Sand	107'	157'
ine Gray Sand & Some		
ravel	157'	160'
lay	160'	

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

W. E.

S.

See reverse side for instructions

Drilling Firm Jos. Koehne Sons. Date February 15, 1956

Address 1826 Sherman Ave. Norwood 12, Ohio Signed Chas. R. Hardman

74

WELL LOG AND DRILLING REPORT

State of Ohio
OHIO WATER RESOURCES BOARD
Department of Public Works
553 E. Broad St., Columbus 15, Ohio

Nº 51741

Rec 1,447,000
2000 x 5000
Y 455000S

County Hamilton Township ~~Reading~~ Sycamore Section of Township or Lot Number

Owner City of Reading, Address Walnut St. Reading 15, Ohio

Location of property Reading Well Field-

CONSTRUCTION DETAILS

Casing diameter 12" Length of casing 152'7"
Type of screen Cook Length of screen 20
Type of pump Deming.
Capacity of pump 400 GPM
Depth of pump setting 140 ft. to pump bowl

PUMPING TEST

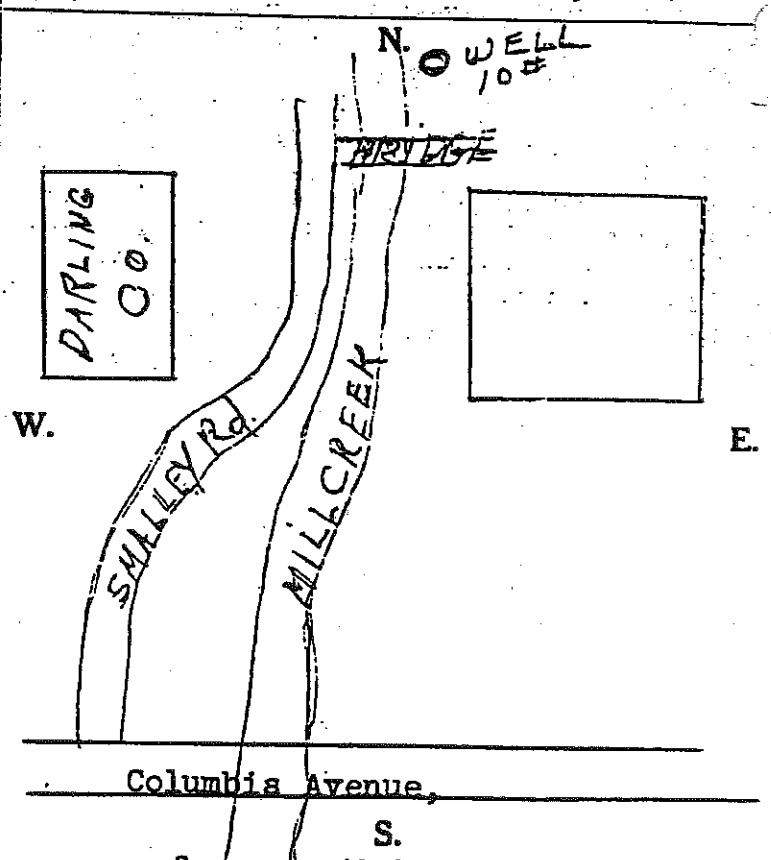
Pumping rate 400 G.P.M. Duration of test 4 hrs.
Drawdown 32 ft. Date
Developed capacity 400 GPM
Static level of completed well 99 ft.
Pump installed by Jos. Koehne Sons.

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
ellow S andy Clay	0 Feet	16 Ft.
lue Clay	16	49
uddy Sand	49	59
and and Some Gravel	59	104
ray Sand	104	148
ray Sand & Some Gravel	148	161
ravel	161	172
lay	172	

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Jos. Koehne Sons. Date July 12, 1954

Address 1826 Sherman Avenue, Norwood 12, O. Signed Clare R Hoerhaus

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WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

№ 142795

County Hamilton Township Reading Section of Township or Lot Number

Owner City of Reading Address Reading, Ohio

Location of property Reading Well Field

CONSTRUCTION DETAILS

Casing diameter 12" Length of casing 144' 10"

Type of screen Cook Length of screen 20' 6"OA

Type of pump Cook

Capacity of pump 350 GPM

Depth of pump setting 155'

NO PUMPING TEST

Pumping rate ..... G.P.M. Duration of test ..... hrs.

Drawdown ..... ft. Date .....

Developed capacity 350 GPM

Static level—depth to water 96' grounddlevel ft.

Pump installed by Jos. Koehne Sons

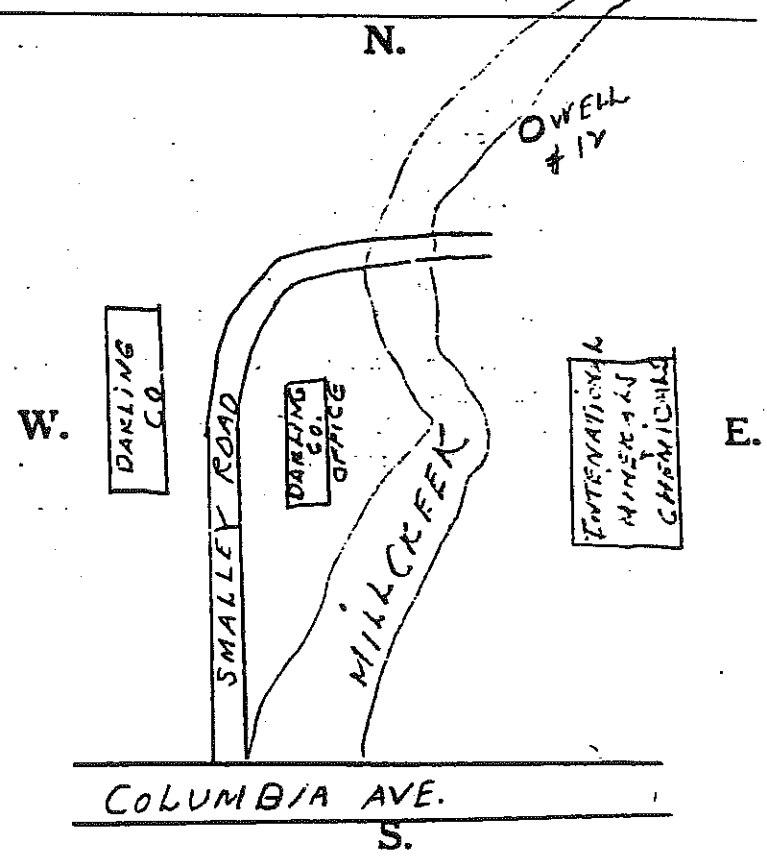
WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
[illegible]	0 Feet	14 Ft.
Clay	14'	51'
[illegible]ow Loom	51'	84'
[illegible]ine Brown Sand	84'	105'
[illegible]ine Gray Sand	105'	163'

[illegible]ook WW Red Brass Screen
[illegible]lot size No. 16

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm JOS. KOEHNE SONS Date January 28, 1957

Address 1826 Sherman Ave., Norwood, Ohio Signed Jos. B. Koehne

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WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

No. 258873

County Hamilton Township Sycamore Section of Township

Owner John Voix Address 1916 Hunt Rd Reading Ohio

Location of property Same

CONSTRUCTION DETAILS

asing diameter 6" Length of casing 42'

ype of screen Length of screen

ype of pump

apacity of pump

epth of pump setting

ate of completion

BAILING OR ~~PUMPING TEST~~

~~Pumping~~ rate 1 G.P.M. Duration of test 2 hrs.

Drawdown ft. Date

Developed capacity

Static level—depth to water ft.

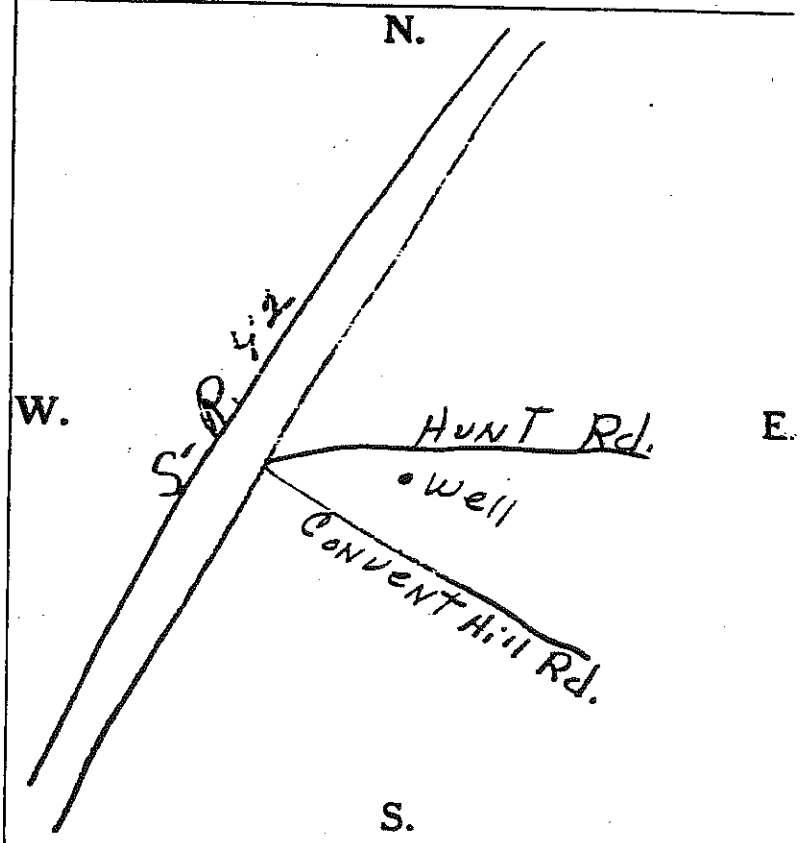
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Clay	0 Feet	37 Ft.
Gravel & Sand & Clay	37	42
Rock	42	100

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Hyden Bro's Date 6-25-63

Address 6105 Wooster Rd Signed Ralph W. Hyden

3

LEASE USE PENCIL
OR TYPEWRITER.
DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

No. 230003

HAMILTON. Township ~~[illegible]~~ Section of Township

ner CITY READING Address READING, OHIO

ation of property COLUMBIA AVE. & Koenig

CONSTRUCTION DETAILS	BAILING OR PUMPING TEST
diameter 12" Length of casing 131'	Pumping rate ? G.P.M. Duration of test hrs.
f screen WIRE WOUND Length of screen 20'	Drawdown ? ft. Date
f pump BYRON JACKSON	Developed capacity 250 GPM.
y of pump SOLD BY KOEHNE	Static level—depth to water 107' ft.
of pump setting 146'	Pump installed by J. KOEHNE
completion AUG. 1957	

T. R. Posey Co. City of Reading, Ohio
Service Department

Aug. 25, 1958

Posey R No. 230003

#13 Well, In Koenig Park, 100' W. of Koenig & Riesenberg Lanes.

LOG as of Sept. 12, 1957

Diameter 12"

0'	15'	15' Clay
15'	21'	6' Dry Sand and Gravel
21'	32'	11' Blue Clay
32'	45'	13' Med. Brown Sand
45'	53'	8' Med. Gray Sand
53'	58'	5' Blue Clay
58'	61'	3' Sharp Gravel
61'	70'	9' Fine grey Sand
70'	76'	6' Fine Gray Sand, Some Gravel
76'	85'	9' Blue Clay
85'	95'	10' Fine Sand Mixed With Clay
95'	103'	8' Course Sand, little Gravel
103'	106'	3' Fine Sand
106'	114'	7' Blue Clay
114'	126'	12' Med. Brown Sand
126'	131'	5' Med. sand and Some Gravel
131'	133'	2' B lue Clay
133'	141'	8' Med. Course sand & Some Gravel
141'	146'	5' Med. Sand
146'	150'	4' Med. Fine Sand
	150'	

550
150'

W. L LOG AND DRILLING REPC

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1500 Dublin Road
Columbus, Ohio

No. 198166

County Hamilton Township Reading Section of Township

Owner City of Reading Address 431 Pike St., Reading 15, Ohio

Location of property Centenial Park - 1 block west of StateRoute 25 & 42

CONSTRUCTION DETAILS

ing diameter 8" Length of casing 143 ft.
e of screen None Length of screen
e of pump None
acity of pump
th of pump setting
of completion

BAILING OR PUMPING TEST

Pumping rate G.P.M. Duration of test hrs.
Drawdown ft. Date
Developed capacity
Static level—depth to water ft.
Pump installed by

WELL LOG

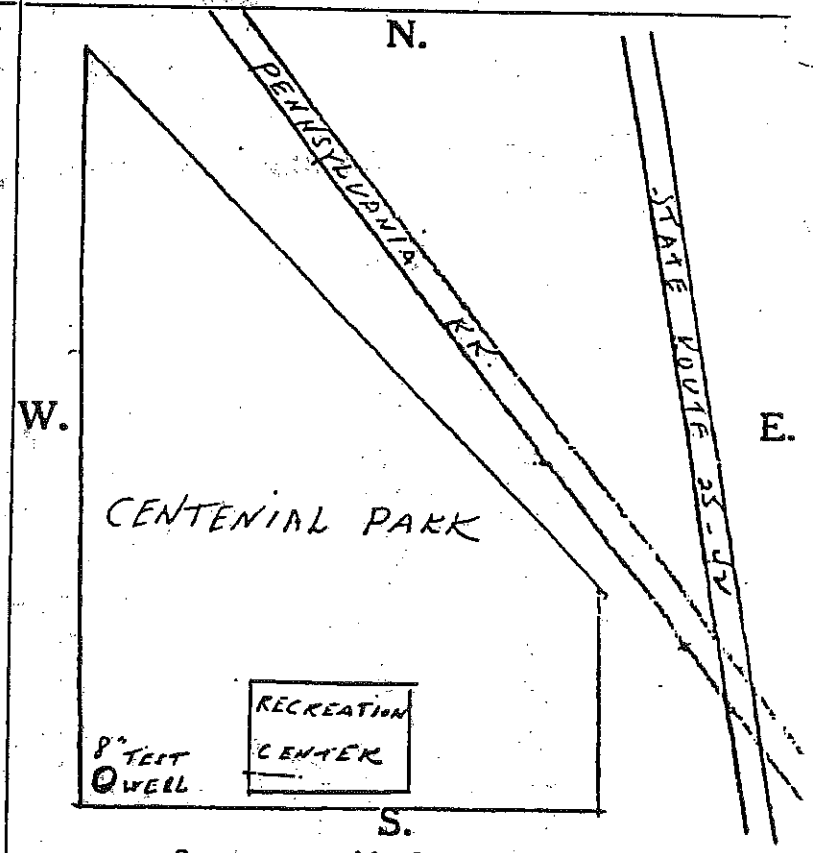
Formations andstone, shale, limestone, gravel and clay	From	To
Soil	0 Feet	9 Ft.
Yellow Sand & Gravel	9	18
e Clay with Gravel mixed	18	40
Clay & Gravel	40	45
Clay	45	57
ow Muddy Gravel ll Amt. Water)	57	64
Clay	64	75
ow Loom	75	90
Yellow Sand -Dry	90	117
Yellow Sand-Water	117	141
ow Sand & Coarse Gravel	141	143
Shale	143	145

ic Water Level 117ft.

ng Pulled - Well Abandoned.

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

lling Firm Jos. Koehne Sons Date March 16, 1959

ress 1826 Sherman Ave., Norwood 12, O. Signed Jos. B. Koehne

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

No. 250801

County HAMILTON Township Springfield Section of Township

Owner Wyoming - City of Address 500 Grove Ave. (15)

Location of property Between Grove & Oak - Sts. on Wyoming Ave.

CONSTRUCTION DETAILS

Casing diameter 6" ID Length of casing 196'

Type of screen None Length of screen NA.

~~Type of pump~~ Test Well only - pipe

~~Capacity of pump~~ Removed - No pump

~~Depth of pump setting~~ Installed

Date of completion 2/16/60

BAILING OR PUMPING TEST

Pumping rate NA G.P.M. Duration of test hr

Drawdown NA ft. Date NA

Developed capacity NA

Static level—depth to water 131' 3"

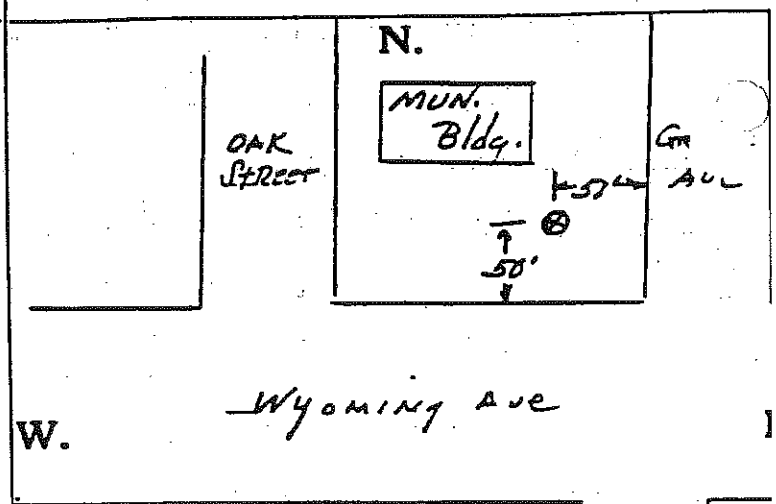
Pump installed by NA

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Top Soil	0 Feet	2 Ft.
Brown Clay - Sm. Grv.	2	14
Blue Clay - Sm. Grv.	14	42
Blue Clay - Sharp Grv.	42	45
Sharp Grv. - Coarse	45	47
" " - "	47	53
" " - Blue Clay	53	84
Grey Sand	84	85
Blue Clay - Med. Sand	85	120
Fine Sand - Coarse Grv.	120	123
Med. Brown Sand + Grv.	123	143
Med Brown Sand.	143	145
Ex. Fine Brown Sand	145	153
Med Brown Sand + Grv.	153	196
Limestone	196	

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



Test Well only
Pipe Removed.
Designated:
Wyoming # 7

See reverse side for instructions

Drilling Firm A.R. Posey Co. Inc.

Address 246 Compton Ridge Dr. Cin. 15 (Wyoming) Ohio

Date 4/19/60

Signed C. L. Bandy
Manager.

20

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

PLEASE USE PENCIL OR TYPEWRITER

DO NOT USE INK

No. 342966

unty Hamilton Township Springfield Section of Township

Owner City of Wyoming Ohio Address 800 Oak Street

Location of property Cont'd fm 342965

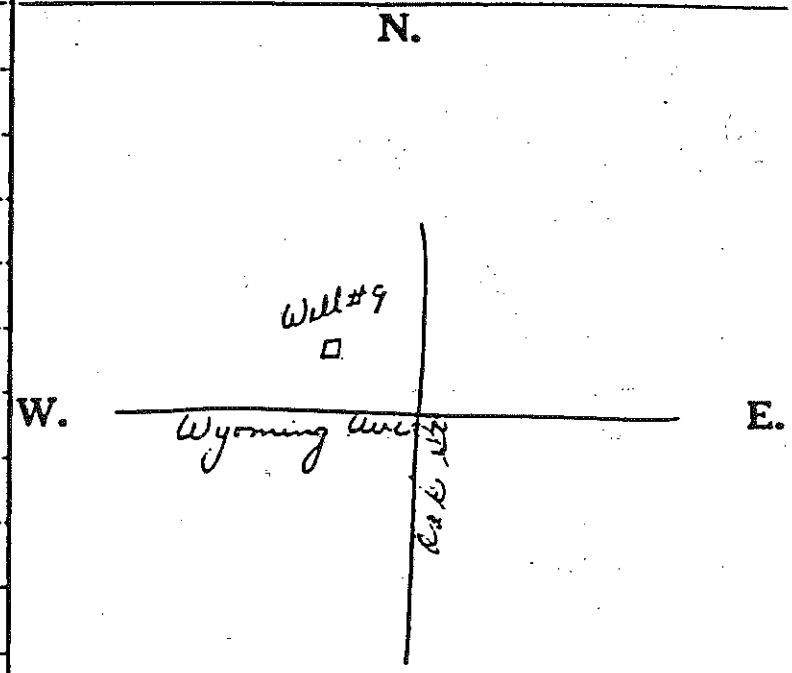
CONSTRUCTION DETAILS	BAILING OR PUMPING TEST
Casing diameter ____ Length of casing ____	Pumping Rate ____ G.P.M. Duration of test ____ hrs.
Type of screen ____ Length of screen ____	Drawdown ____ ft. Date ____
Type of pump ____	Static level-depth to water ____ ft.
Capacity of pump ____	Quality (clear, cloudy, taste, odor) ____
Depth of pump setting ____	
Date of completion ____	Pump installed by ____

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	Ft.
Coarse sand-good (tight) gravel	187	190
Coarse tight gravel	190	195
Light gravel & clay mixed	195	197

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

lling Firm MOODY'S OF DAYTON, INC. 150 North Dixie Drive Vandalia, Ohio SINCE 1891 878-4514

Address

Date 7-25-66

Signed Edward B. Wagner

*If additional space is needed to complete well log, use next consecutive numbered form.

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

No. 250803

County Hamilton Township Sycamore Section of Township

Owner American Cyanamid (Formica) Address 10155 Reading Road

Location of property West of US 25/42 Village of Evendale

CONSTRUCTION DETAILS

Casing diameter 12" ID Length of casing 127'

Type of screen Everdur-Cook Length of screen 40'

Type of pump Vert Turbine-Wat Lube

Capacity of pump 600 GPM.

Depth of pump setting 145'

Date of completion 4/5/60

BAILING OR PUMPING TEST

Pumping rate 860 G.P.M. Duration of test 8 hrs.

Drawdown 31' ft. Date 3/30/60

Developed capacity 600 GPM

Static level—depth to water 89' ft.

Pump installed by A. R. Posey Co. Inc.

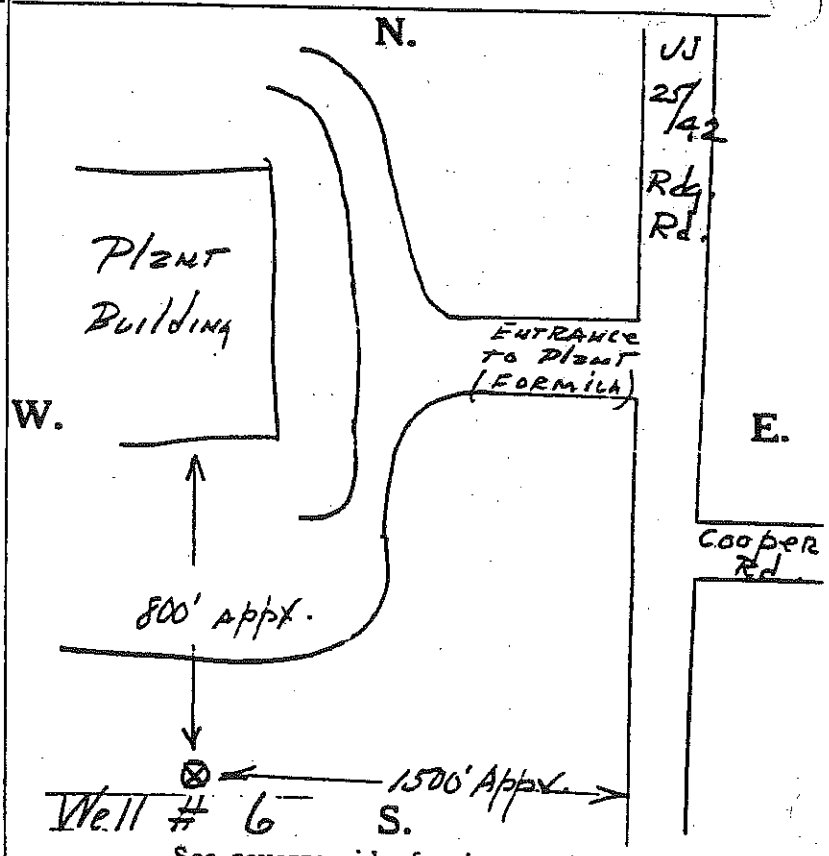
WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Top Soil + Clay	0 Feet	20.5 Ft.
Blue Clay	20.5	30.0
Med Brown Sand	30.0	33.0
Fine " "	33.0	56.0
Med " "	56.0	64.0
Coarse " " -*	64.0	70.0
Blue Clay.	70.0	96.0
Med. Grey Sand---+	96.0	102.0
" " "	102.0	126.0
" " "	126.0	141.0
" " "	141.0	155.0
" " " Dark	155.0	165.0
" " " --+	165.0	168.0
Coarse Grey Sand -+	168.0	169.0
Lime Stone	169.0	170.0

...ome sharp Gravel
...ome Clay.

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm A. R. Posey Co. Inc.

Address 246 Compton Rdg. D. Cin 15 Ohio

Date 4/9/60

Signed C. L. Bandy Mgr.

7

LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

No. 250804

County Hamilton Township Sycamore Section of Township

Owner American Cynamid (Formica) Address 10155 Reading Road

Location of property West of US 25/42 - Village of Evendale

CONSTRUCTION DETAILS

Casing diameter 12" Length of casing 141.05

Type of screen Everdur (cook) Length of screen 35'

Type of pump Vert. Turb. oil lube.

Capacity of pump 600 GPM.

Depth of pump setting 155' (top of bowls)

Date of completion (Not Fin) 4/19/60.

BAILING OR PUMPING TEST

Pumping rate 840 G.P.M. Duration of test 8 hrs.

Drawdown 30 ft. Date 4/2/60

Developed capacity 600 GPM.

Static level—depth to water 85' ft.

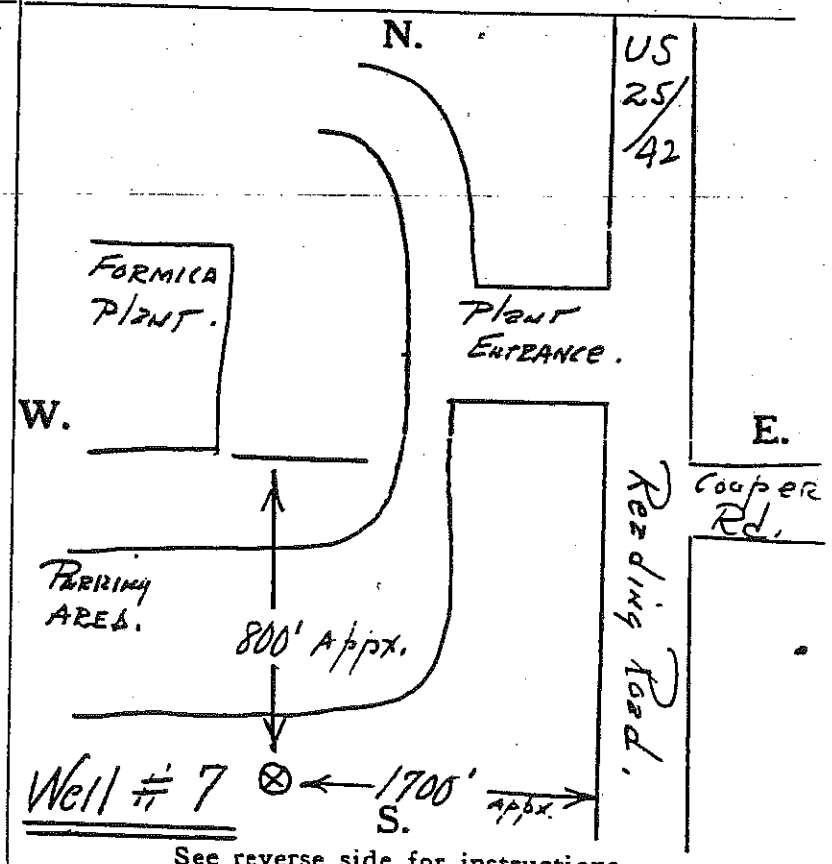
Pump installed by A.R. Posey Co.

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Top soil	0 Feet	2 Ft.
Brown Mud.	2.0	12.0
" " & Sand.	12.0	23.0
Sharp Gravel	23.0	28.0
Blue Clay	28.0	34.0
Sharp Gravel	34.0	39.0
Fine Brown Sand	39.0	64.0
Med Brown Sand +	64.0	73.0
Brown Sandy Mud.	73.0	76.0
Med. Sand & Gravel	76.0	81.0
" Grey Sand & Gr.	81.0	93.0
Coarse Sand ---- 0	93.0	98.0
Med Grey Sand	98.0	99.0
Coarse " " - +	99.0	106.0
Med Grey Sand	106.0	118.0
" " "	118.0	143.0
" " " Dark	143.0	159.0
Coarse Sand & Gr.	159.0	162.0
Med " Dark	162.0	167.0
Coarse " + Gr.	167.0	171.0
" " - "	171.0	178.0
Rock (lime stone)	178.05	
Large Rock (Boulders)		
Some Gravel		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm A.R. Posey Co.

Address 246 Compton Bldg. Dr. Cin 15 Ohio

Date 4/17/60

Signed C.L. Bandy manager.

6

PLEASE USE PENCIL
OR TYPEWRITER.
DO NOT USE INK.

PARTMENT OF NATURAL RES RCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

No. 250805

County Hamilton Township ~~Sycamore~~ Springfield Section of Township

Owner Wyoming, City of Address 600 Grove Ave, Wyoming

Location of property Oak Street North of Ash St

CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 194'

Type of screen See below Length of screen NA.

Type of pump Pipe perforated and casing

Capacity of pump left in ground w/cap

Depth of pump setting As observation Well

Date of completion 4/18/60

BAILING OR PUMPING TEST

Pumping rate — G.P.M. Duration of test — h

Drawdown — ft. Date

Developed capacity Test Well only

Static level—depth to water 130'

Pump installed by None Installed

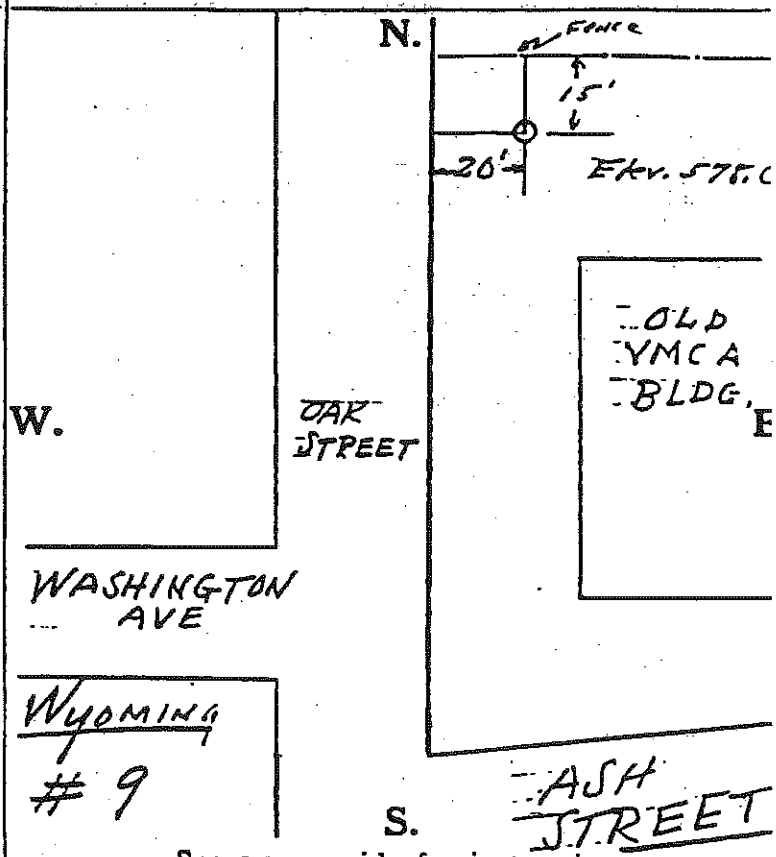
WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
top soil	0 Feet	2 Ft.
Yellow clay, large Rock.	2'	5'
" " Fine Sand	5'	16'
Blue " Gr + Sand	16'	32'
" " Small Gr + Snd.	32'	51'
" " " " "	57'	100'
" " Sharp Gr.	100'	101'
" " " " + Rock	101'	105'
Grey Sand, Coarse Gr + Rock	105'	107'
" " " "	107'	127'
" " " " "	127'	133'
Brown Sand mixed w/ Grav.	133'	138'
Med Brown Sand w/ Gr + Rock.	138'	187'
" " " " " "	187'	194'
Very coarse Gr + Rock.		
Rock Bottom.	194'	

6" pipe perforated and left in place with cap. May be used as observation well,

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm A.R. Poisey Co. Inc. Date 4/24/60

Address PO Box 215 Lockland Sta Signed C.L. Bandy

Cin 15 Ohio Manager.

18

PLEASE USE PENCIL OR TYPEWRITER

DO NOT USE INK

DE RTMENT OF NATURAL RESOU S

Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

Nº 342[illegible]

County Hamilton Township Springfield Section of Township

Owner City of Wyoming, Ohio Address 800 Oak St.

Location of property Wyoming Ave between Grove & Oakwood S.E. Corner of property

CONSTRUCTION DETAILS

Casing diameter 16" Length of casing 160'

Type of screen Pendur Length of screen 35 ft.

Type of pump

Capacity of pump

Depth of pump setting

Date of completion 7-22-66

BAILING OR PUMPING TEST

Pumping Rate 508 G.P.M. Duration of test 24 h

Drawdown 19' 1 3/4" ft. Date 7-20-66

Static level-depth to water 137' 11"

Quality (clear, cloudy, taste, odor) Clear

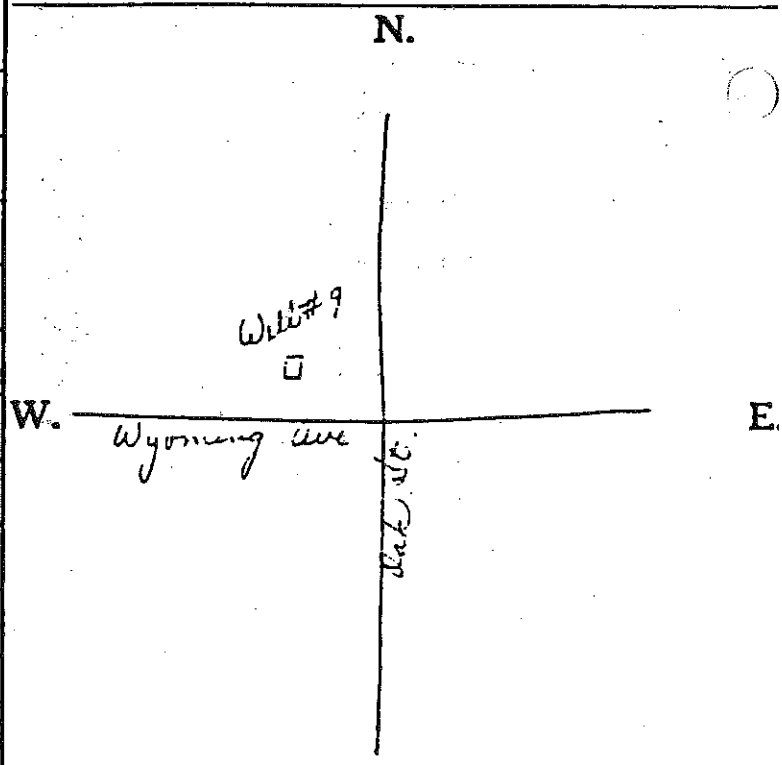
~~Pump~~ Driller installed by N. Burgess

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Top soil	0 Feet	4 Ft.
Yellow clay	4	19
Blue sandy clay till & boulders mixed	19	56
Blue clay & gravel	56	72
Blue clay - till, boulders mixed	72	106
Blue clay	106	119
Blue clay, gravel	119	120
Hard pan - gravel & clay mixed	120	131
Light gravel or hard pan	131	138
Light fine sand	138	163
Coarse sand or Medium, good	163	177
Coarse sand & small gravel	177	182
Coarse sand	182	187

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm MOODY'S OF DAYTON, INC.
150 North Dixie Drive SINCE 1891
Address Vandalia, Ohio 898-4614

Date 7-25-66

Signed Edward B Wagner

19

*If additional space is needed to complete well log, use next consecutive numbered form

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

LEASE USE PENCIL OR TYPEWRITER
DO NOT USE INK.

№ 358267

County HAMILTON Township SYCAMORE Section of Township NO 28 Township 4

Owner FORMICA CORP. Address 10155 READING Rd.

Location of property WEST SIDE OF STATE 42 1½ MI SOUTH OF BYPASS 50

CONSTRUCTION DETAILS

sing diameter 12" Length of casing 122'

pe of screen COOK 304 SS. WW Length of screen 43'

pe of pump PEERLESS SUBMERSIBLE

pacity of pump 500 GPM

pth of pump setting 160'

te of completion 1-27-75

BAILING OR PUMPING TEST

Pumping Rate 595 G.P.M. Duration of test 6 hrs.

Drawdown 17' ft. Date 1-28-75

Static level-depth to water 74' ft.

Quality (clear, cloudy, taste, odor)

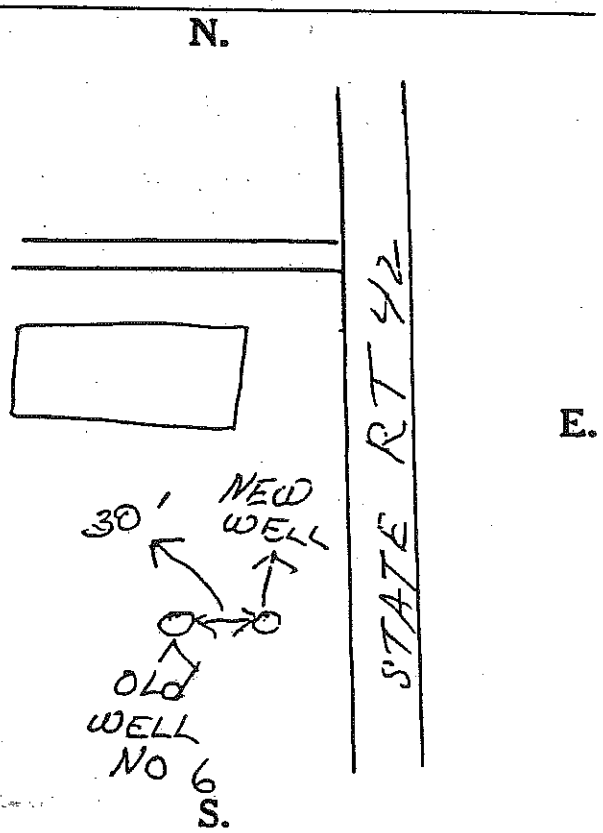
Pump installed by JOS B KOEHNE

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
TOP SOIL	0 Feet	6 Ft.
YELLOW CLAY	6'	24'
uddy GRAVEL	24'	31'
LBE CLAY & GRAVEL	31'	80'
ELLOW CLAY & GRAVEL	80'	86'
NE BROWN SAND	86'	108'
NE GREY SAND	108'	159'
NE GREY SAND		
S SOME GRAVEL	159	168'

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm JOS. B KOEHNE Date 1-31-75

Address 7028 MOORFIELD DR Signed Jos B Koehne

*If additional space is needed to complete well log, use next consecutive numbered form.

NO CARBON PAPER NECESSARY– SELF-TRANSCRIBING

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Fountain Square
Columbus, Ohio 43224

571201

COUNTY Hamilton TOWNSHIP Sycamore SECTION OF TOWNSHIP

OWNER Carrousel Inn ADDRESS 8001 Reading Road

LOCATION OF PROPERTY Cincinnati, Ohio

CONSTRUCTION DETAILS

Casing diameter 10" Length of casing 145'

Type of screen Johnson 30 slot stainless Length of screen 20'

Type of pump submersible

Capacity of pump 160 gpm

Depth of pump setting 145'

Date of completion April 1981

BAILING OR PUMPING TEST
(specify one by circling)

Test rate 228 gpm Duration of test 4 h

Drawdown 9'10" ft Date April

Static level (depth to water) 80'

Quality (clear, cloudy, taste, odor) Clear

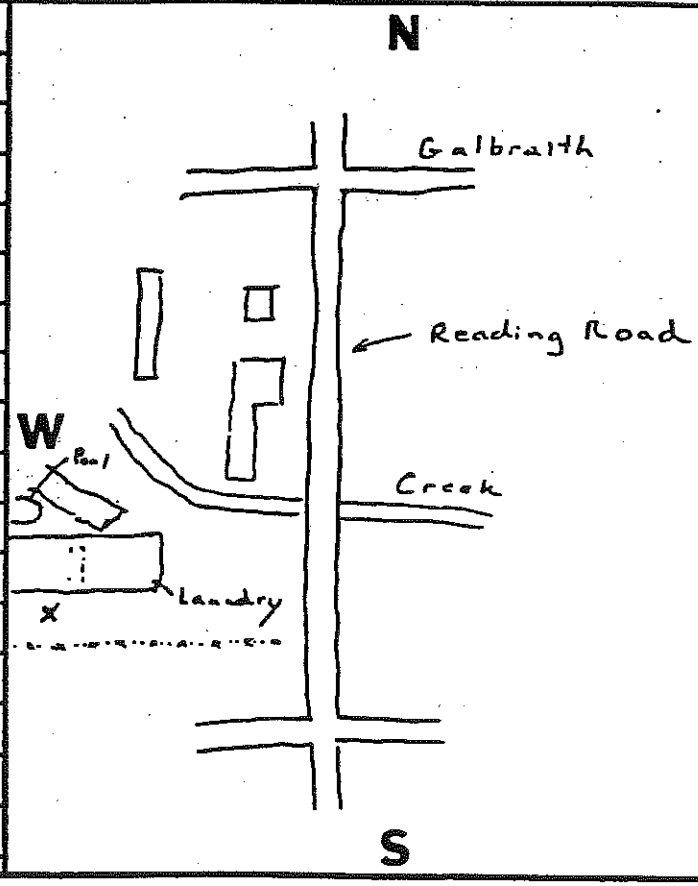
Pump installed by J. Koehne S. Back

WELL LOG*

Formations: sandstone, shale, limestone, gravel, clay	From	To
Clay	0 ft	20 ft
Clay w/ limestone boulders	20	32
Clay	32	56
Sand + Gravel	56	86
Clay	86	113
Fine to Medium Sand	113	155
Coarse Sand + Gravel	155	165
Bedrock ?	165	
Drilled with		
Reverse Circulation		
Rotary		

SKETCH SHOWING LOCATION

Locate in reference to numbered state highways, street intersections, county roads, etc.



DRILLING FIRM Reynolds Supply, Inc DATE April 14, 1981

ADDRESS 6451 Germantown Rd
Middletown, Ohio 45042

SIGNED [signature]

*If additional space is needed to complete well log, use next consecutive numbered form.

THE LAYNE OHIO COMPANY
COLUMBUS, OHIO

LOG OF TEST WELL No. 3

For International Mineral City State Ohio

Location 15'-0 south of No 1 Well -

Date Started 12-11-57 Date Finished 2-28-58

FORMATIONS

DEPTH TO TOP OF STRATUM	DEPTH TO BOTTOM OF STRATUM	THICKNESS OF STRATUM	STATIC WATER LEVEL	1-HOUR BAILING TEST		HOW FAR DID FORMATION HEAVE	FORMATION FOUND	REMARKS
				AVERAGE G. P. M.	DRAWDOWN FEET			
0	1'-0	1'					Fill	
1'-0	4'-0						Top soil	
4'-0	7'-0						clay	
7'-0	9'-0						soft clay	
9'-0	11'-0						Sand	
11'-0	13'-0						Gravel	
13'-0	33'-0						Clay	
33'-0	40'-0						Flat Rock and clay	
40'-0	48'-0						yellow sandy clay	
48'-0	50'-0						Sand gravel & flat rock	
50'-0	78'-0						dirty sand	
78'-0	125'-0		100'-0				sand	

DRILLER Reuben Sawyers

L-G T-810

(SKETCH OF LOCATION ON BACK OF THIS LOG SHEET)

(2)

THE LAYNE OHIO COMPANY

COLUMBUS, OHIO

LOG OF TEST WELL No.

For ..... City ..... State .....

Location .....

Date Started ..... Date Finished .....

FORMATIONS

DEPTH TO TOP OF STRATUM	DEPTH TO BOTTOM OF STRATUM	THICKNESS OF STRATUM	STATIC WATER LEVEL	1-HOUR BAILING TEST		HOW FAR DID FORMATION HEAVE	FORMATION FOUND	REMARKS
				AVERAGE G. P. M.	DRAWDOWN FEET			
125'-0	140'-0						Gray sand	
140'-0	142'-0						Sand and Gravel	
142'-0	143'-0						Flat Rock.	
143'-0	148'-0						Good sand + gravel	
148'-0	149'-0						Flat Rock	
149'-0	150'-0						Sand and Gravel	
150'-0	152'-0						Flat Rock	
152'-0	155'-0						Sand and gravel	
155'-0	156'-0						Flat Rock.	

DRILLER Reuben Sawyer

G T-810

(SKETCH OF LOCATION ON THIS LOG SHEET)

INTERNATIONAL MINERALS & CHEMICAL CORPORATION
Lockland, Ohio

Date	Time	G.P.M.	Pumping Level	Remarks
2-24-58	8:00 am	0	100' 0"	
	8:15	0	100' 1/2"	
	8:30	0	100' 1"	
	8:45	0	100' 1"	
	9:00	0	100' 1"	
	9:15	300	119' 0"	Started pumping test
	9:30	300	119' 2"	
	9:45	300	119' 8"	
	10:00	300	119' 9"	
	10:30	300	120' 1"	
	11:00	300	120' 4"	
	11:30	300	120' 4"	
	12:00	300	120' 5"	
	12:30 pm	300	120' 6"	
	1:00	300	120' 6"	
	1:30	300	120' 6"	
	2:00	300	120' 6"	
	2:30	300	120' 6"	
	3:00	300	120' 6"	
	3:00			Shut off pump
	3:05	0	104' 0"	
	3:10	0	101' 1"	
	3:15	0	101' 0"	
	3:30	0	100' 6"	
	3:45	0	100' 1"	
	4:00	0	100' 1"	

THE LAYNE OHIO COMPANY
1100 West Town Street
Columbus 22, Ohio
11 March 1958

THE LAYNE OHIO COMPANY

COLUMBUS, OHIO

LOG OF TEST WELL No. 3 6"

For INTERNATIONAL [illegible] City [illegible] State Ohio

Location

Date Started 11-19-57 Date Finished 11-26-57

FORMATIONS

DEPTH TO TOP OF STRATUM	DEPTH TO BOTTOM OF STRATUM	THICKNESS OF STRATUM	STATIC WATER LEVEL	1-HOUR BAILING TEST AVERAGE G. P. M.	1-HOUR BAILING TEST DRAWDOWN FEET	HOW FAR DID FORMATION HEAVE	FORMATION FOUND	REMARKS
0	6'	6'					FILL.	
6'	16'	10'					DRY GRAVEL	
16'	44'	28'					BLUE CLAY & GRAVEL	
44'	72'	28'					BROWN SANDY CLAY	
72'	104'	32'					FINE DRY SAND BROWN	
104'	159'	55'	100'				FINE GRAY SAND	WATER IN THIS.
59'	167'	8'					FINE GRAY SAND, SOME GRAVEL.	
167'	172'	5'					BLUE CLAY & GRAVEL	
ALL 6' PIPE PULLED OUT.							WE PULLED THE PIPE OUT IN FOUR HOURS.	

IT IS A VERY EASEY HOLE TO PUT IN, NO TROUBLE AT ALL DOWN TO 159'

DRILLER [illegible]

I think they want to put big well, down in the test hole. we did, we pile the [illegible] hole up just dug out [illegible] to set

-G R.1061

(SKETCH OF LOCATION ON [illegible] F THIS LOG SHEET)

Log of Well for International Chemical Co

Address

Well located at Reading Ohio

Date drilling started 19 Date test completed Oct 3 1947

FORMATION AND DEPTH OF WELL

Depth to Bottom Each Stratum	Thickness Each Stratum	Formation Found	Depth to Bottom Each Stratum	Thickness Each Stratum	Formation Found
	10	clay			
	10.13	Sand, Gravel			
	13.40	clay			
	40.59	hard pan			
	59.70	Sand red			
	70.76	Sandy clay			
	76.126	Sand Fine			
	126.140	Gray Sand			
	140.146	Sand Gravel Boulders			
	146.155	Sand Gravel clay Bottom			

Total depth to bottom of Well 156 ft. in.

Distance from top of Well to ground level 2 ft. in.

of Inner Casing is 2 ft. above ~~below~~ ground level.

Top of Outer Casing is 2 ft. above ~~below~~ ground level.

Kind of plug in bottom of Well concrete

Kind of Seal used Cubic yards of Gravel used?

Is there a Derrick left over Well? Condition of same Height ft.

Water level from top of Well when not pumping ft. in.

Capacity of Pump and Well on test 550 gpm at rpm. Water stands 56 ft. in. while pumping

Give diameter of Well from top down and depth of each size 18 2 well

Actual depth of Pump Pit ft. in. Diameter of Pit in.

Give amount of each different kind of Material used in Well 20 ft Bronze Shutter Screen 2 ft cone 137 ft 18 = casing outer casing 26 = 127 ft

Remarks:

water [illegible] 80 ft

A Ego

Driller.

~~938~~
939

LOG NO. OF WELL FOR

NOTE—Make Sketch on Back of this Sheet Showing Arrangements and Location of Material in Well.

Log of Well for International Chem Co

Address Fockland Ohio

Well located at near Water Tower

Date drilling started 8-12-1947 Date test completed 9-25-1947

FORMATION AND DEPTH OF WELL

Depth to Bottom Each Stratum	Thickness Each Stratum	Formation Found	Depth to Bottom Each Stratum	Thickness Each Stratum	Formation Found
6	6	top soil			
17	5	yellow sand			
25	14	blue clay			
50	25	muck & clay			
117	67	fine sand			
125	8	Boulder			
132	7	sharp sand			
152-6	20	fine sand			

Total depth to bottom of Well 152 ft. 6 in.

Distance from top of Well to ground level 2 ft. in.

of Inner Casing is ft. above / below ground level.

Top of Outer Casing is 2 ft. > above / below ground level.

Kind of plug in bottom of Well Cement

Kind of Seal used Lead Cubic yards of Gravel used?

Is there a Derrick left over Well? Condition of same Height ft.

Water level from top of Well when not pumping 92 ft. 6 in.

Capacity of Pump and Well on test 300 gpm at rpm. Water stands 62 ft. in. while pumping

Give diameter of Well from top down and depth of each size 12 inch well

Actual depth of Pump Pit ft. in. Diameter of Pit in.

Give amount of each different kind of Material used in Well 135-1 inch of 12 inch Pipe 20 ft Cook screen W. W. 18 - cut pipe

Remarks: Bailed in. this well is 167-6 from top of 12 inch

John Dunn

Driller.

LOG NO. 1 OF WELL FOR

NOTE—Make Sketch on Back of this Sheet Showing Arrangements and Location of Material in Well.

THE H. C. NUTTING CO.

TESTING ENGINEERS AND CHEMISTS

4120 Airport Road
CINCINNATI 28, OHIO

B-3171-FK
6/9/47

REPORT OF TESTS

Lab. No. 352

Order No. 1315.1

The Layne Ohio Company,
Columbus 8, Ohio

SUBJECT:- International Mineral & Chemical Co., Reading, Ohio.

Gentlemen:-

The following results were obtained on the sample of Water submitted to us for analysis by Mr. C. C. Rockel.

	GRAIN PER U.S. GAL.	PARTS PER MILLION
SILICA	7.05	120.5
IRON OXIDE	7.55	129
ALUMINUM OXIDE	.76	12.9
CALCIUM OXIDE	7.5	127.5
MAGNESIUM OXIDE	2.94	50.2
SULFATES AS SO_3	5.45	93
CHLORIDE AS CHLORINE	4.78	81.5
SODIUM	2.66	45.5
CARBONATES AS CO_2	5.28	90.2
ORGANIC MATTER	TRACE	TRACE
TOTAL SOLIDS	43.97	750.3

HYPOTHETICAL ANALYSIS:	GRAINS PER U.S.GAL.	PARTS PER MILLION
SILICA	7.05	120.5
IRON OXIDE	7.55	129
ALUMINUM OXIDE	0.76	12.9
CALCIUM CARBONATE	11.89	203.3
CALCIUM SULFATE	1.91	32.6
MAGNESIUM SULFATE	6.37	108.9
SODIUM CHLORIDE	6.75	115
MAGNESIUM CHLORIDE	1.75	30
TOTAL SOLIDS	44.03	752.1

pH	6.9
ODOR	CRUDE OIL
TASTE	CRUDE OIL

Iron and Aluminum oxide will settle on standing.

Respectfully submitted,
THE H. C. NUTTING COMPANY

J.B. JONES
CHEMIST.

THE LAYNE OHIO COMPANY

COLUMBUS, OHIO

LOG OF TEST WELL No. 1

FOR INTERNATIONAL CHEMICAL CITY READING STATE Ohio

LOCATION

DATE STARTED 5-9-47 DATE FINISHED 5-21-47

FORMATIONS

DEPTH TO TOP OF STRATUM	DEPTH TO BOTTOM OF STRATUM	THICKNESS OF STRATUM	STATIC WATER LEVEL	1-HOUR BAILING TEST		HOW FAR DID FORMATION HEAVE	FORMATION FOUND	REMARKS
				AVERAGE G. P. M.	DRAWDOWN FEET			
0	6'	6'	98'				YELLOW CLAY	
6'	10'	4'					DRY SAND	
10'	40'	30'					BLUE CLAY & GRAVEL	
40'	70'	30'					SANDY CLAY	
70'	90'	20'					DRY SAND	
90'	116'	26'				8'	FINE SAND HAS WATER IN IT	
116'	126'	10'					SHARP " & BOULDERS	
126'	132'	6'					COURSE SAND & GRAVEL	
132'	145'	13'				8'	SHARP SAND	
145'	153'	8'					COURSE & GRAVEL	
153'	157'	4'					BLUE CLAY & SHALE	
		157'						

DRILLER Clint Hamm

(SKETCH OF LOCATION ON BACK OF THIS LOG SHEET.)

Hamilton

Log of Well for international Minerals & chemical corp

Address Bower Road

Well located at Columbia, Dark - O

drilling started 11-8 1943 Date test completed 11-22 1943

FORMATION AND DEPTH OF WELL

Depth to Bottom Each Stratum	Thickness Each Stratum	Formation Found	Depth to Bottom Each Stratum	Thickness Each Stratum	Formation Found
0-18	18	yellow clay			
23	5	dry gravel			
28	5	sand			
33	5	dry gravel			
46	13	yellow clay			
54	8	yellow loam			
75	21	muddy gravel			
86	11	sharp sand			
126	40	sand gravel			
126		shale			

Total depth to bottom of Well 126 ft. in.

Distance from top of Well to ground level ft. 8 in.

of Inner Casing is ft. above/below ground level.

Top of Outer Casing is ft. above/below ground level.

Kind of plug in bottom of Well metal

Kind of Seal used Lead Cubic yards of Gravel used?

Is there a Derrick left over Well? Condition of same Height ft.

Water level from top of Well when not pumping 72 ft. 8 in.

Capacity of Pump and Well on test gpm at rpm. Water stands ft. in. while pumping

Give diameter of Well from top down and depth of each size 8 inch steel pipe

Actual depth of Pump Pit ft. in. Diameter of Pit in.

Give amount of each different kind of Material used in Well

Remarks: Layne screen 6 inch 21-4 over all W.W.

John Dunn

Driller.

15-96-

LOG NO. OF WELL FOR

Note—Make Sketch on Back of this Sheet Showing Arrangements and Location of Material in Well.

THE LAYNE OHIO COMPANY

COLUMBUS, OHIO

LOG OF ~~TEST~~ WELL No. 8"

FOR International Minerals & Chemical Co. CITY Columbia Park STATE Ohio

LOCATION

DATE STARTED Nov 5th 1943. DATE FINISHED

FORMATIONS

DEPTH TO TOP OF STRATUM	DEPTH TO BOTTOM OF STRATUM	THICKNESS OF STRATUM	STATIC WATER LEVEL	1-HOUR BAILING TEST		HOW FAR DID FORMATION HEAVE	FORMATION FOUND	REMARK
				AVERAGE G. P. M.	DRAWDOWN FEET			
0	15	15					Yellow Clay.	
15	42	27					Dry Sand and Gravel	
42	60	18					Yellow Clay	
60	80	20					Muddy Gravel.	
80	120	40	72 ft				Sand and Gravel.	
120	126	6					" " "	
126							Shale	

DRILLER John Dean

Log of Well for INTERNATIONAL MINERALS & CHEML CORPS

Address BROWER ROAD.

Well located at COLUMBIA PARK OHIO

(, drilling started 10-15- 1943 Date test completed 10-25- 1943

FORMATION AND DEPTH OF WELL

Depth to Bottom Each Stratum	Thickness Each Stratum	Formation Found	Depth to Bottom Each Stratum	Thickness Each Stratum	Formation Found
0	20	muddy gravel			
20	6	gravel			
38	12	sand gravel			
42	4	gravel			
54	12	sand			
82	28	gravel			
85	3	sand			
95	10	sand gravel			
114	19	sand			
120	6	sand gravel			
132	12	sand gravel			

Total depth to bottom of Well 132 ft. in.

Distance from top of Well to ground level ft. in.

(of Inner Casing is 132 ft. above below X ground level.

Top of Outer Casing is — ft. above below ground level.

Kind of plug in bottom of Well metal

Kind of Seal used Lead Cubic yards of Gravel used?

Is there a Derrick left over Well? no Condition of same Height ft.

Water level from top of Well when not pumping 81 ft. in.

Capacity of Pump and Well on test 250 gpm at rpm. Water stands 97 ft. in. while pumping

Give diameter of Well from top down and depth of each size 10 inch

Actual depth of Pump Pit ft. in. Diameter of Pit in.

Give amount of each different kind of Material used in Well 10 inch Pipe

Remarks: this is a cook screen all iron 40. CUT W-W/ .21-2. over all

John Dunn

Driller.

LOG NO. 1 OF WELL FOR

Note—Make Sketch on Back of this Sheet Showing Arrangements and Location of Material in Well.

THE LAYNE OHIO COMPANY

COLUMBUS, OHIO MISHAWAKA, IND.

LOG OF TEST WELL No. 2

FOR INTERNATIONAL MINERALS, CHEM, CORP CITY COLUMBIA STATE OHIO

LOCATION BROWER ROAD

DATE STARTED 10 — 1 — 43 DATE FINISHED 10 — 14 — 43

FORMATIONS

DEPTH TO TOP OF STRATUM	DEPTH TO BOTTOM OF STRATUM	THICKNESS OF STRATUM	STATIC WATER LEVEL	1-HOUR BAILING TEST		HOW FAR DID FORMATION HEAVE	FORMATION FOUND	REMARK
				AVERAGE G. P. M.	DRAWDOWN FEET			
0-20	20		81				muddy gravel	
26	6						dry gravel	
38	12						sand gravel	
42	4						sand sharp gravel	
54	12						gravel	
82	28						sand	
85	3					4 ft	sand + gravel	
95	10						sand sharp	
114	19						sand gravel	
120	6	37					sand gravel	
132	12						sand gravel	
132							Hard Pan	

DRILLER Ed Dunn

THE LAYNE OHIO COMPANY

COLUMBUS, OHIO — MISHAWAKA, IND.

LOG OF TEST WELL No. 1

FOR INTERNATIONAL MINERALS CHEM CORP CITY COLUMBIA PARK STATE OHIO

LOCATION BROWER ROAD

DATE STARTED 9-17-43 DATE FINISHED 9-29-43

FORMATIONS

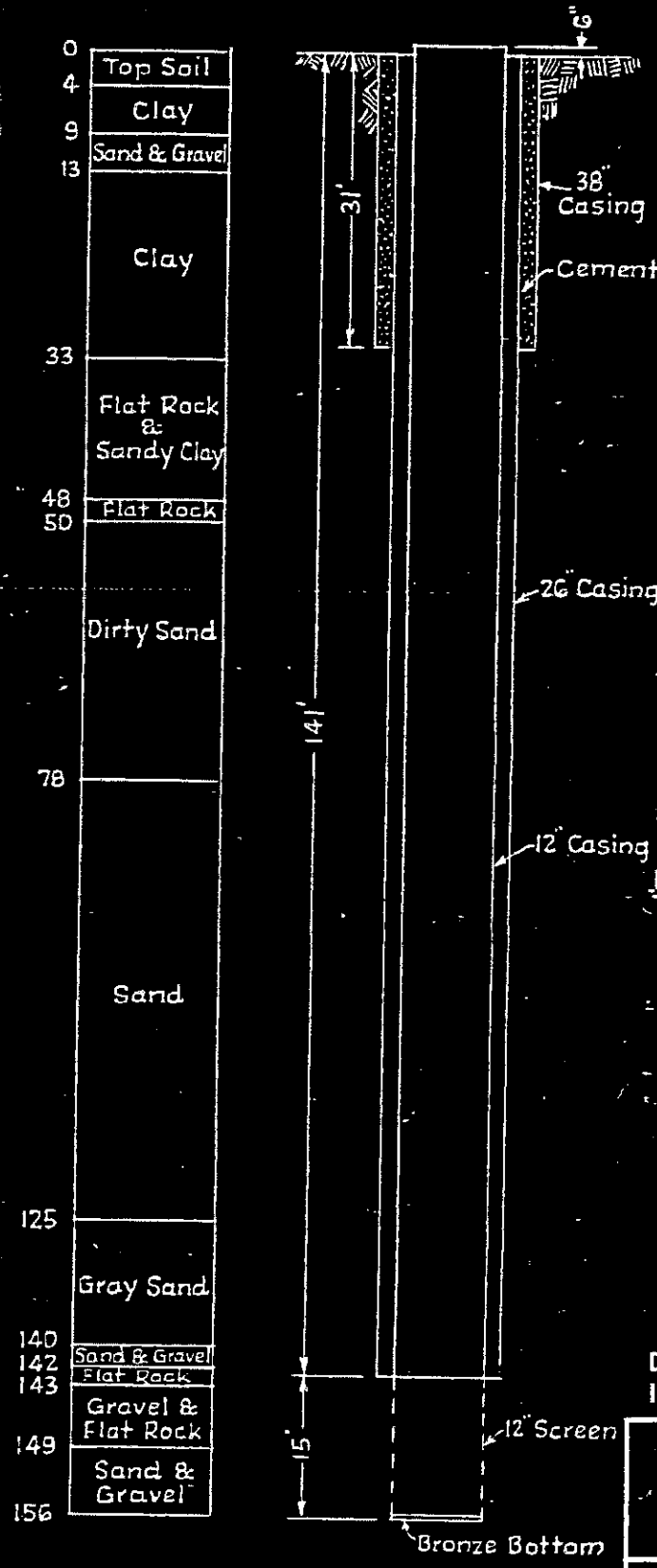
DEPTH TO TOP OF STRATUM	DEPTH TO BOTTOM OF STRATUM	THICKNESS OF STRATUM	STATIC WATER LEVEL	1-HOUR BAILING TEST		HOW FAR DID FORMATION HEAVE	FORMATION FOUND	REMARK
				AVERAGE G. P. M.	DRAWDOWN FEET			
0-46	46						yellow clay	
55	9						sharp sand gravel	
65	10						yellow loam	
80	15						muddy sand	
86	6						sand gravel	
95	9						blue clay	
106	11						shale Rock	
126	20						shale Rock	

OCT 18 1943
THE LAYNE OHIO CO.
COLUMBUS, OHIO

DRILLER John Dunn

This well was no good

(SKETCH OF LOCATION ON BACK OF THIS LOG SHEET)



MATERIAL:

Pit: 31' of 38"x3/8" Steel Casing, 141' of 26" Steel Pipe & 141'-6" of 12" Steel Pipe.

Screen: 14' of 12" Cock Screen with 1' of Bl[illegible] Pipe on Top. .030 Openings.

Cone:

PUMP:

No.	38690	Shop No.	38690
Type	P. R.H.C.	Size	8"
Setting	140'	Stages	10
Suction	6"x 2'	Impellers	
Discharge	5"	Head	
Tubing	1½"	Press. B. P.	
Shafting	1"		

MOTOR:

Make	U. S.	Type	C. F. U.
Volts	440	Cycle	60
Phase	3	Amp.	31
H. P.	25	R. P. M.	1800
Frame	364-P	Serial	2700648

WELL:

Capacity		Static Level	100'
Guarantee	None	P. Level	120'-6"
Started	12-11-57	Pressure	
Finished	2-28-58	Pumped	300 G.P.M.
Accepted	2-28-58	Depth	156'

REMARKS:

115 Tons of Pea Gravel Used.

Driller: Reuben Sawyers
Installer: Neil Morris

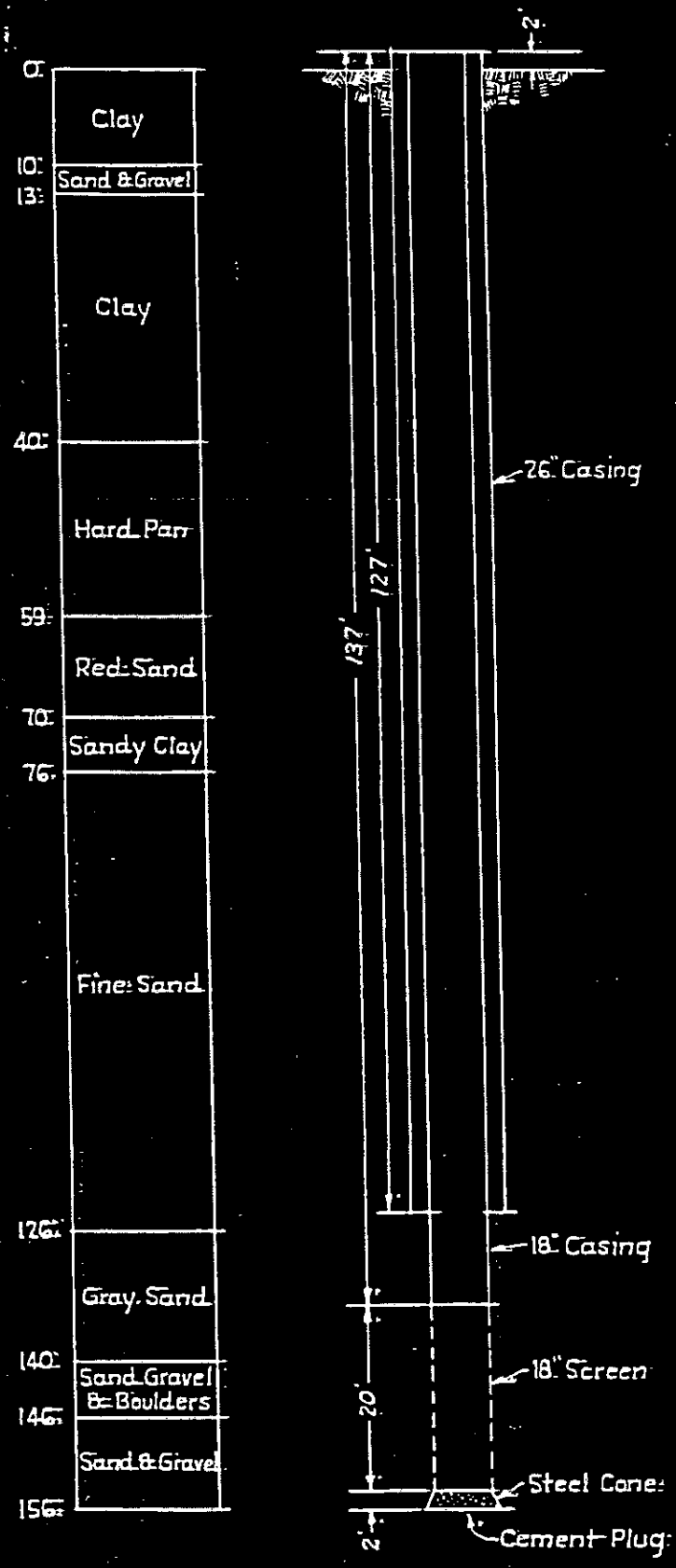
THE LAYNE-OHIO CO.,
WATER SUPPLY CONTRACTORS
COLUMBUS OHIO

INTERNATIONAL MINERALS & CHEMICAL CORP.

LOCKLAND, OHIO

DRAWN BY O. L. MS APPROVED BY
WELL NO. 3 DRAWING NO. 1350

77



MATERIAL:

Pit: 127' of 26" x 1/4" Steel Surface Casing.
137' " 18" x 1/4" " Well "

Screen: 20' of 18", #6 Ga. Bronze Shutter Screen.

Cone: 18" x 22" x 2' Steel.

PUMP:

No.	17678	Shop No.	17678
Type	RKHC	Size	10"
Setting	120'	Stages	7
Suction	10' of 6"	Impellers	Bronze
Discharge	7"	Head	TF 618
Tubing	2 1/2"	Press. B. P.	50#
Shafting	1 1/2"		

MOTOR:

Make	U.S.	Type	CFU
Volts	440	Cycle	60
Phase	3	Amp.	
H. P.	50	R. P. M.	1750
Frame	405-4	Serial	663957

WELL:

Capacity	550 GPM	Static Level	82'
Guarantee	None	P. Level	100'
Started	8-28-47	Pressure	
Finished	10-3-47	Pumped	
Accepted	10-3-47	Depth	156'

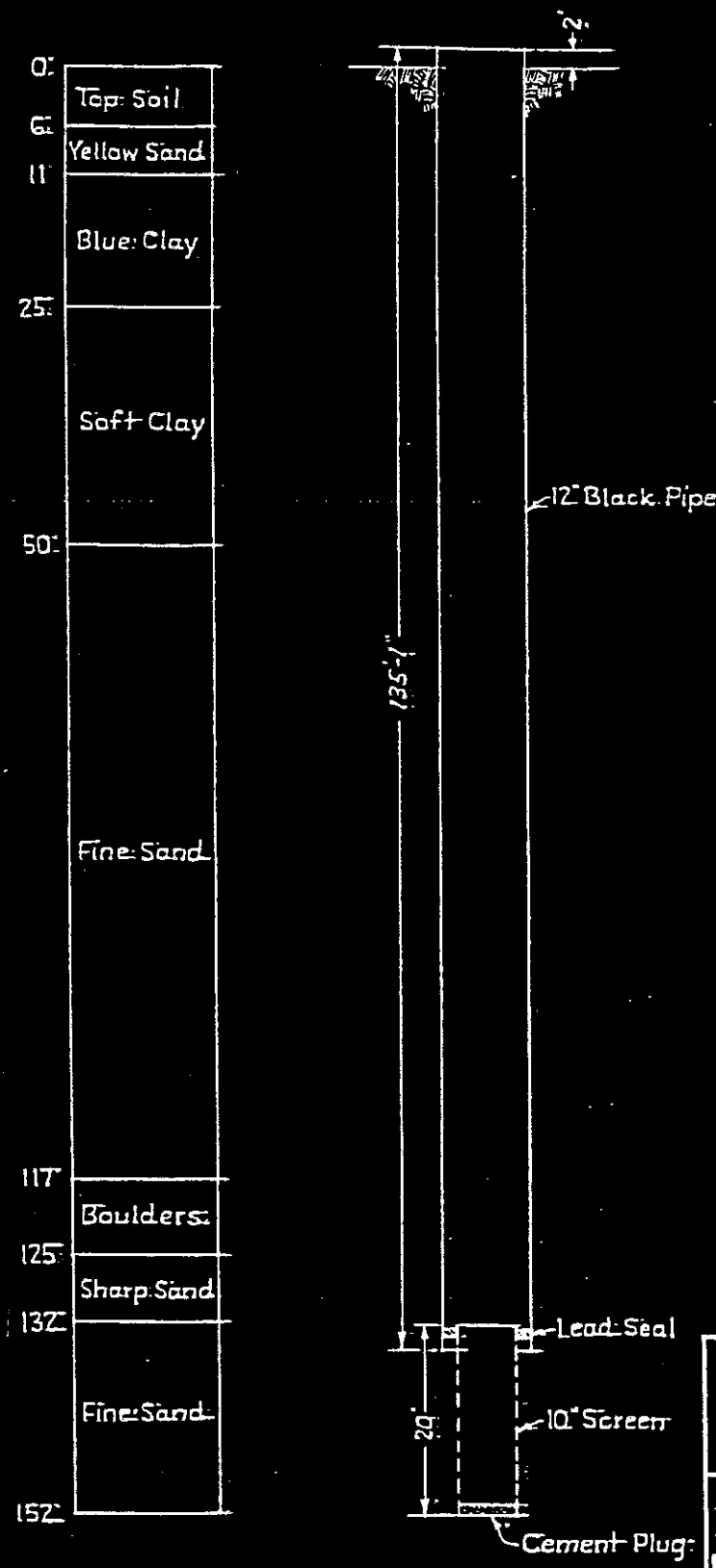
REMARKS:

Driller: Andy Ego
Installer:

THE LAYNE-OHIO CO.,
WATER SUPPLY CONTRACTORS
COLUMBUS OHIO

H. K. FERGUSON CO. INC. for
INTERNATIONAL MINL'S. & CHEM. C
READING-CINCINNATI, OHIO

DRAWN BY
APPROVED BY
WELL NO. 2
DRAWING NO. 938



MATERIAL:

Pit: 135'-1" of 12", 45# Black Steel Pipe.

Screen: 20' of 10" Cook Brass Milled Slot

Cone:

PUMP:

No.	17696	Shop No.	17696
Type	PRHC	Size	8"
Setting	140'	Stages	10
Suction	10' of 6"	Impellers	Bronze
Discharge	5"	Head	TF418
Tubing	1½"	Press. B. P.	50#
Shafting	1"		

MOTOR:

Make	U.S.	Type	C.F.U.
Volts	440	Cycle	60
Phase	3	Amp.	
H. P.	25	R. P. M.	1750
Frame	907	Serial	643378

WELL:

Capacity	300 G.P.M.	Static Level	92'
Guarantee	None	P. Level	152'
Started	8-12-47	Pressure	
Finished	9-25-47	Pumped	
Accepted	9-25-47	Depth	152'-6"

REMARKS:

250 G.P.M. Pump Installed.

Driller: John Dunn
Installer:

THE LAYNE-OHIO CO.,
WATER SUPPLY CONTRACTORS
COLUMBUS OHIO

H.K. FERGUSON CO. INC.
INTERNATIONAL MINL'S. & CHEM. C
READING-CINCINNATI, OHIO

DRAWN BY
APPROVED BY
WELL NO. 1
DRAWING NO. 939

APPENDIX C

REFERENCE MATERIALS FROM PRISTINE SUPERFUND SITE REPORTING

Outwash Deposit Boundary

Surficial Bedrock/ Alluvium Contact

(Conestoga-Rovers, 1996a)

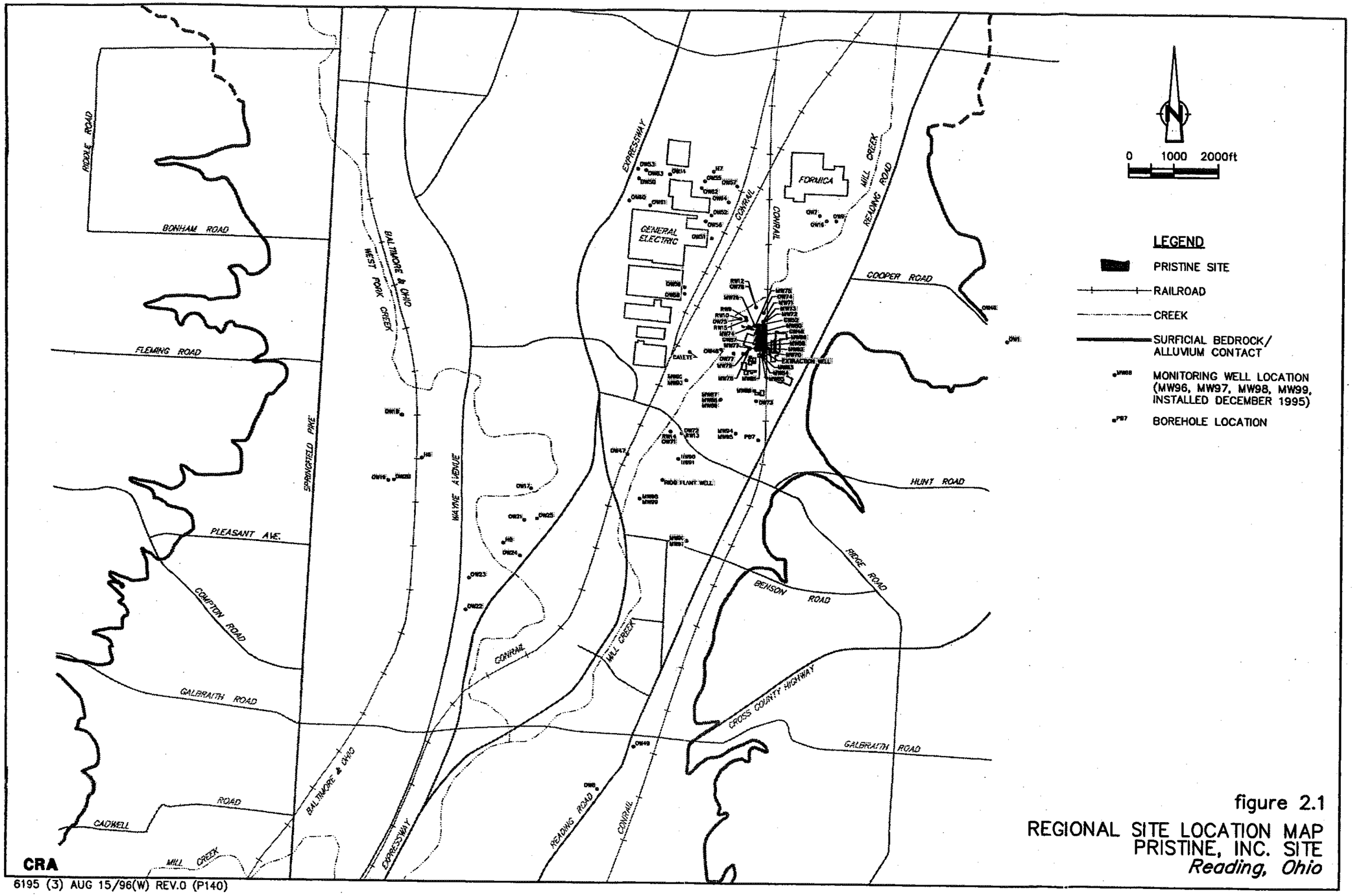
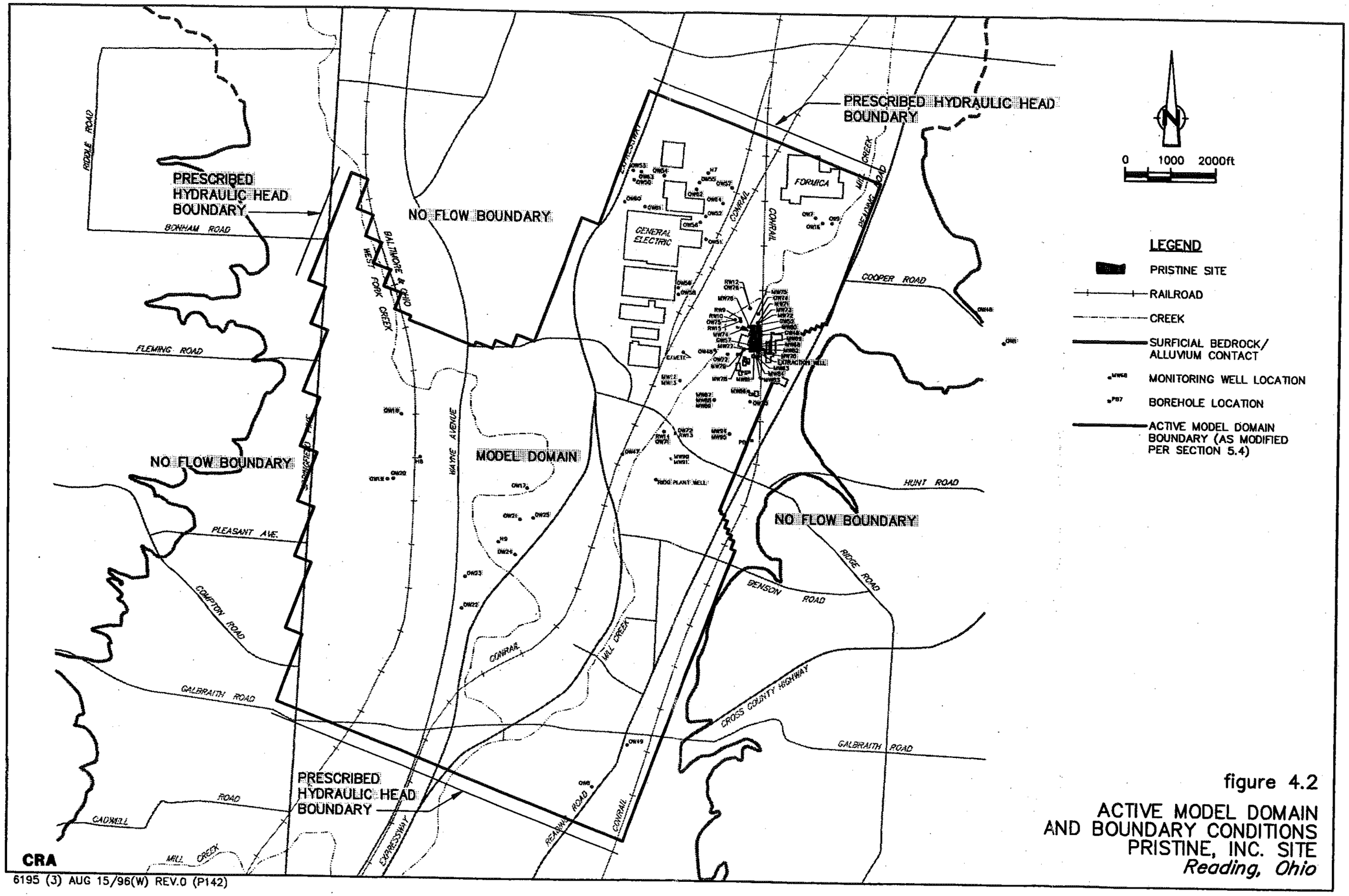


figure 2.1
REGIONAL SITE LOCATION MAP
PRISTINE, INC. SITE
Reading, Ohio

6195 (3) AUG 15/96(W) REV.0 (P140)



6195 (3) AUG 15/96(W) REV.0 (P142)

figure 4.2

ACTIVE MODEL DOMAIN AND BOUNDARY CONDITIONS PRISTINE, INC. SITE

Reading, Ohio

Potentiometric Surface Contour Maps Prior To and During Pumping by Pristine Superfund Site Groundwater Collection System

(Conestoga-Rovers, 2000a)

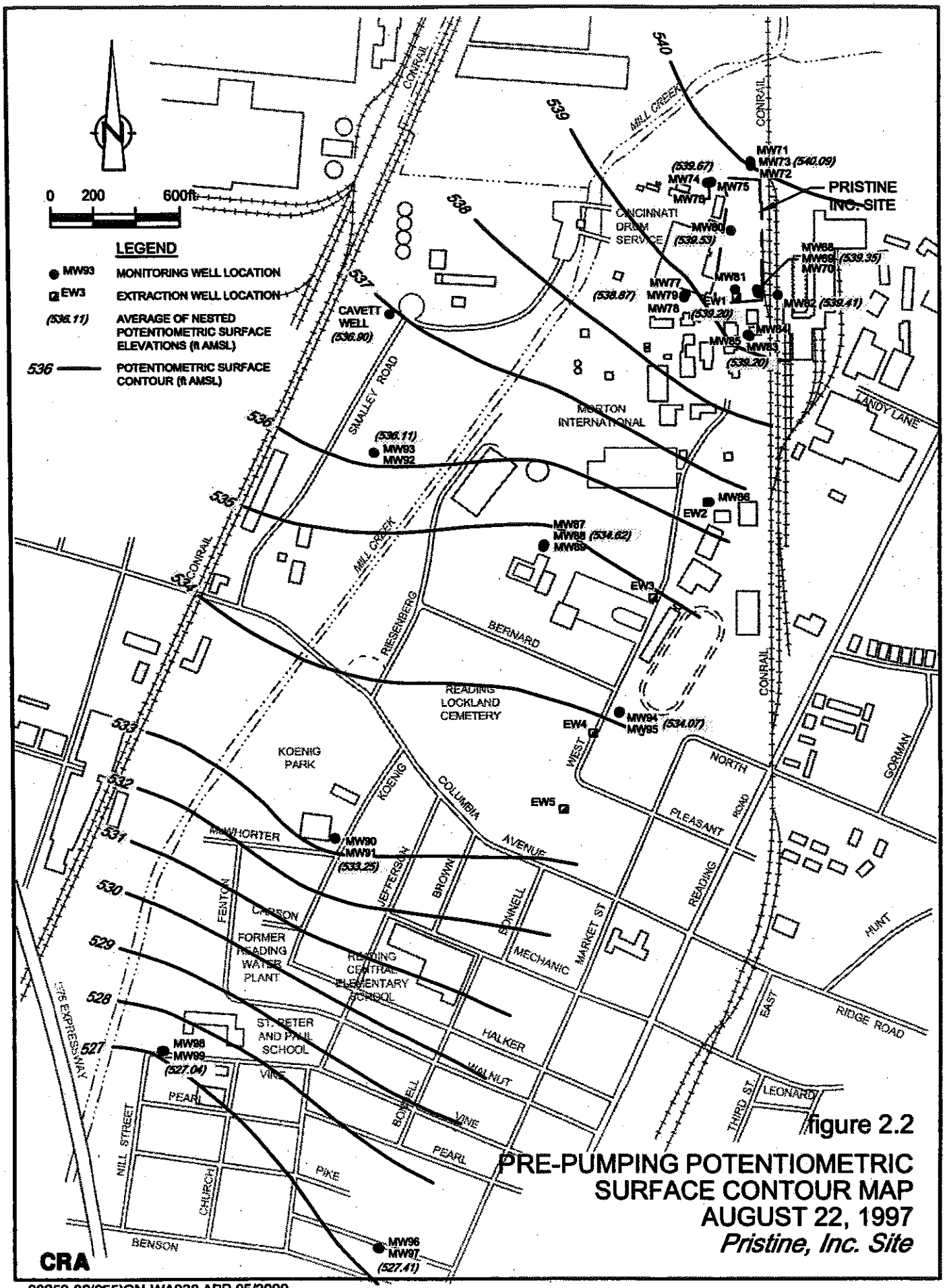


figure 2.2

PRE-PUMPING POTENTIOMETRIC SURFACE CONTOUR MAP
AUGUST 22, 1997
Pristine, Inc. Site

CRA

03250-02(055)GN-WA038 APR 05/2000

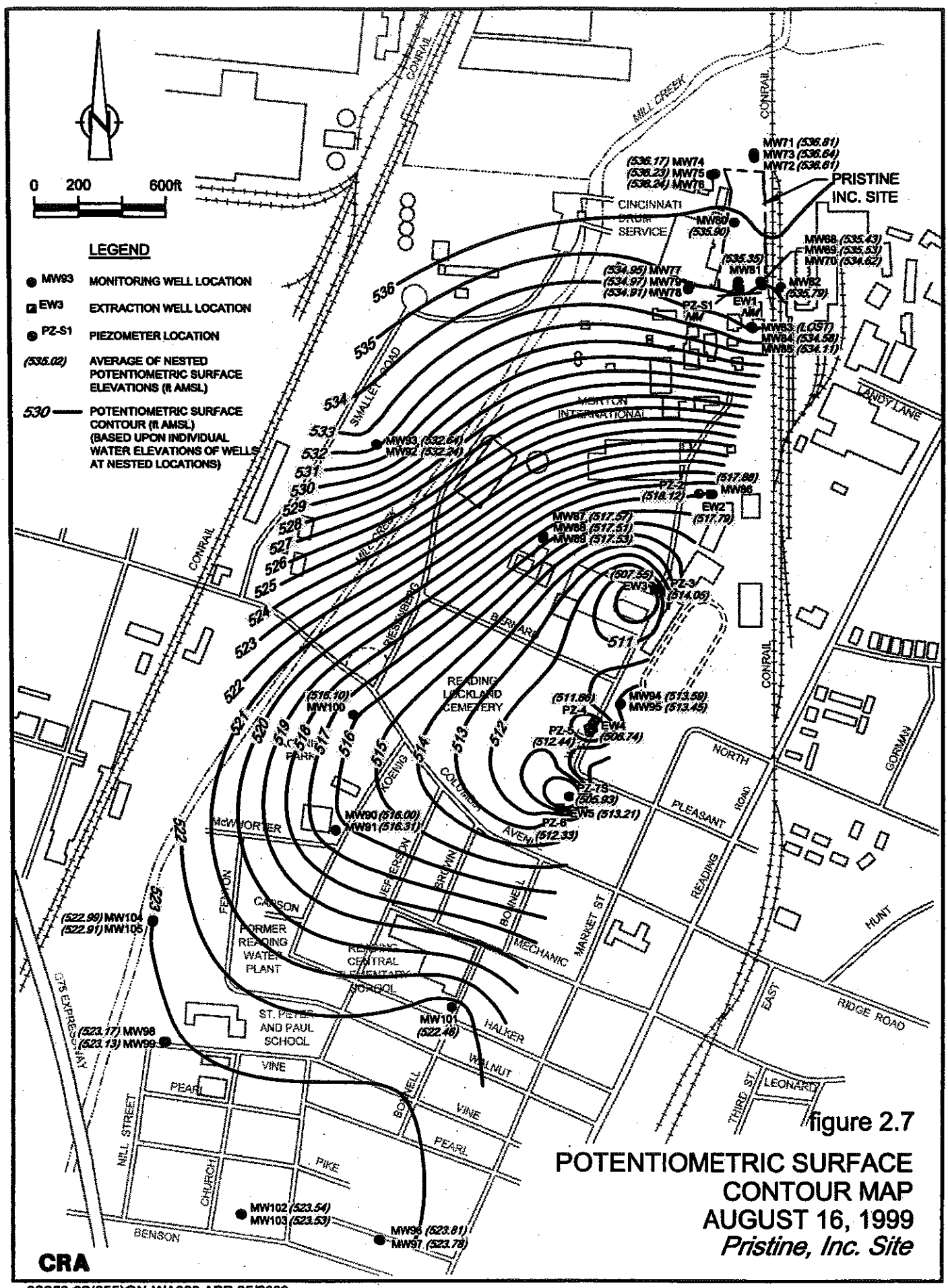


figure 2.7

POTENTIOMETRIC SURFACE CONTOUR MAP
AUGUST 16, 1999
Pristine, Inc. Site

CRA

03250-02(055)GN-WA008 APR 05/2000

Types of Waste Stored at the Pristine Superfund Site

(CDM, 1986)

TABLE 1-1

TYPES OF WASTES STORED AT
PRISTINE, INC.

Mixed paint sludges
Acid contaminated soil
Neutralized acid sludge
DDT and other pesticides
Contaminated soap, cosmetics,
  corn syrup and fatty acids
Dimethyl sulfate
Hydrazine
Flammable solvents
Cyanide wastes
Chlorinated solvent sludge
Sulfuric and nitric acid
PCB-contaminated solvents
Ink solvent
Neutralized acid
PCB-contaminated soybean oil
Sulfuric acid sludge
Chrome Wastes
Scrubber process wastes
Sodium
Adipoyl chloride
Kepone
Acetomethoxane (originally listed as dioxin)
Inorganic Peroxides
Tetrahydrofuran
Amines
Biological waste
Pharmaceutical waste
Freons
Adhesives
Mercaptans
Alcohols
Cadmium and plating waste
Phenolic plastics and resins
Phosphorous
Picric acid
Laboratory packs

Source: Remedial Action Master Plan prepared by CH_2M HILL

Analytical Data from Environmental Investigations Performed at the Pristine Superfund Site

(CDM, 1986)

TABLE 1
SUMMARY OF SOIL AREAS ANALYTICAL DATA
PRISTINE, INC.

Volatiles (ug/kg)	SA2301	SA2401	SA2501	SA2601	SA2701	SA27DP	SA2801	SA2901	SA3001
1. Chloromethane	---	---	---	---	---	---	---	---	---
2. Bromomethane	---	---	---	---	---	---	---	---	---
3. Vinyl chloride	---	---	---	---	---	---	---	---	---
4. Chloroethane	---	---	---	---	---	---	---	---	---
5. Methylene Chloride	7.6 B	25 B	14 B	14 B	11 B	9.5 B	10 B	4400 B	30 B
6. Acetone	7.7 BJ	35 B	11 BJ	5.9 BJ	7.9 BJ	9.2 BJ	7.8 BJ	7000BJ	7.1 B
7. Carbon Disulfide	---	---	---	---	---	---	---	---	---
8. 1,1-Dichloroethene	---	---	---	---	---	---	---	---	---
9. 1,1-Dichloroethane	---	---	---	---	---	---	---	---	---
10. trans-1,2-Dichloroethene	---	---	---	---	---	---	3.75	---	---
11. Chloroform	---	---	5.6 J	---	2.8 J	---	---	---	54
12. 1,2-Dichloroethane	---	---	---	---	---	---	---	---	110
13. 2-Butanone	---	---	---	---	---	---	---	9400 B	---
14. 1,1,1-Trichloroethane	---	---	---	---	---	---	4.5 J	---	3.4 J
15. Carbon Tetrachloride	---	---	---	---	---	---	---	---	---
16. Vinyl Acetate	---	---	---	---	---	---	---	---	34
17. Bromodichloromethane	---	---	---	---	---	---	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	---	---	---
19. 1,2-Dichloropropane	---	---	---	---	---	---	---	---	---
20. trans-1,3-Dichloropropene	---	---	---	---	---	---	---	---	---
21. Trichloroethene	---	---	---	---	4.1 J	---	6.8	---	---
22. Dibromochloromethane	---	---	---	---	---	---	---	---	---
23. 1,1,2-Trichloroethane	---	---	---	---	---	---	---	---	93
24. Benzene	---	---	---	---	---	---	---	---	---
25. cis-1,3-Dichloropropene	---	---	---	---	---	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	---	---	---	---	---	---	---
27. Bromoform	---	---	---	---	---	---	---	---	---
28. 2-Hexanone	---	---	---	---	---	---	---	---	---
29. 4-Methyl-2-pentanone	---	---	---	---	---	---	---	---	---
30. Tetrachloroethene	4.75	4.4 J	3.9 J	---	81	76	16	120000	38
31. Toluene	---	---	---	---	---	---	---	---	53
32. Chlorobenzene	---	---	---	---	---	---	---	---	3.6 J
33. Ethyl Benzene	---	---	---	---	---	---	---	---	---
34. Styrene	---	---	---	---	---	---	---	---	7.9
35. Total Xylenes	---	---	---	---	---	---	---	---	---

--- = COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED WITHIN DETECTION LIMITS
B = ANALYTE WAS FOUND IN THE BLANK AS WELL AS THE SAMPLE
J = INDICATES AN ESTIMATED VALUE

TABLE 1
SUMMARY OF SOIL AREAS ANALYTICAL DATA
PRISTINE, INC.

Volatiles (ug/kg)	SA3101	SA3201	SA3301	SA3302	SA3401	SA34DP	SA3402
1. Chloromethane	---	---	---	---	---	---	---
2. Bromomethane	---	---	---	---	---	---	---
3. Vinyl chloride	---	---	---	---	---	---	---
4. Chloroethane	---	---	---	---	---	---	---
5. Methylene Chloride	6.5 B	12 B	10 B	6.2 B	9.8 B	9.6 B	10 B
6. Acetone	7.0 J	9.7 J	28	---	---	19 B	22 B
7. Carbon Disulfide	---	---	---	---	---	---	---
8. 1,1-Dichloroethene	---	---	---	---	---	---	---
9. 1,1-Dichloroethane	---	---	---	---	---	---	---
10. trans-1,2-Dichloroethene	---	---	---	---	---	---	---
11. Chloroform	---	---	---	---	---	---	---
12. 1,2-Dichloroethane	---	---	---	---	---	---	---
13. 2-Butanone	---	---	---	---	---	---	---
14. 1,1,1-Trichloroethane	---	---	---	---	---	---	---
15. Carbon Tetrachloride	---	---	---	---	---	---	---
16. Vinyl Acetate	---	---	---	---	---	---	---
17. Bromodichloromethane	---	---	---	---	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	---
19. 1,2-Dichloropropane	---	---	---	---	---	---	---
20. trans-1,3-Dichloropropene	---	---	---	---	---	---	---
21. Trichloroethene	---	---	---	---	---	---	---
22. Dibromochloromethane	---	---	---	---	---	---	---
23. 1,1,2-Trichloroethane	---	---	---	---	---	---	---
24. Benzene	---	---	---	---	---	---	---
25. cis-1,3-Dichloropropene	---	---	---	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	---	---	---	---	---
27. Bromoform	---	---	---	---	---	---	---
28. 2-Hexanone	---	---	---	---	---	---	---
29. 4-Methyl-2-pentanone	---	---	---	---	---	---	---
30. Tetrachloroethene	4.5 J	---	---	---	---	---	---
31. Toluene	---	---	---	---	---	---	---
32. Chlorobenzene	---	---	---	---	---	---	---
33. Ethyl Benzene	---	---	---	---	---	---	---
34. Styrene	---	---	---	---	---	---	---
35. Total Xylenes	---	---	---	---	---	---	---

--- = COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED WITHIN DETECTION LIMITS
B = ANALYTE WAS FOUND IN THE BLANK AS WELL AS THE SAMPLE
J = INDICATES AN ESTIMATED VALUE

TABLE 1
SUMMARY OF SOIL AREAS ANALYTICAL DATA
PRISTINE, INC.

Semi-Volatiles (ug/kg)	SA2301	SA2401	SA2501	SA2601	SA2701	SA27DP	SA2801	SA2901	SA3001
36. N-Nitrosodimethylamine	---	---	---	---	---	---	---	---	---
37. Phenol	---	---	470	---	---	---	---	---	---
38. Aniline	---	---	---	---	---	---	---	---	---
39. bis(2-Chloroethyl) ether	---	---	---	---	---	---	---	---	---
40. 2-Chlorophenol	---	---	---	---	---	---	---	---	---
41. 1,3-Dichlorobenzene	---	---	---	---	---	---	---	---	---
42. 1,4-Dichlorobenzene	---	---	---	---	---	---	---	---	---
43. Benzyl Alcohol	---	---	---	---	---	---	---	---	---
44. 1,2-Dichlorobenzene	---	---	---	---	---	---	---	---	61000
45. 2-Methylphenol	---	---	---	---	---	---	---	---	---
46. bis(2-Chloroisopropyl) ether	---	---	---	---	---	---	---	---	---
47. 4-Methylphenol	---	---	---	---	---	---	---	---	---
48. n-Nitroso-Dipropylamine	---	---	---	---	---	---	---	---	---
49. Hexachloroethane	---	---	---	---	---	---	---	---	---
50. Nitrobenzene	---	---	---	---	---	---	---	---	---
51. Isophorone	---	---	---	---	---	---	---	---	---
52. 2-Nitrophenol	---	---	---	---	---	---	---	---	---
53. 2,4-Dimethylphenol	---	---	---	---	---	---	---	---	---
54. Benzoic Acid	---	---	---	---	---	---	---	---	---
55. bis(2-Chloroethoxy) methane	---	---	---	---	---	---	---	---	---
56. 2,4-Dichlorophenol	---	---	---	---	---	---	---	---	---
57. 1,2,4-Trichlorobenzene	---	---	---	---	---	---	---	---	---
58. Naphthalene	---	---	---	---	---	---	---	---	---
59. 4-Chloroaniline	---	---	---	---	---	---	---	---	---
60. Hexachlorobutadiene	---	---	---	---	---	---	---	---	---
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	---	---	---	---	---	---	---
62. 2-Methylnaphthalene	---	---	---	---	---	---	---	---	---
63. Hexachlorocyclopentadiene	---	---	---	---	---	---	---	---	---
64. 2,4,6-Trichlorophenol	---	---	---	---	---	---	---	---	---
65. 2,4,5-Trichlorophenol	---	---	---	---	---	---	---	---	---
66. 2-Chloronaphthalene	---	---	---	---	---	---	---	---	---
67. 2-Nitroaniline	---	---	---	---	---	---	---	---	---
68. Dimethyl Phthalate	---	---	---	---	---	---	---	---	---
69. Acenaphthylene	---	---	---	---	---	---	---	---	---
70. 3-Nitroaniline	---	---	---	---	---	---	---	---	---

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TABLE 1
SUMMARY OF SOIL AREAS ANALYTICAL DATA
PRISTINE, INC.

Semi-Volatiles (ug/kg)	SA3101	SA3201	SA3301	SA3302	SA3401	SA34DP	SA3402
36. N-Nitrosodiaethylamine	---	---	---	---	---	---	---
37. Phenol	---	---	---	---	---	---	---
38. Aniline	---	---	---	---	---	---	---
39. bis(2-Chloroethyl) ether	---	---	---	---	---	---	---
40. 2-Chlorophenol	---	---	---	---	---	---	---
41. 1,3-Dichlorobenzene	---	---	---	---	---	---	---
42. 1,4-Dichlorobenzene	---	---	---	---	---	---	---
43. Benzyl Alcohol	---	---	---	---	---	---	---
44. 1,2-Dichlorobenzene	---	---	---	---	---	---	---
45. 2-Methylphenol	---	---	---	---	---	---	---
46. bis(2-Chloroisopropyl) ether	---	---	---	---	---	---	---
47. 4-Methylphenol	---	---	---	---	---	---	---
48. n-Nitroso-Dipropylamine	---	---	---	---	---	---	---
49. Hexachloroethane	---	---	---	---	---	---	---
50. Nitrobenzene	---	---	---	---	---	---	---
51. Isophorone	---	---	---	---	---	---	---
52. 2-Nitrophenol	---	---	---	---	---	---	---
53. 2,4-Dimethylphenol	---	---	---	---	---	---	---
54. Benzoic Acid	---	---	---	---	---	---	---
55. bis(2-Chloroethoxy) aethane	---	---	---	---	---	---	---
56. 2,4-Dichlorophenol	---	---	---	---	---	---	---
57. 1,2,4-Trichlorobenzene	---	---	---	---	---	---	---
58. Naphthalene	---	---	---	---	---	---	---
59. 4-Chloroaniline	---	---	---	---	---	---	---
60. Hexachlorobutadiene	---	---	---	---	---	---	---
61. 4-Chloro-3-aethylphenol (para-chloro-aeta-cresol)	---	---	---	---	---	---	---
62. 2-Methylnaphthalene	---	---	220 J	---	---	---	---
63. Hexachlorocyclopentadiene	---	---	---	---	---	---	---
64. 2,4,6-Trichlorophenol	---	---	---	---	---	---	---
65. 2,4,5-Trichlorophenol	---	---	---	---	---	---	---
66. 2-Chloronaphthalene	---	---	---	---	---	---	---
67. 2-Nitroaniline	---	---	---	---	---	---	---
68. Dimethyl Phthalate	---	---	---	---	---	---	---
69. Acenaphthylene	---	---	---	---	---	---	---
70. 3-Nitroaniline	---	---	---	---	---	---	---

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TABLE 1
SUMMARY OF SOIL AREAS ANALYTICAL DATA
PRISTINE, INC.

Semi-Volatiles (ug/kg)	SA2301	SA2401	SA2501	SA2601	SA2701	SA27DP	SA2801	SA2901	SA3001
71. Acenaphthene	---	---	---	---	---	---	---	---	---
72. 2,4-Dinitrophenol	---	---	---	---	---	---	---	---	---
73. 4-Nitrophenol	---	---	---	---	---	---	---	---	---
74. Dibenzofuran	---	---	---	---	---	---	---	---	---
75. 2,4-Dinitrotoluene	---	---	---	---	---	---	---	---	---
76. 2,6-Dinitrotoluene	---	---	---	---	---	---	---	---	---
77. Diethylphthalate	---	---	---	---	---	---	---	---	---
78. 4-Chlorophenyl Phenyl ether	---	---	---	---	---	---	---	---	---
79. Fluorene	---	---	---	---	---	---	---	---	---
80. 4-Nitroaniline	---	---	---	---	---	---	---	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	---	---	---	---	---	---	---
82. N-nitrosodiphenylamine	---	---	---	---	---	---	---	---	---
83. 4-Bromophenyl Phenyl ether	---	---	---	---	---	---	---	---	---
84. Hexacholorobenzene	---	---	---	---	---	---	---	---	---
85. Pentachlorophenol	---	---	---	---	---	---	---	---	---
86. Phenanthrene	---	---	380 J	---	---	---	---	---	---
87. Anthracene	---	---	---	---	---	---	---	---	---
88. Di-n-butylphthalate	---	---	---	---	---	---	---	---	---
89. Fluoranthene	---	---	1000	330 J	---	---	---	---	---
90. Benzidine	---	---	---	---	---	---	---	---	---
91. Pyrene	---	---	870	210 J	---	---	---	---	---
92. Butyl Benzyl Phthalate	2000 J	---	1600	290	---	3500 J	---	---	---
93. 3,3'-Dichlorobenzidine	---	---	---	---	---	---	---	---	---
94. Benzo(a)anthracene	---	---	640	520	---	---	---	---	---
95. bis(2-ethylhexyl)phthalate	22000	3100	7700	6000	13000 J	11000	31000	100000	46000
96. Chrysene	---	---	700	---	---	---	---	---	---
97. Di-n-octyl Phthalate	---	---	---	520	---	---	---	---	---
98. Benzo(b)fluoranthene	---	---	1500	260 J	---	---	---	---	---
99. Benzo(k)fluoranthene	---	---	1500	260 J	---	---	---	---	---
100. Benzo(a)pyrene	---	---	640	---	---	---	---	---	---
101. Ideno(1,2,3-cd)pyrene	---	---	---	---	---	---	---	---	---
102. Dibenz(a,h)anthracene	---	---	---	---	---	---	---	---	---
103. Benzo(g,h,i)perylene	---	---	---	---	---	---	---	---	---

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TABLE I
SUMMARY OF SOIL AREAS ANALYTICAL DATA
PRISTINE, INC.

Semi-Volatiles (ug/kg)	SA3101	SA3201	SA3301	SA3302	SA3401	SA34DP	SA3402
71. Acenaphthene	---	---	---	---	---	---	---
72. 2,4-Dinitrophenol	---	---	---	---	---	---	---
73. 4-Nitrophenol	---	---	---	---	---	---	---
74. Dibenzofuran	---	---	---	---	---	---	---
75. 2,4-Dinitrotoluene	---	---	---	---	---	---	---
76. 2,6-Dinitrotoluene	---	---	---	---	---	---	---
77. Diethylphthalate	---	---	---	---	---	---	---
78. 4-Chlorophenyl Phenyl ether	---	---	---	---	---	---	---
79. Fluorene	---	---	---	---	---	---	---
80. 4-Nitroaniline	---	---	---	---	---	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	---	---	---	---	---
82. N-nitrosodiphenylamine	---	---	---	---	---	---	---
83. 4-Bromophenyl Phenyl ether	---	---	---	---	---	---	---
84. Hexacholorobenzene	---	---	---	---	---	---	---
85. Pentachlorophenol	---	---	---	---	---	---	---
86. Phenanthrene	---	---	440	---	---	---	---
87. Anthracene	---	---	---	---	---	---	---
88. Di-n-butylphthalate	---	---	---	---	---	---	---
89. Fluoranthene	---	---	650	---	---	---	---
90. Benzidine	---	---	---	---	---	---	---
91. Pyrene	---	---	570	---	---	---	---
92. Butyl Benzyl Phthalate	180 J	---	---	---	---	---	---
93. 3,3'-Dichlorobenzidine	---	---	---	---	---	---	---
94. Benzo(a)anthracene	---	---	450	---	---	---	---
95. bis(2-ethylhexyl)phthalate	2600	16000	660	440	630	510	660
96. Chrysene	---	---	580	---	---	---	---
97. Di-n-octyl Phthalate	---	---	---	---	---	---	---
98. Benzo(b)fluoranthene	---	---	1200	---	---	---	---
99. Benzo(k)fluoranthene	---	---	1200	---	---	---	---
100. Benzo(a)pyrene	---	---	520	---	---	---	---
101. Ideno(1,2,3-cd)pyrene	---	---	480	---	---	---	---
102. Dibenz(a,h)anthracene	---	---	---	---	---	---	---
103. Benzo(g,h,i)perylene	---	---	470	---	---	---	---

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TABLE 1
SUMMARY OF SOIL AREAS ANALYTICAL DATA
PRISTINE, INC.

Pesticides (ug/kg)	SA2301	SA2401	SA2501	SA2601	SA2701	SA27DP	SA2801	SA2901	SA3001
104. Alpha-BHC	---	---	---	---	---	---	---	---	---
105. beta BHC	---	---	---	---	---	---	---	---	---
106. delta-BHC	---	---	---	---	---	---	---	---	---
107. gamma-BHC (Lindane)	---	---	---	84	---	---	---	---	---
108. Heptachlor	72 J	---	---	46	---	---	---	---	---
109. Aldrin	110	---	210	260	590	890	97 J	---	170 J
110. Heptachlor Epoxide	---	---	---	---	---	---	---	---	---
111. Endosulfan I	---	---	---	---	---	---	---	---	---
112. Dieldrin	560	---	210	150	300	760	---	---	1500
113. 4,4'-DDE	410	---	300	210	1600	3000	370	---	---
114. Endrin	---	---	---	---	---	---	---	---	---
115. Endosulfan II	---	---	---	---	---	---	---	---	---
116. 4,4'-DDD	1600	1600	380	430	680	1600	---	---	---
117. Endrin Aldehyde	---	---	---	---	---	---	---	---	---
118. Endosulfan Sulfate	---	---	---	---	---	---	---	---	---
119. 4,4'-DDT	10000	7800	2300	4600	2800	8300	620	---	---
120. Endrin Ketone	---	---	---	---	---	---	---	---	---
121. Methoxychlor	---	---	---	---	---	---	---	---	---
122. Chlordane	830 J	730	210 J	440	---	---	---	---	---
123. Toxaphene	---	---	---	---	---	---	---	---	---
124. AROCLOR-1016	---	---	---	---	---	---	---	---	---
125. AROCLOR-1221	---	---	---	---	---	---	---	---	---
126. AROCLOR-1232	---	---	---	---	---	---	---	---	---
127. AROCLOR-1242	---	---	---	---	---	---	---	---	---
128. AROCLOR-1248	---	---	---	---	---	4200	---	55000	---
129. AROCLOR-1254	---	---	---	---	---	---	---	---	---
130. AROCLOR-1260	---	---	---	---	---	---	---	---	---

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SUMMARY OF SOIL AREAS ANALYTICAL DATA
PRISTINE, INC.

Pesticides (ug/kg)	SA3101	SA3201	SA3301	SA3302	SA3401	SA34DP	SA3402
104. Alpha-BHC	---	---	---	---	---	---	---
105. beta BHC	---	---	---	---	---	---	---
106. delta-BHC	---	---	---	---	---	---	---
107. gamma-BHC (Lindane)	---	---	---	---	---	---	---
108. Heptachlor	---	---	---	---	---	---	---
109. Aldrin	92	3800	---	---	---	---	---
110. Heptachlor Epoxide	---	---	---	---	---	---	---
111. Endosulfan I	---	---	---	---	---	---	---
112. Dieldrin	140	1500	---	---	6.0	11	460
113. 4,4'-DDE	120	---	---	---	---	---	---
114. Endrin	---	---	---	---	---	---	---
115. Endosulfan II	---	---	---	---	---	---	---
116. 4,4'-DDD	---	---	400	---	---	---	---
117. Endrin Aldehyde	---	---	---	---	---	---	---
118. Endosulfan Sulfate	---	---	---	---	---	---	---
119. 4,4'-DDT	160	---	3900	30	19	38	---
120. Endrin Ketone	---	---	---	---	---	---	---
121. Methoxychlor	---	---	---	---	---	---	---
122. Chlordane	---	---	---	---	---	---	---
123. Toxaphene	---	---	---	---	---	---	---
124. AROCLOR-1016	---	---	---	---	---	---	---
125. AROCLOR-1221	---	---	---	---	---	---	---
126. AROCLOR-1232	---	---	---	---	---	---	---
127. AROCLOR-1242	---	---	---	---	---	---	---
128. AROCLOR-1248	---	---	---	---	---	---	---
129. AROCLOR-1254	---	---	---	---	---	---	---
130. AROCLOR-1260	---	---	---	---	---	---	---

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TABLE 1
SUMMARY OF SOIL AREAS ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	SA2301	SA2401	SA2501	SA2601	SA2701	SA27DP	SA2801	SA2901	SA3001	
1. Aluminum	11900	9790	10400	4900	9860	7150	2900	3120	8320	6227/71000
2. Antimony	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	—
3. Arsenic	8.8	7.6	27	8.9	35	29	16	8	10	13
4. Barium	125	80(X)	108(X)	160	293	507	248	236	140	253
5. Beryllium	0.86(X)	0.74(X)	0.65(X)	0.31(X)	0.72(X)	0.59(X)	---	0.28(X)	0.59(X)	1
6. Cadmium (IC)	4.9	3.2	3.3	3.3	9.3	13	4.6	26	11	3.1
7. Calcium	13900	48600	48400	19800	41500	57700	104000	87600	28400	45,000
8. Chromium	90*	27*	86*	45*	239*	439*	124*	166*	117*	100/16
9. Cobalt	13(X)	10(X)	9.2(X)	5.2(X)	14(X)	12(X)	4.6(X)	8.2(X)	8.3(X)	8
10. Copper	44	34	85	46	73	87	51	118	96	30/79
11. Iron	30800	22200	32100	17800	32100	25900	17500	38400	24200	10,200
12. Lead (IC)	229*	64*	139*	211*	772*	1260*	677*	597*	790*	10/32
13. Magnesium	6760	11700	5280	2350	7740	14100	3800	15800	4670	7300
14. Manganese	405(*R)	486(*R)	286(*R)	213(*R)	518(*R)	473(*R)	105(*R)	337(*R)	434(*R)	600/470
15. Mercury	1.1*	0.44*	0.87*	0.63*	8*	4.9*	3.3*	1.2*	0.53*	0.12
16. Nickel	35	24	28	12(X)	29	24	10(X)	39	19(X)	100/13
17. Potassium	1550(X)	1510(X)	1770(X)	1230(X)	1380(X)	1070(X)	850(X)	692(X)	1070(X)	956

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* = DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
(IC) = INDICATOR COMPOUND

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SUMMARY OF SOIL AREAS ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	SA3101	SA3201	SA3301	SA3302	SA3401	SA340P	SA3402
1. Aluminum	8630	8980	9440	6290	4380	5830	8470
2. Antimony	(R)	(R)	(R)	(R)	(R)	(R)	(R)
3. Arsenic	8.6	7.8	11	10	13	19	7.1
4. Barium	131	115(X)	74(X)	58(X)	333	295	131
5. Beryllium	0.73(X)	0.76(X)	0.67(X)	0.52(X)	1.2(X)	1.2(X)	0.7(X)
6. Cadmium (IC)	4.7	4.4	---	2.4(X)	3.1(X)	---	---
7. Calcium	33400	45300	25100	86500	42300	36000	56100
8. Chromium	35*	639*	33*	13*	16*	15*	18*
9. Cobalt	11(X)	9.3(X)	8.7(X)	12(X)	7(X)	6.7(X)	10(X)
10. Copper	170	47	39	32	85	90	41
11. Iron	24100	22300	26600	26900	12000	10300	19100
12. Lead (IC)	153*	2560*	83*	23*	32*	39*	24*
13. Magnesium	9930	15400	5800	13200	7420	6940	7710
14. Manganese	362(*R)	577(*R)	390(*R)	479(*R)	293(*R)	278(*R)	836(*R)
15. Mercury	0.51*	0.69*	0.25*	---	---	---	0.12*,X
16. Nickel	21(X)	20(X)	19(X)	27	12(X)	12(X)	17(X)
17. Potassium	950(X)	1240(X)	1680(X)	1850(X)	833(X)	817(X)	1220(X)

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(IC) = INDICATOR COMPOUND

TABLE 1
SUMMARY OF SOIL AREAS ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	SA2301	SA2401	SA2501	SA2601	SA2701	SA27DP	SA2801	SA2901	SA3001
18. Selenium	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
19. Silver	2.7(X)	2.1(X)	3.9(X)	---	17	17	4.7(X)	12	3.2(X)
20. Sodium	1320(X)	1310(X)	1200(X)	972(X)	1160(X)	966(X)	1130(X)	1650(X)	949(X)
21. Thallium	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
22. Tin	---	---	---	11(X)	---	20(X)	23(X)	45	33
23. Vanadium	61	40	47	67	40	19(X)	38	26(X)	24(X)
24. Zinc	812(R)	118(R)	177(R)	118(R)	427(R)	645(R)	165(R)	384(R)	208(R)
25. Cyanide	2.2	---	2.7	1.2	6.7	10	11	5.1	7
26. Fluoride (IC)	202	417	470	250	244	301	288	344	404

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TABLE 1
SUMMARY OF SOIL AREAS ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	SA3101	SA3201	SA3301	SA3302	SA3401	SA340P	SA3402	
18. Selenium	(R)	(R)	(R)	(R)	(R)	(R)	(R)	—
19. Silver	2.2(X)	1.9(X)	2.7(X)	2.4	---	---	---	—
20. Sodium	494X	516(X)	688(X)	1860(X)	1250(X)	981(X)	1280(X)	1170
21. Thallium	(R)	(R)	(R)	(R)	(R)	(R)	(R)	—
22. Tin	---	14(X)	---	---	---	---	---	—
23. Vanadium	38	24(X)	20(X)	18(X)	22(X)	46	30	33
24. Zinc	182(R)	210(R)	123(R)	82(R)	58(R)	61(R)	82(R)	67
25. Cyanide	10	1.6	---	---	---	---	---	—
26. Fluoride (IC)	298	256	352	352	216	350	247	

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* = DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
(IC) = INDICATOR COMPOUND

TABLE 2
SUMMARY OF SOIL TRENCH ANALYTICAL DATA
PRISTINE, INC.

Volatiles (ug/kg)	ST4101	ST41DP	ST4201	ST4301	ST4401	ST44MS
1. Chloromethane	---	---	---	---	---	---
2. Bromomethane	---	---	---	---	---	---
3. Vinyl chloride	---	---	---	---	---	---
4. Chloroethane	---	---	---	---	---	---
5. Methylene Chloride	590 B	8900 B	3900 B	37B	300 B	93 B
6. Acetone	3600 B,J	14000 B	14000 B	3200 B,J	2200 B,J	2300 B,J
7. Carbon Disulfide	---	---	---	3 J	---	---
8. 1,1-Dichloroethene	---	---	---	---	---	---
9. 1,1-Dichloroethane	---	---	---	---	---	---
10. trans-1,2-Dichloroethene	---	---	---	---	---	---
11. Chloroform	60	1600 B	740 B	5 J	90	43
12. 1,2-Dichloroethane	300	3500	1700	---	1500 J	900 J
13. 2-Butanone	---	26000 B	20000 B	71 BJ	79 BJ	78 BJ
14. 1,1,1-Trichloroethane	---	---	---	---	140	
15. Carbon Tetrachloride	---	---	---	---	---	---
16. Vinyl Acetate	R	---	---	---	---	---
17. Bromodichloromethane	R	R	---	---	R	R
18. 1,1,2,2-Tetrachloroethane	---	---	---	---	---	---
19. 1,2-Dichloropropane	---	---	---	---	---	---
20. trans-1,3-Dichloropropene	---	---	---	---	---	---
21. Trichloroethene	---	---	---	---	---	---
22. Dibromochloromethane	---	---	---	---	---	---
23. 1,1,2-Trichloroethane	33	---	350	3 J	46	41
24. Benzene	47	1200	390	---	19	11
25. cis-1,3-Dichloropropene	---	---	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	---	---	---	---
27. Bromoform	---	---	---	---	---	---
28. 2-Hexanone	---	---	---	---	---	---
29. 4-Methyl-2-pentanone	89 J	---	---	---	---	---
30. Tetrachloroethene	---	---	---	---	---	---
31. Toluene	360	7400	6500	27	480	400
32. Chlorobenzene	8.4	---	290	---	11	11
33. Ethyl Benzene	6.0	---	260	5.7	---	---
34. Styrene	---	---	---	---	---	---
35. Total Xylenes	23	---	770	23	17	20

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TABLE 2
SUMMARY OF SOIL TRENCH ANALYTICAL DATA
PRISTINE, INC.

Semi-Volatiles (ug/kg)	ST4101	ST41DP	ST4201	ST4301	ST4401	ST44MS
36. N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA
37. Phenol	6200	5600	1400	1200	410	870
38. Aniline	---	---	---	---	---	---
39. bis(2-Chloroethyl) ether	---	---	---	---	---	---
40. 2-Chlorophenol	---	---	---	---	---	---
41. 1,3-Dichlorobenzene	---	---	---	---	---	---
42. 1,4-Dichlorobenzene	---	---	210 J	50 J	---	---
43. Benzyl Alcohol	---	---	---	---	---	---
44. 1,2-Dichlorobenzene	150 J	290 J	13000	2700	50 J	100 J
45. 2-Methylphenol	---	---	---	---	---	---
46. bis(2-Chloroisopropyl) ether	---	---	---	---	---	---
47. 4-Methylphenol	230 J	230 J	---	---	---	---
48. n-Nitroso-Dipropylamine	---	---	---	---	---	---
49. Hexachloroethane	---	---	---	---	---	---
50. Nitrobenzene						
51. Isophorone	---	---	---	---	---	---
52. 2-Nitrophenol	---	---	---	---	---	---
53. 2,4-Dimethylphenol	---	---	---	---	---	---
54. Benzoic Acid	1300 J	740 J	---	---	---	---
55. bis(2-Chloroethoxy) methane	---	---	---	---	---	---
56. 2,4-Dichlorophenol	---	---	---	---	---	---
57. 1,2,4-Trichlorobenzene	---	---	---	---	---	---
58. Naphthalene	---	80 J	---	---	---	---
59. 4-Chloroaniline	---	---	---	---	---	---
60. Hexachlorobutadiene	---	---	---	---	---	---
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	---	---	---	---
62. 2-Methylnaphthalene	---	---	---	---	---	---
63. Hexachlorocyclopentadiene	---	---	---	---	---	---
64. 2,4,6-Trichlorophenol	---	---	---	---	---	---
65. 2,4,5-Trichlorophenol	---	---	---	---	---	---
66. 2-Chloronaphthalene	---	---	---	---	---	---
67. 2-Nitroaniline	---	---	---	---	---	---
68. Dimethyl Phthalate	---	---	---	---	---	---
69. Acenaphthylene	---	---	---	---	---	---
70. 3-Nitroaniline	---	---	---	---	---	---

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SUMMARY OF SOIL TRENCH ANALYTICAL DATA
PRISTINE, INC.

Semi-Volatiles (ug/kg)	ST4101	ST41DP	ST4201	ST4301	ST4401	ST44MS
71. Acenaphthene	---	---	---	---	---	---
72. 2,4-Dinitrophenol	---	---	---	---	---	---
73. 4-Nitrophenol	---	---	---	---	---	---
74. Dibenzofuran	---	---	---	---	---	---
75. 2,4-Dinitrotoluene	---	---	---	---	---	---
76. 2,6-Dinitrotoluene	---	---	---	---	---	---
77. Diethylphthalate	---	---	---	---	---	---
78. 4-Chlorophenyl Phenyl	---	---	---	---	---	---
ether	---	---	---	---	---	---
79. Fluorene	---	---	---	---	---	---
80. 4-Nitroaniline	---	---	---	---	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	---	---	---	---
82. N-nitrosodiphenylamine	---	---	---	---	---	---
83. 4-Bromophenyl Phenyl ether	---	---	---	---	---	---
84. Hexacholorobenzene	---	---	---	---	---	---
85. Pentachlorophenol	---	---	---	---	---	---
86. Phenanthrene	100 J	34 J	---	---	---	---
87. Anthracene	---	---	---	---	---	---
88. Di-n-butylphthalate	---	110 J	90 J	60 J	---	---
89. Fluoranthene	130 J	240 J	---	---	---	---
90. Benzidine	NA	NA	NA	NA	NA	---
91. Pyrene	120 J	179 J	---	---	---	---
92. Butyl Benzyl Phthalate	150 JB	220 JB	200 JB	300 JB	90 JB	170 JB
93. 3,3'-Dichlorobenzidine	NA	NA	NA	NA	NA	NA
94. Benzo(a)anthracene	77 J	150 J	---	---	---	---
95. bis(2-ethylhexyl)phthalate	190 J	110 J	240 J	70 J	20 J	40 J
96. Chrysene	120 J	220 J	---	---	---	---
97. Di-n-octyl Phthalate	---	---	---	---	---	---
98. Benzo(b)fluoranthene	340 J	250 J	---	---	---	---
99. Benzo(k)fluoranthene	340 J	250 J	---	---	---	---
100. Benzo(a)pyrene	120 J	200 J	---	---	---	---
101. Ideno(1,2,3-cd)pyrene	---	110 J	---	---	---	---
102. Dibenz(a,h)anthracene	---	---	---	---	---	---
103. Benzo(g,h,i)perylene	85 J	130 J	---	---	---	---

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SUMMARY OF SOIL TRENCH ANALYTICAL DATA
PRISTINE, INC.

Pesticides (ug/kg)	ST4101	ST41DP	ST4201	ST4301	ST4401	ST44MS
104. Alpha-BHC	---	---	---	---	---	---
105. beta BHC	---	---	---	---	---	---
106. delta-BHC	---	---	---	---	---	---
107. gamma-BHC (Lindane)	---	---	---	---	---	---
108. Heptachlor	---	---	---	---	---	---
109. Aldrin	---	---	---	---	---	---
110. Heptachlor Epoxide	---	---	---	---	---	---
111. Endosulfan I	---	---	---	---	---	---
112. Dieldrin	---	---	---	---	---	---
113. 4,4'-DDE	---	---	---	---	---	---
114. Endrin	---	---	---	---	---	---
115. Endosulfan II	---	---	---	---	---	---
116. 4,4'-DDD	---	---	---	---	---	---
117. Endrin Aldehyde	---	---	---	---	---	---
118. Endosulfan Sulfate	---	---	---	---	---	---
119. 4,4'-DDT	---	---	---	---	---	---
120. Endrin Ketone	---	---	---	---	---	---
121. Methoxychlor	---	---	---	---	---	---
122. Chlordane	---	---	---	---	---	---
123. Toxaphene	---	---	---	---	---	---
124. AROCLOR-1016	---	---	---	---	---	---
125. AROCLOR-1221	---	---	---	---	---	---
126. AROCLOR-1232	---	---	---	---	---	---
127. AROCLOR-1242	---	---	---	---	---	---
128. AROCLOR-1248	---	---	---	---	---	---
129. AROCLOR-1254	---	---	---	---	---	---
130. AROCLOR-1260	---	---	---	---	---	---

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TABLE 2
SUMMARY OF SOIL TRENCH ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	ST4101	ST41DP	ST4201	ST4301	ST4401	ST44MS
1. Aluminum	2370	2190	13200	4950	7680	9110
2. Antimony	(R)	(R)	(R)	(R)	(R)	(R)
3. Arsenic	5.1(X)	4.9(X)	26	12	25	(R)
4. Barium	145	144	96(X)	33(X)	39(X)	45(X)
5. Beryllium	---	---	0.55(X)	0.39(X)	0.43(X)	0.51(X)
6. Cadmium (IC)	---	---	---	---	---	---
7. Calcium	6220	7990	4530	13800	13700	117000
8. Chromium	9.2	9.7	30	11	11	15
9. Cobalt	---	---	10(X)	7.6(X)	9.1(X)	9.4(X)
10. Copper	15(X)	13(X)	40	21	21	21
11. Iron	8980*	10700*	39900*	18800*	18800*	21000*
12. Lead (IC)	61*	77*	27*	11	10	11
13. Magnesium	289(X)	247(X)	4080	39800	32100	30200
14. Manganese	31*	31*	187*	1670*	540*	563*
15. Mercury	0.16	0.15	---	---	---	---
16. Nickel	---	---	28	21(X)	17(X)	20(X)
17. potassium	1510(X)	1760(X)	2190(X)	1110(X)	1580(X)	2030(X)

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(IC) = INDICATOR COMPOUND

TABLE 2
SUMMARY OF SOIL TRENCH ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	ST4101	ST41DP	ST4201	ST4301	ST4401	ST44MS
18. Selenium	(R)	(R)	(R)	(R)	(R)	(R)
19. Silver	---	---	3.6(X)	2.2(X)	1.8(X)	---
20. Sodium	---	---	---	1700(X)	1390(X)	1060(X)
21. Thallium	---	---	---	---	---	---
22. Tin	16(X)	11(X)	---	---	---	---
23. Vanadium	9.6(X)	9.8(X)	40	16(X)	17(X)	21(X)
24. Zinc	15	14	95	65	57	51
25. Cyanide	---	---	---	---	---	---

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TABLE 3
SUMMARY OF SOIL BORINGS ANALYTICAL DATA
PRISTINE, INC.

Volatiles (ug/kg)	SB3501	SB3502	SB3503	SB3503P	SB3504	SB3505	SB3601	SB3602	SB3603	SB3604	SB3605
1. Chloroethane	---	---	---	---	---	---	---	---	---	---	---
2. Bromoethane	---	---	---	---	---	---	---	---	---	---	---
3. Vinyl chloride	---	---	---	---	---	---	---	---	---	---	---
4. Chloroethane	---	---	---	---	---	---	---	---	---	---	---
5. Methylene Chloride	82 B	9.6 B	5.9	13 B	7.9 B	9.6 B	8.9 B	7.7 B	9.8 B	14 B	5.6 B
6. Acetone	13 B	290 B	380	330 B	36 B	50 B	9.6 B,J	11 B,J	12 B	17 B	28 B
7. Carbon Disulfide	---	---	---	---	---	---	---	---	---	---	---
8. 1,1-Dichloroethene	23 K	---	---	---	---	---	---	---	---	---	---
9. 1,1-Dichloroethane	---	---	---	---	---	---	---	---	---	---	---
10. trans-1,2-Dichloroethene	---	---	---	---	---	---	---	---	---	---	---
11. Chloroform	---	---	---	---	2.9 J	---	3.5 J	---	---	---	---
12. 1,2-Dichloroethane	---	---	---	---	---	---	---	---	---	2.9 J	---
13. 2-Butanone	---	46	170	---	---	9.0 J	---	---	---	---	---
14. 1,1,1-Trichloroethane	---	---	---	---	---	---	3.7 J	---	---	---	---
15. Carbon Tetrachloride	---	---	---	---	---	---	---	---	---	---	---
16. Vinyl Acetate	---	---	---	---	---	---	---	---	---	---	---
17. Bromodichloromethane	---	---	---	---	---	---	---	---	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	---	---	---	---	---
19. 1,2-Dichloropropane	---	---	---	---	---	---	---	---	---	---	---
20. trans-1,3-Dichloropropene	---	---	---	---	---	---	---	---	---	---	---
21. Trichloroethene	20	3.9 J	---	---	21	---	38	---	---	---	---
22. Dibromochloromethane			---	---		---	---	---	---	---	---
23. 1,1,2-Trichloroethane	---	---	---	---	---	---	---	---	---	---	---
24. Benzene	---	---	---	---	5.1 J	---	---	---	---	---	---
25. cis-1,3-Dichloropropene	---	---	---	---	---	---	---	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	---	---	---	---	---	---	---	---	---
27. Bromoform	---	---	---	---	---	---	---	---	---	---	---
28. 2-Hexanone	---	---	---	---	---	---	---	---	---	---	---
29. 4-Methyl-2-pentanone	---	---	---	---	---	---	---	---	---	---	---
30. Tetrachloroethene	18	---	---	---	6.8	---	58	---	---	---	---
31. Toluene	3.6 J	---	---	---	---	---	---	---	---	---	---
32. Chlorobenzene	---	---	---	---	---	---	---	---	---	---	---
33. Ethyl Benzene	---	---	---	---	---	---	---	---	---	---	---
34. Styrene	---	---	---	---	---	---	---	---	---	---	---
35. Total Xylenes	---	---	---	---	---	---	---	---	---	---	---

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SUMMARY OF SOIL BORINGS ANALYTICAL DATA
PRISTINE, INC.

Volatiles (ug/kg)	SB3701	SB3702	SB3703	SB370DP	SB3704	SB3705	SB3801	SB3802	SB3803	SB3804	SB380
1. Chloromethane	---	---	---	---	---	---	---	---	---	---	---
2. Bromomethane	---	---	---	---	---	---	---	---	---	---	---
3. Vinyl chloride	---	---	---	---	---	---	---	---	---	---	---
4. Chloroethane	---	---	---	---	---	---	---	---	---	---	---
5. Methylene Chloride	19 B	24 B	18 B	32 B	14 B	30 B	140.35	63.49	330.79 B	685.64 B	134.64 B
6. Acetone	9.4 B,J	7.7 B,J	27 B	150 B	25 B	44 B	85.36	117.22	127.23	120.31	---
7. Carbon Disulfide	---	---	---	---	---	---	---	---	---	---	---
8. 1,1-Dichloroethene	---	---	---	---	---	---	---	---	---	---	---
9. 1,1-Dichloroethane	---	---	---	---	---	8.5	---	---	---	---	---
10. trans-1,2-Dichloroethene	---	---	---	---	---	---	---	---	---	---	---
11. Chloroform	---	---	---	---	---	---	18.71	---	38.17	181.11	18.36
12. 1,2-Dichloroethane	---	---	---	---	---	53	31.58	20.76	178.12	426.91	64.8
13. 2-Butanone	---	---	---	---	---	9.0 J	---	---	---	---	---
14. 1,1,1-Trichloroethane	---	---	---	---	---	---	---	---	---	---	---
15. Carbon Tetrachloride	---	---	---	---	---	---	---	---	---	---	---
16. Vinyl Acetate	---	---	---	---	---	---	---	---	---	---	---
17. Bromodichloromethane	---	---	---	---	---	---	---	---	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	---	---	---	---	---
19. 1,2-Dichloropropane	---	---	---	---	---	---	---	---	---	---	---
20. trans-1,3-Dichloropropene	---	---	---	---	---	---	---	---	---	---	---
21. Trichloroethene	---	---	---	---	---	---	---	---	---	---	---
22. Dibromochloroethane	---	---	---	---	---	---	---	---	---	---	---
23. 1,1,2-Trichloroethane	---	---	---	---	---	---	---	---	15.27	60.80	---
24. Benzene	---	---	---	---	---	---	---	---	6.36	---	---
25. cis-1,3-Dichloropropene	---	---	---	---	---	---	---	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	---	---	---	---	---	---	---	---	---
27. Bromoform	---	---	---	---	---	---	---	---	---	---	---
28. 2-Hexanone	---	---	---	---	---	---	---	---	---	---	---
29. 4-Methyl-2-pentanone	---	---	---	---	---	---	---	---	---	---	---
30. Tetrachloroethene	---	---	---	---	---	---	---	---	---	---	---
31. Toluene	---	---	---	---	---	---	4.56 J	2.44 J	12.60	336.35	25.70
32. Chlorobenzene	---	---	---	---	---	---	---	---	---	---	---
33. Ethyl Benzene	---	---	---	---	---	---	1.29 J	---	17.81	---	---
34. Styrene	---	---	---	---	---	---	3.27 J	---	---	---	---
35. Total Xylenes	---	---	---	---	---	---	5.61 J	---	104.33	32.34	10.9

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PRISTINE, INC.

Volatiles (ug/kg)	SB3901	SB3902	SB3903	SB3904	SB3905	SB4001	SB4002	SB4003	SB4004	SB4005
1. Chloromethane	---	---	---	---	---	---	---	---	---	---
2. Bromomethane	---	---	---	---	---	---	---	---	---	---
3. Vinyl chloride	---	---	---	---	---	---	---	---	---	---
4. Chloroethane	---	---	---	---	---	---	---	---	---	---
5. Methylene Chloride	31.75	227.82	75.00	94.85	75.40	118.06	118.14B	286.10B	12910.88	616.23B	379.31B
6. Acetone	---	1558.75	237.50	210.77	---	165.29	---	584.86	56338 B	51163 B	3333
7. Carbon Disulfide	---	109.11	---	---	---	---	---	---	---	---	---
8. 1,1-Dichloroethene	---	---	---	---	---	---	---	---	---	---	---
9. 1,1-Dichloroethane	---	---	---	---	---	22.43	---	---			
10. trans-1,2-Dichloroethene	---	---	---	---	---	16.53	---	---	---	---	---
11. Chloroform	9.95	---	---	---	---	18.89	---	32.11	211.27	69.77	---
12. 1,2-Dichloroethane	86.77	143.88	106.25	86.65	---	6139.32	---	---	751.17	1,128	75.86
13. 2-Butanone	---	371.70	---	---	---	---	---	---	786.38	1,279	241.38
14. 1,1,1-Trichloroethane	24.34	---	---	---	---	---	---	---	---	---	---
15. Carbon Tetrachloride	---	---	---	---	---	---	---	---	---	---	---
16. Vinyl Acetate	---	---	---	---	---	---	---	---	---	---	---
17. Bromodichloromethane	---	---	---	---	---	---	---	---	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	---	---	---	---	---
9. 1,2-Dichloropropane	---	---	---	---	---	---	---	---	---	---	---
20. trans-1,3-Dichloropropene	---	---	---	---	---	---	---	---	---	---	---
21. Trichloroethene	4.02 J	---	---	---	---	3.66 J	---	---	---	---	---
22. Dibromochloromethane	---	---	---	---	---	---	---	---	---	---	---
23. 1,1,2-Trichloroethane	---	---	---	---	---	---	---	---	---	---	---
24. Benzene	---	22.78	8.0	---	---	76.74	---	57.34	27,000	1,140	48.28
25. cis-1,3-Dichloropropene	---	---	---	---	---	---	---	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	---	---	---	---	---	---	---	---	---
27. Bromoform	---	---	---	---	---	---	---	---	---	---	---
28. 2-Hexanone	---	---	---	---	---	---	---	---	---	---	---
29. 4-Methyl-2-pentanone	---	50.36	12.00	---	---	---	---	---	---	---	---
30. Tetrachloroethene	68.78	---	25.00	3.75	---	---	12.54	---	---	---	---
31. Toluene	10.58	79.14	66.25	21.08	12.36	43.68	---	83.72	57518	848.848	149.43
32. Chlorobenzene	---	---	---	---	---	---	---	---	481.22	581.40	
33. Ethyl Benzene	6.46	---	9.00	---	---	---	---	---	39.91	58.14	26.44
34. Styrene	---	---	---	---	---	---	---	---	---	---	---
35. Total Xylenes	37.04	8.51	53.75	7.96	396 J	2.24 J	---	---	269.95	465.12	172.41

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PRISTINE, INC.

Volatiles (ug/kg)	SBCP01	SBCP02*	SBCP03	SBCPDP	SBCP04	SBCP05
1. Chloromethane	---	---	---	---	---	---
2. Bromomethane	---	---	---	---	---	---
3. Vinyl chloride	---	---	---	---	---	---
4. Chloroethane	---	---	---	---	---	---
5. Methylene Chloride	52	570	41	18K	30K	---
6. Acetone	2190	560	---	---	150	---
7. Carbon Disulfide	---	---	---	---	---	---
8. 1,1-Dichloroethene	18K	---	22K	32	15K	39
9. 1,1-Dichloroethane	---	---	---	---	---	---
10. trans-1,2-Dichloroethene	110	---	55	39	---	---
11. Chloroform	2K	---	3K	---	---	---
12. 1,2-Dichloroethane	---	---	---	66	---	400
13. 2-Butanone	2500	2300	---	---	---	170
14. 1,1,1-Trichloroethane	---	190K	100	120	26K	---
15. Carbon Tetrachloride	---	---	---	---	---	---
16. Vinyl Acetate	---	---	---	---	---	---
17. Bromodichloromethane	---	---	---	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	---	---	---	---	---
19. 1,2-Dichloropropane	---	---	---	---	---	61
20. trans-1,3-Dichloropropene	---	---	---	---	---	---
21. Trichloroethene	310	440K	140	210	45K	---
22. Dibromochloromethane	---	---	---	---	---	---
23. 1,1,2-Trichloroethane	---	---	---	---	---	---
24. Benzene	---	---	---	---	---	75
25. cis-1,3-Dichloropropene	---	---	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	---	---	---	---
27. Bromoform	---	---	---	---	---	---
28. 2-Hexanone	---	---	---	---	---	---
29. 4-Methyl-2-pentanone	260	---	---	---	---	---
30. Tetrachloroethene	84	430K	97	380	49K	---
31. Toluene	1400	4400	570	150	370	60
32. Chlorobenzene	29K	120K	---	7K	---	---
33. Ethyl Benzene	57	140K	24K	14K	15K	---
34. Styrene	---	---	---	---	---	---
35. Total Xylenes	190	320K	130	110	80	---

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PRISTINE, INC.

Semi-Volatiles (ug/kg)	SB3501	SB3502	SB3503	SB35DP	SB3504	SB3505	SB3601	SB3602	SB3603	SB3604	SB360
36. N-Nitrosodimethylamine	---	---	---	---	---	---	---	---	---	---	---
37. Phenol	---	18000	---	---	---	---	---	---	---	---	---
38. Aniline	---	---	---	---	---	---	---	---	---	---	---
39. bis(2-Chloroethyl) ether	---	---	---	---	---	---	---	---	---	---	---
40. 2-Chlorophenol	---	---	---	---	---	---	---	---	---	---	---
41. 1,3-Dichlorobenzene	---	---	---	---	---	---	---	---	---	---	---
42. 1,4-Dichlorobenzene	---	---	---	---	---	---	---	---	---	---	---
43. Benzyl Alcohol	---	---	---	---	---	---	---	---	---	---	---
44. 1,2-Dichlorobenzene	---	---	---	---	---	---	---	---	---	---	8400
45. 2-Methylphenol	---	---	---	---	---	---	---	---	---	---	---
46. bis(2-Chloroisopropyl) ether	---	---	---	---	---	---	---	---	---	---	---
47. 4-Methylphenol	---	---	---	---	---	---	---	---	---	---	---
48. n-Nitroso-Dipropylamine	---	---	---	---	---	---	---	---	---	---	---
49. Hexachloroethane	---	---	---	---	---	---	---	---	---	---	---
50. Nitrobenzene	---	---	---	---	---	---	---	---	---	---	---
51. Isophorone	---	---	---	---	---	---	---	---	---	---	---
52. 2-Nitrophenol	---	---	---	---	---	---	---	---	---	---	---
53. 2,4-Dimethylphenol	---	---	---	---	---	---	---	---	---	---	---
54. Benzoic Acid	---	---	---	---	---	---	---	---	---	---	---
55. bis(2-Chloroethoxy) methane	---	---	---	---	---	---	---	---	---	---	---
56. 2,4-Dichlorophenol	---	---	---	---	---	---	---	---	---	---	---
57. 1,2,4-Trichlorobenzene	---	---	---	---	---	---	---	---	---	---	---
58. Naphthalene	---	---	---	---	---	---	---	---	---	---	---
59. 4-Chloroaniline	---	---	---	---	---	---	---	---	---	---	---
60. Hexachlorobutadiene	---	---	---	---	---	---	---	---	---	---	---
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	---	---	---	---	---	---	---	---	---
62. 2-Methylnaphthalene	---	---	---	---	---	---	---	---	---	---	---
63. Hexachlorocyclopentadiene	---	---	---	---	---	---	---	---	---	---	---
64. 2,4,6-Trichlorophenol	---	---	---	---	---	---	1900 J	---	---	---	---
65. 2,4,5-Trichlorophenol	---	---	---	---	---	---	---	---	---	---	---
66. 2-Chloronaphthalene	---	---	---	---	---	---	---	---	---	---	---
67. 2-Nitroaniline	---	---	---	---	---	---	---	---	---	---	---
68. Dimethyl Phthalate	---	---	---	---	---	---	---	---	---	---	---
69. Acenaphthylene	---	---	---	---	---	---	---	---	---	---	---
70. 3-Nitroaniline	---	---	---	---	---	---	---	---	---	---	---

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PRISTINE, INC.

Semi-Volatiles (ug/kg)	SB3701	SB3702	SB3703	SB37DP	SB3704	SB3705	SB3801	SB3802	SB3803	SB3804	SB3805
36. N-Nitrosodimethylamine	---	---	---	---	---	---	---	---	---	---	---
37. Phenol	---	---	---	---	---	---	---	---	---	---	---
38. Aniline	---	---	---	---	---	---	---	---	---	---	---
39. bis(2-Chloroethyl) ether	---	---	---	---	---	---	---	---	---	---	---
40. 2-Chlorophenol	---	---	---	---	---	---	---	---	---	---	---
41. 1,3-Dichlorobenzene	---	---	---	---	---	---	---	---	---	---	---
42. 1,4-Dichlorobenzene	---	---	---	---	---	---	---	---	---	---	---
43. Benzyl Alcohol	---	---	---	---	---	---	---	---	---	---	---
44. 1,2-Dichlorobenzene	---	---	---	---	---	---	---	---	---	633.89	---
45. 2-Methylphenol	---	---	---	---	---	---	---	---	---	---	---
46. bis(2-Chloroisopropyl) ether	---	---	---	---	---	---	---	---	---	---	---
47. 4-Methylphenol	---	---	---	---	---	---	---	---	---	---	---
48. n-Nitroso-Dipropylamine	---	---	---	---	---	---	---	---	---	---	---
49. Hexachloroethane	---	---	---	---	---	---	---	---	---	---	---
50. Nitrobenzene	---	---	---	---	---	---	---	---	---	---	---
51. Isophorone	---	---	---	---	---	---	---	---	---	---	---
52. 2-Nitrophenol	---	---	---	---	---	---	---	---	---	---	---
53. 2,4-Dimethylphenol	---	---	---	---	---	---	---	---	---	---	---
54. Benzoic Acid	---	---	---	---	---	---	---	---	---	---	---
55. bis(2-Chloroethoxy) methane	---	---	---	---	---	---	---	---	---	---	---
56. 2,4-Dichlorophenol	---	---	---	---	---	---	---	---	---	---	---
57. 1,2,4-Trichlorobenzene	---	---	---	---	---	---	---	---	---	---	---
58. Naphthalene	---	---	---	---	---	---	---	---	---	---	---
59. 4-Chloroaniline	---	---	---	---	---	---	---	---	---	---	---
60. Hexachlorobutadiene	---	---	---	---	---	---	---	---	---	---	---
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	---	---	---	---	---	---	---	---	---
62. 2-Methylnaphthalene	---	---	---	---	---	---	---	---	---	---	---
63. Hexachlorocyclopentadiene	---	---	---	---	---	---	---	---	---	---	---
64. 2,4,6-Trichlorophenol	---	---	---	---	---	---	---	---	---	---	---
65. 2,4,5-Trichlorophenol	---	---	---	---	---	---	---	---	---	---	---
66. 2-Chloronaphthalene	---	---	---	---	---	---	---	---	---	---	---
67. 2-Nitroaniline	---	---	---	---	---	---	---	---	---	---	---
68. Dimethyl Phthalate	---	---	---	---	---	---	---	---	---	---	---
69. Acenaphthylene	---	---	---	---	---	---	---	---	---	---	---
70. 3-Nitroaniline	---	---	---	---	---	---	---	---	---	---	---

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PRISTINE, INC.

Semi-Volatiles (ug/kg)	SB3901	SB3902	SB3903	SB39DP	SB3904	SB3905	SB4001	SB4002	SB4003	SB4004	SB4005
36. N-Nitrosodimethylamine	---	---	---	---	---	---	---	---	---	---	---
37. Phenol	---	2960	6375	1340	---	590.32	---	342 J	1291	5790	4138
38. Aniline	---	---	---	---	---	---	---	---	---	---	---
39. bis(2-Chloroethyl) ether	---	---	---	---	---	---	---	---	---	---	---
40. 2-Chlorophenol	---	---	---	---	---	---	---	---	---	---	---
41. 1,3-Dichlorobenzene	---	---	---	---	---	---	---	---	---	---	---
42. 1,4-Dichlorobenzene	---	---	---	---	---	---	---	---	---	---	---
43. Benzyl Alcohol	---	---	---	---	---	---	---	---	---	---	---
44. 1,2-Dichlorobenzene	---	---	---	---	---	---	---	214 J	1643	1430	---
45. 2-Methylphenol	---	---	---	---	---	---	---	---	---	---	---
46. bis(2-Chloroisopropyl) ether	---	---	---	---	---	---	---	---	---	---	---
47. 4-Methylphenol	---	---	337.50 J	---	---	---	---	---	---	---	---
48. n-Nitroso-Dipropylamine	---	---	---	---	---	---	---	---	---	---	---
49. Hexachloroethane	---	---	---	---	---	---	---	---	---	---	---
50. Nitrobenzene	---	---	---	---	---	---	---	---	---	905	1103
51. Isophorone	---	---	---	---	---	---	---	---	---	---	---
52. 2-Nitrophenol	---	---	---	---	---	---	---	---	---	---	---
53. 2,4-Dimethylphenol	---	---	---	---	---	---	---	---	---	---	172.41 J
54. Benzoic Acid	---	---	---	---	---	---	---	---	---	2070	747.13 J
55. bis(2-Chloroethoxy) methane	---	---	---	---	---	---	---	---	---	---	---
56. 2,4-Dichlorophenol	---	---	---	---	---	---	---	---	---	---	---
57. 1,2,4-Trichlorobenzene	---	---	---	---	---	---	---	---	---	---	---
58. Naphthalene	---	---	---	---	---	---	---	---	---	---	---
59. 4-Chloroaniline	---	---	---	---	---	---	---	---	---	---	---
60. Hexachlorobutadiene	---	---	---	---	---	---	---	---	---	---	---
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	---	---	---	---	---	---	---	---	---
62. 2-Methylnaphthalene	---	---	---	---	---	---	---	---	---	---	---
63. Hexachlorocyclopentadiene	---	---	---	---	---	---	---	---	---	---	---
64. 2,4,6-Trichlorophenol	---	---	---	---	---	---	---	---	---	---	---
65. 2,4,5-Trichlorophenol	---	---	---	---	---	---	---	---	---	---	---
66. 2-Chloronaphthalene	---	---	---	---	---	---	---	---	---	---	---
67. 2-Nitroaniline	---	---	---	---	---	---	---	---	---	---	---
68. Dimethyl Phthalate	660 J	---	---	---	---	---	---	---	---	---	---
69. Acenaphthylene	---	---	---	---	---	---	---	---	---	---	---
70. 3-Nitroaniline	---	---	---	---	---	---	---	---	---	---	---

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36. N-Nitrosodiaethylamine	---	---	---	---	---	---
37. Phenol	440K	930	---	480K	660	---
38. Aniline	---	---	---	---	---	---
39. bis(2-Chloroethyl) ether	---	---	---	---	---	---
40. 2-Chlorophenol	---	---	---	---	---	---
41. 1,3-Dichlorobenzene	---	---	---	---	---	---
42. 1,4-Dichlorobenzene	---	---	---	---	---	---
43. Benzyl Alcohol	---	---	---	---	---	---
44. 1,2-Dichlorobenzene	---	---	---	---	---	---
45. 2-Methylphenol	120K	350K	---	180K	---	---
46. bis(2-Chloroisopropyl)	---	---	---	---	---	---
ether	---	---	---	---	---	---
47. 4-Methylphenol	---	370K	220K	200K	160K	---
48. n-Nitroso-Dipropylamine	---	---	---	---	---	---
49. Hexachloroethane	---	---	---	---	---	---
50. Nitrobenzene	---	---	---	---	---	---
51. Isophorone	---	---	---	---	---	---
52. 2-Nitrophenol	---	---	---	---	---	---
53. 2,4-Dimethylphenol	---	---	---	---	---	---
54. Benzoic Acid	---	---	---	---	---	---
55. bis(2-Chloroethoxy)	---	140K	---	910	870	---
methane	---	---	---	---	---	---
56. 2,4-Dichlorophenol	---	---	---	---	---	---
57. 1,2,4-Trichlorobenzene	---	---	75K	---	---	---
58. Naphthalene	340K	---	1000	63K	47K	---
59. 4-Chloroaniline	---	---	---	---	---	---
60. Hexachlorobutadiene	---	---	---	---	---	---
61. 4-Chloro-3-methylphenol	---	---	---	---	---	---
(para-chloro-meta-cresol)	---	---	---	---	---	---
62. 2-Methylnaphthalene	4K	---	180K	---	---	---
63. Hexachlorocyclopentadiene	---	---	---	---	---	---
64. 2,4,6-Trichlorophenol	---	---	---	---	---	---
65. 2,4,5-Trichlorophenol	---	---	---	---	---	---
66. 2-Chloronaphthalene	---	---	---	---	---	---
67. 2-Nitroaniline	---	---	---	---	---	---
68. Dimethyl Phthalate	---	---	---	---	---	---
69. Acenaphthylene	---	---	---	---	---	---
70. 3-Nitroaniline	---	---	---	---	---	---

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Semi-Volatiles (ug/kg)	SB3501	SB3502	SB3503	SB35DP	SB3504	SB3505	SB3601	SB3602	SB3603	SB3604	SB36(
71. Acenaphthene	---	---	---	---	---	---	---	---	---	---	---
72. 2,4-Dinitrophenol	---	---	---	---	---	---	---	---	---	---	---
73. 4-Nitrophenol	---	---	---	---	---	---	---	---	---	---	---
74. Dibenzofuran	---	---	---	---	---	---	---	---	---	---	---
75. 2,4-Dinitrotoluene	---	---	---	---	---	---	---	---	---	---	---
76. 2,6-Dinitrotoluene	---	---	---	---	---	---	---	---	---	---	---
77. Diethylphthalate	---	---	---	---	---	---	1400 J	---	---	---	---
78. 4-Chlorophenyl Phenyl	---	---	---	---	---	---	---	---	---	---	---
ether	---	---	---	---	---	---	---	---	---	---	---
79. Fluorene	---	---	---	---	---	---	---	---	---	---	---
80. 4-Nitroaniline	---	---	---	---	---	---	---	---	---	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	---	---	---	---	---	---	---	---	---
82. N-nitrosodiphenylamine	---	---	---	---	---	---	---	---	---	---	---
83. 4-Bromophenyl Phenyl ether	---	---	---	---	---	---	---	---	---	---	---
84. Hexacholorobenzene	---	---	---	---	---	---	---	---	---	---	---
85. Pentachlorophenol	---	---	---	---	---	---	---	---	---	---	---
86. Phenanthrene	---	---	---	---	---	---	---	---	---	---	---
87. Anthracene	---	---	---	---	---	---	---	---	---	---	---
88. Di-n-butylphthalate	---	---	---	---	---	---	---	---	---	---	---
89. Fluoranthene	---	---	---	---	---	---	---	---	---	---	---
90. Benzidine	---	---	---	---	---	---	---	---	---	---	---
91. Pyrene	---	---	---	---	---	---	---	---	---	---	---
92. Butyl Benzyl Phthalate	---	---	---	---	---	---	1500 J	---	---	---	---
93. 3,3'-Dichlorobenzidine	---	---	---	---	---	---	---	---	---	---	---
94. Benzo(a)anthracene	---	---	---	---	---	---	---	---	---	---	---
95. bis(2-ethylhexyl)phthalate	9500	---	---	---	---	---	28000	200 J	---	---	---
96. Chrysene	---	---	---	---	---	---	---	---	---	---	---
97. Di-n-octyl Phthalate											
98. Benzo(b)fluoranthene	---	---	---	---	---	---	---	---	---	---	---
99. Benzo(k)fluoranthene	---	---	---	---	---	---	---	---	---	---	---
100. Benzo(a)pyrene	---	---	---	---	---	---	---	---	---	---	---
101. Ideno(1,2,3-cd)pyrene	---	---	---	---	---	---	---	---	---	---	---
102. Dibenz(a,h)anthracene	---	---	---	---	---	---	---	---	---	---	---
103. Benzo(g,h,i)perylene	---	---	---	---	---	---	---	---	---	---	---

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TABLE 3
SUMMARY OF SOIL BORINGS ANALYTICAL DATA
PRISTINE, INC.

Semi-Volatiles (ug/kg)	SB3701	SB3702	SB3703	SB37DP	SB3704	SB3705	SB3801	SB3802	SB3803	SB3804	SB38
71. Acenaphthene	---	---	---	---	---	---	---	---	---	---	---
72. 2,4-Dinitrophenol	---	---	---	---	---	---	---	---	---	---	---
73. 4-Nitrophenol	---	---	---	---	---	---	---	---	---	---	---
74. Dibenzofuran	---	---	---	---	---	---	---	---	---	---	---
75. 2,4-Dinitrotoluene	---	---	---	---	---	---	---	---	---	---	---
76. 2,6-Dinitrotoluene	---	---	---	---	---	---	---	---	---	---	---
77. Diethylphthalate	---	---	330 J	290 J	270 J	240 J	---	---	---	---	---
78. 4-Chlorophenyl Phenyl	---	---	---	---	---	---	---	---	---	---	---
ether	---	---	---	---	---	---	---	---	---	---	---
79. Fluorene	---	---	---	---	---	---	---	---	---	---	---
80. 4-Nitroaniline	---	---	---	---	---	---	---	---	---	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	---	---	---	---	---	---	---	---	---
82. N-nitrosodiphenylamine	---	---	---	---	---	---	---	---	---	---	---
83. 4-Bromophenyl Phenyl ether	---	---	---	---	---	---	---	---	---	---	---
84. Hexachlorobenzene	---	---	---	---	---	---	---	---	---	---	---
85. Pentachlorophenol	---	---	---	---	---	---	---	---	---	---	---
86. Phenanthrene	200 J	---	---	---	---	---	---	91.7 J	---	---	---
87. Anthracene	---	---	---	---	---	---	---	---	---	---	---
88. Di-n-butylphthalate	---	---	---	---	---	---	---	---	203.56 J	219.92 J	[illegible]
89. Fluoranthene	270 J	---	---	---	---	---	---	---	---	---	---
90. Benzidine	---	---	---	---	---	---	---	---	---	---	---
91. Pyrene	380 J	---	---	---	---	---	---	---	---	---	---
92. Butyl Benzyl Phthalate	340 J	---	---	---	---	---	192 J	128 J	139.95 J	168.18 J	110.16
93. 3,3'-Dichlorobenzidine	---	---	---	---	---	---	---	---	---	---	---
94. Benzo(a)anthracene	180 J	---	---	---	---	---	---	---	---	---	---
95. bis(2-ethylhexyl)phthalate	1300	390 J	590	420	250 J	---	1130 B	189 BJ	470.74 B	323.42BJ	599.[illegible]
96. Chrysene	200 J	---	---	---	---	---	---	---	---	---	---
97. Di-n-octyl Phthalate											
98. Benzo(b)fluoranthene	370 J	---	---	---	---	---	---	---	---	---	---
99. Benzo(k)fluoranthene	370 J	---	---	---	---	---	---	---	---	---	---
100. Benzo(a)pyrene	---	---	---	---	---	---	---	---	---	---	---
101. Ideno(1,2,3-cd)pyrene	---	---	---	---	---	---	---	---	---	---	---
102. Dibenz(a,h)anthracene	---	---	---	---	---	---	---	---	---	---	---
103. Benzo(g,h,i)perylene	---	---	---	---	---	---	---	---	---	---	---

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PRISTINE, INC.

Semi-Volatiles (ug/kg)	SB3901	SB3902	SB3903	SB39DP	SB3904	SB3905	SB4001	SB4002	SB4003	SB4004	SB4005
71. Acenaphthene	---	---	---	---	---	---	---	---	---	---	---
72. 2,4-Dinitrophenol	---	---	---	---	---	---	---	---	---	---	---
73. 4-Nitrophenol	---	---	---	---	---	---	---	---	---	---	---
74. Dibenzofuran	---	---	---	---	---	---	---	---	---	---	---
75. 2,4-Dinitrotoluene	---	---	---	---	---	---	---	---	---	---	---
76. 2,6-Dinitrotoluene	---	---	---	---	---	---	---	---	---	---	---
77. Diethylphthalate	---	---	---	---	---	---	---	---	---	---	---
78. 4-Chlorophenyl Phenyl	---	---	---	---	---	---	---	---	---	---	---
ether	---	---	---	---	---	---	---	---	---	---	---
79. Fluorene	---	---	---	---	---	---	---	---	---	---	---
80. 4-Nitroaniline	---	---	---	---	---	---	---	---	---	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	---	---	---	---	---	---	---	8580	4023
82. N-nitrosodiphenylamine	2320 J	---	---	---	---	---	114 J	---	---	---	---
83. 4-Bromophenyl Phenyl ether	---	---	---	---	---	---	---	---	---	---	---
84. Hexacholorobenzene	---	---	---	---	---	---	---	---	---	---	---
85. Pentachlorophenol	---	---	---	---	---	---	---	---	---	---	---
86. Phenanthrene	929 J	---	---	---	---	---	---	---	---	---	---
7. Anthracene	---	---	---	---	---	---	---	---	---	---	---
. Di-n-butylphthalate	437 J	1103	987.50	1991	1728	1771	1140	776	1174	404 J	276 J
89. Fluoranthene	---	---	---	---	---	---	85.52 J	---	---	---	---
90. Benzidine	---	---	---	---	---	---	---	---	---	---	---
91. Pyrene	913 J	---	---	---	---	---	103 J	---	---	---	---
92. Butyl Benzyl Phthalate	495 J	204	225	---	---	177	87 J	---	223 J	---	161 J
93. 3,3'-Dichlorobenzidine	---	---	---	---	---	---	---	---	---	---	---
94. Benzo(a)anthracene	---	---	---	---	---	---	---	---	---	---	---
95. bis(2-ethylhexyl)phthalate	1720 B,J	444	1875	550 J	227.22B,J	956.32	1482 B	203 BJ	399 B,J	---	759 B,J
96. Chrysene	---	---	---	---	---	---	---	---	---	---	---
97. Di-n-octyl Phthalate											---
98. Benzo(b)fluoranthene	---	---	---	---	---	---	---	---	---	---	---
99. Benzo(k)fluoranthene	---	---	---	---	---	---	---	---	---	---	---
100. Benzo(a)pyrene	---	---	---	---	---	---	---	---	---	---	---
101. Ideno(1,2,3-cd)pyrene	---	---	---	---	---	---	---	---	---	---	---
102. Dibenz(a,h)anthracene	---	---	---	---	---	---	---	---	---	---	---
103. Benzo(g,h,i)perylene	---	---	---	---	---	---	---	---	---	---	---

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PRISTINE, INC.

Semi-Volatiles (ug/kg)	SBCP01	SBCP02	SBCP03	SBCPDP	SBCP04	SBCP05
71. Acenaphthene	---	---	---	---	---	---
72. 2,4-Dinitrophenol	---	---	---	---	---	---
73. 4-Nitrophenol	---	---	---	---	---	---
74. Dibenzofuran	---	---	---	---	---	---
75. 2,4-Dinitrotoluene	---	---	---	---	---	---
76. 2,6-Dinitrotoluene	---	---	---	---	---	---
77. Diethylphthalate	---	---	---	---	---	---
78. 4-Chlorophenyl Phenyl	---	---	---	---	---	---
ether	---	---	---	---	---	---
79. Fluorene	---	---	---	---	---	---
80. 4-Nitroaniline	---	---	---	---	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	---	---	---	---
82. N-nitrosodiphenylamine	---	---	---	---	---	---
83. 4-Bromophenyl Phenyl ether	---	---	---	---	---	---
84. Hexacholorobenzene	---	---	---	---	---	---
85. Pentachlorophenol	---	---	---	---	---	---
86. Phenanthrene	---	---	85K	---	---	---
87. Anthracene	---	---	---	---	---	---
88. Di-n-butylphthalate	---	---	---	---	---	---
89. Fluoranthene	---	---	---	---	---	---
90. Benzidine	---	---	---	---	---	---
91. Pyrene	---	---	---	---	---	---
92. Butyl Benzyl Phthalate	390K	---	1500	---	---	---
93. 3,3'-Dichlorobenzidine	---	---	---	---	---	---
94. Benzo(a)anthracene	---	---	---	---	---	---
95. bis(2-ethylhexyl)phthalate	2200	300K	6500	230K	520K	---
96. Chrysene	---	---	---	---	---	---
97. Di-n-octyl Phthalate	---	---	---	---	---	---
98. Benzo(b)fluoranthene	---	---	---	---	---	---
99. Benzo(k)fluoranthene	---	---	---	---	---	---
100. Benzo(a)pyrene	---	---	---	---	---	---
101. Ideno(1,2,3-cd)pyrene	---	---	---	---	---	---
102. Dibenz(a,h)anthracene	---	---	---	---	---	---
103. Benzo(g,h,i)perylene	---	---	---	---	---	---

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PRISTINE, INC.

Pesticides (ug/kg)	SB3501	SB3502	SB3503	SB35DP	SB3504	SB3505	SB3601	SB3602	SB3603	SB3604	SB360
104. Alpha-BHC	---	---	---	---	---	---	---	---	---	---	---
105. beta BHC	---	---	---	---	---	---	---	---	---	---	---
106. delta-BHC	---	---	---	---	---	---	---	---	---	---	---
107. gamma-BHC (Lindane)	86	---	---	---	---	---	---	---	---	---	---
108. Heptachlor	---	---	---	---	---	---	200 J	---	---	---	---
109. Aldrin	180	---	---	---	---	---	---	---	---	---	---
110. Heptachlor Epoxide	---	---	---	---	---	---	---	---	---	---	---
111. Endosulfan I	---	---	---	---	---	---	---	---	---	---	---
112. Dieldrin	---	---	---	---	3.4 J	---	---	---	---	---	---
113. 4,4'-DDE	180	---	---	---	---	---	---	---	---	---	---
114. Endrin	---	---	---	---	---	---	---	---	---	---	---
115. Endosulfan II	---	---	---	---	---	---	---	---	---	---	---
116. 4,4'-DDD	570	---	---	---	42	---	2100	---	---	---	---
117. Endrin Aldehyde	---	---	---	---	---	---	---	---	---	---	---
118. Endosulfan Sulfate	---	---	---	---	---	---	---	---	---	---	---
119. 4,4'-DDT	8600	---	---	---	9.9	---	18000	---	---	---	---
120. Endrin Ketone	---	---	---	---	---	---	---	---	---	---	---
121. Methoxychlor	---	---	---	---	---	---	---	---	---	---	---
122. Chlordane	1200	---	---	---	---	---	---	---	---	---	---
123. Toxaphene	---	---	---	---	---	---	---	---	---	---	---
124. AROCLOR-1016	---	---	---	---	---	---	---	---	---	---	---
125. AROCLOR-1221	---	---	---	---	---	---	---	---	---	---	---
126. AROCLOR-1232	---	---	---	---	---	---	---	---	---	---	---
127. AROCLOR-1242	---	---	---	---	---	---	---	---	---	---	---
128. AROCLOR-1248	---	---	---	---	---	---	---	---	---	---	---
129. AROCLOR-1254	---	---	---	---	---	---	---	---	---	---	---
130. AROCLOR-1260	---	---	---	---	---	---	---	---	---	---	---

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PRISTINE, INC.

Pesticides (ug/kg)	SB3701	SB3702	SB3703	SB37DP	SB3704	SB3705	SB3801	SB3802	SB3803	SB3804	SB38[illegible]
104. Alpha-BHC	---	---	---	---	---	---	---	---	---	---	---
105. beta BHC	---	---	---	---	---	---	---	---	---	---	---
106. delta-BHC	---	---	---	---	---	---	---	---	---	---	---
107. gamma-BHC (Lindane)	8.3	---	---	---	---	---	---	---	---	---	---
108. Heptachlor	---	---	---	---	---	---	---	---	---	---	---
109. Aldrin	49	---	14	28	---	---	89	---	---	---	---
110. Heptachlor Epoxide	---	---	---	---	---	---	---	---	---	---	---
111. Endosulfan I	---	---	---	---	---	---	---	---	---	---	---
112. Dieldrin	74	---	12	7.0	---	---	149	---	---	---	---
113. 4,4'-DDE	45	---	3.4 J	1.7 J	---	---	---	---	---	---	---
114. Endrin	---	---	---	---	---	---	---	---	---	---	---
115. Endosulfan II	---	---	---	---	---	---	---	---	---	---	---
116. 4,4'-DDD	18	---	2.9 J	---	---	---	---	---	---	---	---
117. Endrin Aldehyde	---	---	---	---	---	---	---	---	---	---	---
118. Endosulfan Sulfate	---	---	---	---	---	---	---	---	---	---	---
119. 4,4'-DDT	440	---	64	22	---	6.9	---	---	---	---	---
120. Endrin Ketone	---	---	---	---	---	---	---	---	---	---	---
121. Methoxychlor	---	---	---	---	---	---	---	---	---	---	---
122. Chlordane	---	---	---	---	---	---	---	---	---	---	---
123. Toxaphene	---	---	---	---	---	---	---	---	---	---	---
124. AROCLOR-1016	---	---	---	---	---	---	---	---	---	---	---
125. AROCLOR-1221	---	---	---	---	---	---	---	---	---	---	---
126. AROCLOR-1232	---	---	---	---	---	---	---	---	---	---	---
127. AROCLOR-1242	---	---	---	---	---	---	---	---	---	---	---
128. AROCLOR-1248	---	---	---	---	---	---	---	---	---	---	---
129. AROCLOR-1254	---	---	---	---	---	---	---	---	---	---	---
130. AROCLOR-1260	---	---	---	---	---	---	---	---	---	---	---

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Pesticides (ug/kg)	SB3901	SB3902	SB3903	SB3DP	SB3904	SB3905	SB4001	SB4002	SB4003	SB4004	SB4005
104. Alpha-BHC	---	---	---	---	---	---	---	---	---	---	---
105. beta BHC	---	---	---	---	---	---	---	---	---	---	---
106. delta-BHC	---	---	---	---	---	---	---	---	---	---	---
107. gamma-BHC (Lindane)	---	---	---	---	---	---	---	---	---	---	---
108. Heptachlor	---	---	---	---	---	---	---	---	---	---	---
109. Aldrin	---	---	---	---	---	9.3	18	---	---	---	---
110. Heptachlor Epoxide	---	---	---	---	---	---	---	---	---	---	---
111. Endosulfan I	---	---	---	---	---	---	---	---	---	---	---
112. Dieldrin	---	---	---	---	---	---	---	---	---	---	---
113. 4,4'-DDE	370	---	132	60	---	79	---	---	---	---	---
114. Endrin	---	---	---	---	---	---	---	---	---	---	---
115. Endosulfan II	---	---	---	---	---	---	---	---	---	---	---
116. 4,4'-DDD	203	---	34	32	---	52	---	---	---	---	---
117. Endrin Aldehyde	---	---	---	---	---	---	---	---	---	---	---
118. Endosulfan Sulfate	---	---	---	---	---	---	---	---	---	---	---
119. 4,4'-DDT	1347	---	291	209	---	247	---	---	---	---	---
120. Endrin Ketone	---	---	---	---	---	---	---	---	---	---	---
[illegible]. Methoxychlor	---	---	---	---	---	---	---	---	---	---	---
Chlordane	---	---	---	---	---	---	---	---	---	---	---
[illegible]. Toxaphene	---	---	---	---	---	---	---	---	---	---	---
124. AROCLOR-1016	---	---	---	---	---	---	---	---	---	---	---
125. AROCLOR-1221	---	---	---	---	---	---	---	---	---	---	---
126. AROCLOR-1232	---	---	---	---	---	---	---	---	---	---	---
127. AROCLOR-1242	---	---	---	---	---	---	---	---	---	---	---
128. AROCLOR-1248	---	---	---	---	---	---	---	---	---	---	---
129. AROCLOR-1254	---	---	---	---	---	---	---	---	---	---	---
130. AROCLOR-1260	---	---	---	---	---	---	---	---	---	---	---

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Pesticides (ug/kg)	SBCP01	SBCP02	SBCP03	SBCPDP	SBCP04	SBCP05
104. Alpha-BHC	---	---	---	---	---	---
105. beta BHC	---	---	---	---	---	---
106. delta-BHC	---	---	---	---	---	---
107. gamma-BHC (Lindane)	---	---	---	---	---	---
108. Heptachlor	---	---	---	---	---	---
109. Aldrin	---	---	---	---	---	---
110. Heptachlor Epoxide	---	---	---	---	---	---
111. Endosulfan I	---	---	---	---	---	---
112. Dieldrin	---	---	---	---	---	---
113. 4,4'-DDE	---	---	---	5.8	1.9	---
114. Endrin	---	---	---	---	---	---
115. Endosulfan II	---	---	---	---	---	---
116. 4,4'-DDD	---	---	---	1.9	0.9	---
117. Endrin Aldehyde	---	---	---	---	---	---
118. Endosulfan Sulfate	---	---	---	---	---	---
119. 4,4'-DDT	---	---	---	9.7	4.8	---
120. Endrin Ketone	---	---	---	---	---	---
121. Methoxychlor	---	---	---	---	---	---
122. Chlordane	---	---	---	---	---	---
123. Toxaphene	---	---	---	---	---	---
124. AROCLOR-1016	---	---	---	---	---	---
125. AROCLOR-1221	---	---	---	---	---	---
126. AROCLOR-1232	---	---	---	---	---	---
127. AROCLOR-1242	---	---	---	---	---	---
128. AROCLOR-1248	---	---	---	---	---	---
129. AROCLOR-1254	---	---	---	---	---	---
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PRISTINE, INC.

Inorganics (mg/kg)	SB3501	SB3502	SB3503	SB35DP	SB3504	SB3505	SB3601	SB3602	SB3603	SB36MS	SB3604	SB3605
1. Aluminum	7840*	1360*	11800*	13200*	8390*	9700*	12100*	20700*	10300*	---	13300*	2370*
2. Antimony	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
3. Arsenic	7.7	11	8.2	11	6(X)	10	9.8	37	9.2	---	26	15
4. Barium	129(X)	97(X)	76(X)	61(X)	51(X)	52(X)	89(X)	89(X)	58(X)	---	99(X)	132
5. Beryllium	0.41(X)	0.19(X)	0.76(X)	0.89(X)	0.38(X)	0.46(X)	0.72(X)	1.8(X)	1.1(X)	---	0.96(X)	0.26(X)
6. Cadmium (IC)	8.5	---	---	2.8(X)	---	---	2.4(X)	---	---	---	3.2	---
7. Calcium	86800*	15800*	197000*	29500*	18000*	24800*	31500*	6740*	157000*	---	80100*	180000*
8. Chromium	130(*R)	14(*R)	17(*R)	18(*R)	14(*R)	16(*R)	42(*R)	31(*R)	18(*R)	(*R)	23(*R)	7.3(*R)
9. Cobalt	6.9(X)	3.1(X)	15(X)	14(X)	7.9X	10(X)	13(X)	29(X)	12(X)	---	18(X)	5.2(X)
10. Copper	48	84	81	59	25	27	36	48	30	---	38	24
11. Iron	25100*	27500*	23400*	23000*	16100*	24300*	25400*	43500*	21500*	*	31300*	11700*
12. Lead (IC)	258*	146*	22*	14	23*	27*	78*	29*	11	*	19*	8.3
13. Magnesium	8180	828(X)	9500	10500	9230	14500	10300	5830	26100	---	18800	32100
14. Manganese	170*	124*	779*	1130*	286*	868*	602*	1010*	1100*	---	690*	1330*
15. Mercury	0.36	0.22	---	---	---	---	0.35	---	---	---	---	---
16. Nickel	16(X)	7.3(X)	29	37	15(X)	18(X)	25	41	26	---	45	14(X)
17. Potassium	1400(X)	1730(X)	1560(X)	1510(X)	1150(X)	1350(X)	1940(X)	2710(X)	2280(X)	---	2690(X)	648(X)

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E = DATA NOT USEABLE
(IC) = INDICATOR COMPOUND

TABLE 3
SUMMARY OF SOIL BORINGS ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	SB3701	SB3702	SB37MS	SB3703	SB3704	SB3705	SB3801	SB3802	SB3803	SB3804	SB3805
1. Aluminum	18400*	21800*	12600*	14700*	11500*	6980*	5890*	11200*	12700*	14300*	10500*
2. Antimony	(R)	(R)	(R)	(R)	(R)	(R)	---	---	---	---	---
3. Arsenic	36	29	9.4	30	9.6	8.9	4.6X	9.5	35	13	14
4. Barium	83(X)	120(X)	71(X)	78(X)	92(X)	24(X)	36(X)	89(X)	147	6	97(X)
5. Beryllium	0.9(X)	1.5(X)	0.76(X)	1(X)	0.91(X)	0.38(X)	0.21(X)	0.37(X)	0.48(X)	0.55(X)	0.81(X)
6. Cadmium (IC)	8.3	8(X)	---	---	---	---	---	3.8	---	---	3.5
7. Calcium	2040(*,X)	12200*	87800*	75600*	69500*	84900*	113000	2550(X)	2160(X)	6900	20600
8. Chromium	30(*R)	29(*R)	21(*R)	28(*R)	21(*R)	13(*R)	13*	23*	27*	28*	24*
9. Cobalt	11(X)	18(X)	13(X)	16(X)	18(X)	11(X)	5.6(X)	7.3(X)	10(X)	10(X)	9.8(X)
10. Copper	60	42	57	67	36	30	16	34	46	39	33
11. Iron	37100*	40800*	28200*	34100*	31700*	22700*	10200*	26300*	41700*	37200*	31800*
12. Lead (IC)	29*	32*	25*	36*	12*	19*	55*	11	18	19*	22*
13. Magnesium	4190	5010	16500	15500	20100	31000	34800	2180(X)	3020(X)	4990	6430
14. Manganese	438*	723*	694*	756*	565*	497*	417	218	548	196	281
15. Mercury	0.93	---	---	---	---	---	0.11(X)	---	---	---	---
16. Nickel	32	39	35	39	40	29	11(X)	19(X)	24(X)	24(X)	20(X)
17. Potassium	1780(X)	2050(X)	1870(X)	2090(X)	1740(X)	1660(X)	876(X)	1470(X)	2460(X)	3720	1940(X)

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TABLE 3
SUMMARY OF SOIL BORINGS ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	SB3901	SB3902	SB3903	SB39DP	SB3904	SB3905	SB4001	SB4002	SB4003	SB4004	SB4005
1. Aluminum	7.92*	6370*	13800*	14200*	12400*	13200*	8840*	10100*	10800*	14000*	15700*
2. Antimony	---	---	---	---	---	---	---	---	---	---	---
3. Arsenic	3.7(X)	6.9	12	27	24	12	11	8.6	25	38	9.2
4. Barium	6.8(X)	58(X)	99(X)	85(X)	70(X)	66(X)	116	58(X)	36(X)	84(X)	73(X)
5. Beryllium	---	0.29(X)	0.68(X)	0.81(X)	0.71(X)	0.66(X)	0.36(X)	0.22(X)	0.95(X)	0.39(X)	0.79(X)
6. Cadmium (IC)	---	3.2	2.9(X)	3.4	2.6(X)	3.2	4.7	2.8(X)	5.2	---	3.7
7. Calcium	161000	137000	40200	46000	128000	40400	35900	30000	117000	6890	93000
8. Chromium	32*	55*	34*	41*	19*	36*	49*	12*	15	31*	21*
9. Cobalt	---	7.6(X)	9.7(X)	9.5(X)	12(X)	12(X)	8.3(X)	7.4(X)	19(X)	9.7(X)	11(X)
10. Copper	6.8(X)	16	27	26	25	37	39	16	38	54	22
11. Iron	2740*	14000*	16400*	19300*	24300*	25800*	20700*	17400*	18300*	42900*	24600*
12. Lead (IC)	6.3	19*	64*	43*	11	28*	143*	14	8.7	22*	18
13. Magnesium	86000	11400	7500	12600	21200	11700	10500	8490	36000	3430	23700
14. Manganese	109	647	238	317	701	583	415	363	1280	181	584
15. Mercury	0.78	0.98	0.096(X)	0.12(X)	---	---	---	---	---	---	---
16. Nickel	---	14(X)	16(X)	20(X)	24	24	19(X)	12(X)	26	21(X)	22(X)
17. Potassium	---	1640(X)	3270	2740(X)	3060	2550(X)	1220(X)	913(X)	3050	4960	3720

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TABLE 3
SUMMARY OF SOIL BORINGS ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	SBCP01	SBCP02	SBCP03	SBCPDP	SBCP04	SBCP05
1. Aluminum	8540	13700	10200	9850	12900	6020
2. Antimony	---	--	---	---	---	---
3. Arsenic	41	40	12	36	13	12
4. Barium	78(X)	88(X)	83(X)	67(X)	75(X)	20(X)
5. Beryllium	0.43(X)	1.13(X)	0.73(X)	0.63(X)	0.79(X)	0.55(X)
6. Cadmium (IC)	3.9	3.1(X)	---	---	3.2	---
7. Calcium	70300	65000	80200	71200	70700	104000
8. Chromium	66	28	19	19	21	11
9. Cobalt	6(X)	22(X)	13(X)	15(X)	13(X)	7.5(X)
10. Copper	41	31	25	26	26	22
11. Iron	45600*	55900*	26700*	30300*	26800*	20300*
12. Lead (IC)	79*	39*	54*	24*	15	12
13. Magnesium	3310)X)	12800	17600	21500	19300	35900
14. Manganese	91	1040	503	431	422	508
15. Mercury	---	---	---	---	---	---
16. Nickel	19(X)	52	32	35	34	22(X)
17. Potassium	2670(X)	2380(X)	1990(X)	1920(X)	2880(X)	1610(X)

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TABLE 3
SUMMARY OF SOIL BORINGS ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	SB3501	SB3502	SB3503	SB35DP	SB3504	SB3505	SB3601	SB3602	SB3603	SB36MS	SB3604	SB3605
18. Selenium	E, (R)	E, (R)	E, (R)	E, (R)	E, (R)	E, (R)	E, (R)	E, (R)	E, (R)	E, (R)	E, (R)	E, (R)
19. Silver	3(X)	2.2(X)	3(X)	3(X)	—	—	2.9(X)	3.2(X)	3.5(X)	—	2.7(X)	—
20. Sodium	1510(X)	1690(X)	1650(X)	1230(X)	1130(X)	1470(X)	1600(X)	1130(X)	3600	—	2380(X)	3010
21. Thallium	—	—	—	—	—	—	—	—	—	—	—	—
22. Tin	—	142	—	—	—	—	—	—	—	—	—	9.6(X)
23. Vanadium	38	32	31	33	22(X)	28(X)	41	44	25(X)	—	38	50
24. Zinc	182*	37*	481*	802*	100*	78*	164*	148*	67*	*	90*	—
25. Cyanide	5.1(R)	(R)	(R)	(R)	(R)	(R)	10(R)	(R)	(R)	(R)	(R)	(R)
26. Fluoride (ID)	370	241	306	155	56	50	82	107	147	—	125	476

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TABLE 3
SUMMARY OF SOIL BORINGS ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	SB3701	SB3702	SB37MS	SB3703	SB3704	SB3705	SB3801	SB3802	SB3803	SB3804	SB3805
18. Selenium	E,(R)	E,(R)	E,(R)	E,(R)	E,(R)	E,(R)	---	---	---	---	---
19. Silver	2.9(X)	3.3(X)	1.9(X)	---	2.3(X)	2.4(X)	---	---	2.9(X,R)	3.(X,R)	2.8(X,R)
20. Sodium	1190(X)	1470(X)	2320(X)	2260(X)	2260(X)	2040(X)	---	---	---	---	---
21. Thallium	---	---	---	---	---	---	---	---	---	---	---
22. Tin	---	---	---	---	---	---	---	---	---	---	---
23. Vanadium	54	45	30	40	30(X)	19(X)	13(X)	38	53	51	40
24. Zinc	141*	158*	135*	159*	89*	76*	103	75	95	84	90
25. Cyanide	1.1(R)	(R)	(R)	(R)	(R)	(R)	---	---	---	---	---
26. Fluoride (IC)	357	513	494	459	268	337	141	95	147	192	129

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TABLE 3
SUMMARY OF SOIL BORINGS ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	SB3901	SB3902	SB3903	SB39DP	SB3904	SB3905	SB4001	SB4002	SB4003	SB4004	SB4005
18. Selenium	---	---	---	---	---	---	---	---	---	---	---
19. Silver	---	2.2(X,R)	2.3(X,R)	3.1(X,R)	2.7(X,R)	2.2(X,R)	3.3(X,R)	1.8(X,R)	2.4(X,R)	4.4(X,R)	2.2(X,R)
20. Sodium	644(X)	---	---	---	---	---	---	---	---	---	---
21. Thallium	---	---	---	---	---	---	---	---	---	---	---
22. Tin	---	---	---	---	---	---	15(X)	---	---	---	---
23. Vanadium	5.6(X)	18(X)	37	38	29	35	27(X)	26(X)	23(X)	71	38
24. Zinc	4.5(X)	64	101	93	63	81	110	46	453	101	60
25. Cyanide	---	---	---	---	---	---	1.5	---	---	---	---
26. Fluoride (IC)	189	330	369	659	175	221	100	386	306	118	205

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TABLE 3
SUMMARY OF SOIL BORINGS ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	SBCP01	SBCP02	SBCP03	SBCPDP	SBCP04	SBCP05
18. Selenium	E,(R)	E,(R)	---	E,(R)	---	---
19. Silver	3.4(X,R)	2.9(X,R)	---	---	2.1(X)	---
20. Sodium	2100(X)	2130(X)	2360(X)	2500(X)	2200(X)	2940(X)
21. Thallium	---	---	---	---	---	---
22. Tin	---	---	---	---	---	---
23. Vanadium	58	45	26(X)	24(X)	31	19(X)
24. Zinc	68	200	78	32	30	64
25. Cyanide	---	---	---	---	---	---
26. Fluoride (ID)	102	188	85	167	150	132

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TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA
PRISTINE, INC.

Volatiles-Round 1 (ug/l)	GW4501	GW4601	GW4701	GW4801	GW48BK	GW4901	GW5001	GW5101	GW510P
1. Chloroethane	---	---	---	---	---	---	---	---	---
2. Bromoethane	---	---	---	---	---	---	---	---	---
3. Vinyl chloride	6.3	830	---	---	---	11 J	---	120	---
4. Chloroethane	---	---	---	---	---	---	380	1200 J	---
5. Methylene Chloride	2300 B,J	15000B,J	8700 B	1500 B	1600 B	1500 B,J	73	210	190000B,J
6. Acetone	160 B	21000B,J	11000B,J	350 B	630 B	1200 B,J	390	910	43000 B
7. Carbon Disulfide	---	170	---	---	---	---	---	---	---
8. 1,1-Dichloroethene	7.3	150 J	---	---	---	---	---	---	---
9. 1,1-Dichloroethane	4.6 J	1900 J	---	---	---	---	790	3000 J	---
10. trans-1,2-Dichloroethene	7.6	160	---	---	---	11 J	---	56	---
11. Chloroform	1300 J	11000J	---	---	---	920	---	---	---
12. 1,2-Dichloroethane	940 J	12000J	630	---	---	910	---	44	---
13. 2-Butanone	---	28000J	---	---	---	700	---	---	---
14. 1,1,1-Trichloroethane	18	350	---	---	---	---	---	---	---
15. Carbon Tetrachloride	---	---	---	---	---	---	---	---	---
16. Vinyl Acetate	---	---	---	---	---	---	---	---	---
17. Bromodichloromethane	---	---	---	---	---	---	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	31	---	---	---	---	---	---	---
19. 1,2-Dichloropropane	---	---	---	---	---	---	---	---	---
20. trans-1,3-Dichloropropene	---	---	---	---	---	---	---	---	---
21. Trichloroethene	13	1100 J	---	---	---	63	---	---	---
22. Dibromochloromethane	---	---	---	---	---	---	---	---	---
23. 1,1,2-Trichloroethane	2100 J	2300 J	---	---	---	4500 J	---	---	---
24. Benzene	6100 J	22000 J	---	---	---	19000 J	---	---	---
25. cis-1,3-Dichloropropene	---	---	---	---	---	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	---	---	---	---	---	---	---
27. Bromoform	---	---	---	---	---	---	---	---	---
28. 2-Hexanone	---	250	---	---	---	---	---	---	---
29. 4-Methyl-2-pentanone	---	4300 J	---	---	---	10000J	---	---	---
30. Tetrachloroethene	12	190	---	---	---	31	15 J	---	---
31. Toluene	5000 J	27000 J	180 B	---	---	27000 J	---	61	---
32. Chlorobenzene	410	540	---	---	---	1000	---	---	---
33. Ethyl Benzene	68	951	---	56 J	---	1800 J	---	---	---
34. Styrene	8.3	---	---	130	---	154	---	---	---
35. Total Xylenes	522	4500 J	---	270 B	---	8000 J	---	---	---

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J = INDICATES AN ESTIMATED VALUE
NS = NOT SAMPLED
NA = SAMPLED, BUT FRACTION NOT ANALYZED

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA
PRISTINE, INC.

Volatiles-Round 1 (ug/l)	GW5201	GW5301	GW5401	GW5501	GW5601	GW5701	GW57DP
1. Chloromethane	---	---	NS	---	---	---	---
2. Bromomethane	---	---	NS	---	---	---	---
3. Vinyl chloride	---	180	NS	---	210	---	---
4. Chloroethane	---	---	NS	---	---	---	---
5. Methylene Chloride	21 J	50	NS	140 B	250 B	18 B	9 B
6. Acetone	790	160	NS	9300B,J	1200B,J	98000B	130 B
7. Carbon Disulfide	---	---	NS	---	---	---	---
8. 1,1-Dichloroethene	---	---	NS	270	9.3 J	---	---
9. 1,1-Dichloroethane	---	---	NS	640 J	18 J	---	---
10. trans-1,2-Dichloroethene	---	1200 J	NS	59	9.7 J	---	---
11. Chloroform	---	---	NS	190	---	7.4	6.6
12. 1,2-Dichloroethane	---	2100 J	NS	150	1200 J	22	22
13. 2-Butanone	---	---	NS	41	---	---	---
14. 1,1,1-Trichloroethane	---	---	NS	2000 J	4.1 J	---	---
15. Carbon Tetrachloride	---	---	NS	---	---	---	---
16. Vinyl Acetate	---	---	NS	---	---	---	---
17. Bromodichloromethane	---	---	NS	---	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	---	NS	---	---	---	---
19. 1,2-Dichloropropane	---	---	NS	---	500	---	---
20. trans-1,3-Dichloropropene	---	---	NS	---	---	---	---
21. Trichloroethene	---	---	NS	3.7 J	13 J	---	---
22. Dibromochloromethane	---	---	NS	---	---	---	---
23. 1,1,2-Trichloroethane	---	---	NS	6.8	5200 J	---	---
24. Benzene	---	---	NS	16.5	2300 J	2.7 J	---
25. cis-1,3-Dichloropropene	---	---	NS	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	NS	---	---	---	---
27. Bromoform	---	---	NS	---	---	---	---
28. 2-Hexanone	---	---	NS	---	1500 J	---	---
29. 4-Methyl-2-pentanone	---	---	NS	---	2300 J	---	---
30. Tetrachloroethene	---	---	NS	180	9.4 J	---	---
31. Toluene	---	---	NS	180	3800 J	---	---
32. Chlorobenzene	---	---	NS	---	29	---	---
33. Ethyl Benzene	---	---	NS	---	290	---	---
34. Styrene	---	---	NS	---	---	---	---
35. Total Xylenes	---	---	NS	---	1700 J	---	---

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NS = NOT SAMPLED
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TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA
PRISTINE, INC.

Volatiles-Round 1 (ug/l)	GW5801	GW5901	GW6001	GW60BK	GW6101	GW6201
1. Chloromethane	---	---	---	---	NS	---
2. Bromomethane	---	---	---	---	NS	---
3. Vinyl chloride	---	31	58	---	NS	---
4. Chloroethane	---	---	---	---	NS	---
5. Methylene Chloride	7.3 B	74 B	190 B	140 B	NS	71 B
6. Acetone	130000B	66000B	740 B	380 B	NS	66 B
7. Carbon Disulfide	---	---	---	---	NS	---
8. 1,1-Dichloroethene	38	---	---	---	NS	---
9. 1,1-Dichloroethane	15	11	16 J	---	NS	44
10. trans-1,2-Dichloroethene	---	2.5 J	---	---	NS	120
11. Chloroform	950	20	27	---	NS	27
12. 1,2-Dichloroethane	6.5	250	280	---	NS	120
13. 2-Butanone	---	---	---	---	NS	---
14. 1,1,1-Trichloroethane	6100	---	---	---	NS	150
15. Carbon Tetrachloride	---	---	---	---	NS	---
16. Vinyl Acetate	---	---	---	---	NS	---
17. Bromodichloromethane	---	---	---	---	NS	---
18. 1,1,2,2-Tetrachloroethane	3.8 J	---	---	---	NS	---
19. 1,2-Dichloropropane	---	---	---	---	NS	---
20. trans-1,3-Dichloropropene	---	---	---	---	NS	---
21. Trichloroethene	3.9 J	---	---	---	NS	14 J
22. Dibromochloromethane	---	---	---	---	NS	---
23. 1,1,2-Trichloroethane	55	---	---	---	NS	---
24. Benzene	4.3 J	6.9	21 J	---	NS	---
25. cis-1,3-Dichloropropene	---	---	---	---	NS	---
26. 2-Chloroethyl Vinyl Ether	---	---	---	---	NS	---
27. Bromoform	---	---	---	---	NS	---
28. 2-Hexanone	---	---	---	---	NS	---
29. 4-Methyl-2-pentanone	---	13	---	---	NS	---
30. Tetrachloroethene	1600	---	---	---	NS	32
31. Toluene	---	48	140	2.7 J	NS	2.4 J
32. Chlorobenzene	---	5.5	---	---	NS	---
33. Ethyl Benzene	---	---	42	---	NS	---
34. Styrene	---	---	---	---	NS	---
35. Total Xylenes	---	---	---	---	NS	3.7 J

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SUMMARY OF GROUNDWATER ANALYTICAL DATA
PRISTINE, INC.

Volatiles-Round 2 (ug/l)	GW4502	GW4602	GW4702	GW4802	GW48BK	GW4902	GW5002	GW5102	GW51DP
1. Chloromethane	---	---	NA	---	---	---	---	---	---
2. Bromomethane	---	---	NA	---	---	---	---	---	---
3. Vinyl Chloride	---	---	NA	---	---	---	19J	200	220
4. Chloroethane	---	---	NA	---	---	---	210	780	770
5. Methylene Chloride	4500B	41000B	NA	510B	620B	170000B	65	200B	210B
6. Acetone	1500B	510000B	NA	7200B	1700BS	35000B	96000B	890B	1000B
7. Carbon Disulfide	---	---	NA	---	---	---	---	---	---
8. 1,1-Dichloroethene	---	---	NA	---	---	---	---	---	---
9. 1,1-Dichloroethane	---	---	NA	---	---	---	590	1800	1800
10. trans-1,2-Dichloroethene	---	---	NA	---	---	---	59	72	80
11. Chloroform	330	12000	NA	---	140	14000	---	---	---
12. 1,2-Dichloroethane	480	56000	NA	750	---	17000	10J	57	61
13. 2-Butanone	---	---	NA	---	---	---	---	---	---
14. 1,1,1-Trichloroethane	---	---	NA	---	---	---	---	40	47
15. Carbon Tetrachloride	---	---	NA	---	---	---	---	---	---
16. Vinyl Acetate	---	---	NA	---	---	---	---	---	---
17. Bromodichloromethane	---	---	NA	---	---	---	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	---	NA	---	---	---	---	---	---
19. 1,2-Dichloropropane	1300	---	NA	---	---	35000	---	---	---
20. trans-1,3-Dichloropropane	---	---	NA	---	---	---	---	---	---
21. Trichloroethene	---	1500J	NA	---	---	---	65	---	---
22. Dibromochloromethane	---	---	NA	---	---	---	---	---	---
23. 1,1,2-Trichloroethane	---	2000J	NA	---	---	---	---	---	---
24. Benzene	650	34000J	NA	---	---	12000J	---	34J	38J
25. cis-1,3-Dichloropropene	---	---	NA	---	---	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	NA	---	---	---	---	---	---
27. Bromoform	---	---	NA	---	---	---	---	---	---
28. 2-Hexanone	---	9200J	NA	---	---	---	---	31J	41J
29. 4-Methyl-2-Pentanone	---	---	NA	---	---	---	---	---	---
30. Tetrachloroethene	---	---	NA	---	---	---	---	---	---
31. Toluene	6000	88000	NA	---	---	8700	16J	89	99
32. Chlorobenzene	---	320J	NA	---	---	---	---	---	---
33. Ethyl Benzene	---	---	NA	---	---	---	---	---	---
34. Styrene	---	---	NA	---	---	---	---	---	---
35. Total Xylenes	61J	3000	NA	---	---	1500J	20J	---	---

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SUMMARY OF GROUNDWATER ANALYTICAL DATA
PRISTINE, INC.

Volatiles-Round 2 (ug/l)	GW5202	GW5302	GW5402	GW5501	GW5602	GW5702	GW57DP
1. Chloromethane	---	---	NS	NS	---	---	---
2. Bromomethane	---	---	NS	NS	---	---	---
3. Vinyl Chloride	---	790	NS	NS	---	---	---
4. Chloroethane	---	---	NS	NS	---	---	---
5. Methylene Chloride	8B	1240B	NS	NS	4300000B	630B	340B
6. Acetone	1200B	2900BJ	NS	NS	4.2E6B	1.4E5B	18000B
7. Carbon Disulfide	---	---	NS	NS	450J	---	---
8. 1,1-Dichloroethene	---	---	NS	NS	---	---	---
9. 1,1-Dichloroethane	---	---	NS	NS	---	---	---
10. trans-1,2-Dichloroethene	---	3100	NS	NS	---	---	---
11. Chloroform	---	29J	NS	NS	8100	---	27J
12. 1,2-Dichloroethane	---	3600	NS	NS	41000	70J	78J
13. 2-Butanone	---	---	NS	NS	---	---	---
14. 1,1,1-Trichloroethane	---	---	NS	NS	---	---	---
15. Carbon Tetrachloride	---	---	NS	NS	---	---	---
16. Vinyl Acetate	---	---	NS	NS	---	---	---
17. Bromodichloromethane	---	---	NS	NS	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	---	NS	NS	---	---	---
19. 1,2-Dichloropropane	---	---	NS	NS	92000	330J	210
20. trans-1,3-Dichloropropane	---	---	NS	NS	---	---	---
21. Trichloroethene	---	---	NS	NS	---	---	---
22. Dibromochloromethane	---	---	NS	NS	---	---	---
23. 1,1,2-Trichloroethane	---	---	NS	NS	---	---	---
24. Benzene	3J	---	NS	NS	3300J	---	---
25. cis-1,3-Dichloropropene	---	---	NS	NS	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	NS	NS	---	---	---
27. Bromoform	---	---	NS	NS	---	---	---
28. 2-Hexanone	---	---	NS	NS	9400J	---	---
29. 4-Methyl-2-Pentanone	---	---	NS	NS	---	---	---
30. Tetrachloroethene	---	---	NS	NS	---	---	---
31. Toluene	---	---	NS	NS	7500	---	---
32. Chlorobenzene	---	---	NS	NS	---	---	---
33. Ethyl Benzene	---	---	NS	NS	3300J	---	---
34. Styrene	---	---	NS	NS	---	---	---
35. Total Xylenes	---	12J	NS	NS	20000	490J	---

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PRISTINE, INC.

Volatiles-Round 2 (ug/l)	GW5802	GW5902	GW6002	GW60BK	GW6101	GW6202
1. Chloromethane	---	---	---	---	---	---
2. Bromomethane	---	---	---	---	---	---
3. Vinyl Chloride	---	---	17J	---	---	7J
4. Chloroethane	---	---	---	---	---	---
5. Methylene Chloride	1100B	440B	93B	18BJ	8	5
6. Acetone	26000BJ	4000BJ	---	76BJ	3400B	13000B
7. Carbon Disulfide	---	---	---	---	---	---
8. 1,1-Dichloroethene	---	---	---	---	---	---
9. 1,1-Dichloroethane	---	---	---	---	---	25
10. trans-1,2-Dichloroethene	---	---	---	---	---	19
11. Chloroform	1100	---	---	---	10	---
12. 1,2-Dichloroethane	63J	580	120	---	11	27
13. 2-Butanone	---	---	---	---	---	---
14. 1,1,1-Trichloroethane	790	---	---	---	---	8
15. Carbon Tetrachloride	---	---	---	---	---	---
16. Vinyl Acetate	---	---	---	---	---	---
17. Bromodichloromethane	---	---	---	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	---	---	---	---	---
19. 1,2-Dichloropropane	---	300	---	---	---	---
20. trans-1,3-Dichloropropane	---	---	---	---	---	---
21. Trichloroethene	---	---	---	---	---	9
22. Dibromochloromethane	---	---	---	---	---	---
23. 1,1,2-Trichloroethane	---	---	---	---	---	---
24. Benzene	---	---	---	---	---	---
25. cis-1,3-Dichloropropene	---	---	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	---	---	---	---
27. Bromoform	---	---	---	---	---	---
28. 2-Hexanone	---	---	---	---	---	---
29. 4-Methyl-2-Pentanone	---	---	---	---	---	---
30. Tetrachloroethene	490	---	---	---	2J	4J
31. Toluene	---	---	---	8	---	---
32. Chlorobenzene	---	---	---	---	---	---
33. Ethyl Benzene	---	---	---	---	---	---
34. Styrene	---	---	---	---	---	---
35. Total Xylenes	---	---	---	---	---	---

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PRISTINE, INC.

Semi-Volatiles-Round 1 (ug/l)	GW4501	GW4601	GW4701	GW4B01	GW48BK	GW4901	GW5001	GW5101	GW51DP
36. N-Nitrosodimethylamine	---	---	NA	---	---	---	NA	---	---
37. Phenol	---	---	NA	---	---	---	NA	---	NA
38. Aniline	---	---	NA	---	---	---	NA	---	---
39. bis(2-Chloroethyl) ether	---	---	NA	---	---	---	NA	---	---
40. 2-Chlorophenol	---	---	NA	---	---	---	NA	---	NA
41. 1,3-Dichlorobenzene	---	---	NA	---	---	---	NA	---	---
42. 1,4-Dichlorobenzene	6 J	---	NA	---	---	11 J	NA	---	NA
43. Benzyl Alcohol	---	---	NA	---	---	---	NA	---	---
44. 1,2-Dichlorobenzene	560	37	NA	---	---	960	NA	---	---
45. 2-Methylphenol	---	---	NA	---	---	---	NA	---	---
46. bis(2-Chloroisopropyl) ether	---	---	NA	---	---	---	NA	---	---
47. 4-Methylphenol	---	---	NA	---	---	---	NA	---	---
48. n-Nitroso-Dipropylamine	---	---	NA	---	---	---	NA	---	NA
49. Hexachloroethane	---	---	NA	---	---	---	NA	96	---
50. Nitrobenzene	---	---	NA	---	---	1200	NA	120	---
51. Isophorone	---	---	NA	---	---	27	NA	---	---
52. 2-Nitrophenol	---	---	NA	---	---	---	NA	---	---
53. 2,4-Dimethylphenol	---	---	NA	---	---	---	NA	580	---
54. Benzoic Acid	---	---	NA	---	---	---	NA	---	---
55. bis(2-Chloroethoxy) methane	---	---	NA	---	---	---	NA	---	---
56. 2,4-Dichlorophenol	---	---	NA	---	---	---	NA	---	---
57. 1,2,4-Trichlorobenzene	---	---	NA	---	---	---	NA	---	NA
58. Naphthalene	---	---	NA	---	---	---	NA	---	---
59. 4-Chloroaniline	---	---	NA	---	---	---	NA	---	---
60. Hexachlorobutadiene	---	---	NA	---	---	---	NA	---	---
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	NA	---	---	---	NA	---	NA
62. 2-Methylnaphthalene	---	---	NA	---	---	---	NA	---	---
63. Hexachlorocyclopentadiene	---	---	NA	---	---	---	NA	---	---
64. 2,4,6-Trichlorophenol	---	---	NA	---	---	---	NA	---	---
65. 2,4,5-Trichlorophenol	---	---	NA	---	---	---	NA	---	---
66. 2-Chloronaphthalene	---	---	NA	---	---	---	NA	---	---
67. 2-Nitroaniline	---	---	NA	---	---	---	NA	---	---
68. Dimethyl Phthalate	---	---	NA	---	---	---	NA	38	---
69. Acenaphthylene	---	---	NA	---	---	---	NA	---	---
70. 3-Nitroaniline	---	---	NA	---	---	---	NA	---	---

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PRISTINE, INC.

Semi-Volatiles-Round 1 (ug/l)	GW5201	GW5301	GW5401	GW5501	GW5601	GW5701	GW57DP
36. N-Nitrosodimethylamine	---	---	NS	---	---	---	---
37. Phenol	---	---	NS	---	---	---	---
38. Aniline	---	---	NS	---	---	---	---
39. bis(2-Chloroethyl) ether	---	---	NS	---	---	---	---
40. 2-Chlorophenol	---	---	NS	---	---	---	---
41. 1,3-Dichlorobenzene	---	---	NS	---	---	---	---
42. 1,4-Dichlorobenzene	---	---	NS	---	---	---	---
43. Benzyl Alcohol	---	---	NS	---	---	---	---
44. 1,2-Dichlorobenzene	---	---	NS	---	---	---	---
45. 2-Methylphenol	---	---	NS	---	---	---	---
46. bis(2-Chloroisopropyl) ether	---	---	NS	---	---	---	---
47. 4-Methylphenol	---	---	NS	---	---	---	---
48. n-Nitroso-Dipropylamine	---	---	NS	---	---	---	---
49. Hexachloroethane	---	---	NS	96	---	---	---
50. Nitrobenzene	---	---	NS	---	---	---	---
51. Isophorone	50	---	NS	---	---	---	---
52. 2-Nitrophenol	---	---	NS	---	---	---	---
53. 2,4-Dimethylphenol	---	---	NS	---	---	---	---
54. Benzoic Acid	---	---	NS	---	---	---	---
55. bis(2-Chloroethoxy) methane	---	---	NS	---	---	---	---
56. 2,4-Dichlorophenol	---	---	NS	---	---	---	---
57. 1,2,4-Trichlorobenzene	---	---	NS	---	---	---	---
58. Naphthalene	---	---	NS	---	---	---	---
59. 4-Chloroaniline	---	---	NS	---	---	---	---
60. Hexachlorobutadiene	---	---	NS	---	---	---	---
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	NS	---	---	---	---
62. 2-Methylnaphthalene	---	---	NS	---	---	---	---
63. Hexachlorocyclopentadiene	---	---	NS	---	---	---	---
64. 2,4,6-Trichlorophenol	---	---	NS	---	---	---	---
65. 2,4,5-Trichlorophenol	---	---	NS	---	---	---	---
66. 2-Chloronaphthalene	---	---	NS	---	---	---	---
67. 2-Nitroaniline	---	---	NS	---	---	---	---
68. Dimethyl Phthalate	---	---	NS	---	---	---	---
69. Acenaphthylene	---	---	NS	---	---	---	---
70. 3-Nitroaniline	---	---	NS	---	---	---	---

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PRISTINE, INC.

Semi-Volatiles-Round 1 (ug/l)	GW5801	GW5901	GW6001	GW60BK	GW6101	GW6201
36. N-Nitrosodimethylamine	---	---	---	---	NS	---
37. Phenol	---	---	---	---	NS	---
38. Aniline	---	---	---	---	NS	---
39. bis(2-Chloroethyl) ether	---	---	---	---	NS	---
40. 2-Chlorophenol	---	---	---	---	NS	---
41. 1,3-Dichlorobenzene	---	---	---	---	NS	---
42. 1,4-Dichlorobenzene	---	---	---	---	NS	---
43. Benzyl Alcohol	---	---	---	---	NS	---
44. 1,2-Dichlorobenzene	---	27	54	---	NS	---
45. 2-Methylphenol	---	---	---	---	NS	---
46. bis(2-Chloroisopropyl) ether	---	---	---	---	NS	---
47. 4-Methylphenol	---	17	28	---	NS	---
48. n-Nitroso-Dipropylamine	---	---	---	---	NS	---
49. Hexachloroethane	---	---	---	---	NS	---
50. Nitrobenzene	---	---	---	---	NS	---
51. Isophorone	---	---	---	---	NS	---
52. 2-Nitrophenol	---	---	---	---	NS	---
53. 2,4-Dimethylphenol	---	---	---	---	NS	---
54. Benzoic Acid	---	---	---	---	NS	---
55. bis(2-Chloroethoxy) methane	---	---	---	---	NS	---
56. 2,4-Dichlorophenol	---	---	---	---	NS	---
57. 1,2,4-Trichlorobenzene	---	---	---	---	NS	---
58. Naphthalene	---	---	---	---	NS	---
59. 4-Chloroaniline	---	---	---	---	NS	---
60. Hexachlorobutadiene	---	---	---	---	NS	---
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	---	---	NS	---
62. 2-Methylnaphthalene	---	---	---	---	NS	---
63. Hexachlorocyclopentadiene	---	---	---	---	NS	---
64. 2,4,6-Trichlorophenol	---	---	---	---	NS	---
65. 2,4,5-Trichlorophenol	---	---	---	---	NS	---
66. 2-Chloronaphthalene	---	---	---	---	NS	---
67. 2-Nitroaniline	---	---	---	---	NS	---
68. Dimethyl Phthalate	---	---	---	---	NS	---
69. Acenaphthylene	---	---	---	---	NS	---
70. 3-Nitroaniline	---	---	---	---	NS	---

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PRISTINE, INC.

Semi-Volatiles-Round 2 (ug/l)	GW4502	GW4602	GW4702	GW4802	GW48BK	GW4902	GW5002	GW5102	GW51DP
36. N-Nitrosodimethylamine	---	---	NA	---	---	---	---	---	---
37. Phenol	---	---	NA	---	---	4500	---	---	---
38. Aniline	---	---	NA	---	---	---	---	---	---
39. bis(2-Chloroethyl) ether	---	---	NA	---	---	---	---	---	---
40. 2-Chlorophenol	---	---	NA	---	---	---	---	---	---
41. 1,3-Dichlorobenzene	---	---	NA	---	---	---	---	---	---
42. 1,4-Dichlorobenzene	---	---	NA	---	---	17B	---	---	---
43. Benzyl Alcohol	---	---	NA	---	---	---	---	---	---
44. 1,2-Dichlorobenzene	240B	310B	NA	---	---	1300B	---	---	---
45. 2-Methylphenol	49	---	NA	---	---	---	---	---	---
46. bis(2-Chloroisopropyl) ether	---	---	NA	---	---	---	---	---	---
47. 4-Methylphenol	5J	---	NA	---	---	---	---	---	---
48. n-Nitroso-Dipropylamine	---	---	NA	---	---	---	---	---	---
49. Hexachloroethane	---	---	NA	---	---	---	---	---	---
50. Nitrobenzene	---	---	NA	---	---	---	---	---	---
51. Isophorone	---	---	NA	---	---	---	---	---	---
52. 2-Nitrophenol	---	---	NA	---	---	---	---	---	---
53. 2,4-Dimethylphenol	---	---	NA	---	---	---	---	---	---
54. Benzoic Acid	21J	---	NA	---	---	---	---	---	---
55. bis(2-Chloroethoxy) methane	---	---	NA	---	---	---	---	---	---
56. 2,4-Dichlorophenol	---	---	NA	---	---	---	---	---	---
57. 1,2,4-Trichlorobenzene	---	---	NA	---	---	---	---	---	---
58. Naphthalene	---	---	NA	---	---	---	---	---	---
59. 4-Chloroaniline	---	---	NA	---	---	---	---	---	---
60. Hexachlorobutadiene	---	---	NA	---	---	---	---	---	---
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	NA	---	---	---	---	---	---
62. 2-Methylnaphthalene	---	---	NA	---	---	---	---	---	---
63. Hexachlorocyclopentadiene	---	---	NA	---	---	---	---	---	---
64. 2,4,6-Trichlorophenol	---	---	NA	---	---	---	---	---	---
65. 2,4,5-Trichlorophenol	---	---	NA	---	---	---	---	---	---
66. 2-Chloronaphthalene	---	---	NA	---	---	---	---	---	---
67. 2-Nitroaniline	---	---	NA	---	---	---	---	---	---
68. Dimethyl Phthalate	---	---	NA	---	---	---	---	---	---
69. Acenaphthylene	---	---	NA	---	---	---	---	---	---
70. 3-Nitroaniline	---	---	NA	---	---	---	---	---	---

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PRISTINE, INC.

Semi-Volatiles-Round 2 (ug/l)	GW5202	GW5302	GW5402	GW5502	GW5002	GW5701	GW57DP
36. N-Nitrosodimethylamine	---	---	NS	NS	NA	---	---
37. Phenol	---	---	NS	NS	NA	---	---
38. Aniline	---	---	NS	NS	NA	---	---
39. bis(2-Chloroethyl) ether	---	---	NS	NS	NA	---	---
40. 2-Chlorophenol	---	---	NS	NS	NA	---	---
41. 1,3-Dichlorobenzene	---	---	NS	NS	NA	---	---
42. 1,4-Dichlorobenzene	---	---	NS	NS	NA	---	---
43. Benzyl Alcohol	---	---	NS	NS	NA	---	---
44. 1,2-Dichlorobenzene	---	---	NS	NS	NA	---	---
45. 2-Methylphenol	---	---	NS	NS	NA	---	---
46. bis(2-Chloroisopropyl) ether	---	---	NS	NS	NA	---	---
47. 4-Methylphenol	---	---	NS	NS	NA	---	---
48. n-Nitroso-Dipropylamine	---	---	NS	NS	NA	---	---
49. Hexachloroethane	---	---	NS	NS	NA	---	---
50. Nitrobenzene	---	---	NS	NS	NA	---	---
51. Isophorone	---	---	NS	NS	NA	---	---
52. 2-Nitrophenol	---	---	NS	NS	NA	---	---
53. 2,4-Dimethylphenol	---	---	NS	NS	NA	---	---
54. Benzoic Acid	---	11J	NS	NS	NA	---	---
55. bis(2-Chloroethoxy) methane	---	---	NS	NS	NA	---	---
56. 2,4-Dichlorophenol	---	---	NS	NS	NA	---	---
57. 1,2,4-Trichlorobenzene	---	---	NS	NS	NA	---	---
58. Naphthalene	---	---	NS	NS	NA	---	---
59. 4-Chloroaniline	---	---	NS	NS	NA	---	---
60. Hexachlorobutadiene	---	---	NS	NS	NA	---	---
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	NS	NS	NA	---	---
62. 2-Methylnaphthalene	---	---	NS	NS	NA	---	---
63. Hexachlorocyclopentadiene	---	---	NS	NS	NA	---	---
64. 2,4,6-Trichlorophenol	---	---	NS	NS	NA	---	---
65. 2,4,5-Trichlorophenol	---	---	NS	NS	NA	---	---
66. 2-Chloronaphthalene	---	---	NS	NS	NA	---	---
67. 2-Nitroaniline	---	---	NS	NS	NA	---	---
68. Dimethyl Phthalate	---	---	NS	NS	NA	---	---
69. Acenaphthylene	---	---	NS	NS	NA	---	---
70. 3-Nitroaniline	---	---	NS	NS	NA	---	---

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PRISTINE, INC.

Semi-Volatiles-Round 2 (ug/l)	GW5802	GW5902	GW6002	GW60BK	GW6101	GW6202
36. N-Nitrosodimethylamine	---	---	---	---	NA	---
37. Phenol	---	---	---	---	NA	---
38. Aniline	---	---	---	---	NA	---
39. bis(2-Chloroethyl) ether	---	---	---	---	NA	---
40. 2-Chlorophenol	---	---	---	---	NA	---
41. 1,3-Dichlorobenzene	---	---	---	---	NA	---
42. 1,4-Dichlorobenzene	---	---	---	---	NA	---
43. Benzyl Alcohol	---	---	---	---	NA	---
44. 1,2-Dichlorobenzene	---	---	84B	---	NA	---
45. 2-Methylphenol	---	---	---	---	NA	---
46. bis(2-Chloroisopropyl) ether	---	---	---	---	NA	---
47. 4-Methylphenol	---	---	4B	---	NA	---
48. n-Nitroso-Dipropylamine	---	---	---	---	NA	---
49. Hexachloroethane	---	---	---	---	NA	---
50. Nitrobenzene	---	---	---	---	NA	---
51. Isophorone	---	---	---	---	NA	---
52. 2-Nitrophenol	---	---	---	---	NA	---
53. 2,4-Dimethylphenol	---	---	---	---	NA	---
54. Benzoic Acid	---	---	---	---	NA	---
55. bis(2-Chloroethoxy) methane	---	---	---	---	NA	---
56. 2,4-Dichlorophenol	---	---	---	---	NA	---
57. 1,2,4-Trichlorobenzene	---	---	---	---	NA	---
58. Naphthalene	---	---	---	---	NA	---
59. 4-Chloroaniline	---	---	---	---	NA	---
60. Hexachlorobutadiene	---	---	---	---	NA	---
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	---	---	NA	---
62. 2-Methylnaphthalene	---	---	---	---	NA	---
63. Hexachlorocyclopentadiene	---	---	---	---	NA	---
64. 2,4,6-Trichlorophenol	---	---	---	---	NA	---
65. 2,4,5-Trichlorophenol	---	---	---	---	NA	---
66. 2-Chloronaphthalene	---	---	---	---	NA	---
67. 2-Nitroaniline	---	---	---	---	NA	---
68. Dimethyl Phthalate	---	---	---	---	NA	---
69. Acenaphthylene	---	---	---	---	NA	---
70. 3-Nitroaniline	---	---	---	---	NA	---

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PRISTINE, INC.

Semi-Volatiles-Round 1 (ug/l)	GW4501	GW4601	GW4701	GW4801	GW4BBK	GW4901	GW5001	GW5101	GW51DP
71. Acenaphthene	---	---	NA	---	---	---	NA	---	NA
72. 2,4-Dinitrophenol	---	---	NA	---	---	---	NA	---	---
73. 4-Nitrophenol	---	---	NA	---	---	---	NA	---	NA
74. Dibenzofuran	---	---	NA	---	---	---	NA	---	---
75. 2,4-Dinitrotoluene	---	---	NA	---	---	---	NA	---	NA
76. 2,6-Dinitrotoluene	---	42	NA	---	---	---	NA	---	---
77. Diethylphthalate	---	---	NA	---	---	---	NA	---	---
78. 4-Chlorophenyl Phenyl ether	---	---	NA	---	---	---	NA	---	---
79. Fluorene	---	---	NA	---	---	---	NA	---	---
80. 4-Nitroaniline	---	---	NA	---	---	---	NA	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	NA	---	---	---	NA	---	---
82. N-nitrosodiphenylamine	---	---	NA	---	---	---	NA	---	---
83. 4-Bromophenyl Phenyl ether	---	---	NA	---	---	---	NA	---	---
84. Hexacholorobenzene	---	---	NA	---	---	---	NA	---	---
85. Pentachlorophenol	---	---	NA	---	---	---	NA	---	NA
86. Phenanthrene	---	---	NA	---	---	---	NA	---	---
87. Anthracene	---	---	NA	---	---	---	NA	---	---
88. Di-n-butylphthalate	---	---	NA	---	---	---	NA	---	NA
89. Fluoranthene	---	---	NA	---	---	---	NA	---	---
90. Benzidine	---	---	NA	---	---	---	NA	---	---
91. Pyrene	---	---	NA	---	---	---	NA	---	NA
92. Butyl Benzyl Phthalate	---	---	NA	---	2.6 J	---	NA	---	---
93. 3,3'-Dichlorobenzidine	---	---	NA	---	---	---	NA	---	---
94. Benzo(a)anthracene	---	---	NA	---	---	---	NA	---	---
95. bis(2-ethylhexyl)phthalate	11 B	---	NA	24	5.6 J	---	NA	---	---
96. Chrysene	---	---	NA	---	---	---	NA	---	---
97. Di-n-octyl Phthalate	---	---	NA	---	---	---	NA	---	---
98. Benzo(b)fluoranthene	---	---	NA	---	---	---	NA	---	---
99. Benzo(k)fluoranthene	---	---	NA	---	---	---	NA	---	---
100. Benzo(a)pyrene	---	---	NA	---	---	---	NA	---	---
101. Ideno(1,2,3-cd)pyrene	---	---	NA	---	---	---	NA	---	---
102. Dibenz(a,h)anthracene	---	---	NA	---	---	---	NA	---	---
103. Benzo(g,h,i)perylene	---	---	NA	---	---	---	NA	---	---

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PRISTINE, INC.

Semi-Volatiles-Round 1 (ug/l)	GW5201	GW5301	GW5401	GW5501	GW5601	GW5701	GW57DP
71. Acenaphthene	---	---	NS	---	---	---	---
72. 2,4-Dinitrophenol	---	---	NS	---	---	---	---
73. 4-Nitrophenol	---	---	NS	---	---	---	---
74. Dibenzofuran	---	---	NS	---	---	---	---
75. 2,4-Dinitrotoluene	---	---	NS	---	---	---	---
76. 2,6-Dinitrotoluene	---	---	NS	---	---	---	---
77. Diethylphthalate	---	---	NS	---	---	---	---
78. 4-Chlorophenyl Phenyl ether	---	---	NS	---	---	---	---
79. Fluorene	---	---	NS	---	---	---	---
80. 4-Nitroaniline	---	---	NS	---	---	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	NS	---	---	---	---
82. N-nitrosodiphenylamine	---	---	NS	---	---	---	---
83. 4-Bromophenyl Phenyl ether	---	---	NS	---	---	---	---
84. Hexacholorobenzene	---	---	NS	---	---	---	---
85. Pentachlorophenol	---	---	NS	---	---	---	---
86. Phenanthrene	---	---	NS	---	---	---	---
87. Anthracene	---	---	NS	---	---	---	---
88. Di-n-butylphthalate	---	---	NS	---	---	---	---
89. Fluoranthene	---	---	NS	---	---	---	---
90. Benzidine	---	---	NS	---	---	---	---
91. Pyrene	---	---	NS	---	---	---	---
92. Butyl Benzyl Phthalate	---	---	NS	---	---	5.8 J	---
93. 3,3'-Dichlorobenzidine	---	---	NS	---	---	---	---
94. Benzo(a)anthracene	---	---	NS	---	---	---	---
95. bis(2-ethylhexyl)phthalate	---	5 J	NS	---	---	---	4.6 J
96. Chrysene	---	---	NS	---	---	---	---
97. Di-n-octyl Phthalate	---	---	NS	---	---	---	---
98. Benzo(b)fluoranthene	---	---	NS	---	---	---	---
99. Benzo(k)fluoranthene	---	---	NS	---	---	---	---
100. Benzo(a)pyrene	---	---	NS	---	---	---	---
101. Ideno(1,2,3-cd)pyrene	---	---	NS	---	---	---	---
102. Dibenz(a,h)anthracene	---	---	NS	---	---	---	---
103. Benzo(g,h,i)perylene	---	---	NS	---	---	---	---

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PRISTINE, INC.

Semi-Volatiles-Round 1 (ug/l)	GW5801	GW5901	GW6001	GW60BK	GW6101	GW6201
71. Acenaphthene	---	---	---	---	NS	---
72. 2,4-Dinitrophenol	---	---	---	---	NS	---
73. 4-Nitrophenol	---	---	---	---	NS	---
74. Dibenzofuran	---	---	---	---	NS	---
75. 2,4-Dinitrotoluene	---	---	---	---	NS	---
76. 2,6-Dinitrotoluene	---	---	---	---	NS	---
77. Diethylphthalate	---	---	---	---	NS	---
78. 4-Chlorophenyl Phenyl ether	---	---	---	---	NS	---
79. Fluorene	---	---	---	---	NS	---
80. 4-Nitroaniline	---	---	---	---	NS	---
81. 4,6-Dintiro-2-methylphenol	---	---	---	---	NS	---
82. N-nitrosodiphenylamine	---	---	---	---	NS	---
83. 4-Bromophenyl Phenyl ether	---	---	---	---	NS	---
84. Hexacholorobenzene	---	---	---	---	NS	---
85. Pentachlorophenol	---	---	---	---	NS	---
86. Phenanthrene	---	---	---	---	NS	---
87. Anthracene	---	---	---	---	NS	---
88. Di-n-butylphthalate	---	---	---	---	NS	---
89. Fluoranthene	---	---	---	---	NS	---
90. Benzidine	---	---	---	---	NS	---
91. Pyrene	---	---	---	---	NS	---
92. Butyl Benzyl Phthalate	4.6 J	---	---	---	NS	---
93. 3,3'-Dichlorobenzidine	---	---	---	---	NS	---
94. Benzo(a)anthracene	---	---	---	---	NS	---
95. bis(2-ethylhexyl)phthalate	6.4 J	6 J	7.8 J	4.8 J	NS	4 J
96. Chrysene	---	---	---	---	NS	---
97. Di-n-octyl Phthalate	---	---	---	---	NS	---
98. Benzo(b)fluoranthene	---	---	---	---	NS	---
99. Benzo(k)fluoranthene	---	---	---	---	NS	---
100. Benzo(a)pyrene	---	---	---	---	NS	---
101. Ideno(1,2,3-cd)pyrene	---	---	---	---	NS	---
102. Dibenz(a,h)anthracene	---	---	---	---	NS	---
103. Benzo(g,h,i)perylene	---	---	---	---	NS	---

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PRISTINE, INC.

Semi-Volatiles-Round 2 (ug/l)	GW4502	GW4602	GW4702	GW4802	GW48BK	GW4902	GW5002	GW5102	GW51DP
71. Acenaphthene	---	---	NA	---	---	---	---	---	---
72. 2,4-Dinitrophenol	---	---	NA	---	---	---	---	---	---
73. 4-Nitrophenol	---	---	NA	---	---	---	---	---	---
74. Dibenzofuran	---	---	NA	---	---	---	---	---	---
75. 2,4-Dinitrotoluene	---	---	NA	---	---	---	---	---	---
76. 2,6-Dinitrotoluene	---	---	NA	---	---	---	---	---	---
77. Diethylphthalate	5J	---	NA	---	---	---	---	---	---
78. 4-Chlorophenyl Phenyl ether	---	---	NA	---	---	---	---	---	---
79. Fluorene	---	---	NA	---	---	---	---	---	---
80. 4-Nitroaniline	---	---	NA	---	---	---	---	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	NA	---	---	---	---	---	---
82. N-nitrosodiphenylamine	---	---	NA	5JB	---	---	---	---	---
83. 4-Bromophenyl Phenyl ether	---	---	NA	---	---	---	---	---	---
84. Hexachlorobenzene	---	---	NA	---	---	---	---	---	---
85. Pentachlorophenol	---	---	NA	---	---	---	---	---	---
86. Phenanthrene	---	14	NA	---	---	---	---	---	---
87. Anthracene	---	---	NA	---	---	---	---	---	---
88. Di-n-butylphthalate	---	---	NA	---	---	---	---	---	---
89. Fluoranthene	---	---	NA	---	---	---	---	---	---
90. Benzidine	---	---	NA	---	---	---	---	---	---
91. Pyrene	---	---	NA	---	---	---	---	---	---
92. Butyl Benzyl Phthalate	---	---	NA	---	---	---	---	---	2J
93. 3,3'-Dichlorobenzidine	---	---	NA	---	---	---	---	---	---
94. Benzo(a)anthracene	---	---	NA	---	---	---	---	---	---
95. bis(2-ethylhexyl)phthalate	6J	---	NA	54B	26	17	---	7JB	4JB
96. Chrysene	---	---	NA	---	---	---	---	---	---
97. Di-n-octyl Phthalate	---	---	NA	---	---	---	---	---	---
98. Benzo(b)fluoranthene	---	---	NA	---	---	---	---	---	---
99. Benzo(k)fluoranthene	---	---	NA	---	---	---	---	---	---
100. Benzo(a)pyrene	---	---	NA	---	---	---	---	---	---
101. Ideno(1,2,3-cd)pyrene	---	---	NA	---	---	---	---	---	---
102. Dibenz(a,h)anthracene	---	---	NA	---	---	---	---	---	---
103. Benzo(g,h,i)perylene	---	---	NA	---	---	---	---	---	---

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PRISTINE, INC.

Semi-Volatiles-Round 2 (ug/l)	GW5202	GW5302	GW5402	GW5502	GW5602	GW5702	GW57DP
71. Acenaphthene	---	---	NS	NS	NA	---	---
72. 2,4-Dinitrophenol	---	---	NS	NS	NA	---	---
73. 4-Nitrophenol	---	---	NS	NS	NA	---	---
74. Dibenzofuran	---	---	NS	NS	NA	---	---
75. 2,4-Dinitrotoluene	---	---	NS	NS	NA	---	---
76. 2,6-Dinitrotoluene	---	---	NS	NS	NA	---	---
77. Diethylphthalate	---	2J	NS	NS	NA	---	---
78. 4-Chlorophenyl Phenyl ether	---	---	NS	NS	NA	---	---
79. Fluorene	---	---	NS	NS	NA	---	---
80. 4-Nitroaniline	---	---	NS	NS	NA	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	NS	NS	NA	---	---
82. N-nitrosodiphenylamine	---	5JB	NS	NS	NA	---	---
83. 4-Bromophenyl Phenyl ether	---	---	NS	NS	NA	---	---
84. Hexacholorobenzene	---	---	NS	NS	NA	---	---
85. Pentachlorophenol	---	26?	NS	NS	NA	---	---
86. Phenanthrene	---	---	NS	NS	NA	---	---
87. Anthracene	---	---	NS	NS	NA	---	---
88. Di-n-butylphthalate	---	2J?	NS	NS	NA	---	---
89. Fluoranthene	---	---	NS	NS	NA	---	---
90. Benzidine	---	---	NS	NS	NA	---	---
91. Pyrene	---	---	NS	NS	NA	---	---
92. Butyl Benzyl Phthalate	---	2J?	NS	NS	NA	---	---
93. 3,3'-Dichlorobenzidine	---	---	NS	NS	NA	---	---
94. Benzo(a)anthracene	---	---	NS	NS	NA	---	---
95. bis(2-ethylhexyl)phthalate	110J	100B	NS	NS	NA	130J	130J
96. Chrysene	---	---	NS	NS	NA	---	---
97. Di-n-octyl Phthalate	---	---	NS	NS	NA	---	---
98. Benzo(b)fluoranthene	---	---	NS	NS	NA	---	---
99. Benzo(k)fluoranthene	---	---	NS	NS	NA	---	---
100. Benzo(a)pyrene	---	---	NS	NS	NA	---	---
101. Ideno(1,2,3-cd)pyrene	---	---	NS	NS	NA	---	---
102. Dibenz(a,h)anthracene	---	---	NS	NS	NA	---	---
103. Benzo(g,h,i)perylene	---	---	NS	NS	NA	---	---

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PRISTINE, INC.

Semi-Volatiles-Round 2 (ug/l)	GW5802	GW5902	GW6002	GW60BK	GW6101	GW6202
71. Acenaphthene	---	---	---	---	NA	---
72. 2,4-Dinitrophenol	---	---	---	---	NA	---
73. 4-Nitrophenol	---	---	---	---	NA	---
74. Dibenzofuran	---	---	---	---	NA	---
75. 2,4-Dinitrotoluene	---	---	---	---	NA	---
76. 2,6-Dinitrotoluene	---	---	---	---	NA	---
77. Diethylphthalate	---	5J	---	---	NA	5J
78. 4-Chlorophenyl Phenyl ether	---	---	---	---	NA	---
79. Fluorene	---	---	---	---	NA	---
80. 4-Nitroaniline	---	---	---	---	NA	---
81. 4,6-Dintiro-2-methylphenol	---	---	---	---	NA	---
82. N-nitrosodiphenylamine	---	5JB	---	---	NA	---
83. 4-Bromophenyl Phenyl ether	---	---	---	---	NA	---
84. Hexacholorobenzene	---	---	---	---	NA	---
85. Pentachlorophenol	---	9J	---	---	NA	---
86. Phenanthrene	---	---	---	---	NA	---
87. Anthracene	---	---	---	---	NA	---
88. Di-n-butylphthalate	---	5J	---	6J	NA	---
89. Fluoranthene	---	---	---	---	NA	---
90. Benzidine	---	---	---	---	NA	---
91. Pyrene	---	---	---	---	NA	---
92. Butyl Benzyl Phthalate	---	3J	---	---	NA	---
93. 3,3'-Dichlorobenzidine	---	---	---	---	NA	---
94. Benzo(a)anthracene	---	---	---	---	NA	---
95. bis(2-ethylhexyl)phthalate	---	80B	38J	34J	NA	53
96. Chrysene	---	---	---	---	NA	---
97. Di-n-octyl Phthalate	---	---	---	---	NA	---
98. Benzo(b)fluoranthene	---	---	---	---	NA	---
99. Benzo(k)fluoranthene	---	---	---	---	NA	---
100. Benzo(a)pyrene	---	---	---	---	NA	---
101. Ideno(1,2,3-cd)pyrene	---	---	---	---	NA	---
102. Dibenz(a,h)anthracene	---	---	---	---	NA	---
103. Benzo(g,h,i)perylene	---	---	---	---	NA	---

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PRISTINE, INC.

Pesticides-Round 1 (ug/l)	GW4501	GW4601	GW4701	GW4801	GW4BBK	GW4901	GW5001	GW5101	GW51DP
104. Alpha-BHC	---	---	NA	---	---	---	NA	---	---
105. beta BHC	---	---	NA	---	---	---	NA	---	---
106. delta-BHC	---	---	NA	---	---	---	NA	---	---
107. gamma-BHC (Lindane)	---	---	NA	---	---	---	NA	---	---
108. Heptachlor	---	---	NA	---	---	---	NA	---	---
109. Aldrin	---	---	NA	---	---	---	NA	---	---
110. Heptachlor Epoxide	---	---	NA	---	---	---	NA	---	---
111. Endosulfan I	---	---	NA	---	---	---	NA	---	---
112. Dieldrin	---	---	NA	---	---	---	NA	---	---
113. 4,4'-DDE	---	---	NA	---	---	---	NA	---	---
114. Endrin	---	---	NA	---	---	---	NA	---	---
115. Endosulfan II	---	---	NA	---	---	---	NA	---	---
116. 4,4'-DDD	---	---	NA	---	---	---	NA	---	---
117. Endrin Aldehyde	---	---	NA	---	---	---	NA	---	---
118. Endosulfan Sulfate	---	---	NA	---	---	---	NA	---	---
119. 4,4'-DDT	---	---	NA	---	---	---	NA	---	---
120. Endrin Ketone	---	---	NA	---	---	---	NA	---	---
121. Methoxychlor	---	---	NA	---	---	---	NA	---	---
122. Chlordane	---	---	NA	---	---	---	NA	---	---
123. Toxaphene	---	---	NA	---	---	---	NA	---	---
124. AROCLOR-1016	---	---	NA	---	---	---	NA	---	---
125. AROCLOR-1221	---	---	NA	---	---	---	NA	---	---
126. AROCLOR-1232	---	---	NA	---	---	---	NA	---	---
127. AROCLOR-1242	---	---	NA	---	---	---	NA	---	---
128. AROCLOR-1248	---	---	NA	---	---	---	NA	---	---
129. AROCLOR-1254	---	---	NA	---	---	---	NA	---	---
130. AROCLOR-1260	---	---	NA	---	---	---	NA	---	---

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TABLE 4
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PRISTINE, INC.

Pesticides-Round 1 (ug/l)	GW5201	GW5301	GW5401	GW5501	GW5601	GW5701	GW570P
104. Alpha-BHC	---	---	NS	---	---	---	---
105. beta BHC	---	---	NS	---	---	---	---
106. delta-BHC	---	---	NS	---	---	---	---
107. gamma-BHC (Lindane)	---	---	NS	---	---	---	---
108. Heptachlor	---	---	NS	---	---	---	---
109. Aldrin	---	---	NS	---	---	---	---
110. Heptachlor Epoxide	---	---	NS	---	---	---	---
111. Endosulfan I	---	---	NS	---	---	---	---
112. Dieldrin	---	---	NS	---	---	---	---
113. 4,4'-DDE	---	---	NS	---	---	---	---
114. Endrin	---	---	NS	---	---	---	---
115. Endosulfan II	---	---	NS	---	---	---	---
116. 4,4'-DDD	---	---	NS	---	---	---	---
117. Endrin Aldehyde	---	---	NS	---	---	---	---
118. Endosulfan Sulfate	---	---	NS	---	---	---	---
119. 4,4'-DDT	---	---	NS	---	---	---	---
120. Endrin Ketone	---	---	NS	---	---	---	---
121. Methoxychlor	---	---	NS	---	---	---	---
122. Chlordane	---	---	NS	---	---	---	---
123. Toxaphene	3.5	---	NS	---	---	---	---
124. AROCLOR-1016	---	---	NS	---	---	---	---
125. AROCLOR-1221	---	---	NS	---	---	---	---
126. AROCLOR-1232	---	---	NS	---	---	---	---
127. AROCLOR-1242	---	---	NS	---	---	---	---
128. AROCLOR-1248	---	---	NS	---	---	---	---
129. AROCLOR-1254	---	---	NS	---	---	---	---
130. AROCLOR-1260	---	---	NS	---	---	---	---

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PRISTINE, INC.

Pesticides-Round 1 (ug/l)	GW5801	GW5901	GW6001	GW60BK	GW6101	GW6201
104. Alpha-BHC	---	---	---	---	NS	---
105. beta BHC	---	---	---	---	NS	---
106. delta-BHC	---	---	---	---	NS	---
107. gaaaa-BHC (Lindane)	---	---	---	---	NS	---
108. Heptachlor	---	---	---	---	NS	---
109. Aldrin	---	---	---	---	NS	---
110. Heptachlor Epoxide	---	---	---	---	NS	---
111. Endosulfan I	---	---	---	---	NS	---
112. Dieldrin	---	---	---	---		---
113. 4,4'-DDE	---	---	---	---	NS	---
114. Endrin	---	---	---	---	NS	---
115. Endosulfan II	---	---	---	---	NS	---
116. 4,4'-DDD	---	---	---	---	NS	---
117. Endrin Aldehyde	---	---	---	---	NS	---
118. Endosulfan Sulfate	---	---	---	---	NS	---
119. 4,4'-DDT	---	---	---	---	NS	---
120. Endrin Ketone	---	---	---	---	NS	---
121. Methoxychlor	---	---	---	---	NS	---
122. Chlordane	---	---	---	---	NS	---
123. Toxaphene	---	---	---	---	NS	---
124. AROCLOR-1016	---	---	---	---	NS	---
125. AROCLOR-1221	---	---	---	---	NS	---
126. AROCLOR-1232	---	---	---	---	NS	---
127. AROCLOR-1242	---	---	---	---	NS	---
128. AROCLOR-1248	---	---	---	---	NS	---
129. AROCLOR-1254	---	---	---	---	NS	---
130. AROCLOR-1260	---	---	---	---	NS	---

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PRISTINE, INC.

Pesticides-Round 2 (ug/l)	GW4502	GW4602	GW4702	GW4802	GW48BK	GW4902	GW5002	GW5102	GW51DP
104. Alpha-BHC	---	---	NA	---	---	---	---	---	---
105. beta BHC	0.40	---	NA	---	---	0.10	---	---	---
106. delta-BHC	0.22	---	NA	---	---	---	---	---	---
107. gamma-BHC (Lindane)	---	---	NA	---	---	0.09	---	---	---
108. Heptachlor	---	---	NA	---	---	---	---	---	---
109. Aldrin	0.06	---	NA	---	---	---	---	---	---
110. Heptachlor Epoxide	---	---	NA	---	---	---	---	---	---
111. Endosulfan I	---	---	NA	---	---	---	---	---	---
112. Dieldrin	---	---	NA	---	---	---	---	---	---
113. 4,4'-DDE	---	---	NA	---	---	---	---	---	---
114. Endrin	---	---	NA	---	---	---	---	---	---
115. Endosulfan II	---	---	NA	---	---	---	---	---	---
116. 4,4'-DDD	0.14	---	NA	---	---	---	---	---	---
117. Endrin Aldehyde	---	---	NA	---	---	---	---	---	---
118. Endosulfan Sulfate	---	---	NA	---	---	---	---	---	---
119. 4,4'-DDT	---	---	NA	---	---	---	---	---	---
120. Endrin Ketone	---	---	NA	---	---	---	---	---	---
121. Methoxychlor	---	---	NA	---	---	---	---	---	---
122. Chlordane	---	---	NA	---	---	---	---	---	---
123. Toxaphene	---	---	NA	---	---	---	---	---	---
124. AROCLOR-1016	---	---	NA	---	---	---	---	---	---
125. AROCLOR-1221	---	---	NA	---	---	---	---	---	---
126. AROCLOR-1232	---	---	NA	---	---	---	---	---	---
127. AROCLOR-1242	---	---	NA	---	---	---	---	---	---
128. AROCLOR-1248	---	---	NA	---	---	---	---	---	---
129. AROCLOR-1254	---	---	NA	---	---	---	---	---	---
130. AROCLOR-1260	---	---	NA	---	---	---	---	---	---

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PRISTINE, INC.

Pesticides-Round 2 (ug/l)	GW5202	GW5302	GW5402	GW5502	GW5602	GW5702	GW570P
104. Alpha-BHC	---	---	NS	NS	NA	---	---
105. beta BHC	---	---	NS	NS	NA	---	---
106. delta-BHC	---	---	NS	NS	NA	---	---
107. gamma-BHC (Lindane)	---	---	NS	NS	NA	---	---
108. Heptachlor	---	---	NS	NS	NA	---	---
109. Aldrin	---	---	NS	NS	NA	---	---
110. Heptachlor Epoxide	---	---	NS	NS	NA	---	---
111. Endosulfan I	---	---	NS	NS	NA	---	---
112. Dieldrin	---	---	NS	NS	NA	---	---
113. 4,4'-DDE	---	---	NS	NS	NA	---	---
114. Endrin	---	---	NS	NS	NA	---	---
115. Endosulfan II	---	---	NS	NS	NA	---	---
116. 4,4'-DDD	---	---	NS	NS	NA	---	---
117. Endrin Aldehyde	---	---	NS	NS	NA	---	---
118. Endosulfan Sulfate	---	---	NS	NS	NA	---	---
119. 4,4'-DDT	---	---	NS	NS	NA	---	---
120. Endrin Ketone	---	---	NS	NS	NA	---	---
121. Methoxychlor	---	---	NS	NS	NA	---	---
122. Chlordane	---	---	NS	NS	NA	---	---
123. Toxaphene	---	---	NS	NS	NA	---	---
124. AROCLOR-1016	---	---	NS	NS	NA	---	---
125. AROCLOR-1221	---	---	NS	NS	NA	---	---
126. AROCLOR-1232	---	---	NS	NS	NA	---	---
127. AROCLOR-1242	---	---	NS	NS	NA	---	---
128. AROCLOR-1248	---	---	NS	NS	NA	---	---
129. AROCLOR-1254	---	---	NS	NS	NA	---	---
130. AROCLOR-1260	---	---	NS	NS	NA	---	---

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PRISTINE, INC.

Pesticides-Round 2 (ug/l)	GW5802	GW5902	GW6002	GW60BK	GW6101	GW6202
104. Alpha-BHC	---	---	---	---	NA	---
105. beta BHC	---	---	---	---	NA	---
106. delta-BHC	---	---	---	---	NA	---
107. gamma-BHC (Lindane)	---	---	---	---	NA	---
108. Heptachlor	---	---	---	---	NA	---
109. Aldrin	---	---	---	---	NA	---
110. Heptachlor Epoxide	---	---	---	---	NA	---
111. Endosulfan I	---	---	---	---	NA	---
112. Dieldrin	---	---	---	---	NA	---
113. 4,4'-DDE	---	---	---	---	NA	---
114. Endrin	---	---	---	---	NA	---
115. Endosulfan II	---	---	---	---	NA	---
116. 4,4'-DDD	---	---	---	---	NA	---
117. Endrin Aldehyde	---	---	---	---	NA	---
118. Endosulfan Sulfate	---	---	---	---	NA	---
119. 4,4'-DDT	---	---	---	---	NA	---
120. Endrin Ketone	---	---	---	---	NA	---
121. Methoxychlor	---	---	---	---	NA	---
122. Chlordane	---	---	---	---	NA	---
123. Toxaphene	---	---	---	---	NA	---
124. AROCLOR-1016	---	---	---	---	NA	---
125. AROCLOR-1221	---	---	---	---	NA	---
126. AROCLOR-1232	---	---	---	---	NA	---
127. AROCLOR-1242	---	---	---	---	NA	---
128. AROCLOR-1248	---	---	---	---	NA	---
129. AROCLOR-1254	---	---	---	---	NA	---
130. AROCLOR-1260	---	---	---	---	NA	---

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SUMMARY OF GROUNDWATER ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l) Round 1	GW4501	GW4601	GW4701	GW4801	GW4BBK	GW4901	GW5001	GW5101 NF	GW51DP NF	GW5101	GW51DP
1. Aluminum	46(X)	32(X)	NA	---	---	31(X)	304	107000	138000	23400	25000
2. Antimony	---	---	NA	---	---	---	---	84(X)	92(X)	48(X)	71
3. Arsenic	---	---	NA	---	---	3(X)	---	272	260	164	196
4. Barium	36(X)	67(X)	NA	196(X)	---	96(X)	31(X)	630	882	29(X)	27(X)
5. Beryllium	---	---	NA	---	---	0.6(X)	0.4(X)	8.8(X)	11	3.9(X)	3.8(X)
6. Cadmium (IC)	---	---	NA	---	---	---	---	35	39	25	25
7. Calcium	510000	506000	NA	291000	---	597000	500000	607000	660000	477000	476000
8. Chromium	---	---	NA	---	---	4(X)	7.3(X)	137	189	21	24
9. Cobalt	9.9(X)	27(X)	NA	19(X)	---	10(X)	109	664	722	522	603
10. Copper	3.8(X)	13(X)	NA	5.7(X)	3.6(X)	8.1(X)	12(X)	176	245	27	31
11. Iron	165	201	NA	55(X)	31	85(X)	5620	556000	621000	408000	417000
12. Lead (IC)	---	---	NA	---	---	---	---	156	178	51	58
13. Magnesium	198000	395000	NA	83300	---	162000	890000	800000	809000	727000	734000
14. Manganese	3890	3460	NA	1400	5.1(X)	8540	66500	117000	118000	113000	121000
15. Mercury	---	---	NA	---	---	---	---	0.19(X)	0.44	---	---
16. Nickel	17(X)	56	NA	11(X)	---	15(X)	76	716	823	477	563
17. Potassium	4740(X)	30300	NA	17200	---	7010	16800	273000	252000	244000	232000

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PRISTINE, INC.

Inorganics (ug/l) Round 1	GW5201	GW5301	GW5301 NF	GW5401	GW5501	GW5601	GW5701	GW5701 NF	GW57DP
1. Aluminum	---	---	4320	NS	NA	---	---	32200	---
2. Antimony	---	---	---	NS	NA	---	---	---	---
3. Arsenic	---	---	---	NS	NA	---	---	79	---
4. Barium	184(X)	42(X)	161(X)	NS	NA	60(X)	212	547	242
5. Beryllium	---	---	0.5(X)	NS	NA	---	---	3.6(X)	---
6. Cadmium (IC)	---	---	---	NS	NA	---	---	9.4	---
7. Calcium	208000	593000	590000	NS	NA	665000	226000	346000	255000
8. Chromium	---	---	11	NS	NA	5.2(X)	---	67	---
9. Cobalt	---	8.1(X)	14	NS	NA	19(X)	4.4(X)	108	11(X)
10. Copper	4.3(X)	---	24	NS	NA	12(X)	---	154	6.3(X)
11. Iron	222	148	9520	NS	NA	96(X)	---	113000	67
12. Lead (IC)	---	---	---	NS	NA	32	---	148	---
13. Magnesium	52700	432000	440000	NS	NA	421000	57200	112000	69700
14. Manganese	167	4470	4180	NS	NA	5690	216	2290	395
15. Mercury	---	---	---	NS	NA	---	---	0.21	---
16. Nickel	---	15(X)	27(X)	NS	NA	36(X)	---	122	---
17. Potassium	5340	6910	10700	NS	NA	190000	4640(X)	12400	7090

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PRISTINE, INC.

Inorganics (ug/l) Round 1	GW5801	GW5901	GW6001	GW608K	GW6101	GW6201
1. Aluminum	---	---	---	---	NS	313(X)
2. Antimony	---	---	---	---	NS	---
3. Arsenic	---	25	51	---	NS	---
4. Barium	44(X)	53(X)	52(X)	---	NS	66(X)
5. Beryllium	---	---	---	---	NS	0.4(X)
6. Cadmium (IC)	---	---	---	---	NS	---
7. Calcium	571000	567000	611000	393(X)	NS	335000
8. Chromium	4(X)	---	4.9(X)	---	NS	---
9. Cobalt	---	6.5(X)	12(X)	---	NS	---
10. Copper	7.7(X)	6.5(X)	7(X)	9.7(X)	NS	8(X)
11. Iron	46(X)	10500	30100	46(X)	NS	138
12. Lead (IC)	---	---	---	---	NS	---
13. Magnesium	175000	212000	244000	---	NS	53900
14. Manganese	794	6380	5700	8.2(X)	NS	6990
15. Mercury	---	---	---	---	NS	---
16. Nickel	---	7.1(X)	12(X)	---	NS	6(X)
17. Potassium	12600	27800	32300	---	NS	23600

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PRISTINE, INC.

Inorganics (ug/l) Round 2	GW4502	GW4602	GW4702	GW4802	GW4BBK	GW4902	GW50052	GW5102	GW5102 NF	GW51DP	GW51DP NF
1. Aluminum	293	489	NS	363	238	448	NA	18700	21800	17400	49700
2. Antimony	55(X)	50(X)	NS	---	56(X)	---	NA	---	---	---	---
3. Arsenic	---	23	NS	---	---	---	NA	---	---	---	---
4. Barium	46XJ	201J	NS	133(X)J	6.2(X)J	72(X)J	NA	47(X)J	1390(X)J	38(X)J	101(X)J
5. Beryllium	---	---	NS	---	---	---	NA	4.8(X)	17	4.3(X)	8.4
6. Cadaium (IC)	---	---	NS	4.4(X)	---	---	NA	13	45	13	26
7. Calcium	604000	652000	NS	272000	647(X)	582000	NA	489000	940000	454000	851000
8. Chromium	---	---	NS	---	---	---	NA	---	226	---	---
9. Cobalt	25(X)	35(X)	NS	16(X)	---	6.5(X)	NA	234	511	217	425
10. Copper	4.8(X)	---	NS	8.6(X)	9.6(X)	8.2(X)	NA	51	340	26	89
11. Iron	1760	33600	NS	106	34(X)	113	NA	319000	664000	305000	379000
12. Lead (IC)	---	---	NS	---	---	---	NA	---	---	170	24
13. Magnesium	226000	475000	NS	80000	323(X)	185000	NA	623000	830000J	582000	790000
14. Manganese	4790J	3450J	NS	5760J	11XJ	5160J	NA	74600J	89800	68500J	94000J
15. Mercury	---	---	NS	---	---	---	NA	---	---	---	---
16. Nickel	5.5(X)	56	NS	22(X)	7.9(X)	---	NA	212	739	1191	479
17. Potassium	2840(X)J	27700J	NS	21800J	604(X)J	3730(X)J	NA	262000J	215000J	209000J	203000J

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Inorganics (ug/l) Round 2	GW5202	GW5302	GW5302 NF	GW5402	GW5502	GW5602	GW5702	GW5702 NF	GW57DP
1. Aluminum	682	621	3350	NS	NS	NA	662	19400	648
2. Antimony	---	30(X)	45(X)	NS	NS	NA	41(X)	---	---
3. Arsenic	---	---	---	NS	NS	NA	---	28	---
4. Barium	154J	32(X)J	123(X)J	NS	NS	NA	82(X)J	472J	93(X)J
5. Beryllium	---	---	---	NS	NS	NA	---	1.6(X)	---
6. Cadmium (IC)	---	5.9	8.1	NS	NS	NA	3.2(X)	11	2.2(X)
7. Calcium	200000	607000	6628000	NS	NS	NA	263000	359000	293000
8. Chromium	---	---	---	NS	NS	NA	---	19	---
9. Cobalt	9.6	12(X)	15(X)	NS	NS	NA	6.9(X)	56	7.1(X)
10. Copper	---	6.1(X)	38	NS	NS	NA	14(X)	80	6.5(X)
11. Iron	1580	175	11200	NS	NS	NA	223	62400	202
12. Lead (IC)	---	8.6	92	NS	NS	NA	---	---	25
13. Magnesium	53800	395000	459000	NS	NS	NA	67700	103000	74500
14. Manganese	970	4600J	4920J	NS	NS	NA	380J	1510J	429J
15. Mercury	---	---	---	NS	NS	NA	---	---	---
16. Nickel	16(X)	10(X)	18(X)	NS	NS	NA	---	89	---
17. Potassium	4280(X)J	8990J	8860J	NS	NS	NA	4300(X)J	6320J	4090(X)J

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TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l) Round 2	GW5802	GW5902	GW6002	GW60BK	GW6101	GW6202
1. Aluminum	831	600	315	141(X)	NA	237
2. Antimony	---	80	---	---	NA	---
3. Arsenic	---	---	---	---	NA	---
4. Barium	26(X)J	40(X)J	45(X)J	5.3(X)J	NA	35(X)J
5. Beryllium	---	---	1.8(X)	---	NA	---
6. Cadmium (IC)	---	2.4(X)	---	---	NA	---
7. Calcium	627000	698000	722000	223(X)	NA	267000
8. Chromium	---	---	---	---	NA	---
9. Cobalt	---	21(X)	3.8(X)	---	NA	---
10. Copper	---	---	---	4.8(X)	NA	33
11. Iron	109	570	7460	82(X)	NA	186
12. Lead (IC)	56	48	72	---	NA	31
13. Magnesium	238000	351---	271000	271(X)	NA	42700
14. Manganese	1190J	12900J	5750J	---	NA	6760J
15. Mercury	---	---	---	---	NA	---
16. Nickel	---	58(X)	---	---	NA	---
17. Potassium	6300J	14900J	30800J	295(X)J	NA	23100J

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TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l) Round 1	GW4501	GW4601	GW4701	GW4801	GW4BBK	GW4901	GW5001	GW5101 NF	GW510P NF	GW5101	GW510P
18. Selenium	---	---	NA	---	---	---	---	---	---	---	---
19. Silver	---	---	NA	---	---	---	---	35	36	24	24
20. Sodium	77600	152000	NA	146000	---	88200	165000	230000	311000	237000	228000
21. Thallium	---	---	NA	---	---	19	---	---	---	---	---
22. Tin	---	---	NA	---	---	---	---	---	---	---	---
23. Vanadium	---	---	NA	---	---	---	---	191	260	18(X)	20(X)
24. Zinc	15X	68	NA	20	12(X)	12(X)	15(X)	1010	1320	416	439
25. Cyanide	---	---	NA	---	---	19	11	---	---	NR	NR
26. Fluoride (IC)	170	190	NA	200	---	240	2000	NR	NR	14000	12000

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SUMMARY OF GROUNDWATER ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l) Round 1	GW5201	GW5301	GW5301 NF	GW5401	GW5501	GW5601	GW5701	GW5701 NF	GW57DP
18. Selenium	---	---	---	NS	NA	---	---	---	---
19. Silver	---	---	---	NS	NA	---	---	8.4(X)	---
20. Sodium	45800	87600	93700	NS	NA	356000	78500	83600	89200
21. Thallium	---	---	---	NS	NA	---	---	---	---
22. Tin	---	---	---	NS	NA	---	---	---	---
23. Vanadium	---	---	16(X)	NS	NA	---	---	107	---
24. Zinc	24	---	52	NS	NA	81	7.1(X)	455	6.7(X)
25. Cyanide	---	NR	---	NS	NA	NR	NR	11	---
26. Fluoride (IC)	240	170	NR	NS	NA	NR	260	NR	300

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SUMMARY OF GROUNDWATER ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l) Round 1	GW5801	GW5901	GW6001	GW60BK	GW6101	GW6201
18. Selenium	---	---	---	---	NS	---
19. Silver	---	---	---	---	NS	---
20. Sodium	11100	432000	521000	152(X)	NS	244000
21. Thallium	---	---	---	---	NS	---
22. Tin	---	---	---	---	NS	---
23. Vanadium	---	---	4.5(X)	---	NS	---
24. Zinc	34	68	62	38	NS	18(X)
25. Cyanide	---	---	---	---	NS	14
26. Fluoride (IC)	320	1000	2300	---	NS	500

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SUMMARY OF GROUNDWATER ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l) Round 2	GW4502	GW4602	GW4702	GW4802	GW488K	GW4902	GW50052	GW5102	GW5102 NF	GW510P	GW510P NF
18. Selenium	---	---	NS	---	---	---	NA	---	---	---	---
19. Silver	---	---	NS	---	5.8(X)	---	NA	---	---	---	---
20. Sodium	60800J	162000J	NS	133000J	931(X)J	42200J	NA	221000J	163000J	177000J	119000J
21. Thallium	---	---	NS	---	---	---	NA	---	---	---	---
22. Tin	---	---	NS	---	---	---	NA	---	---	---	---
23. Vanadium	20(X)	26(X)	NS	23(X)	17(X)	32(X)	NA	22(X)	411	26(X)	52
24. Zinc	28J	41J	NS	31J	63J	16(X)J	NA	194J	1920J	176J	1000J
25. Cyanide	---	---	NS	---	---	---	NA	---	NA	---	NA
26. Fluoride (IC)	1000	1200	NS	1200	100	1400	NA	27000	NA	22000	NA

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SUMMARY OF GROUNDWATER ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l) Round 2	GW5202	GW5302	GW5302 NF	GW5402	GW5502	GW5602	GW5702	GW5702 NF	GW570P
18. Selenium	---	---	---	NS	NS	NA	---	---	---
19. Silver	---	---	---	NS	NS	NA	---	---	---
20. Sodium	27700J	62200J	65400J	NS	NS	NA	85600J	73600J	91900J
21. Thallium	---	---	---	NS	NS	NA	---	---	---
22. Tin	---	---	---	NS	NS	NA	---	---	---
23. Vanadium	45(X)	56	44(X)	NS	NS	NA	64	112	61
24. Zinc	63J	61J	144J	NS	NS	NA	34J	314J	29J
25. Cyanide	---	---	NA	NS	NS	NA	---	NA	---
26. Fluoride (IC)	2000	1400	NA	NS	NS	NA	1000	NA	1100

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TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l) Round 2	GW5802	GW5902	GW6002	GW608K	GW6101	GW6202
18. Selenium	---	---	---	---	NA	---
19. Silver	---	---	---	---	NA	---
20. Sodium	53200J	409000J	584000J	189XJ	NA	243000J
21. Thallium	---	---	---	---	NA	---
22. Tin	---	---	---	---	NA	---
23. Vanadium	60	36(X)	17(X)	6.1(X)	NA	18(X)
24. Zinc	67J	57J	---	24	NA	36J
25. Cyanide	---	---	---	---	NA	---
26. Fluoride (IC)	1700	1400	6100	150	NA	NR

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TABLE 5
SUMMARY OF WATER SUPPLY ANALYTICAL DATA
PRISTINE, INC.

Volatiles - Round 1 (ug/l)	WS1501	WS1601	WS1701	WS1801	WS1901	WS2001	WS20DP	WS20BK	WS2101	WS2201	WSGE01
1. Chloromethane	---	---	---	---	---	---	---	---	---	---	---
2. Bromomethane	---	---	---	---	---	---	---	---	---	---	---
3. Vinyl chloride	---	---	---	---	---	---	---	---	---	---	---
4. Chloroethane	---	---	---	---	---	---	---	---	---	5.9	---
5. Methylene Chloride	0.7	1.6	2.2	0.8	---	---	---	23	---	---	---
6. Acetone	---	---	---	---	---	---	---	---	---	170	48
7. Carbon Disulfide	---	---	---	---	---	---	---	---	---	---	---
8. 1,1-Dichloroethene	---	---	---	---	---	---	---	---	---	---	---
9. 1,1-Dichloroethane	0.6	1.7	1.0	---	---	---	---	---	---	---	---
10. trans-1,2-Dichloroethene	25	45	20	---	---	---	---	---	0.9	9.3	---
11. Chloroform	---	---	---	---	---	---	---	---	---	---	---
12. 1,2-Dichloroethane	---	---	---	---	---	---	---	---	---	---	---
13. 2-Butanone	---	---	---	---	---	---	---	---	---	---	---
14. 1,1,1-Trichloroethane	---	---	---	---	---	---	---	---	---	---	---
15. Carbon Tetrachloride	---	---	---	---	---	---	---	---	---	---	---
16. Vinyl Acetate	---	---	---	---	---	---	---	---	---	---	---
17. Bromodichloromethane	---	---	---	---	---	---	---	---	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	---	---	---	---	---
19. 1,2-Dichloropropane	---	---	---	---	---	---	---	---	---	---	---
20. trans-1,3-Dichloropropene	---	---	---	---	---	---	---	---	---	---	---
21. Trichloroethene	---	---	---	---	---	---	---	---	---	---	---
22. Dibromochloromethane	---	---	---	---	---	---	---	---	---	---	---
23. 1,1,2-Trichloroethane	---	---	---	---	---	---	---	---	---	---	---
24. Benzene	---	---	---	---	---	---	---	---	---	8.1	---
25. cis-1,3-Dichloropropene	---	---	---	---	---	---	---	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	---	---	---	---	---	---	---	---	---
27. Bromoform	---	---	---	---	---	---	---	---	---	---	---
28. 2-Hexanone	---	---	---	---	---	---	---	---	---	---	---
29. 4-Methyl-2-pentanone	---	---	---	---	---	---	---	---	---	---	---
30. Tetrachloroethene	---	---	---	---	---	---	---	---	---	---	---
31. Toluene	---	---	---	---	---	---	---	---	---	---	---
32. Chlorobenzene	---	---	---	---	---	---	---	---	---	---	---
33. Ethyl Benzene	---	---	---	---	---	---	---	---	---	---	---
34. Styrene	---	---	---	---	---	---	---	---	---	---	---
35. Total Xylenes	---	---	---	---	---	---	---	---	---	---	---

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TABLE 5
SUMMARY OF WATER SUPPLY ANALYTICAL DATA
PRISTINE, INC.

Volatiles - Round 2 (ug/l)	WS1502	WS1602	WS1702	WS1802	WS1902	WS2002	WS2102	WS21DP	WS21BK	WS2202	WS6ED
1. Chloromethane	---	---	---	---	NS	---	---	---	---	---	NS
2. Bromomethane	---	---	---	---	NS	---	---	---	---	---	NS
3. Vinyl chloride	---	---	---	---	NS	---	---	---	---	---	NS
4. Chloroethane	---	---	---	---	NS	---	---	---	---	5.2	NS
5. Methylene Chloride	.6	1.2	---	---	NS	1.1	1.2	28	10	---	NS
6. Acetone	---	---	---	---	NS	---	---	---	---	---	NS
7. Carbon Disulfide	---	---	---	---	NS	---	---	---	---	---	NS
8. 1,1-Dichloroethene	---	---	---	---	NS	---	---	---	---	---	NS
9. 1,1-Dichloroethane	---	---	2.7	---	NS	---	---	---	---	---	NS
10. trans-1,2-Dichloroethene	30	18	21	---	NS	---	5.2	5.2	---	11	NS
11. Chloroform	---	---	---	---	NS	---	---	---	150	---	NS
12. 1,2-Dichloroethane	---	---	---	---	NS	---	4.4	4.4	---	---	NS
13. 2-Butanone	---	---	---	---	NS	---	---	---	---	---	NS
14. 1,1,1-Trichloroethane	---	---	---	---	NS	---	---	---	---	---	NS
15. Carbon Tetrachloride	---	---	---	---	NS	---	---	---	---	---	NS
16. Vinyl Acetate	---	---	---	---	NS	---	---	---	---	---	NS
17. Bromodichloromethane	---	---	---	---	NS	---	---	---	---	---	NS
18. 1,1,2,2-Tetrachloroethane	---	---	---	---	NS	---	---	---	---	---	[illegible]
19. 1,2-Dichloropropane	---	---	---	---	NS	---	---	---	---	---	[illegible]
20. trans-1,3-Dichloropropene	---	---	---	---	NS	---	---	---	---	---	[illegible]
21. Trichloroethene	---	---	---	---	NS	---	1.3	1.2	---	---	NS
22. Dibromochloromethane	---	---	---	---	NS	---	---	---	---	---	NS
23. 1,1,2-Trichloroethane	---	---	---	---	NS	---	---	---	---	---	NS
24. Benzene	---	---	---	---	NS	---	---	---	---	9.5	NS
25. cis-1,3-Dichloropropene	---	---	---	---	NS	---	---	---	---	---	NS
26. 2-Chloroethyl Vinyl Ether	---	---	---	---	NS	---	---	---	---	---	NS
27. Bromoform	---	---	---	---	NS	---	---	---	---	---	NS
28. 2-Hexanone	---	---	---	---	NS	---	---	---	---	---	NS
29. 4-Methyl-2-pentanone	---	---	---	---	NS	---	---	---	---	---	NS
30. Tetrachloroethene	---	---	---	---	NS	---	---	---	---	---	NS
31. Toluene	---	---	---	---	NS	---	---	4	---	---	NS
32. Chlorobenzene	---	---	---	---	NS	---	---	---	---	---	NS
33. Ethyl Benzene	---	---	---	---	NS	---	---	---	---	---	NS
34. Styrene	---	---	---	---	NS	---	---	---	---	---	NS
35. Total Xylenes	---	---	---	---	NS	---	---	---	---	---	NS

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PRISTINE, INC.

Semi-Volatiles - Round 1 (ug/l)	WS1501	WS1601	WS1701	WS1801	WS1901	WS2001	WS20DP	WS20BK	WS2101	WS2201	WSGED1
36. N-Nitrosodimethylamine	NR	NR	NR	NR	NR	NR	NA	NR	NR	NR	NR
37. Phenol	---	---	---	---	---	---	---	---	---	---	---
38. Aniline	---	---	---	---	---	---	---	---	---	---	---
39. bis(2-Chloroethyl) ether	---	---	---	---	---	---	---	---	---	---	---
40. 2-Chlorophenol	---	---	---	---	---	---	---	---	---	---	---
41. 1,3-Dichlorobenzene	---	---	---	---	---	---	---	---	---	---	---
42. 1,4-Dichlorobenzene	---	---	---	---	---	---	---	---	---	---	---
43. Benzyl Alcohol	---	---	---	---	---	---	---	---	---	---	---
44. 1,2-Dichlorobenzene	---	---	---	---	---	---	---	---	---	---	---
45. 2-Methylphenol	---	---	---	---	---	---	---	---	---	---	---
46. bis(2-Chloroisopropyl) ether	---	---	---	---	---	---	---	---	---	---	---
47. 4-Methylphenol	---	---	---	---	---	---	---	---	---	---	---
48. n-Nitroso-Dipropylamine	---	---	---	---	---	---	---	---	---	---	---
49. Hexachloroethane	---	---	---	---	---	---	---	---	---	---	---
50. Nitrobenzene	---	---	---	---	---	---	---	---	---	---	---
51. Isophorone	---	---	---	---	---	---	---	---	---	---	---
52. 2-Nitrophenol	---	---	---	---	---	---	---	---	---	---	---
53. 2,4-Dimethylphenol	---	---	---	---	---	---	---	---	---	---	---
54. Benzoic Acid	---	---	---	---	---	---	---	---	---	---	---
55. bis(2-Chloroethoxy) methane	---	---	---	---	---	---	---	---	---	---	---
56. 2,4-Dichlorophenol	---	---	---	---	---	---	---	---	---	---	---
57. 1,2,4-Trichlorobenzene	---	---	---	---	---	---	---	---	---	---	---
58. Naphthalene	---	---	---	---	---	---	---	---	---	---	---
59. 4-Chloroaniline	---	---	---	---	---	---	---	---	---	---	---
60. Hexachlorobutadiene	---	---	---	---	---	---	---	---	---	---	---
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	---	---	---	---	---	---	---	---	---
62. 2-Methylnaphthalene	---	---	---	---	---	---	---	---	---	---	---
63. Hexachlorocyclopentadiene	---	---	---	---	---	---	---	---	---	---	---
64. 2,4,6-Trichlorophenol	---	---	---	---	---	---	---	---	---	---	---
65. 2,4,5-Trichlorophenol	---	---	---	---	---	---	---	---	---	---	---
66. 2-Chloronaphthalene	---	---	---	---	---	---	---	---	---	---	---
67. 2-Nitroaniline	NR	NR	NR	NR	NR	NR	NA	NR	NR	NR	NR
68. Dimethyl Phthalate	---	---	---	---	---	---	---	---	---	---	---
69. Acenaphthylene	---	---	---	---	---	---	---	---	---	---	---
70. 3-Nitroaniline	---	---	---	---	---	---	---	---	---	---	---

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PRISTINE, INC.

Semi-Volatiles - Round 2 (ug/l)	WS1502	WS1602	WS1702	WS1802	WS1902	WS2002	WS2102	WS21DP	WS218K	WS2202	WS6E02
36. N-Nitrosodimethylamine	---	---	---	---	NS	---	---	---	---	---	NS
37. Phenol	---	---	---	---	NS	---	---	---	---	---	NS
38. Aniline	---	---	---	---	NS	---	---	---	---	---	NS
39. bis(2-Chloroethyl) ether	---	---	---	---	NS	---	---	---	---	---	NS
40. 2-Chlorophenol	---	---	---	---	NS	---	---	---	---	---	NS
41. 1,3-Dichlorobenzene	---	---	---	---	NS	---	---	---	---	---	NS
42. 1,4-Dichlorobenzene	---	---	---	---	NS	---	---	---	---	---	NS
43. Benzyl Alcohol	---	---	---	---	NS	---	---	---	---	---	NS
44. 1,2-Dichlorobenzene	---	---	---	---	NS	---	---	---	---	---	NS
45. 2-Methylphenol	---	---	---	---	NS	---	---	---	---	---	NS
46. bis(2-Chloroisopropyl) ether	---	---	---	---	NS	---	---	---	---	---	NS
47. 4-Methylphenol	---	---	---	---	NS	---	---	---	---	---	NS
48. n-Nitroso-Dipropylamine	---	---	---	---	NS	---	---	---	---	---	NS
49. Hexachloroethane	---	---	---	---	NS	---	---	---	---	---	NS
50. Nitrobenzene	---	---	---	---	NS	---	---	---	---	---	NS
51. Isophorone	---	---	---	---	NS	---	---	---	---	---	NS
52. 2-Nitrophenol	---	---	---	---	NS	---	---	---	---	---	NS
53. 2,4-Dimethylphenol	---	---	---	---	NS	---	---	---	---	---	NS
54. Benzoic Acid	---	---	---	---	NS	---	---	---	---	---	NS
55. bis(2-Chloroethoxy) methane	---	---	---	---	NS	---	---	---	---	---	NS
56. 2,4-Dichlorophenol	---	---	---	---	NS	---	---	---	---	---	NS
57. 1,2,4-Trichlorobenzene	---	---	---	---	NS	---	---	---	---	---	NS
58. Naphthalene	---	---	---	---	NS	---	---	---	---	---	NS
59. 4-Chloroaniline	---	---	---	---	NS	---	---	---	---	---	NS
60. Hexachlorobutadiene	---	---	---	---	NS	---	---	---	---	---	NS
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	---	---	NS	---	---	---	---	---	NS
62. 2-Methylnaphthalene	---	---	---	---	NS	---	---	---	---	---	NS
63. Hexachlorocyclopentadiene	---	---	---	---	NS	---	---	---	---	---	NS
64. 2,4,6-Trichlorophenol	---	---	---	---	NS	---	---	---	---	---	NS
65. 2,4,5-Trichlorophenol	---	---	---	---	NS	---	---	---	---	---	NS
66. 2-Chloronaphthalene	---	---	---	---	NS	---	---	---	---	---	NS
67. 2-Nitroaniline	---	---	---	---	NS	---	---	---	---	---	NS
68. Dimethyl Phthalate	---	---	---	---	NS	---	---	---	---	---	NS
69. Acenaphthylene	---	---	---	---	NS	---	---	---	---	---	NS
70. 3-Nitroaniline	---	---	---	---	NS	---	---	---	---	---	NS

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TABLE 5
SUMMARY OF WATER SUPPLY ANALYTICAL DATA
PRISTINE, INC.

Semi-Volatiles - Round 1 (ug/l)	WS1501	WS1601	WS1701	WS1801	WS1901	WS2001	WS20DP	WS20BK	WS2101	WS2201	WS6E01
71. Acenaphthene	---	---	---	---	---	---	---	---	---	---	---
72. 2,4-Dinitrophenol	---	---	---	---	---	---	---	---	---	---	---
73. 4-Nitrophenol	---	---	---	---	---	---	---	---	---	---	---
74. Dibenzofuran	---	---	---	---	---	---	---	---	---	---	---
75. 2,4-Dinitrotoluene	---	---	---	---	---	---	---	---	---	---	---
76. 2,6-Dinitrotoluene	---	---	---	---	---	---	---	---	---	---	---
77. Diethylphthalate	---	---	---	---	---	---	---	---	---	---	---
78. 4-Chlorophenyl Phenyl ether	---	---	---	---	---	---	---	---	---	---	---
79. Fluorene	---	---	---	---	---	---	---	---	---	---	---
80. 4-Nitroaniline	---	---	---	---	---	---	---	---	---	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	---	---	---	---	---	---	---	---	---
82. N-nitrosodiphenylamine	---	---	---	---	---	---	---	---	---	---	---
83. 4-Bromophenyl Phenyl ether	---	---	---	---	---	---	---	---	---	---	---
84. Hexacholorobenzene	---	---	---	---	---	---	---	---	---	---	---
85. Pentachlorophenol	---	---	---	---	---	---	---	---	---	---	---
86. Phenanthrene	---	---	---	---	---	---	---	---	---	---	---
87. Anthracene	---	---	---	---	---	---	---	---	---	---	---
88. Di-n-butylphthalate	---	---	---	---	---	---	---	---	---	---	---
89. Fluoranthene	---	---	---	---	---	---	---	---	---	---	---
90. Benzidine	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
91. Pyrene	---	---	---	---	---	---	---	---	---	---	---
92. Butyl Benzyl Phthalate	---	---	---	---	---	---	---	---	---	---	---
93. 3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR	NA	NR	NR	NR	NR
94. Benzo(a)anthracene	---	---	---	---	---	---	---	---	---	---	---
95. bis(2-ethylhexyl)phthalate	---	---	---	---	---	---	---	---	---	---	---
96. Chrysene	---	---	---	---	---	---	---	---	---	---	---
97. Di-n-octyl Phthalate	---	---	---	---	---	---	---	---	---	---	---
98. Benzo(b)fluoranthene	---	---	---	---	---	---	---	---	---	---	---
99. Benzo(k)fluoranthene	---	---	---	---	---	---	---	---	---	---	---
100. Benzo(a)pyrene	---	---	---	---	---	---	---	---	---	---	---
101. Ideno(1,2,3-cd)pyrene	---	---	---	---	---	---	---	---	---	---	---
102. Dibenz(a,h)anthracene	---	---	---	---	---	---	---	---	---	---	---
103. Benzo(g,h,i)perylene	---	---	---	---	---	---	---	---	---	---	---

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TABLE 5
SUMMARY OF WATER SUPPLY ANALYTICAL DATA
PRISTINE, INC.

Semi-Volatiles - Round 2 (ug/l)	WS1502	WS1602	WS1702	WS1802	WS1902	WS2002	WS2102	WS21DP	WS21BK	WS2202	WSGE02
71. Acenaphthene	---	---	---	---	NS	---	---	---	---	---	NS
72. 2,4-Dinitrophenol	---	---	---	---	NS	---	---	---	---	---	NS
73. 4-Nitrophenol	---	---	---	---	NS	---	---	---	---	---	NS
74. Dibenzofuran	---	---	---	---	NS	---	---	---	---	---	NS
75. 2,4-Dinitrotoluene	---	---	---	---	NS	---	---	---	---	---	NS
76. 2,6-Dinitrotoluene	---	---	---	---	NS	---	---	---	---	---	NS
77. Diethylphthalate	---	---	---	---	NS	---	---	---	---	---	NS
78. 4-Chlorophenyl Phenyl	---	---	---	---	NS	---	---	---	---	---	NS
ether	---	---	---	---	NS	---	---	---	---	---	NS
79. Fluorene	---	---	---	---	NS	---	---	---	---	---	NS
80. 4-Nitroaniline	---	---	---	---	NS	---	---	---	---	---	NS
81. 4,6-Dintiro-2-aethylphenol	---	---	---	---	NS	---	---	---	---	---	NS
82. N-nitrosodiphenylaaine	---	---	---	---	NS	---	---	---	---	---	NS
83. 4-Bromophenyl Phenyl ether	---	---	---	---	NS	---	---	---	---	---	NS
84. Hexacholorobenzene	---	---	---	---	NS	---	---	---	---	---	NS
85. Pentachlorophenol	---	---	---	---	NS	---	---	---	---	---	NS
86. Phenanthrene	---	---	---	---	NS	---	---	---	---	---	NS
87. Anthracene	---	---	---	---	NS	---	---	---	---	---	NS
88. Di-n-butylphthalate	---	---	---	---	NS	---	---	---	---	---	
89. Fluoranthene	---	---	---	---	NS	---	---	---	---	---	
90. Benzidine	---	---	---	---	NS	---	---	---	---	---	
91. Pyrene	---	---	---	---	NS	---	---	---	---	---	NS
92. Butyl Benzyl Phthalate	---	---	---	---	NS	---	---	---	---	---	NS
93. 3,3'-Dichlorobenzidine	---	---	---	---	NS	---	---	---	---	---	NS
94. Benzo(a)anthracene	---	---	---	---	NS	---	---	---	---	---	NS
95. bis(2-ethylhexyl)phthalate	---	---	---	---	NS	---	---	---	---	---	NS
96. Chrysene	---	---	---	---	NS	---	---	---	---	---	NS
97. Di-n-octyl Phthalate	---	---	---	---	NS	---	---	---	---	---	NS
98. Benzo(b)fluoranthene	---	---	---	---	NS	---	---	---	---	---	NS
99. Benzo(k)fluoranthene	---	---	---	---	NS	---	---	---	---	---	NS
100. Benzo(a)pyrene	---	---	---	---	NS	---	---	---	---	---	NS
101. Ideno(1,2,3-cd)pyrene	---	---	---	---	NS	---	---	---	---	---	NS
102. Dibenz(a,h)anthracene	---	---	---	---	NS	---	---	---	---	---	NS
103. Benzo(g,h,i)perylene	---	---	---	---	NS	---	---	---	---	---	NS

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TABLE 5
SUMMARY OF WATER SUPPLY ANALYTICAL DATA
PRISTINE, INC.

Pesticides - Round 1 (ug/l)	WS1501	WS1601	WS1701	WS1801	WS1901	WS2001	WS20DP	WS20BK	WS2101	WS2201	WS6E01
104. Alpha-BHC	---	---	---	---	---	---	---	---	---	---	---
105. beta BHC	---	---	---	---	---	---	---	---	---	---	---
106. delta-BHC	---	---	---	---	---	---	---	---	---	---	---
107. gamma-BHC (Lindane)	---	---	---	---	---	---	---	---	---	---	---
108. Heptachlor	---	---	---	---	---	---	---	---	---	---	---
109. Aldrin	---	---	---	---	---	---	---	---	---	---	---
110. Heptachlor Epoxide	---	---	---	---	---	---	---	---	---	---	---
111. Endosulfan I	---	---	---	---	---	---	---	---	---	---	---
112. Dieldrin	---	---	---	---	---	---	---	---	---	---	---
113. 4,4'-DDE	---	---	---	---	---	---	---	---	---	---	---
114. Endrin	---	---	---	---	---	---	---	---	---	---	---
115. Endosulfan II	---	---	---	---	---	---	---	---	---	---	---
116. 4,4'-DDD	---	---	---	---	---	---	---	---	---	---	---
117. Endrin Aldehyde	---	---	---	---	---	---	---	---	---	---	---
118. Endosulfan Sulfate	---	---	---	---	---	---	---	---	---	---	---
119. 4,4'-DDT	---	---	---	---	---	---	---	---	---	---	---
120. Endrin Ketone	---	---	---	---	---	---	---	---	---	---	---
121. Methoxychlor	---	---	---	---	---	---	---	---	---	---	---
122. Chlordane	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
123. Toxaphene	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
124. AROCLOR-1016	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
125. AROCLOR-1221	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
126. AROCLOR-1232	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
127. AROCLOR-1242	---	---	---	---	---	---	---	---	---	---	---
128. AROCLOR-1248	---	---	---	---	---	---	---	---	---	---	---
129. AROCLOR-1254	---	---	---	---	---	---	---	---	---	---	---
130. AROCLOR-1260	---	---	---	---	---	---	---	---	---	---	---

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TABLE 5
SUMMARY OF WATER SUPPLY ANALYTICAL DATA
PRISTINE, INC.

Pesticides - Round 2 (ug/l)	WS1502	WS1602	WS1702	WS1802	WS1902	WS2002	WS2102	WS21DP	WS21BK	WS2202	WS6E02
104. Alpha-BHC	---	---	---	---	NS	---	---	---	---	---	NS
105. beta BHC	---	---	---	---	NS	---	---	---	---	---	NS
106. delta-BHC	---	---	---	---	NS	---	---	---	---	---	NS
107. gamma-BHC (Lindane)	---	---	---	---	NS	---	---	---	---	---	NS
108. Heptachlor	---	---	---	---	NS	---	---	---	---	---	NS
109. Aldrin	---	---	---	---	NS	---	---	---	---	---	NS
110. Heptachlor Epoxide	---	---	---	---	NS	---	---	---	---	---	NS
111. Endosulfan I	---	---	---	---	NS	---	---	---	---	---	NS
112. Dieldrin	---	---	---	---	NS	---	---	---	---	---	NS
113. 4,4'-DDE	---	---	---	---	NS	---	---	---	---	---	NS
114. Endrin	---	---	---	---	NS	---	---	---	---	---	NS
115. Endosulfan II	---	---	---	---	NS	---	---	---	---	---	NS
116. 4,4'-DDD	---	---	---	---	NS	---	---	---	---	---	NS
117. Endrin Aldehyde	---	---	---	---	NS	---	---	---	---	---	NS
118. Endosulfan Sulfate	---	---	---	---	NS	---	---	---	---	---	NS
119. 4,4'-DDT	---	---	---	---	NS	---	---	---	---	---	NS
120. Endrin Ketone	---	---	---	---	NS	---	---	---	---	---	NS
121. Methoxychlor	---	---	---	---	NS	---	---	---	---	---	
122. Chlordane	---	---	---	---	NS	---	---	---	---	---	
123. Toxaphene	---	---	---	---	NS	---	---	---	---	---	
124. AROCLOR-1016	---	---	---	---	NS	---	---	---	---	---	NS
125. AROCLOR-1221	---	---	---	---	NS	---	---	---	---	---	NS
126. AROCLOR-1232	---	---	---	---	NS	---	---	---	---	---	NS
127. AROCLOR-1242	---	---	---	---	NS	---	---	---	---	---	NS
128. AROCLOR-1248	---	---	---	---	NS	---	---	---	---	---	NS
129. AROCLOR-1254	---	---	---	---	NS	---	---	---	---	---	NS
130. AROCLOR-1260	---	---	---	---	NS	---	---	---	---	---	NS

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SUMMARY OF WATER SUPPLY ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l) Round 1	WS1501	WS1601	WS1701	WS1801	WS1901	WS2001	WS20DP	WS20BK	WS2101	WS2201	WSGE01
1. Aluminum	---	---	---	---	---	---	---	---	230	---	---
2. Antimony	---	---	---	---	---	---	---	---	---	---	---
3. Arsenic	15	16	64	29	44	43	35	---	26	12	15
4. Barium	191	137	106	113	150	86.7	87.4	---	155	163	482
5. Beryllium	---	---	---	---	---	---	---	---	---	---	---
6. Cadmium (IC)	---	---	---	---	---	---	---	---	6.44	---	3.61
7. Calcium	133000	125000	11000	131000	127000	126000	126000	---	137000	122000	108000
8. Chromium	8.01	---	8.91	---	---	---	----	---	20.8	8.98	15.3
9. Cobalt	---	---	---	---	---	---	---	---	---	---	61.4
10. Copper	13.8	---	74.3	---	---	---	---	---	99.3	---	---
11. Iron	7620	7840	7150	7530	6090	4280	4360	---	10600	6440	3060
12. Lead (IC)	---	---	4.0	---	---	---	---	---	4.6	---	---
13. Magnesium	37100	32000	31800	30100	30300	31900	32000	---	30700	32000	31000
14. Manganese	567	562	525	416	515	626	632	---	436	586	104
15. Mercury	---	---	---	---	---	---	---	---	---	---	0.1
16. Nickel	33.7	16.0	28.4	---	---	---	29.5	---	44.0	---	44.0
17. Potassium	7410	7650	6210	7790	6490	8200	7990	---	8580	7860	---

--- = COMPOUND ANALYZED FOR, BUT NOT DETECTED WITHIN DETECTION LIMITS
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TABLE 5
SUMMARY OF WATER SUPPLY ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l) Round 2	WS1502	WS1602	WS1702	WS1802	WS1902	WS2002	WS2102	WS210P	WS218K	WS2202
1. Aluminum	---	---	---	---	NS	---	---	---	---	---
2. Antimony	---	---	---	---	NS	---	---	---	---	---
3. Arsenic	10.7	23.8	92.1	13.2	NS	13.9	11.2	14.0	---	23.9
4. Barium	216	138	166	125	NS	96	197	191	---	188
5. Beryllium	---	---	---	---	NS	---	---	---	---	---
6. Cadmium (IC)	---	---	---	---	NS	---	4	---	---	---
7. Calcium	129000	111000	951000	134000	NS	127000	130000	124000	---	121000
8. Chromium	---	---	25	---	NS	---	---	---	---	---
9. Cobalt	---	---	---	---	NS	---	---	---	---	---
10. Copper	---	41	20	8	NS	---	---	---	---	---
11. Iron	8100	7010	25700	7590	NS	5850	7230	6980	---	7590
12. Lead (IC)	---	---	---	---	NS	---	---	---	---	---
13. Magnesium	42700	35400	36500	35000	NS	38900	37900	37400	---	41500
14. Manganese	609	522	588	506	NS	701	555	536	---	635
15. Mercury	NR	NR	NR	NR	NS	NR	NR	NR	NR	NR
16. Nickel	---	---	26	---	NS	---	---	---	---	---
17. Potassium	7580	7970	5400	7610	NS	10300	3120	2890	---	9790

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TABLE 5
SUMMARY OF WATER SUPPLY ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l) Round 1	WS1501	WS1601	WS1701	WS1801	WS1901	WS2001	WS200P	WS20BK	WS2101	WS2201	WS6E01
18. Selenium	---	---	---	---	---	---	---	---	---	---	---
19. Silver	---	---	---	---	---	---	---	---	36.8	---	37.8
20. Sodium	73900	49900	57200	24800	25200	30300	30600	---	25100	44000	21700
21. Thallium	---	---	---	---	---	---	---	---	---	---	---
22. Tin	---	---	---	---	---	---	---	---	173	---	---
23. Vanadium	---	---	---	---	---	---	---	---	59.4	---	---
24. Zinc	---	---	---	---	---	---	---	---	---	---	---
25. Cyanide	---	---	---	---	---	---	---	---	---	---	---
26. Fluoride (IC)	200	300	400	100	100	100	100	---	100	400	300
27. Chloride	117000	82000	74000	63000	62000	54000	54000	---	65000	82000	41000
28. Sulfate	120000	156000	123000	101000	97000	114000	116000	---	100000	88000	75000
29. Alkalinity	368000	345000	335000	355000	358000	352000	350000	---	355000	368000	343000
30. Nitrate	---	---	---	---	---	---	---	---	---	---	---
31. TKN	1170	1100	520	330	480	500	530	---	380	1180	520
32. Ammonia	970	910	310	300	420	470	500	---	340	1100	500
33. TOC	10000	8000	8000	3000	---	5000	6000	---	11000	---	17000
34. Phosphorous	---	70	60	120	70	---	---	---	170	---	---

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SUMMARY OF WATER SUPPLY ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l) Round 2	WS1502	WS1602	WS1702	WS1802	WS1902	WS2002	WS2102	WS21DP	WS21BK	WS2202
18. Selenium	---	---	---	---	NS	---	---	---	---	---
19. Silver	---	---	---	---	NS	---	---	---	---	---
20. Sodium	82000	72200	90100	31500	NS	40000	59600	58100	---	48300
21. Thallium	---	---	---	---	NS	---	---	---	---	2.8
22. Tin	---	---	---	---	NS	---	---	---	---	---
23. Vanadium	---	---	---	---	NS	---	---	---	---	---
24. Zinc	---	---	---	---	NS	---	---	---	---	---
25. Cyanide	---	---	---	---	NS	---	---	---	---	---
26. Nitrate	---	---	---	---	NS	---	---	---	---	---
27. Ammonia	1060	640	1300	510	NS	320	320	320	---	1080
28. TKN	1160	810	1820	420	NS	390	400	430	---	1190
29. Phosphorous	---	---	290	70	NS	---	80	90	---	---
30. Alkalinity	365000	322000	330000	33000	NS	353000	335000	350000	---	370000
31. Sulfate	135000	149000	121000	118000	NS	138000	144000	141000	---	93000
32. Chloride	139000	78000	76000	65000	NS	55000	79000	78000	---	76000

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TABLE 6
SUMMARY OF SURFACE WATER ANALYTICAL DATA
PRISTINE, INC.

Volatiles (ug/l)	SF0401	SF0501	SF0601	SF0701	SF07DP	SF07BK	SFDT01
1. Chloromethane	---	---	---	---	---	---	---
2. Bromomethane	---	---	---	---	---	---	---
3. Vinyl chloride	---	---	---	---	---	---	---
4. Chloroethane	---	---	---	---	---	---	---
5. Methylene Chloride	15.3 B,J	9.2 B,J	18 B,J	5.6 B,J	12.1 B,J	34.2 B,J	16000B
6. Acetone	---	2.6 B,J	---	60 B	46.1 B,J	---	9.1 B
7. Carbon Disulfide	85.8 J	28.8 J	11.2 J	---	---	13.9	---
8. 1,1-Dichloroethene	---	9	---	---	---	---	3.1 J
9. 1,1-Dichloroethane	---	50.2	---	---	---	---	13
10. trans-1,2-Dichloroethene	---	87.6 J	---	5.8	9.5 J	---	110
11. Chloroform	---	---	---	---	---	---	100
12. 1,2-Dichloroethane	---	6200	149 J	---	---	---	220
13. 2-Butanone	---	---	---	---	---	---	---
14. 1,1,1-Trichloroethane	---	49.5 J	---	7.2	---	---	685 J
15. Carbon Tetrachloride	---	---	---	---	---	---	---
16. Vinyl Acetate	---	---	---	---	---	---	87
17. Bromodichloromethane	---	---	---	---	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	9
19. 1,2-Dichloropropane	---	92.3	---	---	---	---	---
20. trans-1,3-Dichloropropene	---	---	---	---	---	---	---
21. Trichloroethene	---	10.8	---	1.2 J	---	---	10
22. Dibromochloromethane	---	---	---	---	---	---	---
23. 1,1,2-Trichloroethane	---	---	---	---	---	---	12
24. Benzene	---	9.3	---	---	---	---	2 J
25. cis-1,3-Dichloropropene	---	---	---	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	---	---	---	---	---
27. Bromoform	---	---	---	---	---	---	---
28. 2-Hexanone	---	---	---	---	---	---	---
29. 4-Methyl-2-pentanone	---	---	---	---	---	---	---
30. Tetrachloroethene	1.9 J	---	---	---	---	---	250
31. Toluene	1.3 J	6	---	---	3.3 J	---	3.8 J
32. Chlorobenzene	---	---	---	---	---	---	---
33. Ethyl Benzene	---	---	---	---	---	---	---
34. Styrene	3.9 BJ	1.5 BJ	---	---	---	---	---
35. Total Xylenes	---	2.2	---	2.1 J	---	---	14

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TABLE 6
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PRISTINE, INC.

Semi-Volatiles (ug/l)	SF0401	SF0501	SF0601	SF0701	SF07DP	SF07BK	SFDT01
36. N-Nitrosodimethylamine	---	---	---	---	---	---	---
37. Phenol	---	---	---	7.6 J	8.0 J	---	230
38. Aniline	---	---	---	4 J	5.8 J	---	---
39. bis(2-Chloroethyl) ether	---	---	---	---	---	---	---
40. 2-Chlorophenol	---	---	---	---	---	---	---
41. 1,3-Dichlorobenzene	---	---	---	---	---	---	---
42. 1,4-Dichlorobenzene	---	---	---	---	---	---	---
43. Benzyl Alcohol	---	---	---	---	---	---	---
44. 1,2-Dichlorobenzene	---	---	---	---	---	---	14
45. 2-Methylphenol	---	---	---	17 J	---	---	19
46. bis(2-Chloroisopropyl) ether	---	---	---	---	---	---	---
47. 4-Methylphenol	---	---	---	---	13.2	---	15
48. n-Nitroso-Dipropylamine	---	---	---	---	---	---	---
49. Hexachloroethane	---	---	---	---	---	---	---
50. Nitrobenzene	---	---	---	---	---	---	---
51. Isophorone	---	---	---	---	---	---	---
52. 2-Nitrophenol	---	---	---	---	---	---	9 J
53. 2,4-Dimethylphenol	---	---	---	---	---	---	---
54. Benzoic Acid	11 J	---	---	21.6 J	34 J	---	---
55. bis(2-Chloroethoxy) methane	---	---	---	---	---	---	---
56. 2,4-Dichlorophenol	---	---	---	---	---	---	---
57. 1,2,4-Trichlorobenzene	---	---	---	---	---	---	---
58. Naphthalene	---	---	---	---	---	---	---
59. 4-Chloroaniline	---	---	---	---	---	---	---
60. Hexachlorobutadiene	---	---	---	---	---	---	---
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	---	---	---	---	13
62. 2-Methylnaphthalene	---	---	---	---	---	---	---
63. Hexachlorocyclopentadiene	---	---	---	---	---	---	---
64. 2,4,6-Trichlorophenol	---	---	---	---	---	---	---
65. 2,4,5-Trichlorophenol	---	---	---	---	---	---	---
66. 2-Chloronaphthalene	---	---	---	---	---	---	---
67. 2-Nitroaniline	---	---	---	---	---	---	---
68. Dimethyl Phthalate	---	---	---	---	---	---	---
69. Acenaphthylene	---	---	---	---	---	---	---
70. 3-Nitroaniline	---	---	---	---	---	---	---

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TABLE 6
SUMMARY OF SURFACE WATER ANALYTICAL DATA
PRISTINE, INC.

Semi-Volatiles (ug/l)	SF0401	SF0501	SF0601	SF0701	SF07DP	SF07BK	SFDT01
71. Acenaphthene	---	---	---	---	---	---	---
72. 2,4-Dinitrophenol	---	---	---	---	---	---	---
73. 4-Nitrophenol	---	---	---	---	---	---	---
74. Dibenzofuran	---	---	---	---	---	---	---
75. 2,4-Dinitrotoluene	---	---	---	---	---	---	---
76. 2,6-Dinitrotoluene	---	---	---	---	---	---	---
77. Diethylphthalate	---	---	---	---	---	---	---
78. 4-Chlorophenyl Phenyl ether	---	---	---	---	---	---	---
79. Fluorene	---	---	---	---	---	---	---
80. 4-Nitroaniline	---	---	---	---	---	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	---	---	---	---	---
82. N-nitrosodiphenylamine	---	---	---	---	---	---	---
83. 4-Bromophenyl Phenyl ether	---	---	---	---	---	---	---
84. Hexacholorobenzene	---	---	---	---	---	---	---
85. Pentachlorophenol	---	---	---	---	13.2 J	---	---
86. Phenanthrene	---	---	---	---	---	---	---
87. Anthracene	---	---	---	---	---	---	---
88. Di-n-butylphthalate	---	---	---	---	2.2 J	---	---
89. Fluoranthene	---	---	---	---	---	---	---
90. Benzidine	---	---	---	---	---	---	---
91. Pyrene	---	---	---	---	---	---	---
92. Butyl Benzyl Phthalate	---	5 J	---	3 J	3.4 J	6.2 B,J	---
93. 3,3'-Dichlorobenzidine	---	---	---	---	---	---	---
94. Benzo(a)anthracene	---	---	---	---	---	---	---
95. bis(2-ethylhexyl)phthalate	11.2 J	27.4 J	104 J	23.4 J	10.6 J	990 B	12
96. Chrysene	---	---	---	---	---	---	---
97. Di-n-octyl Phthalate	---	---	---	---	---	---	---
98. Benzo(b)fluoranthene	---	---	---	---	---	---	---
99. Benzo(k)fluoranthene	---	---	---	---	---	---	---
100. Benzo(a)pyrene	---	---	---	---	---	---	---
101. Ideno(1,2,3-cd)pyrene	---	---	---	---	---	---	---
102. Dibenz(a,h)anthracene	---	---	---	---	---	---	---
103. Benzo(g,h,i)perylene	---	---	---	---	---	---	---

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PRISTINE, INC.

Pesticides (ug/l)	SF0401	SF0501	SF0601	SF0701	SF07DP	SF07BK	SFDT01
104. Alpha-BHC	0.19	---	---	---	---	---	---
105. beta BHC	---	---	---	---	---	---	---
106. delta-BHC	---	---	---	---	---	---	---
107. gamma-BHC (Lindane)	---	---	---	---	---	---	---
108. Heptachlor	---	---	---	---	---	---	---
109. Aldrin	---	---	---	---	---	---	---
110. Heptachlor Epoxide	---	---	---	---	---	---	---
111. Endosulfan I	---	---	---	---	---	---	---
112. Dieldrin	---	---	---	---	---	---	---
113. 4,4'-DDE	---	---	0.86	0.127	0.07 J	---	---
114. Endrin	---	---	---	---	---	---	---
115. Endosulfan II	---	---	---	---	---	---	---
116. 4,4'-DDD	0.07 J	0.1	0.78	0.15	0.09 J	---	---
117. Endrin Aldehyde	---	---	---	---	---	---	---
118. Endosulfan Sulfate	---	---	---	---	---	---	---
119. 4,4'-DDT	1.82	---	---	0.47	---	---	---
120. Endrin Ketone	---	---	---	---	---	---	---
121. Methoxychlor	---	---	---	---	---	---	---
122. Chlordane	---	---	---	---	---	---	---
123. Toxaphene	---	---	---	---	---	---	---
124. AROCLOR-1016	---	---	---	---	---	---	---
125. AROCLOR-1221	---	---	---	---	---	---	---
126. AROCLOR-1232	---	---	---	---	---	---	---
127. AROCLOR-1242	---	---	---	---	---	---	---
128. AROCLOR-1248	---	---	---	---	---	---	---
129. AROCLOR-1254	---	---	---	---	---	---	---
130. AROCLOR-1260	---	---	---	---	---	---	---

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TABLE 6
SUMMARY OF SURFACE WATER ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l)	SF0401	SF0501	SF0601	SF0701	SF07DP	SF07BK	SFDT01
1. Aluminum	238	1600	968	184000	191000	---	14400
2. Antimony	---	---	---	149	214	---	---
3. Arsenic	5.2(XR)	---	---	418	447	---	---
4. Barium	33(X)	38(X)	51(X)	---	---	---	32(X)
5. Beryllium	---	---	---	24	25	---	1(X)
6. Cadmium (IC)	---	4.8(X)	---	136	136	---	7.7
7. Calcium	573000	412000	291000	478000	513000	---	251000
8. Chromium	---	124	73	6140	6480	---	42
9. Cobalt	---	12(X)	4.6(X)	286	288	---	22(X)
10. Copper	16(X)	41	29	2460	2560	---	95
11. Iron	362	8830	6620	567000	599000	---	26800
12. Lead (IC)	---	65	132	371	383	6.1	71
13. Magnesium	152000	472000	217000	966000	952000	---	74300
14. Manganese	2260	6520	2570	19800	19600	---	2420
15. Mercury	0.12(X)	0.16	1.1	0.19(X)	0.72	---	0.52
16. Nickel	12(X)	40(X)	12(X)	680	684	---	59
17. Potassium	12600	2300	13900	18000	13900	---	17600

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(X) = CONCENTRATION LESS THAN THE REQUIRED DETECTION
(R) = SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS
(IC) = INDICATOR COMPOUND

TABLE 6
SUMMARY OF SURFACE WATER ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l)	SF0401	SF0501	SF0601	SF0701	SF07DP	SF078K	SFDT01
18. Selenium	---	---	---	---	---	---	---
19. Silver	---	3.3(X)	6.3(X)	55	60	---	4.6(X)
20. Sodium	242000	760000	505000	37100	38400	3700(X)	193000
21. Thallium	---	---	---	---	---	---	---
22. Tin	---	---	---	---	---	---	---
23. Vanadium	4(X)	8.4(X)	7.5(X)	4430	4640	---	25(X)
24. Zinc	8.8(X)	99	182	16100	16000	2(X)	251
25. Cyanide	---	---	11	12	---	---	43
26. Fluoride (IC)	3400	1500	2400	---	---	---	1800

--- = COMPOUND ANALYZED FOR, BUT NOT DETECTED WITHIN DETECTION LIMITS
(X) CONCENTRATION LESS THAN THE REQUIRED DETECTION LIMITS
(R) = SPIKE SAMPLES RECOVERY NOT WITHIN CONTROL LIMITS
(IC) = INDICATOR COMPOUND

TABLE 7
SUMMARY OF SEDIMENT ANALYTICAL DATA
PRISTINE, INC.

Volatiles (ug/kg)	SD0801	SD0901	SD1001	SD1101	SD11DP	SD1201	SD1301	SD1401	SD14MS
1. Chloromethane	---	---	---	---	---	---	---	---	---
2. Bromomethane	---	---	---	---	---	---	---	---	---
3. Vinyl chloride	---	---	---	---	---	---	---	---	---
4. Chloroethane	---	---	---	---	---	---	---	---	---
5. Methylene Chloride	415.44B	346.30B	258.54B	233.54B	152.42B	59.66 B	29.90 B	149.95B	179.75B
6. Acetone	13.2B	---	---	---	---	---	---	---	---
7. Carbon Disulfide	---	---	---	---	---	---	---	---	---
8. 1,1-Dichloroethene	---	---	---	---	---	---	---	---	---
9. 1,1-Dichloroethane	---	85.47	---	---	---	---	---	---	---
10. trans-1,2-Dichloroethene	---	87.68 J	---	---	---	---	---	---	---
11. Chloroform	---	---	---	---	---	---	---	---	---
12. 1,2-Dichloroethane.	---	2423.4 J	114B	---	---	---	---	---	---
13. 2-Butanone	---	---	---	---	---	---	---	---	---
14. 1,1,1-Trichloroethane	---	146.56 J	---	---	19.70	11.86	---	---	---
15. Carbon Tetrachloride	---	---	---	---	---	---	---	---	---
16. Vinyl Acetate	---	---	---	---	---	---	---	---	---
17. Bromodichloromethane	---	---	---	---	---	---	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	---	---	---
19. 1,2-Dichloropropane	---	102.46	82.2B	---	---	---	---	---	---
20. trans-1,3-Dichloropropene	---	---	---	---	---	---	---	---	---
21. Trichloroethene	50.8	173.8	89.76	---	7.68	---	---	---	---
22. Dibromochloromethane	---	---	---	---	---	---	---	---	---
23. 1,1,2-Trichloroethane	---	---	---	---	---	---	---	---	---
24. Benzene	---	11.67	---	---	---	---	---	---	---
25. cis-1,3-Dichloropropene	---	---	---	---	---	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	---	---	---	---	---	---	---	---	---
27. Bromoform	---	---	---	---	---	---	---	---	---
28. 2-Hexanone	---	718.55J	---	---	---	---	---	---	---
29. 4-Methyl-2-pentanone	---	629.65	---	---	---	---	---	---	---
30. Tetrachloroethene	331.44	153.05	504.07	---	125.15	57.99	3.45 J	3.45 J	---
31. Toluene	51.42	10517	---	76.89	---	---	---	7.65	11.05
32. Chlorobenzene	---	---	---	---	---	---	---	---	---
33. Ethyl Benzene	---	600.52	186.99	---	---	---	---	---	---
34. Styrene	---	---	---	---	---	---	---	---	---
35. Total Xylenes	---	3359.3	447.15	---	---	---	---	---	---

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PRISTINE, INC.

Semi-Volatiles (ug/kg)	SD0801	SD0901	SD1001	SD1101	SD11DP	SD1201	SD1301	SD1401	SD14MS
36. N-Nitrosodimethylamine	---	---	---	---	---	---	---	---	---
37. Phenol	987.51R	---	---	---	---	---	---	837.64R	2376R
38. Aniline	---	---	---	---	---	---	---	---	---
39. bis(2-Chloroethyl) ether	---	---	---	---	---	---	---	---	---
40. 2-Chlorophenol	---	---	---	---	---	---	---	---	---
41. 1,3-Dichlorobenzene	---	---	---	---	---	---	---	---	---
42. 1,4-Dichlorobenzene	---	---	---	---	---	---	---	---	---
43. Benzyl Alcohol	---	---	---	---	---	---	---	---	---
44. 1,2-Dichlorobenzene	---	---	---	---	---	---	---	---	---
45. 2-Methylphenol	---	---	---	---	---	---	---	---	---
46. bis(2-Chloroisopropyl) ether	---	---	---	---	---	---	---	---	---
47. 4-Methylphenol	---	---	---	---	---	---	---	---	---
48. n-Nitroso-Dipropylamine	---	---	---	---	---	---	---	---	---
49. Hexachloroethane	---	---	---	---	---	---	---	---	---
50. Nitrobenzene	---	---	---	---	---	---	---	---	---
51. Isophorone	---	---	---	---	---	---	---	---	---
52. 2-Nitrophenol	---	---	---	---	---	---	---	---	---
53. 2,4-Dimethylphenol	---	---	---	---	---	---	---	---	---
54. Benzoic Acid	---	---	---	---	---	---	---	---	---
55. bis(2-Chloroethoxy) methane	---	---	---	---	---	---	---	---	---
56. 2,4-Dichlorophenol	---	---	---	---	---	---	---	---	---
57. 1,2,4-Trichlorobenzene	---	---	---	---	---	---	---	---	---
58. Naphthalene	---	---	---	---	---	---	---	---	---
59. 4-Chloroaniline	---	---	---	---	---	---	---	---	---
60. Hexachlorobutadiene	---	---	---	---	---	---	---	---	---
61. 4-Chloro-3-methylphenol (para-chloro-meta-cresol)	---	---	---	---	---	---	---	---	---
62. 2-Methylnaphthalene	---	---	---	---	---	---	---	---	---
63. Hexachlorocyclopentadiene	---	---	---	---	---	---	---	---	---
64. 2,4,6-Trichlorophenol	---	---	---	---	---	---	---	---	---
65. 2,4,5-Trichlorophenol	---	---	---	---	---	---	---	---	---
66. 2-Chloronaphthalene	---	---	---	---	---	---	---	---	---
67. 2-Nitroaniline	---	---	---	---	---	---	---	---	---
68. Dimethyl Phthalate	---	---	---	---	---	---	---	---	---
69. Acenaphthylene	---	---	---	---	---	---	---	---	---
70. 3-Nitroaniline	---	---	---	---	---	---	---	---	---

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71. Acenaphthene	---	---	---	---	---	---	---	---	---
72. 2,4-Dinitrophenol	---	---	---	---	---	---	---	---	---
73. 4-Nitrophenol	---	---	---	---	---	---	---	---	---
74. Dibenzofuran	---	---	---	---	---	---	---	---	---
75. 2,4-Dinitrotoluene	---	---	---	---	---	---	---	---	---
76. 2,6-Dinitrotoluene	---	---	---	---	---	---	---	---	---
77. Diethylphthalate	---	---	---	---	---	---	---	---	---
78. 4-Chlorophenyl Phenyl ether	---	---	---	---	---	---	---	---	---
79. Fluorene	---	---	---	---	---	---	---	---	---
80. 4-Nitroaniline	---	---	---	---	---	---	---	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	---	---	---	---	---	---	---
82. N-nitrosodiphenylamine	227.01 J	---	---	---	---	---	---	---	---
83. 4-Bromophenyl Phenyl ether	---	---	---	---	---	---	---	---	---
84. Hexachlorobenzene	---	---	---	---	---	---	---	---	---
85. Pentachlorophenol	---	---	---	---	---	---	---	---	---
86. Phenanthrene	590.24R	---	---	---	---	---	---	486.04 J	268.60 J
87. Anthracene	---	---	---	---	---	---	---	---	---
88. Di-n-butylphthalate	1929.8R	---	---	---	---	---	1218.2J	1344.4J	805.79J
89. Fluoranthene	1021.6R	---	---	---	---	---	---	1241R	991.74R
90. Benzidine	---	---	---	---	---	---	---	---	---
91. Pyrene	998.86R	---	---	---	---	---	---	620.48 J	547.52 J
92. Butyl Benzyl Phthalate	4653.8B	6300B,J	---	---	---	---	155.04BJ	1964.8BJ	1343B,JB
93. 3,3'-Dichlorobenzidine	---	---	---	---	---	---	---	---	---
94. Benzo(a)anthracene	306.47J	---	---	---	---	---	---	413.65J	309.92J
95. bis(2-ethylhexyl)phthalate	21566B	63600B,J	143000BJ	---	8000B,J	12000BJ	841.64BJ	12410 JB	17562B
96. Chrysene	374.57R	---	---	---	---	---	---	610.13 J	420 J
97. Di-n-octyl Phthalate	---	---	---	---	---	---	---	---	---
98. Benzo(b)fluoranthene	---	---	---	---	---	---	---	---	---
99. Benzo(k)fluoranthene	522.13J	---	---	---	---	---	---	---	---
100. Benzo(a)pyrene	---	---	---	---	---	---	---	---	---
101. Ideno(1,2,3-cd)pyrene	---	---	---	---	---	---	---	---	---
102. Dibenz(a,h)anthracene	---	---	---	---	---	---	---	---	---
103. Benzo(g,h,i)perylene	---	---	---	---	---	---	---	---	---

--- = COMPOUND ANALYZED FOR, BUT NOT DETECTED WITHIN DETECTION LIMITS
B = ANALYTE WAS FOUND IN THE BLANK AS WELL AS THE SAMPLE
J = INDICATES AN ESTIMATED VALUE
R = RESTRICTED DATA-ESTIMATED, REVIEWER COMMENT

TABLE 7
SUMMARY OF SEDIMENT ANALYTICAL DATA
PRISTINE, INC.

Pesticides (ug/kg)	SD0801	SD0901	SD1001	SD1101	SD11DP	SD1201	SD1301	SD1401	SD14MS
104. Alpha-BHC	---	---	---	---	---	---	---	---	---
105. beta BHC	---	---	---	---	---	---	---	---	---
106. delta-BHC	---	---	---	---	---	---	---	---	---
107. gamma-BHC (Lindane)	148 J	---	---	---	---	---	---	---	---
108. Heptachlor	---	---	---	---	---	---	---	---	---
109. Aldrin	160 J	---	---	---	251	38 J	---	---	38.1
110. Heptachlor Epoxide	---	---	---	---	---	---	---	---	---
111. Endosulfan I	---	---	---	---	---	---	---	---	---
112. Dieldrin	---	---	---	---	75 J	45 J	4.8 J	46	35
113. 4,4'-DDE	1106	1098	2847	355	1800	791	---	245	179
114. Endrin	---	---	---	---	---	---	---	---	---
115. Endosulfan II	---	---	---	---	---	---	---	---	---
116. 4,4'-DDD	1745	1040	1731	185 J	980	381	3.3 J	69	55
117. Endrin Aldehyde	---	---	---	---	---	---	---	---	---
118. Endosulfan Sulfate	---	---	---	---	---	---	---	---	---
119. 4,4'-DDT	20734	---	---	712	4006	2438	16	444	347
120. Endrin Ketone	---	---	---	---	---	---	---	---	---
121. Methoxychlor	---	---	---	---	---	---	---	---	---
122. Chlordane	---	---	---	---	---	---	---	---	---
123. Toxaphene	---	---	---	---	---	---	---	---	---
124. AROCLOR-1016	---	---	---	---	---	---	---	---	---
125. AROCLOR-1221	---	---	---	---	---	---	---	---	---
126. AROCLOR-1232	---	---	---	---	---	---	---	---	---
127. AROCLOR-1242	---	---	---	---	---	---	---	---	---
128. AROCLOR-1248	---	---	---	---	---	---	---	---	---
129. AROCLOR-1254	---	---	---	---	---	---	---	---	---
130. AROCLOR-1260	---	---	---	---	---	---	---	---	---

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R = RESTRICTED DATA-ESTIMATED, REVIEWER COMMENT

TABLE 7
SUMMARY OF SEDIMENT ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	SD0801	SD0901	SD1001	SD1101	SD11DP	SD1201	SD1301	SD1401	SD14MS
1. Aluminum	5100	7550	12400	10500	10000	7470	4710	1690	2210
2. Antimony	19(X)	59	---	---	22(X)	---	---	---	---
3. Arsenic	25	52	59	40	38	32	13	6.6	8.3
4. Barium	222	284	786	101(X)	105(X)	103(X)	60(X)	127	204
5. Beryllium	0.52(X)	0.69(X)	0.9(X)	0.8(X)	0.8(X)	0.58(X)	0.35(X)	---	0.52(X)
6. Cadmium (IC)	5.9(R)	11(R)	45(R)	2.8(X,R)	4.8(R)	(R)	(R)	6.1(R)	7.4(R)
7. Calcium	64400*	31900*	14200*	7580*	7580(X)	2370(*X)	105000*	107000*	65500*
8. Chromium	343(R)	602*	1520(R)	82(R)	55(R)	136(R)	27(R)	92(R)	117(R)
9. Cobalt	9.2(X)	15(X)	33(X)	17(X)	19(X)	6.9(X)	8.2(X)	7.7(X)	10(X)
10. Copper	76	1020	302	46	46	57	34	74	101
11. Iron	30400	36500	38800	37600	38900	20600	18600	33600	32700
12. Lead (IC)	851(*R)	1040(*R)	2410(*R)	107(*R)	74(*R)	234(R)	90(*R)	466(R)	642(*R)
13. Magnesium	10900	8670	5900(X)	4360	4010	1850(X)	46600	24800	13200
14. Manganese	387*	464*	285*	765*	744*	138*	527*	460*	407*
15. Mercury	2.2(R)	4(R)	15(R)	5.7(R)	8.6(R)	4.5(R)	0.43(R)	2.4(R)	3.4(R)
16. Nickel	20(X)	135	60	34	37	21(X)	26	29	26
17. Potassium	138(X)	1100(X)	1510(X)	1400(X)	1240(X)	710(X)	1290(X)	---	529(X)

--- = COMPOUND ANALYZED FOR, BUT NOT DETECTED WITHIN DETECTION LIMITS
(X) = CONCENTRATION LESS THAN THE REQUIRED DETECTION LIMITS
(R) = SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS
* = DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS
(IC) = INDICATOR COMPOUND

TABLE 7
SUMMARY OF SEDIMENT ANALYTICAL DATA
PRISTINE, INC.

Inorganics (mg/kg)	SD0801	SD0901	SD1001	SD1101	SD11DP	SD1201	SD1301	SD1401	SD14MS
18. Selenium	---	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
19. Silver	7.2*	27*	97*	5(*,X)	4.6(*,X)	9.6(*,X)	2(*,X)	4.9(X)	13*
20. Sodium	1370(X)	2040(X)	4000(X)	963(X)	1130(X)	---	2530(X)	1840(X)	1910(X)
21. Thallium	---	---	---	---	---	---	---	---	---
22. Tin	16(X)	47	92	---	---	---	---	20	30
23. Vanadium	73	38(X)	75	32	32	30(X)	19(X)	12(X)	14(X)
24. Zinc	429	806	1570	152	321	252	102	252	336
25. Cyanide	5.2	4.2	2.8	4.8	4.7	4.2	---	0.73	0.95

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(R) = SPIKE SAMPLE RECOVERY NOT WITHIN CONTROL LIMITS
* = DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS

TABLE 8
SUMMARY OF STORMWATER ANALYTICAL DATA
PRISTINE, INC

Volatiles (ug/l)	SR0201	SR02DP	SR02BK	SR0301	SR0302
1. Chloromethane	---	---	---	---	---
2. Bromomethane	---	---	---	---	---
3. Vinyl chloride	---	---	---	---	---
4. Chloroethane	---	---	---	---	---
5. Methylene Chloride	5.1 B,J	5.1 B,J	31.9 B,J	4.4 B,J	1.5 B,J
6. Acetone	40.9	36.8	23.7	---	---
7. Carbon Disulfide	---	---	10.	---	---
8. 1,1-Dichloroethene	---	---	---	---	---
9. 1,1-Dichloroethane	---	---	---	---	---
10. trans-1,2-Dichloroethene	---	---	---	---	---
11. Chloroform	---	---	---	---	---
12. 1,2-Dichloroethane	---	---	---	---	---
13. 2-Butanone	---	---	---	---	---
14. 1,1,1-Trichloroethane	---	---	---	---	---
15. Carbon Tetrachloride	---	---	---	---	---
16. Vinyl Acetate	---	---	---	---	---
17. Bromodichloromethane	---	---	---	---	---
18. 1,1,2,2-Tetrachloroethane	---	---	---	---	---
19. 1,2-Dichloropropane	---	---	---	---	---
20. trans-1,3-Dichloropropene	---	---	---	---	---
21. Trichloroethene	---	---	---	---	---
22. Dibromochloromethane	---	---	---	---	---
23. 1,1,2-Trichloroethane	---	---	---	---	---
24. Benzene	---	---	---	---	---
25. cis-1,3-Dichloropropene	---	---	---	---	---
26. 2-Chloroethyl Vinyl Ether	10 R	---	10 R	10 R	10 R
27. Bromoform	---	---	---	---	---
28. 2-Hexanone	---	---	---	---	---
29. 4-Methyl-2-pentanone	---	---	---	---	---
30. Tetrachloroethene	---	---	---	---	---
31. Toluene	---	---	---	---	---
32. Chlorobenzene	---	---	---	---	---
33. Ethyl Benzene	---	---	---	---	---
34. Styrene	---	---	---	---	1.6 J
35. Total Xylenes	2.8 J	---	---	---	2.0 J

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TABLE 8
SUMMARY OF STORMWATER ANALYTICAL DATA
PRISTINE, INC

Semi-Volatiles (ug/l)	SR0201	SR02DP	SR02BK	SR0301	SR0302
36. N-Nitrosodimethylamine	---	---	---	---	---
37. Phenol	---	---	---	---	---
38. Aniline	---	---	---	---	---
39. bis(2-Chloroethyl) ether	---	---	---	---	---
40. 2-Chlorophenol	---	---	---	---	---
41. 1,3-Dichlorobenzene	---	---	---	---	---
42. 1,4-Dichlorobenzene	---	---	---	---	---
43. Benzyl Alcohol	---	---	---	---	---
44. 1,2-Dichlorobenzene	---	---	---	---	---
45. 2-Methylphenol	---	---	---	---	---
46. bis(2-Chloroisopropyl)	---	---	---	---	---
ether	---	---	---	---	---
47. 4-Methylphenol	---	---	---	---	---
48. n-Nitroso-Dipropylamine	---	---	---	---	---
49. Hexachloroethane	---	---	---	---	---
50. Nitrobenzene	---	---	---	---	---
51. Isophorone	3 J	---	---	---	---
52. 2-Nitrophenol	---	---	---	---	---
53. 2,4-Dimethylphenol	---	---	---	---	---
54. Benzoic Acid	21.8 J	18.4 J	---	7.4 J	15.2 J
55. bis(2-Chloroethoxy)	---	---	---	---	---
methane					
56. 2,4-Dichlorophenol	---	---	---	---	---
57. 1,2,4-Trichlorobenzene	---	---	---	---	---
58. Naphthalene	---	---	---	---	---
59. 4-Chloroaniline	---	---	---	---	---
60. Hexachlorobutadiene	---	---	---	---	---
61. 4-Chloro-3-methylphenol	---	---	---	---	---
(para-chloro-meta-cresol)	---	---	---	---	---
62. 2-Methylnaphthalene	---	---	---	---	---
63. Hexachlorocyclopentadiene	---	---	---	---	---
64. 2,4,6-Trichlorophenol	---	---	---	---	---
65. 2,4,5-Trichlorophenol	---	---	---	---	---
66. 2-Chloronaphthalene	---	---	---	---	---
67. 2-Nitroaniline	---	---	---	---	---
68. Dimethyl Phthalate	---	---	---	---	---
69. Acenaphthylene	---	---	---	---	---
70. 3-Nitroaniline	---	---	---	---	---

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TABLE 8
SUMMARY OF STORMWATER ANALYTICAL DATA
PRISTINE, INC

Semi-Volatiles (ug/l)	SR0201	SR02DP	SR02BK	SR0301	SR0302
71. Acenaphthene	---	---	---	---	---
72. 2,4-Dinitrophenol	---	---	---	---	---
73. 4-Nitrophenol	---	---	---	---	---
74. Dibenzofuran	---	---	---	---	---
75. 2,4-Dinitrotoluene	---	---	---	---	---
76. 2,6-Dinitrotoluene	---	---	---	---	---
77. Diethylphthalate	---	---	---	---	---
78. 4-Chlorophenyl Phenyl	---	---	---	---	---
ether	---	---	---	---	---
79. Fluorene	---	---	---	---	---
80. 4-Nitroaniline	---	---	---	---	---
81. 4,6-Dintiro-2-methylphenol	---	---	---	---	---
82. N-nitrosodiphenylamine	3.2 J	---	---	---	2.4 J
83. 4-Bromophenyl Phenyl ether	---	---	---	---	---
84. Hexacholorobenzene	---	---	---	---	---
85. Pentachlorophenol	2.6 J	---	---	---	---
86. Phenanthrene	---	---	---	---	---
87. Anthracene	---	---	---	---	---
88. Di-n-butylphthalate	---	---	---	---	---
89. Fluoranthene	---	---	---	---	---
90. Benzidine	---	---	---	---	---
91. Pyrene	---	---	---	---	---
92. Butyl Benzyl Phthalate	2.6 J	---	---	---	3.2 J
93. 3,3'-Dichlorobenzidine	---	---	---	---	---
94. Benzo(a)anthracene	---	---	---	---	---
95. bis(2-ethylhexyl)phthalate	3.8 J	---	---	4.2 J	6.2 J
96. Chrysene	---	---	---	---	---
97. Di-n-octyl Phthalate	---	---	---	---	---
98. Benzo(b)fluoranthene	---	---	---	---	---
99. Benzo(k)fluoranthene	---	---	---	---	---
100. Benzo(a)pyrene	---	---	---	---	---
101. Ideno(1,2,3-cd)pyrene	---	---	---	---	---
102. Dibenz(a,h)anthracene	---	---	---	---	---
103. Benzo(g,h,i)perylene	---	---	---	---	---

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TABLE 8
SUMMARY OF STORMWATER ANALYTICAL DATA
PRISTINE, INC

Pesticides (ug/l)	SR0201	SR02DP	SR02BK	SR0301	SR0302
104. Alpha-BHC	---	---	---	---	---
105. beta BHC	---	---	---	---	---
106. delta-BHC	---	---	---	---	---
107. gamma-BHC (Lindane)	0.27	0.26	---	0.03 J	0.03 J
108. Heptachlor	---	---	---	---	---
109. Aldrin	---	---	---	---	---
110. Heptachlor Epoxide	---	---	---	---	---
111. Endosulfan I	---	---	---	---	---
112. Dieldrin	0.2	0.19	---	0.18	0.12
113. 4,4'-DDE	---	---	---	---	0.06 J
114. Endrin	---	---	---	---	---
115. Endosulfan II	---	---	---	---	---
116. 4,4'-DDD	0.24	0.2	---	0.04 J	0.05 J
117. Endrin Aldehyde	---	---	---	---	---
118. Endosulfan Sulfate	---	---	---	---	---
119. 4,4'-DDT	1.45	1.3	---	0.13	0.21
120. Endrin Ketone	0.12	0.14	---	---	---
121. Methoxychlor	---	---	---	---	---
122. Chlordane	---	---	---	---	---
123. Toxaphene	---	---	---	---	---
124. AROCLOR-1016	---	---	---	---	---
125. AROCLOR-1221	---	---	---	---	---
126. AROCLOR-1232	---	---	---	---	---
127. AROCLOR-1242	---	---	---	---	---
128. AROCLOR-1248	---	---	---	---	---
129. AROCLOR-1254	---	---	---	---	---
130. AROCLOR-1260	---	---	---	---	---

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TABLE 8
SUMMARY OF STORMWATER ANALYTICAL DATA
PRISTINE, INC.

Inorganics - (ug/l)	SR0302	SR0201	SR02DP	SR0301	SR02BK
1. Aluminum	18100	22100	22500	8660	---
2. Antimony	38(X)	---	---	---	---
3. Arsenic	42	16	15	6.6(X)	---
4. Barium	344	32(X)	53(X)	126(X)	---
5. Beryllium	1(X)	3.6(X)	3.3(X)	0.4(X)	---
6. Cadmium (IC)	16	20	19	6.1	---
7. Calcium	205000	317000	315000	220000	---
8. Chromium	196	54	73	71	---
9. Cobalt	20(X)	50	48(X)	4.4(X)	---
10. Copper	173	168	157	72	---
11. Iron	40700	6860	9510	13100	---
12. Lead (IC)	768	59	102	240	---
13. Magnesium	19800	132000	122000	16500	---
14. Manganese	764	6100	5580	346	---
15. Mercury	6.6	---	0.26	2.10	0.11(X)
16. Nickel	44	105	99	19(X)	---
17. Potassium	7890	10300	10700	6240	---

--- = COMPOUND ANALYZED FOR, BUT NOT DETECTED WITH DETECTION LIMITS
(X) = CONCENTRATION LESS THAN THE REQUIRED DETECTION LIMITS
E = DATA NOT USEABLE
(IC) = INDICATOR COMPOUND

TABLE 8
SUMMARY OF STORMWATER ANALYTICAL DATA
PRISTINE, INC.

Inorganics (ug/l)	SR0302	SR0201	SR020P	SR0301	SR028K
18. Selenium	E	E	E	E	E
19. Silver	12	---	---	5.1(X)	3.4(X)
20. Sodium	10000	23300	24200	11800	3730(X)
21. Thallium	---	---	---	---	---
22. Tin	74	---	---	23(X)	---
23. Vanadium	56	14(X)	21(X)	24(X)	---
24. Zinc	622	1330	1240	263	---
25. Cyanide	18	---	---	---	---
26. Fluoride (IC)	820	2000	2000	1300	---

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(X) = CONCENTRATION LESS THAN THE REQUIRED DETECTION LIMITS
E = DATA NOT USEABLE
(IC) = INDICATOR COMPOUND

Analytical Data from Environmental Investigations Performed at the Pristine Superfund Site

(Conestoga-Rovers, 1993)

APPENDIX B

FIRST ROUND PESTICIDE ANALYTICAL RESULTS

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-088 DUPL. S-051192-MO-216 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-089 S-051192-MO-219 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-092 S-051192-MO-222 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-092 DUPL. S-051192-MO-223 (ug/kg)
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	2.01	ND	2.01	ND	1.90	ND	1.96	ND
Dieldrin	3.89	0.18JP	3.89	ND	3.70	ND	3.80	(1.2J) J
4,4'-DDT	3.89	(3.9) ND	3.89	ND	3.70	(3.7) ND	3.80	(180) J

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-089 S-051192-MO-220 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-092 S-051192-MO-224 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-092 DUPL. S-051192-MO-223DL (ug/kg)
Depth Interval		2'-3'		2'-3'		1'-2'
Aldrin	2.06	ND	1.94	ND	19.55	ND
Dieldrin	3.99	(4.0)ND J	3.76	0.11JP	37.95	ND
4,4'-DDT	3.99	(4.0)ND J	3.76	(3.8) ND	37.95	160D

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-089 S-051192-MO-221 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-092 S-051192-MO-225 (ug/kg)
Depth Interval		3'-4'		3'-4'
Aldrin	1.96	ND	1.97	ND
Dieldrin	3.80	(3.8)ND J	3.83	ND
4,4'-DDT	3.80	(3.8)ND J	3.83	(3.8) ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/L)	RINSATE L-051192-MO-226 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-091 S-051292-MO-228 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-091 DUPL. S-051292-MO-229 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-094 S-051292-MO-232 (ug/kg)
PESTICIDES								
Depth Interval		–		1'-2'		1'-2'		1'-2'
Aldrin	0.06	ND	2.01	ND	1.97	ND	2.02	ND
Dieldrin	0.12	ND	3.90	(0.66JP) J	3.83	(3.8) ND	3.93	(12BP) J
4,4'-DDT	0.12	0.0092JP	3.90	(3.9) ND	3.83	ND	3.93	(39BP) J

COMPOUND	QUANTITATION LIMIT (ug/L)	RINSATE L-051292-MO-227 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-091 S-051292-MO-230 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-094 S-051292-MO-233 (ug/kg)
PESTICIDES						
Depth Interval		–		2'-3'		2'-3'
Aldrin	0.05	ND	2.04	ND	1.96	ND
Dieldrin	0.10	0.0052JP	3.96	(4.0) ND	3.80	ND
4,4'-DDT	0.10	0.076J	3.96	(4.0) ND	3.80	(3.8)ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-091 S-051192-MO-231 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-094 S-051292-MO-234 (ug/kg)
PESTICIDES				
Depth Interval		3'-4'		3'-4'
Aldrin	2.07	ND	1.97	ND
Dieldrin	4.03	(4.0)ND	3.83	ND
4,4'-DDT	4.03	(4.0)ND	3.83	(3.8)ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-094 S-051292-MO-232MS (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-085 S-05292-MO-235 (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-051292-MO-238 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-080 S-051292-MO-239 (ug/kg)
PESTICIDES								
Depth Interval		1'-2'		1'-2'		–		1'-2'
Aldrin	2.02	11	2.33	ND	0.05	ND	2.01	(2.0)ND J
Dieldrin	3.93	54	4.52	(4.5)ND J	0.10	0.0026JP	3.89	ND
4,4'-DDT	3.93	85P	4.52	(8.6) ND	0.10	0.012J	3.89	(3.9)ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-094 S-051292-MO-232MSD (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-085 S-051292-MO-236 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-080 S-051292-MO-241 (ug/kg)
PESTICIDES						
Depth Interval		1'-2'		2'-3'		2'-3'
Aldrin	2.02	14	2.21	ND	1.97	ND
Dieldrin	3.93	53	4.29	ND	3.83	(3.8)ND
4,4'-DDT	3.93	76P	4.29	(4.3) ND	3.83	(3.8) ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-085 S-051292-MO-237 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-080 S-051292-MO-242 (ug/kg)
PESTICIDES				
Depth Interval		3'-4'		3'-4'
Aldrin	2.09	ND	2.07	ND
Dieldrin	4.06	(4.1)ND	4.03	ND
4,4'-DDT	4.06	(4.0)ND	4.03	ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-080 DUPL. S-051292-MO-240 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-081 S-051292-M0-243 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-082 S-051292-M0-246 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-082 S-051292-M0-246DL (ug/kg)
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	1.87	ND	1.90	ND	18.53	170P	185.30	230DP
Dieldrin	3.63	ND	3.70	4.1P	35.97	900	359.70	1,300D
4,4'-DDT	3.63	ND	3.70	ND	35.97	700P	359.70	1,200DP

COMPOUND PESTICIDES			QUANTITATION LIMIT (ug/kg)	SB-081 S-051292-M0-244 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-082 S-051292-M0-247 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-082 S-051292-M0-247DL (ug/kg)
Depth Interval				2'-3'		2'-3'		2'-3'
Aldrin			2.01	ND	2142.00	ND	21420.00	ND
Dieldrin			3.89	(3.9)ND	4158.00	ND	41580.00	ND
4,4'-DDT			3.89	(3.9)ND	4158.00	ND	41580.00	ND

COMPOUND PESTICIDES			QUANTITATION LIMIT (ug/kg)	SB-081 S-051292-M0-245 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-082 S-051292-M0-248 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-082 S-051292-M0-248DL (ug/kg)
Depth Interval				3'-4'		3'-4'		3'-4'
Aldrin			1.96	ND	20.91	ND	207.4	ND
Dieldrin			3.80	1.5JBP	40.59	ND	402.6	ND
4,4'-DDT			3.80	ND	40.59	ND	402.6	ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/L)	RINSATE L-051392-M0-249 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB077 S-051392-M0-250 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB077 S-051392-M0-250MS (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-078 S-051392-MO-253 (ug/kg)
Depth Interval		--		1'-2'		1'-2'		1'-2'
Aldrin	0.05	ND	2.13	ND	2.13	18	2.21	9.3
Dieldrin	0.10	ND	4.13	ND	4.13	37	4.29	22
4,4'-DDT	0.10	ND	4.13	4.0JP	4.13	36P	4.29	12P

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-077 S-051392-MO-251 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB077 S-051392-M0-250MSD (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-078 S-051392-MO-254 (ug/kg)
Depth Interval		2'-3'		1'-2'		2'-3'
Aldrin	1.97	ND	2.13	22	2.13	56
Dieldrin	3.83	ND	4.13	38	4.13	170
4,4'-DDT	3.83	2.1JP	4.13	39P	4.13	3.0JP

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-077 S-051392-MO-252 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-078 S-051392-MO-255 (ug/kg)
Depth Interval		3'-4'		3'-4'
Aldrin	2.02	ND	2.04	ND
Dieldrin	3.93	ND	3.96	7.3P
4,4'-DDT	3.93	ND	3.96	2.0JP

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-065 S-051392-MO-256 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-065 DUPL. S-051392-MO-257 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-079 S-051392-MO-261 (ug/kg)
Depth Interval		1'-2'		1'-2'		1'-2'
Aldrin	2.14	ND	2.14	ND	1.97	ND
Dieldrin	4.16	(16P) J	4.16	(10) J	3.83	ND
4,4'-DDT	4.16	(31P) J	4.16	(20P) J	3.83	ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-078 S-051392-MO-254DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-065 S-051392-MO-258 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-079 S-051392-MO-262 (ug/kg)
Depth Interval		2'-3'		2'-3'		2'-3'
Aldrin	21.25	74D	2.07	ND	1.96	ND
Dieldrin	41.25	200D	4.03	ND	3.80	ND
4,4'-DDT	41.25	ND	4.03	(0.55JP) J	3.80	0.40JP

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-065 S-051392-MO-259 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-065 DUPL. S-051392-MO-260 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-079 S-051392-MO-263 (ug/kg)
Depth Interval		3'-4'		3'-4'		3'-4'
Aldrin	1.97	ND	1.96	ND	2.01	ND
Dieldrin	3.83	(3.8)ND J	3.80	ND	3.89	ND
4,4'-DDT	3.83	(0.93JP) J	3.80	0.56JP	3.89	(3.9) ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-056 S-051392-MO-264 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-056 S-051392-MO-264 DL (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-051392-MO-267 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-67/68 S-051492-JM-268 (ug/kg)
Depth Interval		1'-2'		1'-2'		–		1'-2'
Aldrin	20.91	ND	2,091.00	ND	0.05	ND	205.70	ND
Dieldrin	40.59	220JP	4,059.00	ND	0.10	ND	399.30	360JP
4,4'-DDT	40.59	30,000	4,059.00	42,000DP	0.10	0.0032JP	399.30	17,000

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-056 S-051392-MO-265 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-056 S-051392-MO-265DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-67/68 S-051492-JM-269 (ug/kg)
Depth Interval		2'-3'		2'-3'		2'-3'
Aldrin	2.13	ND	21.25	ND	20.40	ND
Dieldrin	4.13	(4.1)ND J	41.25	ND	39.60	61P
4,4'-DDT	4.13	140P	41.25	130DP	39.60	3,000

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-056 S-051392-MO-266 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-67/68 S-051492-JM-270 (ug/kg)
Depth Interval		3'-4'		3'-4'
Aldrin	1.90	(1.9)ND J	2.13	ND
Dieldrin	3.70	(3.7)ND J	4.13	ND
4,4'-DDT	3.70	(0.79JP) J	4.13	38

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-67/68 S-051492-JM-268DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-67/68 S-051492-JM-268MS (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-83/84 S-051492-JM-271 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-83/84 S-051492-JM-271DL (ug/kg)
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	2,057.00	ND	205.70	ND	20.91	ND	209.10	ND
Dieldrin	3,993.00	ND	399.30	210P	40.59	ND	405.90	ND
4,4'-DDT	3,993.00	21,000DP	399.30	23,000	40.59	1,500	405.90	1,100DP

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-67/68 S-051492-JM-269DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-67/68 S-051492-JM-268MSD (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-83/84 S-051492-JM-273 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-83/84 DUPL. S-051492-JM-272 (ug/kg)
Depth Interval		2'-3'		1'-2'		2'-3'		1'-2'
Aldrin	204.00	ND	205.70	ND	2.01	ND	217.60	ND
Dieldrin	396.00	ND	399.30	210P	3.89	ND	422.40	ND
4,4'-DDT	396.00	4,500DP	399.30	24,000	3.89	(11) J	422.40	6,500P

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-83/84 S-051492-JM-274 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-83/84 DUPL. S-051492-JM-272DL (ug/kg)
Depth Interval		3'-4'		1'-2'
Aldrin	2.01	ND	2176.00	ND
Dieldrin	3.89	ND	4224.00	ND
4,4'-DDT	3.89	(3.9) ND	4224.00	11,000D

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/L)	RINSATE L-051892-JM-275 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-073 S-051892-JM-277 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-073 S-051892-JM-277DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-070 S-051892-JM-280 (ug/kg)
Depth Interval		–		1'-2'		1'-2'		1'-2'
Aldrin	0.06	ND	2.04	ND	20.40	ND	2.26	ND
Dieldrin	0.11	ND	3.96	ND	39.60	ND	4.39	ND
4,4'-DDT	0.11	0.015J	3.96	(93) J	39.60	85D	4.39	(4.4) ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/L)	RINSATE L-051892-JM-276 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-073 S-051892-JM-278 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-073 S-051892-JM-277MS (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-070 S-051892-JM-282 (ug/kg)
Depth Interval		–		2'-3'		1'-2'		2'-3'
Aldrin	0.05	ND	2.07	ND	2.04	17	1.97	ND
Dieldrin	0.11	ND	4.03	ND	3.96	43	3.83	ND
4,4'-DDT	0.11	0.014JP	4.03	(4.0)ND	3.96	120	3.83	(3.8) ND

COMPOUND PESTICIDES			QUANTITATION LIMIT (ug/kg)	SB-073 S-051892-JM-279 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-073 S-051892-JM-277MSD (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-070 S-051892-JM-283 (ug/kg)
Depth Interval				3'-4'		1'-2'		3'-4'
Aldrin			2.09	ND	2.04	16	2.04	ND
Dieldrin			4.06	ND	3.96	37	3.96	ND
4,4'-DDT			4.06	8.3	3.96	85	3.96	ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-070 DUPL. S-051892-JM-281 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-063 S-051892-JM-284 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-122 S-051892-JM-287 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-122 DUPL. S-051892-JM-288 (ug/kg)
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	2.26	ND	1.97	ND	2.13	ND	2.14	ND
Dieldrin	4.39	ND	3.83	ND	4.13	ND	4.16	ND
4,4'-DDT	4.39	(4.4) ND	3.83	ND	4.13	11	4.16	(4.9) J

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-063 S-051892-JM-285 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-122 S-051892-JM-289 (ug/kg)
Depth Interval		2'-3'		2'-3'
Aldrin	1.96	ND	2.02	ND
Dieldrin	3.80	ND	3.93	ND
4,4'-DDT	3.80	(3.8) ND	3.93	ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-063 S-051892-JM-286 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-122 S-051892-JM-290 (ug/kg)
Depth Interval		3'-4'		3'-4'
Aldrin	2.01	ND	2.04	ND
Dieldrin	3.89	ND	3.96	ND
4,4'-DDT	3.89	ND	3.96	6.7

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-034 S-051892-JM-291 (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-051892-JM-294 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-011 S-051892-JM-296 (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-051992-JM-299 (ug/L)
Depth Interval		1'-2'		–		1'-2'		–
Aldrin	1.96	ND	0.05	ND	2.02	(2.0)ND J	0.05	ND
Dieldrin	3.80	0.19JP	0.11	ND	3.93	(0.32J) J	0.11	ND
4,4'-DDT	3.80	(3.8) ND	0.11	0.026JP	3.93	(3.9)ND J	0.11	ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-034 S-051892-JM-292 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-011 S-051892-JM-297 (ug/kg)
Depth Interval		2'-3'		2'-3'
Aldrin	1.90	ND	2.07	ND
Dieldrin	3.70	(3.7)ND J	4.03	ND
4,4'-DDT	3.70	(3.7)ND J	4.03	ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-034 S-051892-JM-293 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-011 S-051892-JM-298 (ug/kg)
Depth Interval		3'-4'		3'-4'
Aldrin	2.01	ND	2.13	ND
Dieldrin	3.89	ND	4.13	ND
4,4'-DDT	3.89	ND	4.13	ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-41/42 S-051992-JM-300 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-41/42 S-051992-JM-300DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-23/24 S-051992-JM-303 (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-051992-JM-309 (ug/L)
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		–
Aldrin	20.06	ND	200.60	ND	1.96	ND	0.05	ND
Dieldrin	38.94	12J	389.40	(14)PD) J	3.80	ND	0.11	ND
4,4'-DDT	38.94	1,800	389.40	1,700D	3.80	ND	0.11	0.036J

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-41/42 S-051992-JM-301 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-41/42 S-051992-JM-301MS (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-23/24 S-051992-JM-304 (ug/kg)
PESTICIDES						
Depth Interval		2'-3'		2'-3'		2'-3'
Aldrin	2.09	ND	2.09	18	1.96	ND
Dieldrin	4.06	(4.1)ND J	4.06	36	3.80	(3.8)ND J
4,4'-DDT	4.06	(16.0) J	4.06	46BP	3.80	(3.8)ND J

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-41/42 S-051992-JM-302 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-41/42 S-051992-JM-301MSD (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-23/24 S-051992-JM-305 (ug/kg)
PESTICIDES						
Depth Interval		3'-4'		2'-3'		3'-4'
Aldrin	2.02	ND	2.09	18	1.90	ND
Dieldrin	3.93	ND	4.06	37	3.70	(3.7)ND J
4,4'-DDT	3.93	0.56JP	4.06	47B	3.70	(3.7)ND J

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-012 S-051992-JM-314 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-012 S-051992-JM-314DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-013/016 S-051992-JM-317 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-013/016 S-051992-JM-317DL (ug/kg)
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	22.10	ND	221.00	ND	2.24	ND	224.40	ND
Dieldrin	42.90	(43)ND J	429.00	ND	4.36	9.0P	435.60	10JD
4,4'-DDT	42.90	(43)ND J	429.00	ND	4.36	2.1JP	435.60	2.7JPD

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-012 S-051992-JM-315 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-013/016 S-051992-JM-318 (ug/kg)
Depth Interval		2'-3'		2'-3'
Aldrin	2.74	ND	2.36	ND
Dieldrin	5.31	(5.3)ND J	4.59	ND
4,4'-DDT	5.31	(5.3)ND J	4.59	ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-012 S-051992-JM-316 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-012 S-051992-JM-316DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-013/016 S-051992-JM-319 (ug/kg)
Depth Interval		3'-4'		3'-4'		3'-4'
Aldrin	2.65	ND	26.52	ND	2.53	ND
Dieldrin	5.15	ND	51.48	ND	4.92	13
4,4'-DDT	5.15	19P	51.48	ND	4.92	21P

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/L)	RINSATE L-052092-JM-319 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-018 S-052092-JM-320 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-018 S-052092-JM-320DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-019 S-052092-JM-323 (ug/kg)
PESTICIDES								
Depth Interval		–		1'-2'		1'-2'		1'-2'
Aldrin	0.06	ND	1.97	(14) J	19.72	9.8DJP	20.23	19JP
Dieldrin	0.11	ND	3.83	(65) J	38.28	80D	39.27	64
4,4'-DDT	0.11	ND	3.83	(96BP) J	38.28	100 DBP	39.27	(6.8)ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-018 S-052092-JM-321 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-018 S-052092-JM-320MS (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-019 S-052092-JM-325 (ug/kg)
PESTICIDES						
Depth Interval		2'-3'		1'-2'		2'-3'
Aldrin	2.14	ND	19.72	46P	2.43	ND
Dieldrin	4.16	0.49JP	38.28	160P	4.72	ND
4,4'-DDT	4.16	(4.2)ND	38.28	140 BP	4.72	ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-018 S-052092-JM-322 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-018 S-052092-JM-320MSD (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-019 S-052092-JM-326 (ug/kg)
PESTICIDES						
Depth Interval		3'-4'		1'-2'		3'-4'
Aldrin	2.09	ND	19.72	74P	1.9	ND
Dieldrin	4.06	(4.1)ND J	38.28	420P	3.7	ND
4,4'-DDT	4.06	(4.0)ND	38.28	210BP	3.7	ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-019 S-052092-JM-323DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-019 DUPL. S-052092-JM-324 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-025 S-052092-JM-327 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-025 S-052092-JM-327DL (ug/kg)
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	202.30	ND	20.06	30P	19.38	460 P	193.80	600DP
Dieldrin	392.70	47DJP	38.94	85	37.62	300 P	376.20	430DP
4,4'-DDT	392.70	ND	38.94	(39)ND	37.62	(49)ND	376.20	(86)ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-019 DUPL. S-052092-JM-324DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-025 S-052092-JM-328 (ug/kg)
Depth Interval		1'-2'		2'-3'
Aldrin	200.60	ND	1.90	ND
Dieldrin	389.40	71DJP	3.70	1.4JP
4,4'-DDT	389.40	ND	3.70	(3.7)ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-025 S-052092-JM-329 (ug/kg)
Depth Interval		3'-4'
Aldrin	1.94	ND
Dieldrin	3.76	ND
4,4'-DDT	3.76	ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-003 S-052092-JM-330 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-003 DUPL. S-052092-JM-331 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-002 S-052092-JM-334 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-002 S-052092-JM-334DL (ug/kg)
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	1.90	11P	1.94	ND	2.04	(80) J	20.40	120DP
Dieldrin	3.70	7.5	3.76	9.6P	3.96	11	39.60	19DJ
4,4'-DDT	3.70	(3.7)ND	3.76	9.1 BP	3.96	ND	39.60	ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-003 S-052092-JM-332 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-003 S-052092-JM-332DL (ug/kg)	QUANTITATION LIMIT	SB-002 S-052092-JM-335 (ug/kg)
PESTICIDES						
Depth Interval		2'-3'		2'-3'		2'-3'
Aldrin	2.01	9.1P	20.06	ND	2.01	0.11JP
Dieldrin	3.89	ND	38.94	8.9DJ	3.89	0.12JP
4,4'-DDT	3.89	68 BP	38.94	87 DBP	3.89	0.29J

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-003 S-052092-JM-333 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-002 S-052092-JM-336 (ug/kg)
PESTICIDES				
Depth Interval		3'-4'		3'-4'
Aldrin	2.04	ND	2.02	ND
Dieldrin	3.96	ND	3.93	0.074JP
4,4'-DDT	3.96	(13 BP) J	3.93	0.10JP

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-001 S-052092-JM-337 (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-052092-JM-340 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-004 S-052192-JM-342 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-004 S-052192-JM-342MS (ug/kg)
Depth Interval		1'-2'		–		1'-2'		1'-2'
Aldrin	1.90	ND	0.06	ND	1.97	(2.0)ND J	1.97	70P
Dieldrin	3.70	31	0.11	ND	3.83	12P	3.83	61
4,4'-DDT	3.70	1.5JP	0.11	ND	3.83	0.70JP	3.83	36P

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-001 S-052092-JM-338 (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-052192-JM-341 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-004 S-052192-JM-343 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-004 S-052192-JM-342MSD (ug/kg)
Depth Interval		2'-3'		–		2'-3'		1'-2'
Aldrin	2.06	ND	0.06	ND	1.97	ND	1.97	68P
Dieldrin	3.99	0.32JP	0.11	ND	3.83	0.48JP	3.83	70
4,4'-DDT	3.99	ND	0.11	ND	3.83	3.4JP	3.83	32P

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-001 S-052092-JM-339 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-004 S-052192-JM-344 (ug/kg)
Depth Interval		3'-4'		3'-4'
Aldrin	1.97	0.11JP	2.02	ND
Dieldrin	3.83	ND	3.93	0.13JP
4,4'-DDT	3.83	ND	3.93	ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-020 S-052192-JM-345 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-020 DUPL. S-052192-JM-346 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-028 S-052192-JM-349 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-028 S-052192-JM-349DL (ug/kg)
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	2.02	0.27J	2.02	ND	1.89	18	18.87	28
Dieldrin	3.93	(1.5JP) J	3.93	(2.3JP) J	3.66	22	36.63	26J
4,4'-DDT	3.93	(2.1JP) J	3.93	(1.9JP) J	3.66	80P	36.63	84P

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-020 S-052192-JM-347 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-028 S-052192-JM-350 (ug/kg)
PESTICIDES				
Depth Interval		2'-3'		2'-3'
Aldrin	2.04	0.98J	1.96	ND
Dieldrin	3.96	(4.0JP) J	3.80	ND
4,4'-DDT	3.96	(5.9P) J	3.80	(3.8) ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-020 S-052192-JM-348 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-028 S-052192-JM-351 (ug/kg)
PESTICIDES				
Depth Interval		3'-4'		3'-4'
Aldrin	1.97	ND	1.94	ND
Dieldrin	3.83	(0.12JP) J	3.76	ND
4,4'-DDT	3.83	(0.29JP) J	3.76	ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-029 S-052192-JM-352 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-058 S-052192-JM-355 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-058 DUPL. S-052192-JM-356 (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-052192-JM-362 (ug/L)
Depth Interval		1'-2'		1'-2'		1'-2'		–
Aldrin	2.04	ND	2.07	2.4P	1.87	2.6P	0.05	0.0012J
Dieldrin	3.96	ND	4.03	12	3.63	12	0.10	0.0038JP
4,4'-DDT	3.96	ND	4.03	3.3JP	3.63	2.1JP	0.10	0.012JP

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-029 S-052192-JM-353 (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-052792-JM-363 (ug/L)
Depth Interval		2'-3'		–
Aldrin	2.04	ND	0.05	ND
Dieldrin	3.96	ND	0.10	ND
4,4'-DDT	3.96	ND	0.10	ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-029 S-052192-JM-354 (ug/kg)
Depth Interval		3'-4'
Aldrin	2.13	3.6P
Dieldrin	4.13	11P
4,4'-DDT	4.13	26P

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-060 S-052792-JM-364 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-069 S-052792-JM-367 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-069 S-052792-JM-367MS (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-072 S-052792-JM-370 (ug/kg)
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	2.04	1.8JP	2.33	ND	2.33	17	2.43	ND
Dieldrin	3.96	ND	4.52	ND	4.52	38	4.72	ND
4,4'-DDT	3.96	21P	4.52	2.0JP	4.52	45	4.72	ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-060 S-052792-JM-365 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-069 S-052792-JM-368 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-069 S-052792-JM-367MSD (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-072 S-052792-JM-372 (ug/kg)
PESTICIDES								
Depth Interval		2'-3'		2'-3'		1'-2'		2'-3'
Aldrin	2.24	ND	2.14	ND	2.33	16	2.21	ND
Dieldrin	4.36	(2.0J) J	4.16	0.15JP	4.52	39	4.29	ND
4,4'-DDT	4.36	(24) J	4.16	1.8JP	4.52	42	4.29	ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-060 S-052792-JM-366 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-069 S-052792-JM-369 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-072 S-052792-JM-373 (ug/kg)
PESTICIDES						
Depth Interval		3'-4'		3'-4'		3'-4'
Aldrin	2.02	ND	2.02	ND	2.07	ND
Dieldrin	3.93	ND	3.93	ND	4.03	ND
4,4'-DDT	3.93	ND	3.93	ND	4.03	ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-072 DUPL. S-052792-JM-371 (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-052792-JM-374 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-075 S-052792-JM-375 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-066 S-052792-JM-378 (ug/kg)
Depth Interval		1'-2'		–		1'-2'		1'-2'
Aldrin	2.36	(2.4)ND J	0.05	ND	2.18	ND	2.04	ND
Dieldrin	4.59	ND	0.10	ND	4.22	ND	3.96	ND
4,4'-DDT	4.59	0.38JP	0.10	ND	4.22	ND	3.96	ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-075 S-052792-JM-376 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-066 S-052792-JM-380 (ug/kg)
Depth Interval		2'-3'		2'-3'
Aldrin	2.07	ND	2.04	(2.0)ND J
Dieldrin	4.03	ND	3.96	ND
4,4'-DDT	4.03	ND	3.96	ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-075 S-052792-JM-377 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-066 S-052792-JM-381 (ug/kg)
Depth Interval		3'-4'		3'-4'
Aldrin	2.02	ND	2.04	ND
Dieldrin	3.93	ND	3.96	ND
4,4'-DDT	3.93	ND	3.96	ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-066 DUPL. S-052792-JM-379 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-062 S-052792-JM-382 (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-052892-JM-385 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-061 S-052892-JM-386 (ug/kg)
PESTICIDES								
Depth Interval		1'-2'		1'-2'		–		1'-2'
Aldrin	2.02	ND	2.13	(1.6JP) J	0.05	ND	2.06	(2.1)ND J
Dieldrin	3.93	ND	4.13	ND	0.10	ND	3.99	(0.60JP) J
4,4'-DDT	3.93	ND	4.13	(0.62JP) J	0.10	ND	3.99	(4.0)ND J

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-062 S-052792-JM-383 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-061 S-052892-JM-388 (ug/kg)
PESTICIDES				
Depth Interval		2'-3'		2'-3'
Aldrin	2.07	0.75JP	2.14	ND
Dieldrin	4.03	0.44J	4.16	0.061JP
4,4'-DDT	4.03	6.3P	4.16	ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-062 S-052792-JM-384 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-061 S-052892-JM-389 (ug/kg)
PESTICIDES				
Depth Interval		3'-4'		3'-4'
Aldrin	2.01	ND	2.09	ND
Dieldrin	3.89	ND	4.06	ND
4,4'-DDT	3.89	ND	4.06	ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-061 DUPL. S-052892-JM-387 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-074 S-052892-JM-390 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-123 S-052892-JM-393 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-123 S-052892-JM-393DL (ug/kg)
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	2.18	(6.2) J	2.13	ND	2.14	(71P)R	21.42	190DP
Dieldrin	4.22	(4.7) J	4.13	ND	4.16	(94)R	41.58	140D
4,4'-DDT	4.22	(2.7JP) J	4.13	0.36JP	4.16	(100P) J	41.58	140DP

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-074 S-052892-JM-391 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-123 S-052892-JM-394 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-123 S-052892-JM-393MS (ug/kg)
Depth Interval		2'-3'		2'-3'		1'-2'
Aldrin	2.06	ND	2.09	ND	2.14	67P
Dieldrin	3.99	ND	4.06	ND	4.16	93
4,4'-DDT	3.99	0.41JP	4.06	0.76JP	4.16	110

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-074 S-052892-JM-392 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-123 S-052892-JM-395 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-123 S-052892-JM-393MSD (ug/kg)
Depth Interval		3'-4'		3'-4'		1'-2'
Aldrin	2.02	ND	2.26	ND	2.14	68P
Dieldrin	3.93	ND	4.39	ND	4.16	84P
4,4'-DDT	3.93	0.41JP	4.39	ND	4.16	140

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/L)	RINSATE L-052892-JM-396 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-071 S-052892-JM-397 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-064 S-052892-JM-400 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-064 DUPL. S-052892-JM-401 (ug/kg)
PESTICIDES								
Depth Interval		–		1'-2'		1'-2'		1'-2'
Aldrin	0.05	ND	2.01	ND	1.96	0.71JP	1.89	1.5JP
Dieldrin	0.10	ND	3.89	ND	3.80	0.63J	3.66	2.7J
4,4'-DDT	0.10	ND	3.89	0.22JP	3.80	2.3JP	3.66	15P

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-071 S-052892-JM-398 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-064 S-052892-JM-402 (ug/kg)
PESTICIDES				
Depth Interval		2'-3'		2'-3'
Aldrin	2.01	ND	2.01	ND
Dieldrin	3.89	0.33JP	3.89	ND
4,4'-DDT	3.89	1.2JP	3.89	ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-071 S-052892-JM-399 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-064 S-052892-JM-403 (ug/kg)
PESTICIDES				
Depth Interval		3'-4'		3'-4'
Aldrin	2.01	ND	1.97	ND
Dieldrin	3.89	ND	3.83	ND
4,4'-DDT	3.89	0.42JP	3.83	ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-059 S-052892-JM-404 (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-052992-JM-405 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-108 S-052992-JM-406 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-108 S-052992-JM-406MS (ug/kg)
Depth Interval		1'-2'		–		1'-2'		1'-2'
Aldrin	2.30	ND	0.05	ND	2.24	(6.0P) J	2.24	24P
Dieldrin	4.46	0.61J	0.11	ND	4.36	(8.9) J	4.36	47
4,4'-DDT	4.46	1.8JP	0.11	ND	4.36	(6.1P) J	4.36	44P

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-108 S-052992-JM-407 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-108 S-052992-JM-406MSD (ug/kg)
Depth Interval		2'-3'		1'-2'
Aldrin	1.97	ND	2.24	26
Dieldrin	3.83	ND	4.36	46
4,4'-DDT	3.83	32P	4.36	46P

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-108 S-052992-JM-408 (ug/kg)
Depth Interval		3'-4'
Aldrin	2.02	ND
Dieldrin	3.93	ND
4,4'-DDT	3.93	6.7P

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-022 S-052992-JM-409 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-022 DUPL. S-052992-JM-410 (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-060192-MO-413 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-103 S-060192-MO-414 (ug/kg)
PESTICIDES								
Depth Interval		1'-2'		1'-2'		-		1'-2'
Aldrin	1.94	ND	1.96	ND	0.05	ND	19.72	ND
Dieldrin	3.76	0.10JP	3.80	0.25P	0.10	ND	38.28	6.6JP
4,4'-DDT	3.76	7.5	3.80	3.8	0.10	ND	38.28	1,000P

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-022 S-052992-JM-411 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-103 S-060192-MO-415 (ug/kg)
PESTICIDES				
Depth Interval		2'-3'		2'-3'
Aldrin	1.96	ND	202.30	ND
Dieldrin	3.80	ND	392.70	ND
4,4'-DDT	3.80	(8.2) J	392.70	14,000P

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-022 S-052992-JM-412 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-103 S-060192-MO-417 (ug/kg)
PESTICIDES				
Depth Interval		3'-4'		3'-4'
Aldrin	2.02	ND	20.57	ND
Dieldrin	3.93	ND	39.93	9.3JP
4,4'-DDT	3.93	(2.9) J	39.93	1,200P

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-103 S-060192-MO-414DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-103 S-060192-MO-414MS (ug/kg)
Depth Interval		1'-2'		1'-2'
Aldrin	197.20	ND	1.97	17
Dieldrin	382.80	ND	3.83	47
4,4'-DDT	382.80	1,300D	3.83	460P

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-103 S-060192-MO-415DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-103DUPL. S-060192-MO-416 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-103 DUPL. S-060192-MO-416DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-103 S-060192-MO-414MSD (ug/kg)
Depth Interval		2'-3'		2'-3'		2'-3'		1'-2'
Aldrin	2,023.00	ND	200.60	ND	2006.00	ND	1.97	15
Dieldrin	3,927.00	ND	389.40	ND	3894.00	ND	3.83	43P
4,4'-DDT	3,927.00	24,000D	389.40	18,000P	3894.00	66,000D	3.83	280P

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-103 S-060192-MO-417DL (ug/kg)
Depth Interval		3'-4'
Aldrin	205.70	ND
Dieldrin	399.30	ND
4,4'-DDT	399.30	1,800DP

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-105 S-060192-MO-418 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-105 S-060192-MO-418DL (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-060292-MO-421 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-102 S-060292-MO-422 (ug/kg)
PESTICIDES								
Depth Interval		1'-2'		1'-2'		–		1'-2'
Aldrin	2.40	41	23.97	57D	0.05	ND	19.38	ND
Dieldrin	4.65	30	46.53	45DJ	0.10	ND	37.62	ND
4,4'-DDT	4.65	44P	46.53	52DP	0.10	0.013J	37.62	1,500P

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-105 S-060192-MO-419 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-105 S-060192-MO-419DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-102 S-060292-MO-424 (ug/kg)
PESTICIDES						
Depth Interval		2'-3'		2'-3'		2'-3'
Aldrin	23.63	ND	236.30	ND	2.13	ND
Dieldrin	45.87	ND	458.70	ND	4.13	ND
4,4'-DDT	45.87	380P	458.70	1,100D	4.13	29

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-105 S-060192-MO-420 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-105 S-060192-MO-420DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-102 S-060292-MO-425 (ug/kg)
PESTICIDES						
Depth Interval		3'-4'		3'-4'		3'-4'
Aldrin	2.30	ND	22.95	ND	2.13	ND
Dieldrin	4.46	3.3JP	44.55	ND	4.13	ND
4,4'-DDT	4.46	150P	44.55	40DP	4.13	0.86J

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-102 S-060292-MO-422DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-101 S-060292-MO-426 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-101 S-060292-MO-426DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-014 S-060292-MO-429 (ug/kg)
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	193.80	ND	2.09	ND	20.91	ND	1.90	(ND) R
Dieldrin	376.20	ND	4.06	ND	40.59	ND	3.70	(ND) R
4,4'-DDT	376.20	5,200D	4.06	150P	40.59	340D	3.70	(75) R

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-102 DUPL. S-060292-MO-423 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-101 S-060292-MO-427 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-101 S-060292-MO-427DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-014 S-060292-MO-430 (ug/kg)
Depth Interval		1'-2'		2'-3'		2'-3'		2'-3'
Aldrin	20.06	ND	2.02	ND	20.23	(20.2)ND J	19.72	(110) R
Dieldrin	38.94	ND	3.93	ND	39.27	(39.3)ND J	38.28	(280P) R
4,4'-DDT	38.94	1,300P	3.93	71P	39.27	(65DP) J	38.28	(600P) R

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-102 DUPL. S-060292-MO-423DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-101 S-060292-MO-428 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-014 S-060292-MO-431 (ug/kg)
Depth Interval		1'-2'		3'-4'		3'-4'
Aldrin	200.60	ND	2.02	ND	20.23	(ND) R
Dieldrin	389.40	ND	3.93	ND	39.27	(20JP) R
4,4'-DDT	389.40	3,600D	3.93	5.1P	39.27	(190P) R

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-014 S-060292-MO-429DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-21/37 S-060292-MO-432 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-21/37 S-060292-MO-432DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-21/37 S-060292-MO-432MS (ug/kg)
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	19.04	(19)ND J	35.87	(110)J	374.00	120DJ	37.40	160P
Dieldrin	36.96	(37)ND J	69.63	1,000	726.00	1,100D	72.60	1,700P
4,4'-DDT	36.96	(61DP) J	69.63	1,800	726.00	1,900D	72.60	840P

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-014 S-060292-MO-430DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-21/37 S-060292-MO-433 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-21/37 S-060292-MO-433DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-21/37 S-060292-MO-432MSD (ug/kg)
PESTICIDES								
Depth Interval		2'-3'		2'-3'		2'-3'		1'-2'
Aldrin	197.20	150DJP	2.01	1.7JP	20.06	ND	37.40	130
Dieldrin	382.80	360DJP	3.89	64	38.94	84D	72.60	940
4,4'-DDT	382.80	970DP	3.89	3.7JP	38.94	ND	72.60	890

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-014 S-060292-MO-431DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-21/37 S-060292-MO-434 (ug/kg)
PESTICIDES				
Depth Interval		3'-4'		3'-4'
Aldrin	202.30	ND	1.90	0.95J
Dieldrin	392.70	ND	3.70	(40)J
4,4'-DDT	392.70	140DJP	3.70	(3.7)ND J

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-106/107 S-060292-MO-439 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-106/107 S-060292-MO-439DL (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-060292-MO-442 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-99/100 S-060392-MO-444 (ug/kg)
Depth Interval		1'-2'		1'-2'		–		1'-2'
Aldrin	195.50	ND	1955.00	(1955)ND J	0.05	ND	2.01	ND
Dieldrin	379.50	220J	3795.00	(3795)ND J	0.10	ND	3.89	(1.9J) J
4,4'-DDT	379.50	9,000	3795.00	(9,000D) J	0.10	0.053J	3.89	0.61JP

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-106/107 S-060292-MO-440 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-106/107 S-060292-MO-440DL (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-060392-MO-443 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-99/100 S-060392-MO-445 (ug/kg)
Depth Interval		2'-3'		2'-3'		–		2'-3'
Aldrin	2.04	ND	20.40	(20.4)ND J	0.05	ND	1.96	ND
Dieldrin	3.96	(130P) J	39.60	(180 D) J	0.11	ND	3.80	ND
4,4'-DDT	3.96	(230P) J	39.60	(220 DP) J	0.11	ND	3.80	3.3JP

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-106/107 S-060292-MO-441 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-99/100 S-060392-MO-446 (ug/kg)
Depth Interval		3'-4'		3'-4'
Aldrin	2.01	ND	1.94	ND
Dieldrin	3.89	2.2JP	3.76	ND
4,4'-DDT	3.89	ND	3.76	0.83JP

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-99/100 S-060392-MO-444MS (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-96/97 S-060392-MO-447 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-96/97 S-060392-MO-447DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-031 S-060392-MO-454 (ug/kg)
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	2.01	15	202.30	ND	2023.00	ND	1.85	ND
Dieldrin	3.89	36	392.70	ND	3927.00	ND	3.60	ND
4,4'-DDT	3.89	37	392.70	14,000	3927.00	22,000D	3.60	0.67J

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-99/100 S-060392-MO-444MSD (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-96/97 S-060392-MO-449 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-96/97 DUPL. S-060392-MO-448 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-031 S-060392-MO-456 (ug/kg)
PESTICIDES								
Depth Interval		1'-2'		2'-3'		1'-2'		2'-3'
Aldrin	2.01	16	1.97	ND	197.20	ND	2.01	ND
Dieldrin	3.89	40	3.83	ND	382.80	ND	3.89	0.73JP
4,4'-DDT	3.89	41	3.83	30P	382.80	11,000P	3.89	1.2JP

COMPOUND		QUANTITATION LIMIT (ug/kg)	SB-96/97 S-060392-MO-450 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-96/97 DUPL. S-060392-MO-448DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-031 S-060392-MO-457 (ug/kg)
PESTICIDES							
Depth Interval			3'-4'		1'-2'		3'-4'
Aldrin		2.02	ND	1972.00	ND	2.01	ND
Dieldrin		3.93	ND	3828.00	ND	3.89	ND
4,4'-DDT		3.93	0.50JP	3828.00	12,000D	3.89	0.74JP

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-031DUPL. S-060392-MO-455 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-047 S-060392-MO-458 (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-060392-MO-461 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-98 S-060492-MO-463 (ug/kg)
Depth Interval		1'-2'		1'-2'		–		1'-2'
Aldrin	1.89	ND	2.13	ND	0.05	ND	2.26	ND
Dieldrin	3.66	0.45JP	4.13	0.58JP	0.11	ND	4.39	1.3JP
4,4'-DDT	3.66	ND	4.13	2.4JP	0.11	ND	4.39	(4.0)ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-047 S-060392-MO-459 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-98 S-060492-MO-465 (ug/kg)
Depth Interval		2'-3'		2'-3'
Aldrin	2.04	ND	2.18	ND
Dieldrin	3.96	ND	4.22	ND
4,4'-DDT	3.96	1.5J	4.22	(4.2)ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-047 S-060392-MO-460 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-98 S-060492-MO-466 (ug/kg)
Depth Interval		3'-4'		3'-4'
Aldrin	2.02	ND	2.06	ND
Dieldrin	3.93	ND	3.99	ND
4,4'-DDT	3.93	0.69JP	3.99	(4.0)ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-98 DUPL. S-060492-MO-464 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-95 S-060492-MO-467 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-117 S-060492-MO-470 (ug/kg)
PESTICIDES						
Depth Interval	1'-2'	1'-2'		1'-2'		0'-1'
Aldrin	2.26	ND	2.40	ND	1.89	8.8
Dieldrin	4.39	1.1JP	4.65	ND	3.66	37
4,4'-DDT	4.39	(4.4)ND	4.65	(4.1)ND	3.66	(180B) J

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-95 S-060492-MO-468 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-117 S-060492-MO-471 (ug/kg)
PESTICIDES				
Depth Interval		2'-3'		1'-2'
Aldrin	2.40	ND	1.97	ND
Dieldrin	4.65	7.3	3.83	ND
4,4'-DDT	4.65	(9.3)ND	3.83	(6.0)ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-95 S-060492-MO-469 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-117 S-060492-MO-473 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-117 S-060492-MO-474 (ug/kg)
PESTICIDES						
Depth Interval		3'-4'		2'-3'		3'-4'
Aldrin	2.18	ND	2.18	ND	2.02	ND
Dieldrin	4.22	ND	4.22	ND	3.93	ND
4,4'-DDT	4.22	(4.2)ND	4.22	(8.7)ND	3.93	(3.9)ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-117 S-060492-MO-470DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-119 S-060492-MO-475 (ug/kg)
Depth Interval		0'-1'		0'-1'
Aldrin	18.87	12JD	10.63	ND
Dieldrin	36.63	45D	20.63	13JP
4,4'-DDT	36.63	240BDP	20.63	1,300BP

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-117 S-060492-MO-470MS (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-117 DUPL. S-060492-MO-472 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-119 S-060492-MO-476 (ug/kg)
Depth Interval		0'-1'		1'-2'		1'-2'
Aldrin	1.89	24	1.96	ND	2.26	ND
Dieldrin	3.66	60	3.80	0.48JP	4.39	ND
4,4'-DDT	3.66	180B	3.80	(5.2)ND	4.39	(4.4)ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-117 S-060492-MO-470MSD (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-119 S-060492-MO-477 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-119 S-060492-MO-478 (ug/kg)
Depth Interval		0'-1'		2'-3'		3'-4'
Aldrin	1.89	29	2.09	ND	2.04	ND
Dieldrin	3.66	68	4.06	ND	3.96	ND
4,4'-DDT	3.66	220B	4.06	(5.8)ND	3.96	(4.0)ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-119 S-060492-MO-475DL (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-060592-MO-480 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-120/121 S-060592-MO-481 (ug/kg)
PESTICIDES						
Depth Interval		0'-1'		-		0'-1'
Aldrin	106.25	ND	0.10	ND	2.24	ND
Dieldrin	206.25	48JD	0.20	ND	4.36	2.6JP
4,4'-DDT	206.25	2,400BD	0.20	ND	4.36	45P

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-120/121 S-060592-MO-483 (ug/kg)
PESTICIDES		
Depth Interval		1'-2'
Aldrin	2.14	ND
Dieldrin	4.16	ND
4,4'-DDT	4.16	ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-120/121 S-060592-MO-484 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-120/121 S-060592-MO-485 (ug/kg)
PESTICIDES				
Depth Interval		2'-3'		3'-4'
Aldrin	2.06	ND	2.06	ND
Dieldrin	3.99	ND	3.99	ND
4,4'-DDT	3.99	ND	3.99	ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-038 S-061192-RH-554 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-038 DUPL. S-061192-RH-555 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-038 S-061192-RH-554 DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-033 S-061192-RH-558 (ug/kg)
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	1.97	ND	2.01	ND	19.72	ND	1.90	ND
Dieldrin	3.83	0.73JP	3.89	0.83JP	38.28	ND	3.70	ND
4,4'-DDT	3.83	77	3.89	39	38.28	67D	3.70	ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-038 S-061192-RH-556 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-038DUPL. S-061192-RH-555 DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-033 S-061192-RH-559 (ug/kg)
Depth Interval		2'-3'		1'-2'		2'-3'
Aldrin	2.14	ND	20.06	ND	1.97	0.39JP
Dieldrin	4.16	2.5J	38.94	ND	3.83	ND
4,4'-DDT	4.16	4.2P	38.94	25DJP	3.83	ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-038 S-061192-RH-557 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-033 S-061192-RH-560 (ug/kg)
Depth Interval		3'-4'		3'-4'
Aldrin	1.97	ND	2.01	ND
Dieldrin	3.83	ND	3.89	ND
4,4'-DDT	3.83	ND	3.89	ND

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-5/6 S-061192-RH-561 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-5/6 S-061192-RH-561 MS (ug/kg)	QUANTITATION LIMIT (ug/kg)	Neutralization Pit S-061192-RH-564 (ug/kg)	QUANTITATION LIMIT (ug/kg)	Neutralization Pit S-061192-RH-564 DL (ug/kg)
PESTICIDES								
Depth Interval		1'-2'		1'-2'		0'-1'		0'-1'
Aldrin	1.97	ND	1.97	15	2.09	ND	20.91	ND
Dieldrin	3.83	ND	3.83	34	4.06	ND	40.59	ND
4,4'-DDT	3.83	ND	3.83	40	4.06	ND	40.59	ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-5/6 S-061192-RH-562 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-5/6 S-061192-RH-561 MSD (ug/kg)
PESTICIDES				
Depth Interval		2'-3'		1'-2'
Aldrin	1.97	ND	1.97	15
Dieldrin	3.83	0.79J	3.83	37P
4,4'-DDT	3.83	2.4JP	3.83	50

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-5/6 S-061192-RH-563 (ug/kg)
PESTICIDES		
Depth Interval		3'-4'
Aldrin	2.02	ND
Dieldrin	3.93	ND
4,4'-DDT	3.93	ND

TABLE 2
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SEDIMENTS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	CDS ditch-E. of basin S-042292-JM-0200 (ug/kg)	QUANTITATION LIMIT (ug/kg)	CDS ditch-E. of basin S-042292-JM-0201DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	CDS ditch-40' E. of basin S-042292-JM-0203 (ug/kg)
Aldrin	11.22	ND	118.20	ND	39.44	ND
Dieldrin	21.78	190	229.40	210JDP	76.56	1,300
4,4'-DDT	21.78	140P	229.40	130JDP	76.56	1,100P

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	CDS ditch-E. of basin S-042292-JM-0200DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	CDS ditch-E. of basin S-042292-JM-0202 (ug/kg)	QUANTITATION LIMIT (ug/kg)	CDS ditch-40' E. of basin S-042292-JM-0203DL (ug/kg)
Aldrin	112.20	ND	13.52	ND	394.40	ND
Dieldrin	217.80	200JDP	26.24	270	765.60	1,500DP
4,4'-DDT	217.80	180JDP	26.24	200P	765.60	1,300DP

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	CDS ditch-E. of basin S-042292-JM-0201 (ug/kg)	QUANTITATION LIMIT (ug/kg)	CDS ditch-E. of basin S-042292-JM-0202DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	CDS ditch-70' E. of basin S-042292-JM-0204 (ug/kg)
Aldrin	11.82	ND	135.20	ND	41.48	ND
Dieldrin	22.94	180P	262.40	290JDP	80.52	530
4,4'-DDT	22.94	120P	262.40	210JDP	80.52	860P

Depth Interval-0'-0.5'

TABLE 2
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SEDIMENTS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	CDS ditch-70' E. of basin S-042292-JM-0204DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	1' W. of Fence S-042292-JM-0206 (ug/kg)	QUANTITATION LIMIT (ug/kg)	CDA ditch-8' W. of NE. ... S-042292-JM-0207DL (ug/kg)
Aldrin	414.80	ND	16.07	ND	143.70	ND
Dieldrin	805.20	540JDP	31.19	250P	278.90	190JDP
4,4'-DDT	805.20	910DP	31.19	840P	278.90	380DP

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	DUPL. of 0204 S-042292-JM-0205 (ug/kg)	QUANTITATION LIMIT (ug/kg)	1' W. of Fence S-042292-JM-0206DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	CDA ditch-40' S. of NE. ... S-042292-JM-0208 (ug/kg)
Aldrin	40.46	ND	160.70	ND	13.94	ND
Dieldrin	78.54	760	311.90	280JDP	27.06	70P
4,4'-DDT	78.54	1,200P	311.90	980DP	27.06	1,300P

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	DUPL. of 0204 S-042292-JM-0205DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	CDA ditch-8' W. of NE. ... S-042292-JM-0207 (ug/kg)	QUANTITATION LIMIT (ug/kg)	CDA ditch-40' S. of NE. ... S-042292-JM-0208DL (ug/kg)
Aldrin	404.60	ND	14.37	ND	139.40	ND
Dieldrin	785.40	790DP	27.89	180P	270.60	79JDP
4,4'-DDT	785.40	1,200DP	27.89	340P	270.60	1,700DP

Depth Interval-0'-0.5'

TABLE 2
FIRST ROUND ANALYTICAL DATA FOR PESTICIDES
SEDIMENTS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	CDA ditch-16' N. of SE. ... S-042292-JM-0209 (ug/kg)	QUANTITATION LIMIT (ug/kg)	S. end of ditch along CDS S-042292-JM-0210DL (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE S-042292-JM-0211 (ug/L)
Aldrin	14.20	ND	530.40	ND	0.0735	ND
Dieldrin	27.56	100	1,029.60	580JDP	0.147	ND
4,4'-DDT	27.56	1,600	1,029.60	9,800D	0.147	ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	CDA ditch-16' N. of SE. ... S-042292-JM-0209DL (ug/kg)
Aldrin	142.00	ND
Dieldrin	275.60	89JDP
4,4'-DDT	275.60	880DP

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	S. end of ditch along CDS S-042292-JM-0210 (ug/kg)
Aldrin	53.04	54P
Dieldrin	102.96	560P
4,4'-DDT	102.96	7,400

Depth Interval-0'-0.5'

DATA QUALIFIERS

Laboratory Qualifiers

ND	-	Not detected.
J	-	Estimated Value.
B	-	Analyte found in blanks as well as the sample.
D	-	Sample was diluted and reanalyzed.
P	-	Greater than 25 percent difference for detected concentrations between the two GC columns.
Z	-	Compound could not be confirmed during GC/MS confirmation analysis.

CRA Qualifiers

( ) ND J	-	Not detected. Quantitation limit is an estimated value.
( ) ND	-	Not detected at given quantitation limit.
( ) J	-	Estimated value.
Dupl	-	Duplicate sample.
DL	-	Diluted sample.
SB	-	Soil Boring.
MS	-	Matrix Spike.
MSD	-	Matrix Spike Duplicate.

APPENDIX C

FIRST ROUND DIOXINS/FURANS ANALYTICAL RESULTS

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR DIOXINS/FURANS
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*TOXICITY EQUIVALENT FACTOR*	*RINSATE L-060992-MO-521 (pg/L)*	*TOXICITY EQUIVALENT CONCENTRATION (pg/L)*
DEPTH (ft)		1'-4'	
2,3,7,8-TCDD	1.0	ND	0
2,3,7,8-TCDF	0.1	ND	0
Total TCDD	0.01	NA	
Total TCDF	0.001	NA	
		TOTAL	0

PARAMETER	*TOXICITY EQUIVALENT FACTOR*	*SB-135 S-060992-MO-526 (ppt)*	*TOXICITY EQUIVALENT CONCENTRATION (ppt)*
DEPTH (ft)		1'-4'	
2,3,7,8-TCDD	1.0	9.1	9.10
2,3,7,8-TCDF	0.1	575B	57.50
Total TCDD	0.01	649.9	6.50
Total TCDF	0.001	2,715	2.72
		TOTAL	75.81

PARAMETER	*TOXICITY EQUIVALENT FACTOR*	*SB-136 S-060992-MO-527 (ppt)*	*TOXICITY EQUIVALENT CONCENTRATION (ppt)*
DEPTH (ft)		1'-4'	
2,3,7,8-TCDD	1.0	(2.9) EMPC	2.90
2,3,7,8-TCDF	0.1	(2.8) EMPC	0.28
Total TCDD	0.01	(2.9) EMPC	0.03
Total TCDF	0.001	0.97	0.00
		TOTAL	3.21

PARAMETER	*TOXICITY EQUIVALENT FACTOR*	*SB-134 S-060992-MO-529 (ppt)*	*TOXICITY EQUIVALENT CONCENTRATION (ppt)*
DEPTH (ft)		1'-4'	
2,3,7,8-TCDD	1.0	21.2	21.20
2,3,7,8-TCDF	0.1	560B	56.00
Total TCDD	0.01	311.8	3.12
Total TCDF	0.001	1,970	1.97
		TOTAL	82.29

B- Analyte was found in the blank as well as the sample.
EMPC- Estimated Maximum Possible Concentration.
ND - Not detected.
NA - Not analyzed.

TABLE 1
FIRST ROUND ANALYTICAL DATA FOR DIOXINS/FURANS
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*TOXICITY EQUIVALENT FACTOR*	*SB-135 S-060992-MO-526MS (ppt)*	*TOXICITY EQUIVALENT CONCENTRATION (ppt)*
DEPTH (ft)		1'-4'	
2, 3, 7, 8- TCDD	1.0	41.7	n/a
2, 3, 7, 8- TCDF	0.1	859B	n/a
Total TCDD	0.01	906.3	n/a
Total TCDF	0.001	3,861	n/a
		TOTAL	n/a

PARAMETER	*TOXICITY EQUIVALENT FACTOR*	*SB-135 S-060992-MO-526MSD (ppt)*	*TOXICITY EQUIVALENT CONCENTRATION (ppt)*
DEPTH (ft)		1'-4'	
2, 3, 7, 8- TCDD	1.0	43.7	n/a
2, 3, 7, 8- TCDF	0.1	1,000B	n/a
Total TCDD	0.01	1,136.3	n/a
Total TCDF	0.001	4,560	n/a
		TOTAL	n/a

PARAMETER	*TOXICITY EQUIVALENT FACTOR*	*SB-136 DUPL. S-060992-MO-528 (ppt)*	*TOXICITY EQUIVALENT CONCENTRATION (ppt)*
DEPTH (ft)		1'-4'	
2, 3, 7, 8- TCDD	1.0	2.5	2.50
2, 3, 7, 8- TCDF	0.1	3.0B	0.30
Total TCDD	0.01	0	0.00
Total TCDF	0.001	1.1	0.00
		TOTAL	2.80

n/a- Not applicable.
B- Analyte was found in the blank as well as the sample.

APPENDIX G

SECOND ROUND PESTICIDE ANALYTICAL RESULTS

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/L)	RINSATE L-031893-RH-610 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-145 S-031893-RH-611 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-144 S-031893-RH-613 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-144 DUPL. S-031893-RH-614 (ug/kg)
Depth Interval		–		1'-2'		1'-2'		1'-2'
Aldrin	0.050	ND	–	–	–	–	–	–
Dieldrin	0.10	ND	3.8	ND	3.8	2.0 J	3.8	9.8 P
4,4'-DDT	0.10	ND	–	–	–	–	–	–

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-145 S-031893-RH-612 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-144 S-031893-RH-615 (ug/kg)
Depth Interval		2'-3'		2'-3'
Aldrin	–	–	–	–
Dieldrin	3.9	ND	4.1	ND
4,4'-DDT	–	–	–	–

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-144 S-031893-RH-616 (ug/kg)
Depth Interval		3'-4'
Aldrin	–	–
Dieldrin	4.2	ND
4,4'-DDT	–	–

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-143 S-031893-RH-617 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-143 S-031893-RH-617DL (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-031893-RH-622 (ug/L)
Depth Interval		1'-2'		1'-2'		–
Aldrin	–	–	–	–	0.050	ND
Dieldrin	3.7	26	7.5	24 D	0.10	ND
4,4'-DDT	–	–	–	–	0.10	ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-143 S-031893-RH-618 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-140 S-031893-RH-620 (ug/kg)
Depth Interval		2'-3'		2'-3'
Aldrin	–	–	–	–
Dieldrin	3.9	ND	4.3	ND
4,4'-DDT	–	–	–	–

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-143 S-031893-RH-619 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-140 S-031893-RH-621 (ug/kg)
Depth Interval		3'-4'		3'-4'
Aldrin	–	–	–	–
Dieldrin	4.0	ND	4.5	ND
4,4'-DDT	–	–	–	–

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-139 S-031893-RH-623 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-139 S-031893-RH-623DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-150 S-031893-RH-627 (ug/kg)
Depth Interval		1'-2'		1'-2'		0'-1'
Aldrin	11	ND	110	ND	–	–
Dieldrin	21	46 P	210	ND	4.6	280 Z
4,4'-DDT	21	240 P	210	140 DJP	–	–

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-139 S-031893-RH-624 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-139 S-031893-RH-624MS (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-150 S-031893-RH-628 (ug/kg)
Depth Interval		2'-3'		2'-3'		1'-2'
Aldrin	2.0	ND	2.0	24 P	–	–
Dieldrin	3.9	8.2 P	32	ND	5.3	1.3 JP
4,4'-DDT	3.9	2.3 JP	3.9	36 P	–	–

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-139 S-031893-RH-625 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-139 DUPL. S-031893-RH-626 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-139 S-031893-RH-624MSD (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-150 S-031893-RH-629 (ug/kg)
Depth Interval		3'-4'		3'-4'		2'-3'		2'-3'
Aldrin	2.0	ND	2.0	ND	2.0	33 P	–	–
Dieldrin	3.9	ND	3.9	ND	3.9	29 P	4.4	ND
4,4'-DDT	3.9	ND	3.9	ND	3.9	35 P	–	–

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-150 S-031893-RH-627DL (ug/kg)
Depth Interval		0'-1'
Aldrin	–	–
Dieldrin	23	210 D
4,4'-DDT	–	–

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-152 S-031893-RH-630 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-152 S-031893-RH-630DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-152 S-031893-RH-630MS (ug/kg)
Depth Interval		2'-3'		2'-3'		2'-3'
Aldrin	–	–	–	–	–	–
Dieldrin	–	–	–	–	–	–
4,4'-DDT	4.7	(130) J	23	(120 D) J	4.7	250

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-152 S-031893-RH-630MSD (ug/kg)
Depth Interval		2'-3'
Aldrin	–	–
Dieldrin	–	–
4,4'-DDT	4.7	170

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-151 S-031893-RH-631 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-151 S-031893-RH-631DL (ug/kg)
Depth Interval		1'-2'		1'-2'
Aldrin	–	–	–	–
Dieldrin	190	1300	1900	1400 DJ
4,4'-DDT	–	–	–	–

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-149 S-031893-RH-632 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-149 S-031893-RH-632DL (ug/kg)
Depth Interval		2'-3'		2'-3'
Aldrin	100	ND	1000	ND
Dieldrin	190	ND	1900	ND
4,4'-DDT	190	ND	1900	ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-149 S-031893-RH-633 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-149 S-031893-RH-633DL (ug/kg)
Depth Interval		3'-4'		3'-4'
Aldrin	23	ND	230	ND
Dieldrin	44	ND	440	ND
4,4'-DDT	–	–	–	–

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT (ug/kg)*	*SB-215 S-031893-RH-634 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-215 DUPL. S-031893-RH-635 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-215 DUPL. S-031893-RH-635DL (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-216 S-031893-RH-637 (ug/kg)*
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	–	–	–	–	–	–	–	–
Dieldrin	3.9	(3.9)ND J	3.9	(3.9)ND J	38.9	ND	3.9	ND
4,4'-DDT	3.9	(19) J	3.9	(80) J	38.9	58 PD	3.9	100

COMPOUND	*QUANTITATION LIMIT (ug/kg)*	*SB-215 S-031893-RH-636 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-216 S-031893-RH-638 (ug/kg)*
PESTICIDES				
Depth Interval		2'-3'		2'-3'
Aldrin	–	–	–	–
Dieldrin	3.8	(3.8)ND J	3.9	ND
4,4'-DDT	3.8	(3.8)ND J	3.9	ND

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT (ug/kg)*	*SB-216 S-031893-RH-637DL (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-214 S-031893-RH-639 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-214 S-031893-RH-639DL (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-218 S-031893-RH-641 (ug/kg)*
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	–	–	–	–	–	–	–	–
Dieldrin	39.3	ND	436	ND	4356	ND	3.8	ND
4,4'-DDT	39.3	76 PD	436	780 P	4356	7,000 PD	3.8	0.79 J

COMPOUND	*QUANTITATION LIMIT (ug/kg)*	*SB-214 S-031893-RH-640 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-218 S-031893-RH-642 (ug/kg)*
PESTICIDES				
Depth Interval		2'-3'		2'-3'
Aldrin	–	–	–	–
Dieldrin	4.0	ND	3.8	ND
4,4'-DDT	4.0	20 P	3.8	ND

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND								
PESTICIDES								
Depth Interval								
Aldrin								
Dieldrin								
4,4'-DDT								

COMPOUND	*QUANTITATION LIMIT*	*SB-219*	*QUANTITATION LIMIT*	*SB-219*	*QUANTITATION LIMIT*	*SB-219*	*QUANTITATION LIMIT*	*SB-217*
PESTICIDES	*(ug/kg)*	*S-031893-RH-643* *(ug/kg)*	*(ug/kg)*	*S-031893-RH-643DL* *(ug/kg)*	*(ug/kg)*	*S-031893-RH-643MS* *(ug/kg)*	*(ug/kg)*	*S-031893-RH-644* *(ug/kg)*
Depth Interval		2'-3'		2'-3'		2'-3'		2'-3'
Aldrin	–	–	–	–	–	–	–	–
Dieldrin	39.6	ND	396	ND	39.6	74 P	3.9	1.1 JP
4,4'-DDT	39.6	(880) J	396	660 D	39.6	1,800 P	3.9	3.1 JP

COMPOUND	*QUANTITATION LIMIT*	*SB-219*
PESTICIDES	*(ug/kg)*	*S-031893-RH-643MSD* *(ug/kg)*
Depth Interval		2'-3'
Aldrin	–	–
Dieldrin	39.6	74 P
4,4'-DDT	39.6	1,200 P

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/L)	RINSATE L-031893-RH-645 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-153 S-032293-RH-647 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-153 S-032293-RH-647DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-184 S-032293-RH-648 (ug/kg)
PESTICIDES								
Depth Interval		–		1'-2'		1'-2'		0'-1'
Aldrin	0.05	ND	–	–	–	–	–	–
Dieldrin	0.10	ND	3.8	ND	37.6	ND	3.7	3.2 J
4,4'-DDT	0.10	ND	–	–	–	–	–	–

COMPOUND	QUANTITATION LIMIT (ug/L)	RINSATE L-032293-RH-646 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-184 S-032293-RH-649 (ug/kg)
PESTICIDES				
Depth Interval		–		1'-2'
Aldrin	0.05	ND	–	–
Dieldrin	0.11	ND	3.8	ND
4,4'-DDT	0.11	ND	–	–

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT*	*SB-185*	*QUANTITATION LIMIT*	*SB-188*	*QUANTITATION LIMIT*	*SB-171*	*QUANTITATION LIMIT*	*SB-172*
PESTICIDES	*(ug/kg)*	*S-032293-RH-650* *(ug/kg)*	*(ug/kg)*	*S-032293-RH-652* *(ug/kg)*	*(ug/kg)*	*S-032293-RH-653* *(ug/kg)*	*(ug/kg)*	*S-032293-RH-654* *(ug/kg)*
Depth Interval		0'-1'		1'-2'		1'-2'		1'-2'
Aldrin	–	–	–	–	–	–	2.4	ND
Dieldrin	4.2	8.4 P	4.2	ND	4.0	16 P	4.6	ND
4,4'-DDT	–	–	–	–	–	–	–	–

COMPOUND	*QUANTITATION LIMIT*	*SB-185*
PESTICIDES	*(ug/kg)*	*S-032293-RH-651* *(ug/kg)*
Depth Interval		1'-2'
Aldrin	–	–
Dieldrin	3.8	1.9 JP
4,4'-DDT	–	–

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-174 S-032293-RH-655 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-174 S-032293-RH-655DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-174 S-032293-RH-655MS (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-172 DUPL. S-032293-RH-656 (ug/kg)
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	2.0	(32 P) J	20.2	33 PD	2.0	60 P	2.4	ND
Dieldrin	3.9	(89 P) J	39.3	96 PD	3.9	150 P	4.6	ND
4,4'-DDT	–	–	–	–	–	–	–	–

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-174 S-032293-RH-655MSD (ug/kg)
PESTICIDES		
Depth Interval		1'-2'
Aldrin	2.0	50 P
Dieldrin	3.9	130 P
4,4'-DDT	–	–

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT (ug/kg)*	*SB-176 S-032293-RH-657 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-176 S-032293-RH-657DL (ug/kg)*	*QUANTITATION LIMIT (ug/L)*	*RINSATE L-032293-RH-658 (ug/L)*	*QUANTITATION LIMIT (ug/kg)*	*SB-177 S-032293-RH-659 (ug/kg)*
PESTICIDES								
Depth Interval		1'-2'		1'-2'		–		1'-2'
Aldrin	40.1	760 P	401	1,000 D	0.05	ND	2.0	ND
Dieldrin	77.9	540 P	779	740 JD	0.11	ND	3.8	ND
4,4'-DDT	–	–	–	–	0.11	ND	–	–

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT (ug/kg)*	*SB-179 S-032293-RH-660 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-180 S-032293-RH-661 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-181A S-032293-RH-662 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-178 S-032293-RH-663 (ug/kg)*
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	–	–	1.9	ND	2.0	ND	2.0	ND
Dieldrin	3.9	ND	3.8	ND	3.9	ND	3.8	ND
4,4'-DDT	3.9	(3.2 JP) J	3.8	ND	–	–	–	–

COMPOUND								
PESTICIDES								
Depth Interval								
Aldrin								
Dieldrin								
4,4'-DDT								

COMPOUND								
PESTICIDES								
Depth Interval								
Aldrin								
Dieldrin								
4,4'-DDT								

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

SB-181B S-032293-RH-664 PESTICIDES	*QUANTITATION LIMIT (ug/kg)*	*SB-181B S-032293-RH-664 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-182 S-032293-RH-665 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-183 S-032293-RH-666 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-183 S-032293-RH-666DL (ug/kg)*
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	2.0	ND	2.0	ND	–	–	–	–
Dieldrin	3.8	ND	4.0	(2.0 JP) J	825	ND	6600	ND
4,4'-DDT	–	–	–	–	825	18,000	6600	14,000 PD

COMPOUND								
PESTICIDES								
Depth Interval								
Aldrin								
Dieldrin								
4,4'-DDT								

COMPOUND								
PESTICIDES								
Depth Interval								
Aldrin								
Dieldrin								
4,4'-DDT								

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT (ug/kg)*	*SB-186 S-032293-RH-667 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-186 DUPL. S-032293-RH-668 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-187 S-032293-RH-669 (ug/kg)*	*QUANTITATION LIMIT (ug/L)*	*RINSATE L-032293-RH-670 (ug/L)*
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		–
Aldrin	–	–	–	–	–	–	0.05	ND
Dieldrin	4.0	ND	3.8	ND	3.9	3.4 JP	0.11	ND
4,4'-DDT	–	–	–	–	–	–	0.11	ND

COMPOUND								
PESTICIDES								
Depth Interval								
Aldrin								
Dieldrin								
4,4'-DDT								

COMPOUND								
PESTICIDES								
Depth Interval								
Aldrin								
Dieldrin								
4,4'-DDT								

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT*	*SB-189*	*QUANTITATION LIMIT*	*SB-189*	*QUANTITATION LIMIT*	*SB-193*	*QUANTITATION LIMIT*	*SB-193 DUPL.*
		S-032293-RH-671		*S-032293-RH-671MS*		*S-032293-RH-672*		*S-032293-RH-673*
PESTICIDES	*(ug/kg)*	*(ug/kg)*	*(ug/kg)*	*(ug/kg)*	*(ug/kg)*	*(ug/kg)*	*(ug/kg)*	*(ug/kg)*
Depth Interval		1'-2'		1'-2'		0'-1'		0'-1'
Aldrin	–	–	–	–	2.0	ND	2.0	ND
Dieldrin	3.9	ND	3.9	32	3.8	ND	3.8	ND
4,4'-DDT	–	–	–	–	3.8	0.74 JP	3.8	1.1 JP

COMPOUND	*QUANTITATION LIMIT*	*SB-189*
		S-032293-RH-671MSD
PESTICIDES	*(ug/kg)*	*(ug/kg)*
Depth Interval		1'-2'
Aldrin	–	–
Dieldrin	3.9	31
4,4'-DDT	–	–

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT (ug/kg)*	*SB-194A S-032293-RH-674 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-202 S-032293-RH-675DL (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-203 S-032293-RH-676 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-203 S-032293-RH-676DL (ug/kg)*
PESTICIDES								
Depth Interval		1'-2'		0'-1'		0'-1'		0'-1'
Aldrin	–	–	233	ND	21.4	ND	214	ND
Dieldrin	3.9	ND	452	54 JPD	41.6	17 J	416	ND
4,4'-DDT	–	–	452	710 PD	41.6	970	416	800 D

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT (ug/kg)*	*SB-220 S-032293-RH-677 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-225 S-032293-RH-679 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-225 S-032293-RH-679DL (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-230 S-032293-RH-680 (ug/kg)*
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	–	–	43.5	56 P	435	42 JPD	2.1	ND
Dieldrin	–	–	84.5	52 J	845	ND	4.1	2.0 J
4,4'-DDT	4.0	(5.2) J	–	–	–	–	4.1	2.0 JP

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-231 S-032293-RH-681 (ug/kg)	QUANTITATION LIMIT (ug/L)	RINSATE L-032393-RH-682 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-164 S-032393-RH-683 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-164 DUPL. S-032393-RH-684 (ug/kg)
Depth Interval		1'-2'		–		1'-2'		1'-2'
Aldrin	2.3	ND	0.050	ND	2.1	ND	2.1	ND
Dieldrin	4.5	(3.8 J) J	0.10	ND	4.1	1.6 J	4.0	1.1 JP
4,4'-DDT	4.5	ND	0.10	ND	4.1	ND	4.0	ND

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-164 S-032393-RH-685 (ug/kg)
Depth Interval		2'-3'
Aldrin	–	–
Dieldrin	3.8	ND
4,4'-DDT	–	–

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-164 S-032393-RH-686 (ug/kg)
Depth Interval		3'-4'
Aldrin	–	–
Dieldrin	3.8	ND
4,4'-DDT	–	–

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND

PESTICIDES

Depth Interval

Aldrin
Dieldrin
4,4'-DDT

COMPOUND / *PESTICIDES*	*QUANTITATION LIMIT (ug/kg)*	*SB-164 S-032393-RH-685MS (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-165 S-032393-RH-687 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-165 S-032393-RH-687DL (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-166 S-032393-RH-689 (ug/kg)*
Depth Interval		2'-3'		2'-3'		2'-3'		2'-3'
Aldrin	2.0	18	–	–	–	–	–	–
Dieldrin	3.8	40	3.7	1.6 JP	18	ND	3.8	ND
4,4'-DDT	3.8	45	–	–	–	–	–	–

COMPOUND / *PESTICIDES*	*QUANTITATION LIMIT (ug/kg)*	*SB-164 S-032393-RH-685MSD (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-165 S-032393-RH-688 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-165 S-032393-RH-688DL (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-166 S-032393-RH-690 (ug/kg)*
Depth Interval		2'-3'		3'-4'		3'-4'		3'-4'
Aldrin	2.0	17	–	–	–	–	–	–
Dieldrin	3.8	36	40	ND	400	ND	3.8	ND
4,4'-DDT	3.8	41	–	–	–	–	–	–

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT (ug/kg)*	*SB-221 S-032393-RH-691 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-196 S-032393-RH-693 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-196 S-032393-RH-693DL (ug/kg)*	*QUANTITATION LIMIT (ug/L)*	*RINSATE L-032393-RH-694 (ug/L)*
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		–
Aldrin	–	–	–	–	–	–	0.050	ND
Dieldrin	–	–	20	230	200	140 JP	0.10	ND
4,4'-DDT	4.0	ND	–	–	–	–	0.10	0.014 JP

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND								
PESTICIDES								
Depth Interval								
Aldrin								
Dieldrin								
4,4'-DDT								

COMPOUND	*QUANTITATION LIMIT*	*SB-197*	*QUANTITATION LIMIT*	*SB-197*	*QUANTITATION LIMIT*	*SB-198*	*QUANTITATION LIMIT*	*SB-199*
PESTICIDES	*(ug/kg)*	*S-032393-RH-695* *(ug/kg)*	*(ug/kg)*	*S-032393-RH-695DL* *(ug/kg)*	*(ug/kg)*	*S-032393-RH-697* *(ug/kg)*	*(ug/kg)*	*S-032393-RH-699* *(ug/kg)*
Depth Interval		2'-3'		2'-3'		2'-3'		2'-3'
Aldrin	2.1	ND	21	ND	2.1	ND	2.3	ND
Dieldrin	4.1	ND	41	ND	4.1	ND	4.5	ND
4,4'-DDT	–	–	–	–	–	–	–	–

COMPOUND	*QUANTITATION LIMIT*	*SB-197*			*QUANTITATION LIMIT*	*SB-198*	*QUANTITATION LIMIT*	*SB-199*
PESTICIDES	*(ug/kg)*	*S-032393-RH-696* *(ug/kg)*			*(ug/kg)*	*S-032393-RH-698* *(ug/kg)*	*(ug/kg)*	*S-032393-RH-700* *(ug/kg)*
Depth Interval		3'-4'				3'-4'		3'-4'
Aldrin	2.0	ND			2.0	ND	2.1	ND
Dieldrin	4.0	ND			3.9	ND	4.1	ND
4,4'-DDT	–	–			–	–	–	–

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-201 S-032393-RH-704 (ug/kg)
PESTICIDES		
Depth Interval		1'-2'
Aldrin	1.9	ND
Dieldrin	3.8	(4.5 P) J
4,4'-DDT	3.8	ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-199 S-032393-RH-699DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-200 S-032393-RH-702 (ug/kg)
PESTICIDES				
Depth Interval		2'-3'		2'-3'
Aldrin	12	ND	2.0	ND
Dieldrin	22	ND	3.8	ND
4,4'-DDT	–	–	–	–

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-199 DUPL. S-032393-RH-701 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-199 DUPL. S-032393-RH-701DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-200 S-032393-RH-703 (ug/kg)
PESTICIDES						
Depth Interval		3'-4'		3'-4'		3'-4'
Aldrin	2.2	ND	4.4	ND	2.3	ND
Dieldrin	4.2	ND	8.5	ND	4.4	ND
4,4'-DDT	–	–	–	–	–	–

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT*	*SB-204*	*QUANTITATION LIMIT*	*RINSATE*	*QUANTITATION LIMIT*	*SB-205*	*QUANTITATION LIMIT*	*SB-205*
PESTICIDES	*(ug/kg)*	*S-032393-RH-705* *(ug/kg)*	*(ug/L)*	*L-032393-RH-706* *(ug/L)*	*(ug/kg)*	*S-032393-RH-707* *(ug/kg)*	*(ug/kg)*	*S-032393-RH-707MS* *(ug/kg)*
Depth Interval		1'-2'		–		1'-2'		1'-2'
Aldrin	2.0	ND	0.050	ND	2.0	ND	2.0	18
Dieldrin	3.8	ND	0.10	ND	4.0	3.2 JP	4.0	33 P
4,4'-DDT	3.8	ND	0.10	ND	4.0	ND	4.0	43

COMPOUND	*QUANTITATION LIMIT*	*SB-205*
PESTICIDES	*(ug/kg)*	*S-032393-RH-707MSD* *(ug/kg)*
Depth Interval		1'-2'
Aldrin	2.0	19 P
Dieldrin	3.9	39 P
4,4'-DDT	3.9	47

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-206 S-032393-RH-708 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-206 S-032393-RH-708DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-207 S-032393-RH-709 (ug/kg)
PESTICIDES						
Depth Interval		1'-2'		1'-2'		1'-2'
Aldrin	3.9	ND	39	ND	2.0	ND
Dieldrin	7.7	460 P	77	(660 D) J	4.0	1.5 J
4,4'-DDT	7.7	33 P	77	(29 DJP) J	4.0	2.1 JP

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-207 S-032393-RH-710 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-207 S-032393-RH-710DL (ug/kg)
PESTICIDES				
Depth Interval		2'-3'		2'-3'
Aldrin	2.1	ND	4.2	ND
Dieldrin	4.1	100 P	8.2	97 D
4,4'-DDT	4.1	66	8.2	56 DP

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT (ug/kg)*	*SB-211 S-032393-RH-711 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-211 DUPL. S-032393-RH-712 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-212 S-032393-RH-713 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-212 S-032393-RH-713DL (ug/kg)*
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	–	–	–	–	–	–	–	–
Dieldrin	3.7	ND	3.7	ND	4.4	16	8.8	15 DP
4,4'-DDT	–	–	–	–	–	–	–	–

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT (ug/kg)*	*SB-213A S-032393-RH-714 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-213A S-032393-RH-714DL (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-213B S-032393-RH-715 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-213B S-032393-RH-715DL (ug/kg)*
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	–	–	–	–	–	–	–	–
Dieldrin	3.9	ND	7.9	ND	4.0	ND	40	ND
4,4'-DDT	–	–	–	–	–	–	–	–

COMPOUND								
PESTICIDES								
Depth Interval								
Aldrin								
Dieldrin								
4,4'-DDT								

COMPOUND								
PESTICIDES								
Depth Interval								
Aldrin								
Dieldrin								
4,4'-DDT								

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND

PESTICIDES

Depth Interval

Aldrin
Dieldrin
4,4'-DDT

COMPOUND	*QUANTITATION LIMIT*	*SB-227*	*QUANTITATION LIMIT*	*SB-227*	*QUANTITATION LIMIT*	*SB-226*	*QUANTITATION LIMIT*	*SB-226*
PESTICIDES	*(ug/kg)*	*S-032493-RH-752* *(ug/kg)*	*(ug/kg)*	*S-032493-RH-752DL* *(ug/kg)*	*(ug/kg)*	*S-032493-RH-753* *(ug/kg)*	*(ug/kg)*	*S-032493-RH-753DL* *(ug/kg)*
Depth Interval		2'-3'		2'-3'		2'-3'		2'-3'
Aldrin	--	--	--	--	--	--	--	--
Dieldrin	42.2	ND	422	ND	4.1	ND	41.3	ND
4,4'-DDT	42.2	180	422	190 JPD	4.1	(88 P) J	41.3	95 D

COMPOUND

PESTICIDES

Depth Interval

Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/L)	RINSATE L-040393-JM-811 (ug/L)	QUANTITATION LIMIT (ug/kg)	SB-168 S-040393-JM-812 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-167 S-040393-JM-815 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-170 S-040393-JM-818 (ug/kg)
PESTICIDES				1'-2'		1'-2'		1'-2'
Aldrin	0.05	ND	1.9	–	2.2	ND	2.0	–
Dieldrin	0.10	ND	3.6	ND	4.3	13P	3.8	ND
4,4'-DDT	0.10	ND	3.6	–	4.3	(28P) J	3.8	–

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-168 S-040393-JM-813 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-167 S-040393-JM-816 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-170 S-040393-JM-820 (ug/kg)
PESTICIDES						
Depth Interval		2'-3'		2'-3'		2'-3'
Aldrin	2.0	–	2.7	–	2.3	–
Dieldrin	3.9	ND	5.1	3.5 JP	4.4	0.56 JP
4,4'-DDT	3.9	–	5.1	–	4.4	–

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-168 S-040393-JM-814 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-167 S-040393-JM-817 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-170 S-040393-JM-821 (ug/kg)
PESTICIDES						
Depth Interval		3'-4'		3'-4'		3'-4'
Aldrin	2.0	–	2.3	–	2.2	–
Dieldrin	3.9	(3.9) ND J	4.5	ND	4.2	ND
4,4'-DDT	3.9	–	4.5	–	4.2	–

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT*	*SB-170 DUPL.*			*QUANTITATION LIMIT*	*SB-169*	*QUANTITATION LIMIT*	*RINSATE*
PESTICIDES	*(ug/kg)*	*S-040393-JM-819* *(ug/kg)*			*(ug/kg)*	*L-040393-JM-822* *(ug/kg)*	*(ug/L)*	*L-040393-JM-825* *(ug/L)*
Depth Interval		1'-2'				1'-2'		-
Aldrin	2.0	–			2.0	–	0.05	ND
Dieldrin	4.0	ND			4.0	ND	0.10	ND
4,4'-DDT	4.0	–			4.0	–	0.10	ND

COMPOUND	*QUANTITATION LIMIT*	*SB-169*
PESTICIDES	*(ug/kg)*	*L-040393-JM-823* *(ug/kg)*
Depth Interval		2'-3'
Aldrin	2.0	–
Dieldrin	4.0	(4.0) ND J
4,4'-DDT	4.0	–

COMPOUND	*QUANTITATION LIMIT*	*SB-170*	*QUANTITATION LIMIT*	*SB-170*	*QUANTITATION LIMIT*	*SB-169*
PESTICIDES	*(ug/kg)*	*S-040393-JM-821MS* *(ug/kg)*	*(ug/kg)*	*S-040393-JM-821MSD* *(ug/kg)*	*(ug/kg)*	*L-040393-JM-824* *(ug/kg)*
Depth Interval		3'-4'		3'-4'		3'-4'
Aldrin	2.2	–	2.2	–	2.0	–
Dieldrin	4.2	26P	4.2	20P	4.0	ND
4,4'-DDT	4.2	–	4.2	–	4.0	–

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-162 L-040393-JM-826 (ug/kg)
Depth Interval		1'-2'
Aldrin	1.9	–
Dieldrin	3.7	1.7 J
4,4'-DDT	3.7	–

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-162 L-040393-JM-827 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-157 L-040393-JM-829 (ug/kg)
Depth Interval		2'-3'		2'-3'
Aldrin	2.0	–	2.1	–
Dieldrin	3.8	ND	4.0	ND
4,4'-DDT	3.8	–	4.0	–

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-158 S-040393-JM-832 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-159 S-040393-JM-834 (ug/kg)
Depth Interval		3'-4'		3'-4'
Aldrin	–	–	–	–
Dieldrin	3.9	6.1	3.9	ND
4,4'-DDT	–	–	–	–

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT (ug/L)*	*RINSATE L-040393-JM-838 (ug/L)*	*QUANTITATION LIMIT (ug/kg)*	*SB-208 S-040393-JM-841 (ug/kg)*
PESTICIDES				
Depth Interval		-		1'-2'
Aldrin	0.05	ND	-	-
Dieldrin	0.1	ND	3.9	33
4,4'-DDT	0.1	ND	-	-

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

COMPOUND	*QUANTITATION LIMIT (ug/kg)*	*SB-159 DUPL. S-040393-JM-835 (ug/kg)*	*QUANTITATION LIMIT (ug/kg)*	*SB-160 S-040393-JM-837 (ug/kg)*
PESTICIDES				
Depth Interval		3'-4'		3'-4'
Aldrin	-	-	-	-
Dieldrin	3.9	ND	3.9	ND
4,4'-DDT	-	-	-	-

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-209 S-040393-JM-842 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-161 S-040393-JM-843 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-161 S-040393-JM-843DL (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-161 S-040393-JM-843MS (ug/kg)
PESTICIDES								
Depth Interval		1'-2'		1'-2'		1'-2'		1'-2'
Aldrin	-	-	-	-	-	-	-	-
Dieldrin	4.0	ND	214	(8,300) J	2,145	6,900	214.5	10,000
4,4'-DDT	-	-	-	-	-	-	-	-

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-161 S-040393-JM-843MSD (ug/kg)
PESTICIDES		
Depth Interval		1'-2'
Aldrin	-	-
Dieldrin	214.5	11,000
4,4'-DDT	-	-

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-154 S-040393-JM-844 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-154 S-040393-JM-844DL (ug/kg)
Depth Interval		1'-2'		1'-2'
Aldrin	-	-	-	-
Dieldrin	207.9	8,800	2,079	7,300D
4,4'-DDT	-	-	-	-

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-154 DUPL. S-040393-JM-845 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-155 S-040393-JM-846 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-156 S-040393-JM-849 (ug/kg)
Depth Interval		1'-2'		2'-3'		2'-3'
Aldrin	-	-	-	-	-	-
Dieldrin	429	15,000	3.9	ND	3.7	ND
4,4'-DDT	-	-	-	-	-	-

COMPOUND PESTICIDES	QUANTITATION LIMIT (ug/kg)	SB-154 S-040393-JM-845 DL (ug/kg)
Depth Interval		1'-2'
Aldrin	-	-
Dieldrin	4,290	14,000D
4,4'-DDT	-	-

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-190 S-040393-JM-851 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-232 S-040493-JM-854 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-234 S-040493-JM-855 (ug/kg)
PESTICIDES						
Depth Interval		1'-2'		2.5'-3'		3'-4'
Aldrin	2.0	ND	2.2	ND	2.1	ND
Dieldrin	3.8	3.4 JP	4.2	ND	4.1	ND
4,4'-DDT	3.8	19 P	4.2	ND	4.1	ND

COMPOUND	QUANTITATION LIMIT (ug/kg)	SB-190 S-040393-JM-852 (ug/kg)	QUANTITATION LIMIT (ug/kg)	SB-190 DUPL. S-040393-JM-853 (ug/kg)
PESTICIDES				
Depth Interval		2'-3'		2'-3'
Aldrin	2.0	ND	2.0	ND
Dieldrin	3.8	ND	3.8	ND
4,4'-DDT	3.8	ND	3.8	ND

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT*	*SB-237*	*QUANTITATION LIMIT*	*SB-240*	*QUANTITATION LIMIT*	*SB-243*	*QUANTITATION LIMIT*	*SB-243 DUPL.*
PESTICIDES	*(ug/kg)*	*S-040493-JM-856*	*(ug/kg)*	*S-040493-JM-857*	*(ug/kg)*	*S-040493-JM-858*	*(ug/kg)*	*S-040493-JM-859*
		(ug/kg)		*(ug/kg)*		*(ug/kg)*		*(ug/kg)*
		3'-4'		3'-4'		3'-4'		3'-4'
Aldrin	2.2	0.49 J	2.1	ND	2.1	1.8 J	2.1	ND
Dieldrin	4.2	ND	4.1	ND	4.2	ND	4.1	ND
4,4'-DDT	4.2	ND	4.1	ND	4.2	ND	4.1	ND

COMPOUND

PESTICIDES

Depth Interval

Aldrin
Dieldrin
4,4'-DDT

COMPOUND

PESTICIDES

Depth Interval

Aldrin
Dieldrin
4,4'-DDT

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PESTICIDES
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

COMPOUND	*QUANTITATION LIMIT (ug/L)*	*RINSATE L-040493-JM-860 (ug/L)*
PESTICIDES		
Depth Interval		--
Aldrin	0.05	ND
Dieldrin	0.10	ND
4,4'-DDT	0.10	ND

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

COMPOUND
PESTICIDES
Depth Interval
Aldrin
Dieldrin
4,4'-DDT

DATA QUALIFIERS

Laboratory Qualifiers

ND	-	Not detected.
J	-	Estimated Value.
B	-	Analyte found in blanks as well as the sample.
D	-	Sample was diluted and reanalyzed.
P	-	Greater than 25 percent difference for detected concentrations between the two GC columns.
Z	-	Compound could not be confirmed during GC/MS confirmation analysis.

CRA Qualifiers

( ) ND J	-	Not detected. Quantitation limit is an estimated value.
( ) ND	-	Not detected at given quantitation limit.
( ) J	-	Estimated value.
Dupl	-	Duplicate sample.
DL	-	Diluted sample.
SB	-	Soil Boring.
MS	-	Matrix Spike.
MSD	-	Matrix Spike Duplicate.

APPENDIX H

SECOND ROUND PAH ANALYTICAL RESULTS

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
SB - 240 (1'-2')				
Sample: S-032493-RH-737				
PAH (ug/kg)				
Benzo(a)anthracene	490	56 J	0.145	8
Chrysene	490	120 J	0.004	1
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	490	ND	0.140	5
Benzo(a)pyrene	490	ND	1.000	21
Indeno(1,2,3-cd)pyrene	490	37 J	0.233	9
Dibenz(a,h)anthracene	490	ND	1.109	40
			TOTAL	83
SB - 241 (0'-1')				
Sample: S-032493-RH-737				
PAH (ug/kg)				
Benzo(a)anthracene	390	75 J	0.145	11
Chrysene	390	100 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	390	130 J	0.140	18
Benzo(a)pyrene	390	59 J	1.000	59
Indeno(1,2,3-cd)pyrene	390	49 J	0.233	11
Dibenz(a,h)anthracene	390	ND	1.109	40
			TOTAL	140
SB - 242 (0'-1')				
Sample: S-032493-RH-739				
PAH (ug/kg)				
Benzo(a)anthracene	390	190 J	0.145	28
Chrysene	390	240 J	0.004	1
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	390	330 J	0.140	46
Benzo(a)pyrene	390	190 J	1.000	190
Indeno(1,2,3-cd)pyrene	390	110 J	0.233	26
Dibenz(a,h)anthracene	390	62 J	1.109	69
			TOTAL	359
RINSATE				
Sample: S-032493-RH-742				
PAH (ug/L)				
Benzo(a)anthracene	10	ND	0.145	NA
Chrysene	10	ND	0.004	NA
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	10	ND	0.140	NA
Benzo(a)pyrene	10	ND	1.000	NA
Indeno(1,2,3-cd)pyrene	10	ND	0.233	NA
Dibenz(a,h)anthracene	10	ND	1.109	NA
			TOTAL	NA

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.
NA - Detection limit not available.

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TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	QUANTITATION LIMIT	MEASURED CONCENTRATION	TOXICITY EQUIVALENT FACTORS	TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE
SB - 234 (1'-2')				See TABLE 3.1
Sample: S-032493-RH-733				
PAH (ug/kg)				
Benzo(a)anthracene	460	ND	0.145	3
Chrysene	460	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	460	ND	0.140	5
Benzo(a)pyrene	460	ND	1.000	21
Indeno(1,2,3-cd)pyrene	460	60 J	0.233	14
Dibenz(a,h)anthracene	460	ND	1.109	40
			TOTAL	83
SB - 235 (0'-1')				
Sample: S-032493-RH-734				
PAH (ug/kg)				
Benzo(a)anthracene	400	23 J	0.145	3
Chrysene	400	47 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	400	84 J	0.140	12
Benzo(a)pyrene	400	20 J	1.000	21
Indeno(1,2,3-cd)pyrene	400	ND	0.233	6
Dibenz(a,h)anthracene	400	ND	1.109	40
			TOTAL	82
SB - 236 (0'-1')				
Sample: S-032493-RH-735				
PAH (ug/kg)				
Benzo(a)anthracene	390	ND	0.145	3
Chrysene	390	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	390	ND	0.140	5
Benzo(a)pyrene	390	ND	1.000	21
Indeno(1,2,3-cd)pyrene	390	ND	0.233	6
Dibenz(a,h)anthracene	390	ND	1.109	40
			TOTAL	75
SB - 236 Dupl. (0'-1')				
Sample: S-032493-RH-736				
PAH (ug/kg)				
Benzo(a)anthracene	380	ND	0.145	3
Chrysene	380	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	380	ND	0.140	5
Benzo(a)pyrene	380	ND	1.000	21
Indeno(1,2,3-cd)pyrene	380	ND	0.233	6
Dibenz(a,h)anthracene	380	ND	1.109	40
			TOTAL	75

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
RINSATE				
Sample: S-032593-RH-754				
PAH (ug/L)				
Benzo(a)anthracene	10	ND	0.145	NA
Chrysene	10	ND	0.004	NA
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	10	ND	0.140	NA
Benzo(a)pyrene	10	ND	1.000	NA
Indeno(1,2,3-cd)pyrene	10	ND	0.233	NA
Dibenz(a,h)anthracene	10	ND	1.109	NA
			TOTAL	NA
SB-246 (2'-3')				
Sample: S-032593-RH-755				
PAH (ug/kg)				
Benzo(a)anthracene	400	ND	0.145	3
Chrysene	400	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	400	ND	0.140	5
Benzo(a)pyrene	400	ND	1.000	21
Indeno(1,2,3-cd)pyrene	400	ND	0.233	6
Dibenz(a,h)anthracene	400	ND	1.109	40
			TOTAL	75
SB-246 Dupl. (2'-3')				
Sample: S-032593-RH-756				
PAH (ug/kg)				
Benzo(a)anthracene	400	ND	0.145	3
Chrysene	400	12 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	400	ND	0.140	5
Benzo(a)pyrene	400	ND	1.000	21
Indeno(1,2,3-cd)pyrene	400	ND	0.233	6
Dibenz(a,h)anthracene	400	ND	1.109	40
			TOTAL	75
SB-249 (1'-2')				
Sample: S-032593-RH-757				
PAH (ug/kg)				
Benzo(a)anthracene	400	64 J	0.145	9
Chrysene	400	100 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	400	150 J	0.140	21
Benzo(a)pyrene	400	61 J	1.000	61
Indeno(1,2,3-cd)pyrene	400	62 J	0.233	14
Dibenz(a,h)anthracene	400	ND	1.109	40
			TOTAL	146

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.
NA - Detection limit not available.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
SB-229B (1'-2')				
Sample: S-032493-RH-744				
PAH (ug/kg)				
Benzo(a)anthracene	620	ND	0.145	3
Chrysene	620	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	620	ND	0.140	5
Benzo(a)pyrene	620	ND	1.000	21
Indeno(1,2,3-cd)pyrene	620	ND	0.233	6
Dibenz(a,h)anthracene	620	ND	1.109	40
			TOTAL	75
SB-190 (1'-2')				
Sample: S-032493-RH-746				
PAH (ug/kg)				
Benzo(a)anthracene	370	ND	0.145	3
Chrysene	370	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	370	ND	0.140	5
Benzo(a)pyrene	370	ND	1.000	21
Indeno(1,2,3-cd)pyrene	370	ND	0.233	6
Dibenz(a,h)anthracene	370	ND	1.109	40
			TOTAL	75
SB-202 (0'-1')				
Sample: S-032493-RH-747				
PAH (ug/kg)				
Benzo(a)anthracene	370	ND	0.145	3
Chrysene	370	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	370	ND	0.140	5
Benzo(a)pyrene	370	ND	1.000	21
Indeno(1,2,3-cd)pyrene	370	20 J	0.233	6
Dibenz(a,h)anthracene	370	ND	1.109	40
			TOTAL	75
SB-231 (1'-2')				
Sample: S-032493-RH-748				
PAH (ug/kg)				
Benzo(a)anthracene	390	16 J	0.145	3
Chrysene	390	29 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	390	40 J	0.140	6
Benzo(a)pyrene	390	16 J	1.000	21
Indeno(1,2,3-cd)pyrene	390	13 J	0.233	6
Dibenz(a,h)anthracene	390	ND	1.109	40
			TOTAL	76

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
SB-250 (1'-2')				
Sample: S-032593-RH-762				
PAH (ug/kg)				
Benzo(a)anthracene	190	ND	0.145	3
Chrysene	190	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	190	ND	0.140	5
Benzo(a)pyrene	190	ND	1.000	21
Indeno(1,2,3-cd)pyrene	190	ND	0.233	6
Dibenz(a,h)anthracene	190	ND	1.109	40
			TOTAL	75
SB-168 (1'-2')				
Sample: S-032593-RH-763				
PAH (ug/kg)				
Benzo(a)anthracene	380	940	0.145	136
Chrysene	380	900	0.004	4
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	380	1,700	0.140	237
Benzo(a)pyrene	380	1,000	1.000	1,000
Indeno(1,2,3-cd)pyrene	380	670	0.233	156
Dibenz(a,h)anthracene	380	230 J	1.109	255
			TOTAL	1,789
SB-254 (1'-2')				
Sample: S-032593-RH-764				
PAH (ug/kg)				
Benzo(a)anthracene	380	ND	0.145	3
Chrysene	380	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	380	17 J	0.140	5
Benzo(a)pyrene	380	ND	1.000	21
Indeno(1,2,3-cd)pyrene	380	ND	0.233	6
Dibenz(a,h)anthracene	380	ND	1.109	40
			TOTAL	75
SB-265 (1'-2')				
Sample: S-032593-RH-765				
PAH (ug/kg)				
Benzo(a)anthracene	400	ND	0.145	3
Chrysene	400	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	400	ND	0.140	5
Benzo(a)pyrene	400	ND	1.000	21
Indeno(1,2,3-cd)pyrene	400	ND	0.233	6
Dibenz(a,h)anthracene	400	ND	1.109	40
			TOTAL	75

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
SB-139 (1'-2')				
Sample: S-032593-RH-758				
PAH (ug/kg)				
Benzo(a)anthracene	380	ND	0.145	3
Chrysene	380	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	380	23 J	0.140	5
Benzo(a)pyrene	380	17 J	1.000	21
Indeno(1,2,3-cd)pyrene	380	13 J	0.233	6
Dibenz(a,h)anthracene	380	ND	1.109	40
			TOTAL	75
SB-137 (1'-2')				
Sample: S-032593-RH-759				
PAH (ug/kg)				
Benzo(a)anthracene	380	97 J	0.145	14
Chrysene	380	140 J	0.004	1
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	380	230 J	0.140	32
Benzo(a)pyrene	380	110 J	1.000	110
Indeno(1,2,3-cd)pyrene	380	96 J	0.233	22
Dibenz(a,h)anthracene	380	36 J	1.109	40
			TOTAL	219
SB-252 (1'-2')				
Sample: S-032593-RH-760				
PAH (ug/kg)				
Benzo(a)anthracene	370	ND	0.145	3
Chrysene	370	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	370	ND	0.140	5
Benzo(a)pyrene	370	ND	1.000	21
Indeno(1,2,3-cd)pyrene	370	ND	0.233	6
Dibenz(a,h)anthracene	370	ND	1.109	40
			TOTAL	75
SB-251 (2'-3')				
Sample: S-032593-RH-761				
PAH (ug/kg)				
Benzo(a)anthracene	390	42 J	0.145	6
Chrysene	390	69 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	390	110 J	0.140	15
Benzo(a)pyrene	390	53 J	1.000	53
Indeno(1,2,3-cd)pyrene	390	54 J	0.233	13
Dibenz(a,h)anthracene	390	ND	1.109	40
			TOTAL	127

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
SB-259 (1'-2')				
Sample: S-032593-RH-770				
PAH (ug/kg)				
Benzo(a)anthracene	430	18 J	0.145	3
Chrysene	430	25 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	430	25 J	0.140	5
Benzo(a)pyrene	430	9 J	1.000	21
Indeno(1,2,3-cd)pyrene	430	9 J	0.233	6
Dibenz(a,h)anthracene	430	ND	1.109	40
			TOTAL	75
SB-258 (1'-2')				
Sample: S-032593-RH-771				
PAH (ug/kg)				
Benzo(a)anthracene	390	12 J	0.145	3
Chrysene	390	16 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	390	17 J	0.140	5
Benzo(a)pyrene	390	7 J	1.000	21
Indeno(1,2,3-cd)pyrene	390	4 J	0.233	6
Dibenz(a,h)anthracene	390	ND	1.109	40
			TOTAL	75
SB-257 (1'-2')				
Sample: S-032593-RH-772				
PAH (ug/kg)				
Benzo(a)anthracene	360	ND	0.145	3
Chrysene	360	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	360	ND	0.140	5
Benzo(a)pyrene	360	ND	1.000	21
Indeno(1,2,3-cd)pyrene	360	ND	0.233	6
Dibenz(a,h)anthracene	360	ND	1.109	40
			TOTAL	75
SB-181A (1'-2')				
Sample: S-032593-RH-773				
PAH (ug/kg)				
Benzo(a)anthracene	410	180 J	0.145	26
Chrysene	410	180 J	0.004	1
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	410	240 J	0.140	34
Benzo(a)pyrene	410	120 J	1.000	120
Indeno(1,2,3-cd)pyrene	410	86 J	0.233	20
Dibenz(a,h)anthracene	410	30 J	1.109	40
			TOTAL	240

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
RINSATE				
Sample: S-032593-RH-766				
PAH (ug/L)				
Benzo(a)anthracene	10	ND	0.145	NA
Chrysene	10	ND	0.004	NA
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	10	ND	0.140	NA
Benzo(a)pyrene	10	ND	1.000	NA
Indeno(1,2,3-cd)pyrene	10	ND	0.233	NA
Dibenz(a,h)anthracene	10	ND	1.109	NA
			TOTAL	NA
SB-247 (2'-3')				
Sample: S-032593-RH-767				
PAH (ug/kg)				
Benzo(a)anthracene	400	ND	0.145	3
Chrysene	400	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	400	ND	0.140	5
Benzo(a)pyrene	400	ND	1.000	21
Indeno(1,2,3-cd)pyrene	400	ND	0.233	6
Dibenz(a,h)anthracene	400	ND	1.109	40
			TOTAL	75
SB-247 Dupl. (2'-3')				
Sample: S-032593-RH-768				
PAH (ug/kg)				
Benzo(a)anthracene	460	ND	0.145	3
Chrysene	460	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	460	ND	0.140	5
Benzo(a)pyrene	460	ND	1.000	21
Indeno(1,2,3-cd)pyrene	460	ND	0.233	6
Dibenz(a,h)anthracene	460	ND	1.109	40
			TOTAL	75
SB-256 (2'-3')				
Sample: S-032593-RH-769				
PAH (ug/kg)				
Benzo(a)anthracene	410	67 J	0.145	10
Chrysene	410	130 J	0.004	1
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	410	230 J	0.140	32
Benzo(a)pyrene	410	37 J	1.000	37
Indeno(1,2,3-cd)pyrene	410	50 J	0.233	12
Dibenz(a,h)anthracene	410	21 J	1.109	40
			TOTAL	131

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.
NA - Detection limit not available.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
RINSATE				
Sample: S-032593-RH-778				
PAH (ug/L)				
Benzo(a)anthracene	10	ND	0.145	NA
Chrysene	10	ND	0.004	NA
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	10	ND	0.140	NA
Benzo(a)pyrene	10	ND	1.000	NA
Indeno(1,2,3-cd)pyrene	10	ND	0.233	NA
Dibenz(a,h)anthracene	10	ND	1.109	NA
			TOTAL	NA
SB-142 (3'-4')				
Sample: S-032593-RH-779				
PAH (ug/kg)				
Benzo(a)anthracene	410	ND	0.145	3
Chrysene	410	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	410	ND	0.140	5
Benzo(a)pyrene	410	ND	1.000	21
Indeno(1,2,3-cd)pyrene	410	ND	0.233	6
Dibenz(a,h)anthracene	410	ND	1.109	40
			TOTAL	75
SB-142 Dupl.(3'-4')				
Sample: S-032593-RH-780				
PAH (ug/kg)				
Benzo(a)anthracene	410	ND	0.145	3
Chrysene	410	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	410	ND	0.140	5
Benzo(a)pyrene	410	ND	1.000	21
Indeno(1,2,3-cd)pyrene	410	ND	0.233	6
Dibenz(a,h)anthracene	410	ND	1.109	40
			TOTAL	75
SB-266 (1'-2')				
Sample: S-032593-RH-781				
PAH (ug/kg)				
Benzo(a)anthracene	380	ND	0.145	3
Chrysene	380	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	380	ND	0.140	5
Benzo(a)pyrene	380	ND	1.000	21
Indeno(1,2,3-cd)pyrene	380	ND	0.233	6
Dibenz(a,h)anthracene	380	ND	1.109	40
			TOTAL	75

Notes: ND - not detected.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.
NA - Detection limit not available.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
SB-263 (1'-2')				
Sample: S-032593-RH-774				
PAH (ug/kg)				
Benzo(a)anthracene	380	ND	0.145	3
Chrysene	380	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	380	ND	0.140	5
Benzo(a)pyrene	380	ND	1.000	21
Indeno(1,2,3-cd)pyrene	380	ND	0.233	6
Dibenz(a,h)anthracene	380	ND	1.109	40
			TOTAL	75
SB-182 (1'-2')				
Sample: S-032593-RH-775				
PAH (ug/kg)				
Benzo(a)anthracene	380	190 J	0.145	28
Chrysene	380	320 J	0.004	1
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	380	480	0.140	67
Benzo(a)pyrene	380	170 J	1.000	170
Indeno(1,2,3-cd)pyrene	380	160 J	0.233	37
Dibenz(a,h)anthracene	380	54 J	1.109	60
			TOTAL	363
SB-262 (2'-3')				
Sample: S-032593-RH-776				
PAH (ug/kg)				
Benzo(a)anthracene	430	120 J	0.145	17
Chrysene	430	270 J	0.004	1
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	430	390 J	0.140	54
Benzo(a)pyrene	430	53 J	1.000	53
Indeno(1,2,3-cd)pyrene	430	77 J	0.233	18
Dibenz(a,h)anthracene	430	28 J	1.109	40
			TOTAL	184
SB-269 (2'-3')				
Sample: S-032593-RH-777				
PAH (ug/kg)				
Benzo(a)anthracene	380	ND	0.145	3
Chrysene	380	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	380	ND	0.140	5
Benzo(a)pyrene	380	ND	1.000	21
Indeno(1,2,3-cd)pyrene	380	ND	0.233	6
Dibenz(a,h)anthracene	380	ND	1.109	40
			TOTAL	75

Notes: ND - not detected.
J - Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
SB-271 (1'-2')				
Sample: S-032593-RH-786				
PAH (ug/kg)				
Benzo(a)anthracene	410	ND	0.145	3
Chrysene	410	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	410	ND	0.140	5
Benzo(a)pyrene	410	ND	1.000	21
Indeno(1,2,3-cd)pyrene	410	ND	0.233	6
Dibenz(a,h)anthracene	410	ND	1.109	40
			TOTAL	75
SB-274 (1'-2')				
Sample: S-032593-RH-787				
PAH (ug/kg)				
Benzo(a)anthracene	390	ND	0.145	3
Chrysene	390	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	390	ND	0.140	5
Benzo(a)pyrene	390	ND	1.000	21
Indeno(1,2,3-cd)pyrene	390	ND	0.233	6
Dibenz(a,h)anthracene	390	ND	1.109	40
			TOTAL	75
SB-219 (2'-3')				
Sample: S-032593-RH-788				
PAH (ug/kg)				
Benzo(a)anthracene	390	ND	0.145	3
Chrysene	390	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	390	30 J	0.140	5
Benzo(a)pyrene	390	11 J	1.000	21
Indeno(1,2,3-cd)pyrene	390	13 J	0.233	6
Dibenz(a,h)anthracene	390	ND	1.109	40
			TOTAL	75
SB-261 (1'-2')				
Sample: S-032593-RH-789				
PAH (ug/kg)				
Benzo(a)anthracene	380	120 J	0.145	17
Chrysene	380	160 J	0.004	1
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	380	310 J	0.140	43
Benzo(a)pyrene	380	130 J	1.000	130
Indeno(1,2,3-cd)pyrene	380	100 J	0.233	23
Dibenz(a,h)anthracene	380	46 J	1.109	51
			TOTAL	266

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
SB-267 (2'-3')				
Sample: S-032593-RH-782				
PAH (ug/kg)				
Benzo(a)anthracene	420	45 J	0.145	7
Chrysene	420	92 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	420	87 J	0.140	12
Benzo(a)pyrene	420	23 J	1.000	23
Indeno(1,2,3-cd)pyrene	420	20 J	0.233	6
Dibenz(a,h)anthracene	420	ND	1.109	40
			TOTAL	88
SB-270 (2'-3')				
Sample: S-032593-RH-783				
PAH (ug/kg)				
Benzo(a)anthracene	400	14 J	0.145	3
Chrysene	400	28 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	400	36 J	0.140	5
Benzo(a)pyrene	400	8 J	1.000	21
Indeno(1,2,3-cd)pyrene	400	12 J	0.233	6
Dibenz(a,h)anthracene	400	ND	1.109	40
			TOTAL	75
SB-268 (1'-2')				
Sample: S-032593-RH-784				
PAH (ug/kg)				
Benzo(a)anthracene	390	ND	0.145	3
Chrysene	390	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	390	ND	0.140	5
Benzo(a)pyrene	390	ND	1.000	21
Indeno(1,2,3-cd)pyrene	390	ND	0.233	6
Dibenz(a,h)anthracene	390	ND	1.109	40
			TOTAL	75
SB-264 (1'-2')				
Sample: S-032593-RH-785				
PAH (ug/kg)				
Benzo(a)anthracene	400	ND	0.145	3
Chrysene	400	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	400	ND	0.140	5
Benzo(a)pyrene	400	ND	1.000	21
Indeno(1,2,3-cd)pyrene	400	ND	0.233	6
Dibenz(a,h)anthracene	400	ND	1.109	40
			TOTAL	75

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
SB-276 (1'-2')				
Sample: S-032593-RH-794				
PAH (ug/kg)				
Benzo(a)anthracene	390	ND	0.145	3
Chrysene	390	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	390	ND	0.140	5
Benzo(a)pyrene	390	ND	1.000	21
Indeno(1,2,3-cd)pyrene	390	14 J	0.233	6
Dibenz(a,h)anthracene	390	ND	1.109	40
			TOTAL	75
SB-275 (1'-2')				
Sample: S-032593-RH-795				
PAH (ug/kg)				
Benzo(a)anthracene	380	ND	0.145	3
Chrysene	380	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	380	ND	0.140	5
Benzo(a)pyrene	380	ND	1.000	21
Indeno(1,2,3-cd)pyrene	380	ND	0.233	6
Dibenz(a,h)anthracene	380	ND	1.109	40
			TOTAL	75
RINSATE				
Sample: S-032693-RH-796				
PAH (ug/L)				
Benzo(a)anthracene	10	ND	0.145	NA
Chrysene	10	ND	0.004	NA
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	10	ND	0.140	NA
Benzo(a)pyrene	10	ND	1.000	NA
Indeno(1,2,3-cd)pyrene	10	ND	0.233	NA
Dibenz(a,h)anthracene	10	ND	1.109	NA
			TOTAL	NA
SB-277 (1'-2')				
Sample: S-032693-RH-797				
PAH (ug/kg)				
Benzo(a)anthracene	460	ND	0.145	3
Chrysene	460	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	460	ND	0.140	5
Benzo(a)pyrene	460	ND	1.000	21
Indeno(1,2,3-cd)pyrene	460	ND	0.233	6
Dibenz(a,h)anthracene	460	ND	1.109	40
			TOTAL	75

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.
NA - Detection limit not available.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
SB-260 (1'-2')				
Sample: S-032593-RH-790				
PAH (ug/kg)				
Benzo(a)anthracene	400	ND	0.145	3
Chrysene	400	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	400	ND	0.140	5
Benzo(a)pyrene	400	9 J	1.000	21
Indeno(1,2,3-cd)pyrene	400	7 J	0.233	6
Dibenz(a,h)anthracene	400	ND	1.109	40
			TOTAL	75
SB-273 (1'-2')				
Sample: S-032593-RH-791				
PAH (ug/kg)				
Benzo(a)anthracene	420	ND	0.145	3
Chrysene	420	28 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	420	ND	0.140	5
Benzo(a)pyrene	420	9 J	1.000	21
Indeno(1,2,3-cd)pyrene	420	11 J	0.233	6
Dibenz(a,h)anthracene	420	ND	1.109	40
			TOTAL	75
SB-272 (1'-2')				
Sample: S-032593-RH-792				
PAH (ug/kg)				
Benzo(a)anthracene	410	ND	0.145	3
Chrysene	410	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	410	ND	0.140	5
Benzo(a)pyrene	410	ND	1.000	21
Indeno(1,2,3-cd)pyrene	410	ND	0.233	6
Dibenz(a,h)anthracene	410	ND	1.109	40
			TOTAL	75
SB-272 Dupl. (1'-2')				
Sample: S-032593-RH-793				
PAH (ug/kg)				
Benzo(a)anthracene	410	ND	0.145	3
Chrysene	410	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	410	ND	0.140	5
Benzo(a)pyrene	410	ND	1.000	21
Indeno(1,2,3-cd)pyrene	410	ND	0.233	6
Dibenz(a,h)anthracene	410	ND	1.109	40
			TOTAL	75

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
RINSATE				
Sample: S-032693-RH-802				
PAH (ug/L)				
Benzo(a)anthracene	10	ND	0.145	NA
Chrysene	10	ND	0.004	NA
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	10	ND	0.140	NA
Benzo(a)pyrene	10	ND	1.000	NA
Indeno(1,2,3-cd)pyrene	10	ND	0.233	NA
Dibenz(a,h)anthracene	10	ND	1.109	NA
			TOTAL	NA
SB-147 (1'-2')				
Sample: S-032693-RH-803				
PAH (ug/kg)				
Benzo(a)anthracene	380	37 J	0.145	5
Chrysene	380	69 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	380	65 J	0.140	9
Benzo(a)pyrene	380	ND	1.000	21
Indeno(1,2,3-cd)pyrene	380	15 J	0.233	6
Dibenz(a,h)anthracene	380	ND	1.109	40
			TOTAL	82
SB-280 (1'-2')				
Sample: S-032693-RH-804				
PAH (ug/kg)				
Benzo(a)anthracene	400	21 J	0.145	3
Chrysene	400	30 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	400	51 J	0.140	7
Benzo(a)pyrene	400	21 J	1.000	21
Indeno(1,2,3-cd)pyrene	400	17 J	0.233	6
Dibenz(a,h)anthracene	400	ND	1.109	40
			TOTAL	77
SB-279 (1'-2')				
Sample: S-032693-RH-805				
PAH (ug/kg)				
Benzo(a)anthracene	370	20 J	0.145	3
Chrysene	370	26 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	370	40 J	0.140	6
Benzo(a)pyrene	370	16 J	1.000	21
Indeno(1,2,3-cd)pyrene	370	14 J	0.233	6
Dibenz(a,h)anthracene	370	ND	1.109	40
			TOTAL	76

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.
NA - Detection limit not available.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
SB-215 (1'-2')				
Sample: S-032693-RH-798				
PAH (ug/kg)				
Benzo(a)anthracene	400	8 J	0.145	3
Chrysene	400	10 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	400	ND	0.140	5
Benzo(a)pyrene	400	ND	1.000	21
Indeno(1,2,3-cd)pyrene	400	ND	0.233	6
Dibenz(a,h)anthracene	400	ND	1.109	40
			TOTAL	75
SB-206 (1'-2')				
Sample: S-032693-RH-799				
PAH (ug/kg)				
Benzo(a)anthracene	390	550	0.145	80
Chrysene	390	570	0.004	3
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	390	970	0.140	135
Benzo(a)pyrene	390	530	1.000	530
Indeno(1,2,3-cd)pyrene	390	340 J	0.233	79
Dibenz(a,h)anthracene	390	110 J	1.109	122
			TOTAL	949
SB-150 (0'-1')				
Sample: S-032693-RH-800				
PAH (ug/kg)				
Benzo(a)anthracene	490	210 J	0.145	30
Chrysene	490	300 J	0.004	1
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	490	440 J	0.140	61
Benzo(a)pyrene	490	160 J	1.000	160
Indeno(1,2,3-cd)pyrene	490	120 J	0.233	28
Dibenz(a,h)anthracene	490	46 J	1.109	51
			TOTAL	332
SB-213A (1'-2')				
Sample: S-032693-RH-801				
PAH (ug/kg)				
Benzo(a)anthracene	390	9 J	0.145	3
Chrysene	390	10 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	390	18 J	0.140	5
Benzo(a)pyrene	390	6 J	1.000	21
Indeno(1,2,3-cd)pyrene	390	5 J	0.233	6
Dibenz(a,h)anthracene	390	ND	1.109	40
			TOTAL	75

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
SB-278 Dupl. (0'-1')				
Sample: S-032693-RH-810				
PAH (ug/kg)				
Benzo(a)anthracene	390	39 J	0.145	6
Chrysene	390	52 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	390	95 J	0.140	13
Benzo(a)pyrene	390	34 J	1.000	34
Indeno(1,2,3-cd)pyrene	390	28 J	0.233	7
Dibenz(a,h)anthracene	390	ND	1.109	40
			TOTAL	100
SB-234 (3'-4')				
Sample: S-040493-JM-855				
PAH (ug/kg)				
Benzo(a)anthracene	430	20 J	0.145	3
Chrysene	430	24 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	430	41 J	0.140	6
Benzo(a)pyrene	430	20 J	1.000	21
Indeno(1,2,3-cd)pyrene	430	16 J	0.233	6
Dibenz(a,h)anthracene	430	ND	1.109	40
			TOTAL	76
SB-240 (3'-4')				
Sample: S-040493-JM-857				
PAH (ug/kg)				
Benzo(a)anthracene	410	ND	0.145	3
Chrysene	410	ND	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	410	ND	0.140	5
Benzo(a)pyrene	410	ND	1.000	21
Indeno(1,2,3-cd)pyrene	410	ND	0.233	6
Dibenz(a,h)anthracene	410	ND	1.109	40
			TOTAL	75

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.

TABLE 1
SECOND ROUND ANALYTICAL DATA FOR PAHs
SHALLOW SOIL BORINGS
PRISTINE INC. SITE

PARAMETER	*QUANTITATION LIMIT*	*MEASURED CONCENTRATION*	*TOXICITY EQUIVALENT FACTORS*	*TOXICITY EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE*
SB-255 (1'-2')				
Sample: S-032693-RH-806				
PAH (ug/kg)				
Benzo(a)anthracene	370	38 J	0.145	6
Chrysene	370	51 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	370	100 J	0.140	14
Benzo(a)pyrene	370	40 J	1.000	40
Indeno(1,2,3-cd)pyrene	370	37 J	0.233	9
Dibenz(a,h)anthracene	370	ND	1.109	40
			TOTAL	108
SB-253 (1'-2')				
Sample: S-032693-RH-807				
PAH (ug/kg)				
Benzo(a)anthracene	380	11 J	0.145	3
Chrysene	380	14 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	380	23 J	0.140	5
Benzo(a)pyrene	380	9 J	1.000	21
Indeno(1,2,3-cd)pyrene	380	8 J	0.233	6
Dibenz(a,h)anthracene	380	ND	1.109	40
			TOTAL	75
SB-278 (0'-1')				
Sample: S-032693-RH-808				
PAH (ug/kg)				
Benzo(a)anthracene	390	48 J	0.145	7
Chrysene	390	66 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	390	110 J	0.140	15
Benzo(a)pyrene	390	43 J	1.000	43
Indeno(1,2,3-cd)pyrene	390	31 J	0.233	7
Dibenz(a,h)anthracene	390	ND	1.109	40
			TOTAL	113
SB-248 (1'-2')				
Sample: S-032693-RH-809				
PAH (ug/kg)				
Benzo(a)anthracene	410	50 J	0.145	7
Chrysene	410	76 J	0.004	0
Benzo(b)fluoranthene/ Benzo(k)fluoranthene*	410	140 J	0.140	20
Benzo(a)pyrene	410	54 J	1.000	54
Indeno(1,2,3-cd)pyrene	410	46 J	0.233	11
Dibenz(a,h)anthracene	410	ND	1.109	40
			TOTAL	132

Notes: ND - not detected.
J -Estimated value.
* - benzo(b)fluoranthrene and benzo(k)fluoranthrene cannot be separated.

APPENDIX M

CHARACTERIZATION ANALYTICAL RESULTS

TABLE 1
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TCL - VOLATILE ORGANICS	*Quantitation Limit (µg/kg)*	*Area 3 S-101292-RH-573 (µg/kg)*	*Area 1 S-101292-RH-574 (µg/kg)*	*Area 2 S-101292-RH-575 (µg/kg)*	*Area 4 S-101392-RH-576 (µg/kg)*	*Area 13* S-101392-RH-577 (µg/kg)*	*Area 5 S-101392-RH-578 (µg/kg)*	*Area 6 S-101392-RH-579 (µg/kg)*
CHLOROMETHANE	10	ND	ND	ND	ND	ND	ND	ND
BROMOMETHANE	10	ND	ND	ND	ND	ND	ND	ND
VINYL CHLORIDE	10	ND	ND	ND	ND	ND	ND	ND
CHLOROETHANE	10	ND	ND	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	5	ND	ND	ND	ND	ND	ND	9
ACETONE	10	ND	ND	ND	ND	ND	ND	ND
CARBON DISULFIDE	5	ND	ND	ND	ND	ND	ND	ND
DICHLOROETHENE 1,1-	5	ND	ND	ND	ND	ND	ND	ND
DICHLOROETHANE 1,1-	5	ND	ND	ND	ND	ND	ND	ND
DICHLOROETHENE 1,2- (TOTAL)	5	ND	ND	ND	7	7	ND	ND
CHLOROFORM	5	(5) ND	ND	ND	ND	ND	ND	ND
DICHLOROETHANE 1,2-	5	ND	ND	ND	ND	ND	ND	5
BUTANONE 2-	10	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHANE 1,1,1-	5	ND	ND	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	5	ND	ND	ND	ND	ND	ND	ND
BROMODICHLOROMETHANE	5	ND	ND	ND	ND	ND	ND	ND
DICHLOROPROPANE 1,2-	5	ND	ND	ND	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPENE	5	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHENE	5	ND	ND	ND	8	4 J	ND	ND
DIBROMOCHLOROMETHANE	5	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHANE 1,1,2-	5	2 J	ND	ND	ND	ND	ND	28
BENZENE	5	ND	ND	ND	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	5	ND	ND	ND	ND	ND	ND	ND
BROMOFORM	5	ND	ND	ND	ND	ND	ND	ND
METHYL-2-PENTANONE 4-	10	ND	ND	ND	ND	ND	ND	ND
HEXANONE 2-	10	ND	ND	ND	ND	ND	ND	ND
TETRACHLOROETHENE	5	21	36	23	32	120	13	83
TOLUENE	5	ND	ND	ND	ND	ND	3 J	4 J
TETRACHLOROETHANE 1,1,2,2-	5	ND	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	5	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	5	ND	ND	ND	ND	ND	ND	ND
STYRENE	5	ND	ND	ND	ND	ND	ND	ND
XYLENES (TOTAL)	5	3 J	5	ND	ND	17	5	7

Notes: ND - Not detected.
J - Estimated value.
*Duplicate of Area 4 sample.

TABLE 1
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TCL - VOLATILE ORGANICS	*Quantitation Limit (µg/kg)*	*Area 8 S-101392-RH-580 (µg/kg)*	*Area 7 S-101392-RH-581 (µg/kg)*	*Area 9 S-101392-RH-582 (µg/kg)*	*Area 10 S-101392-RH-583 (µg/kg)*	*Area 11 S-101392-RH-584 (µg/kg)*	*Area 12 S-101392-RH-585 (µg/kg)*	*Water L-101392-RH-586 (µg/l)*
CHLOROMETHANE	10	ND	ND	ND	ND	ND	ND	ND
BROMOMETHANE	10	ND	ND	ND	ND	ND	ND	ND
VINYL CHLORIDE	10	ND	ND	ND	ND	ND	ND	ND
CHLOROETHANE	10	ND	ND	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	5	8	ND	ND	ND	ND	ND	ND
ACETONE	10	ND	ND	ND	ND	ND	ND	ND(11 B)
CARBON DISULFIDE	5	ND	ND	ND	ND	ND	ND	ND
DICHLOROETHENE 1,1-	5	ND	ND	ND	ND	ND	ND	ND
DICHLOROETHANE 1,1-	5	ND	ND	ND	ND	ND	ND	ND
DICHLOROETHENE 1,2- (TOTAL)	5	ND	ND	26	ND	ND	9	ND
CHLOROFORM	5	(5) ND	ND	ND	ND	ND	ND	18
DICHLOROETHANE 1,2-	5	5	ND	ND	ND	ND	7	ND
BUTANONE 2-	10	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHANE 1,1,1-	5	ND	ND	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	5	ND	ND	ND	ND	ND	ND	ND
BROMODICHLOROMETHANE	5	ND	ND	ND	ND	ND	ND	5
DICHLOROPROPANE 1,2-	5	ND	ND	ND	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPENE	5	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHENE	5	3 J	ND	11	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	5	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHANE 1,1,2-	5	36	ND	ND	ND	ND	ND	ND
BENZENE	5	ND	ND	ND	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	5	ND	ND	ND	ND	ND	ND	ND
BROMOFORM	5	ND	ND	ND	ND	ND	ND	ND
METHYL-2-PENTANONE 4-	10	ND	ND	ND	ND	ND	ND	ND
HEXANONE 2-	10	ND	ND	ND	ND	ND	ND	ND
TETRACHLOROETHENE	5	85	5	60	ND	ND	7	ND
TOLUENE	5	5	ND	ND	ND	ND	3 J	ND
TETRACHLOROETHANE 1,1,2,2-	5	ND	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	5	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	5	ND	ND	ND	ND	ND	9	ND
STYRENE	5	ND	ND	ND	ND	ND	ND	ND
XYLENES (TOTAL)	5	9	ND	3 J	ND	5	25	ND

Notes: ND - Not detected.
J - Estimated value.
B - Laboratory blank contmination.

TABLE 2
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TCL - SEMIVOLATILE ORGANICS	Quantitation Limit (µg/kg)	Area 3 S-101292-RH-573 (µg/kg)	Area 1 S-101292-RH-574 (µg/kg)	Area 2 S-101292-RH-575 (µg/kg)	Quantitation Limit (µg/kg)	Area 4 S-101392-RH-576 (µg/kg)	Area 13* S-101392-RH-577 (µg/kg)	Area 5 S-101392-RH-578 (µg/kg)
ACENAPHTHENE	330	130 J	ND	ND	1,300	150 J	210 J	ND
ACENAPHTHYLENE	330	ND	ND	ND	1,300	ND	ND	ND
ANTHRACENE	330	ND	73 J	ND	1,300	670 J	1,100 J	ND
BENZO(A)ANTHRACENE	330	ND	ND	230 J	1,300	6,500	12,000	480 J
BENZO(B)FLUORANTHENE	330	260 J	93 J	610	1,300	14,000	20,000	1,100 J
BENZO(K)FLUORANTHENE	330	110 J	47 J	190 J	1,300	4,700	7,800	350 J
BENZO(G,H,I)PERYLENE	330	80 J	37 J	140 J	1,300	2,300	4,100	230 J
BENZO(A)PYRENE	330	150 J	57 J	40 J	1,300	6,400	9,200	550 J
BIS(2-CHLOROETHOXY)METHANE	330	ND	ND	ND	1,300	ND	ND	ND
BIS(2-CHLOROETHYL)ETHER	330	ND	ND	ND	1,300	ND	ND	ND
OXYBIS (1-CHLOROPROPANE) 2,2-	330	ND	ND	ND	1,300	ND	ND	ND
BIS(2-ETHYLHEXYL)PHTHALATE	330	480	850	1,300	1,300	1,500	3,700	12,000
BROMOPHENYL-PHENYL ETHER 4-	330	ND	ND	ND	1,300	ND	ND	ND
BUTYLBENZYL PHTHALATE	330	43 J	50 J	190 J	1,300	ND	410 J	1,200 J
CARBAZOLE	330	ND	ND	ND	1,300	ND	ND	ND
CHLOROANILINE 4-	330	ND	ND	ND	1,300	ND	ND	ND
CHLORONAPHTHALENE 2-	330	ND	ND	ND	1,300	ND	ND	ND
CHLOROPHENYL-PHENYL ETHER 4-	330	ND	ND	ND	1,300	ND	ND	ND
CHRYSENE	330	230 J	77 J	260 J	1,300	6,300	11,000	510 J
DIBENZ(A,H)ANTHRACENE	330	ND	ND	ND	1,300	390 J	190 J	ND
DIBENZOFURAN	330	67 J	37 J	ND	1,300	ND	ND	ND
DI-N-BUTYL PHTHALATE	330	ND	ND	73 J	1,300	ND	ND	ND
DICHLOROBENZENE 1,2-	330	ND	47 J	ND	1,300	ND	ND	ND
DICHLOROBENZENE 1,3-	330	ND	ND	ND	1,300	ND	ND	ND
DICHLOROBENZENE 1,4-	330	ND	ND	ND	1,300	ND	ND	ND
DICHLOROBENZIDINE 3,3'-	660	ND	ND	ND	2,600	ND	ND	ND
DIETHYL PHTHALATE	330	ND	ND	50 J	1,300	ND	ND	ND
DIMETHYL PHTHALATE	330	ND	ND	ND	1,300	ND	ND	ND
DINITROTOLUENE 2,4-	330	ND	ND	ND	1,300	ND	ND	ND
DINITROTOLUENE 2,6-	330	ND	ND	ND	1,300	ND	ND	ND
DI-N-OCTYL PHTHALATE	330	ND	ND	ND	1,300	ND	250 J	ND
FLUORANTHENE	330	290 J	93 J	420	1,300	10,000	19,000	1,200 J
FLUORENE	330	83 J	43 J	ND	1,300	ND	ND	ND
HEXACHLOROBENZENE	330	ND	ND	ND	1,300	ND	ND	ND

Notes: ND - Not detected.
J - Estimated value.
*Duplicate of Area 4 sample.

TABLE 2
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TCL - SEMIVOLATILE ORGANICS	*Quantitation Limit (µg/kg)*	*Area 3 S-101292-RH-573 (µg/kg)*	*Area 1 S-101292-RH-574 (µg/kg)*	*Area 2 S-101292-RH-575 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 4 S-101392-RH-576 (µg/kg)*	*Area 13* S-101392-RH-577 (µg/kg)*	*Area 5 S-101392-RH-578 (µg/kg)*
HEXACHLOROBUTADIENE	330	ND	ND	ND	1,300	ND	ND	ND
HEXACHLOROCYCLOPENTADIENE	330	ND	ND	ND	1,300	ND	ND	ND
HEXACHLOROETHANE	330	ND	ND	ND	1,300	ND	ND	ND
INDENO(1,2,3-CD)PYRENE	330	70 J	37 J	190 J	1,300	2,900	4,800	240 J
ISOPHORONE	330	ND	ND	ND	1,300	ND	ND	ND
METHYL NAPHTHALENE 2-	330	70 J	50 J	47 J	1,300	ND	ND	ND
NAPTHALENE	330	43 J	ND	33 J	1,300	ND	ND	210 J
NITROBENZENE	330	ND	ND	ND	1,300	ND	ND	ND
NITROANILINE 2-	1,600	ND	ND	ND	6,400	ND	ND	ND
NITROANILINE 3-	1,600	ND	ND	ND	6,400	ND	ND	ND
NITROANILINE 4-	1,600	ND	ND	ND	6,400	ND	ND	ND
N-NITROSODIPHENYLAMINE	330	ND	ND	ND	1,300	ND	ND	ND
N-NITROSODI-N-PROPYLAMINE	330	ND	ND	ND	1,300	ND	ND	ND
PHENANTHRENE	330	280 J	77 J	170 J	1,300	1,700	2,400	720 J
PYRENE	330	460	160 J	230 J	1,300	5,800	9,600	640 J
TRICHLOROBENZENE 1,2,4-	330	ND	ND	ND	1,300	ND	ND	ND
CHLORO-3-METHYLPHENOL 4-	330	ND	ND	ND	1,300	ND	ND	ND
CHLOROPHENOL 2-	330	ND	ND	ND	1,300	ND	ND	ND
DICHLOROPHENOL 2,4-	330	ND	ND	ND	1,300	ND	ND	ND
DIMETHYLPHENOL 2,4-	330	ND	ND	ND	1,300	ND	ND	ND
DINITROPHENOL 2,4-	1,600	ND	ND	ND	6,400	ND	ND	ND
DINITRO-2-METHYLPHENOL 4,6-	1,600	ND	ND	ND	6,400	ND	ND	ND
METHYLPHENOL 2-	330	ND	ND	ND	1,300	ND	ND	ND
METHYLPHENOL 4-	330	ND	ND	ND	1,300	ND	ND	ND
NITROPHENOL 2-	330	ND	ND	ND	1,300	ND	ND	ND
NITROPHENOL 4-	1,600	ND	ND	ND	6,400	ND	ND	ND
PENTACHLOROPHENOL	1,600	ND	ND	ND	6,400	ND	ND	ND
PHENOL	330	ND	ND	53 J	1,300	ND	ND	160 J
TRICHLOROPHENOL 2,4,5-	330	ND	ND	ND	1,300	ND	ND	ND
TRICHLOROPHENOL 2,4,6-	330	ND	ND	ND	1,300	ND	ND	ND

Notes: ND - Not detected.
J - Estimated value.
*Duplicate of Area 4 sample.

TABLE 2
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TCL - SEMIVOLATILE ORGANICS	*Quantitation Limit (µg/kg)*	*Area 6 S-101392-RH-579 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 8 S-101392-RH-580 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 7 S-101392-RH-581 (µg/kg)*	*Area 9 S-101392-RH-582 (µg/kg)*
ACENAPHTHENE	1,300	ND	670	ND	1,300	ND	ND
ACENAPHTHYLENE	1,300	ND	670	ND	1,300	ND	ND
ANTHRACENE	1,300	410 J	670	ND	1,300	ND	ND
BENZO(A)ANTHRACENE	1,300	1,400	670	270 J	1,300	290 J	470 J
BENZO(B)FLUORANTHENE	1,300	2,600	670	650 J	1,300	630 J	880 J
BENZO(K)FLUORANTHENE	1,300	920 J	670	260 J	1,300	270 J	530 J
BENZO(G,H,I)PERYLENE	1,300	280 J	670	ND	1,300	ND	ND
BENZO(A)PYRENE	1,300	730 J	670	250 J	1,300	230 J	430 J
BIS(2-CHLOROETHOXY)METHANE	1,300	ND	670	ND	1,300	ND	ND
BIS(2-CHLOROETHYL)ETHER	1,300	ND	670	ND	1,300	ND	ND
OXYBIS (1-CHLOROPROPANE) 2,2-	1,300	ND	670	ND	1,300	ND	ND
BIS(2-ETHYLHEXYL)PHTHALATE	1,300	1,900	670	3,900	1,300	1,300	6,300
BROMOPHENYL-PHENYL ETHER 4-	1,300	ND	670	ND	1,300	ND	ND
BUTYLBENZYL PHTHALATE	1,300	ND	670	260 J	1,300	130 J	440 J
CARBAZOLE	1,300	ND	670	ND	1,300	ND	ND
CHLOROANILINE 4-	1,300	ND	670	ND	1,300	ND	ND
CHLORONAPHTHALENE 2-	1,300	ND	670	ND	1,300	ND	ND
CHLOROPHENYL-PHENYL ETHER 4-	1,300	ND	670	ND	1,300	ND	ND
CHRYSENE	1,300	2,700	670	310 J	1,300	290 J	450 J
DIBENZ(A,H)ANTHRACENE	1,300	160 J	670	ND	1,300	ND	ND
DIBENZOFURAN	1,300	ND	670	ND	1,300	ND	ND
DI-N-BUTYL PHTHALATE	1,300	ND	670	400 J	1,300	ND	130 J
DICHLOROBENZENE 1,2-	1,300	2,800	670	320 J	1,300	ND	150 J
DICHLOROBENZENE 1,3-	1,300	ND	670	ND	1,300	ND	ND
DICHLOROBENZENE 1,4-	1,300	ND	670	120 J	1,300	ND	ND
DICHLOROBENZIDINE 3,3'-	2,600	ND	1,300	ND	2,600	ND	ND
DIETHYL PHTHALATE	1,300	ND	670	ND	1,300	ND	ND
DIMETHYL PHTHALATE	1,300	ND	670	ND	1,300	ND	ND
DINITROTOLUENE 2,4-	1,300	ND	670	ND	1,300	ND	ND
DINITROTOLUENE 2,6-	1,300	ND	670	ND	1,300	ND	ND
DI-N-OCTYL PHTHALATE	1,300	ND	670	ND	1,300	ND	ND
FLUORANTHENE	1,300	2,200	670	390 J	1,300	530 J	490 J
FLUORENE	1,300	ND	670	73 J	1,300	ND	ND
HEXACHLOROBENZENE	1,300	ND	670	ND	1,300	ND	ND

Notes: ND - Not detected.
J - Estimated value.

TABLE 2
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TCL - SEMIVOLATILE ORGANICS	*Quantitation Limit (µg/kg)*	*Area 6 S-101392-RH-579 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 8 S-101392-RH-580 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 7 S-101392-RH-581 (µg/kg)*	*Area 9 S-101392-RH-582 (µg/kg)*
HEXACHLOROBUTADIENE	1,300	ND	670	ND	1,300	ND	ND
HEXACHLOROCYCLOPENTADIENE	1,300	ND	670	ND	1,300	ND	ND
HEXACHLOROETHANE	1,300	ND	670	ND	1,300	ND	ND
INDENO(1,2,3-CD)PYRENE	1,300	400 J	670	180 J	1,300	ND	170 J
ISOPHORONE	1,300	ND	670	ND	1,300	ND	ND
METHYL NAPHTHALENE 2-	1,300	ND	670	140 J	1,300	ND	ND
NAPTHALENE	1,300	ND	670	67 J	1,300	ND	ND
NITROBENZENE	1,300	ND	670	ND	1,300	ND	ND
NITROANILINE 2-	6,400	ND	3,400	ND	6,400	ND	ND
NITROANILINE 3-	6,400	ND	3,400	ND	6,400	ND	ND
NITROANILINE 4-	6,400	ND	3,400	ND	6,400	ND	ND
N-NITROSODIPHENYLAMINE	1,300	ND	670	ND	1,300	ND	ND
N-NITROSODI-N-PROPYLAMINE	1,300	ND	670	ND	1,300	ND	ND
PHENANTHRENE	1,300	670 J	670	170 J	1,300	190 J	130 J
PYRENE	1,300	1,500	670	230 J	1,300	280 J	360 J
TRICHLOROBENZENE 1,2,4-	1,300	ND	670	ND	1,300	ND	ND
CHLORO-3-METHYLPHENOL 4-	1,300	ND	670	ND	1,300	ND	ND
CHLOROPHENOL 2-	1,300	ND	670	ND	1,300	ND	ND
DICHLOROPHENOL 2,4-	1,300	ND	670	ND	1,300	ND	ND
DIMETHYLPHENOL 2,4-	1,300	ND	670	ND	1,300	ND	ND
DINITROPHENOL 2,4-	6,400	ND	3,400	ND	6,400	ND	ND
DINITRO-2-METHYLPHENOL 4,6-	6,400	ND	3,400	ND	6,400	ND	ND
METHYLPHENOL 2-	1,300	ND	670	ND	1,300	ND	ND
METHYLPHENOL 4-	1,300	ND	670	ND	1,300	ND	ND
NITROPHENOL 2-	1,300	ND	670	ND	1,300	ND	ND
NITROPHENOL 4-	6,400	ND	3,400	ND	6,400	ND	ND
PENTACHLOROPHENOL	6,400	ND	3,400	ND	6,400	ND	ND
PHENOL	1,300	ND	670	730	1,300	ND	ND
TRICHLOROPHENOL 2,4,5-	1,300	ND	670	ND	1,300	ND	ND
TRICHLOROPHENOL 2,4,6-	1,300	ND	670	ND	1,300	ND	ND

Notes: ND - Not detected.
J - Estimated value.

TABLE 2
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TCL - SEMIVOLATILE ORGANICS	*Quantitation Limit (µg/kg)*	*Area 10 S-101392-RH-583 (µg/kg)*	*Area 11 S-101392-RH-584 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 12 S-101392-RH-585 (µg/kg)*	*Quantitation Limit (µg/l)*	*Water L-101392-RH-586 (µg/l)*
ACENAPHTHENE	330	ND	40 J	670	93 J	10	ND
ACENAPHTHYLENE	330	ND	33 J	670	67 J	10	ND
ANTHRACENE	330	ND	ND	670	ND	10	ND
BENZO(A)ANTHRACENE	330	47 J	ND	670	ND	10	ND
BENZO(B)FLUORANTHENE	330	ND	43 J	670	100 J	10	ND
BENZO(K)FLUORANTHENE	330	ND	ND	670	ND	10	ND
BENZO(G,H,I)PERYLENE	330	ND	ND	670	ND	10	ND
BENZO(A)PYRENE	330	43 J	ND	670	ND	10	ND
BIS(2-CHLOROETHOXY)METHANE	330	ND	ND	670	ND	10	ND
BIS(2-CHLOROETHYL)ETHER	330	ND	ND	670	ND	10	ND
OXYBIS (1-CHLOROPROPANE) 2,2-	330	ND	ND	670	ND	10	ND
BIS(2-ETHYLHEXYL)PHTHALATE	330	ND	940	670	2,400	10	ND
BROMOPHENYL-PHENYL ETHER 4-	330	ND	40 J	670	ND	10	ND
BUTYLBENZYL PHTHALATE	330	ND	230 J	670	410 J	10	ND
CARBAZOLE	330	ND	ND	670	ND	10	ND
CHLOROANILINE 4-	330	ND	ND	670	ND	10	ND
CHLORONAPHTHALENE 2-	330	ND	ND	670	ND	10	ND
CHLOROPHENYL-PHENYL ETHER 4-	330	ND	ND	670	87 J	10	ND
CHRYSENE	330	66 J	ND	670	87 J	10	ND
DIBENZ(A,H)ANTHRACENE	330	ND	ND	670	ND	10	ND
DIBENZOFURAN	330	ND	43 J	670	93 J	10	ND
DI-N-BUTYL PHTHALATE	330	ND	77 J	670	73 J	10	ND
DICHLOROBENZENE 1,2-	330	ND	ND	670	510 J	10	ND
DICHLOROBENZENE 1,3-	330	ND	ND	670	ND	10	ND
DICHLOROBENZENE 1,4-	330	ND	ND	670	ND	10	ND
DICHLOROBENZIDINE 3,3'-	660	ND	ND	1,300	ND	20	ND
DIETHYL PHTHALATE	330	ND	33 J	670	67 J	10	ND
DIMETHYL PHTHALATE	330	ND	43 J	670	ND	10	ND
DINITROTOLUENE 2,4-	330	ND	ND	670	ND	10	ND
DINITROTOLUENE 2,6-	330	ND	ND	670	ND	10	ND
DI-N-OCTYL PHTHALATE	330	ND	ND	670	ND	10	ND
FLUORANTHENE	330	70 J	53 J	670	120 J	10	ND
FLUORENE	330	ND	43 J	670	80 J	10	ND
HEXACHLOROBENZENE	330	ND	ND	670	ND	10	ND

Notes: ND - Not detected.
J - Estimated value.

TABLE 2
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TCL - SEMIVOLATILE ORGANICS	*Quantitation Limit (µg/kg)*	*Area 10 S-101392-RH-583 (µg/kg)*	*Area 11 S-101392-RH-584 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 12 S-101392-RH-585 (µg/kg)*	*Quantitation Limit (µg/l)*	*Water L-101392-RH-586 (µg/l)*
HEXACHLOROBUTADIENE	330	ND	ND	670	ND	10	ND
HEXACHLOROCYCLOPENTADIENE	330	ND	ND	670	ND	10	ND
HEXACHLOROETHANE	330	ND	ND	670	ND	10	ND
INDENO(1,2,3-CD)PYRENE	330	ND	ND	670	ND	10	ND
ISOPHORONE	330	ND	ND	670	ND	10	ND
METHYL NAPHTHALENE 2-	330	ND	ND	670	67 J	10	ND
NAPTHALENE	330	ND	ND	670	ND	10	ND
NITROBENZENE	330	ND	ND	670	ND	10	ND
NITROANILINE 2-	1,600	ND	ND	3,400	ND	50	ND
NITROANILINE 3-	1,600	ND	ND	3,400	ND	50	ND
NITROANILINE 4-	1,600	ND	ND	3,400	ND	50	ND
N-NITROSODIPHENYLAMINE	330	ND	33 J	670	73 J	10	ND
N-NITROSODI-N-PROPYLAMINE	330	ND	ND	670	ND	10	ND
PHENANTHRENE	330	47 J	50 J	670	ND	10	ND
PYRENE	330	83 J	53 J	670	150 J	10	ND
TRICHLOROBENZENE 1,2,4-	330	ND	ND	670	ND	10	ND
CHLORO-3-METHYLPHENOL 4-	330	ND	ND	670	ND	10	ND
CHLOROPHENOL 2-	330	ND	ND	670	ND	10	ND
DICHLOROPHENOL 2,4-	330	ND	ND	670	ND	10	ND
DIMETHYLPHENOL 2,4-	330	ND	ND	670	ND	10	ND
DINITROPHENOL 2,4-	1,600	ND	ND	3,400	ND	50	ND
DINITRO-2-METHYLPHENOL 4,6-	1,600	ND	ND	3,400	ND	50	ND
METHYLPHENOL 2-	330	ND	ND	670	ND	10	ND
METHYLPHENOL 4-	330	ND	ND	670	ND	10	ND
NITROPHENOL 2-	330	ND	ND	670	ND	10	ND
NITROPHENOL 4-	1,600	ND	ND	3,400	ND	50	ND
PENTACHLOROPHENOL	1,600	ND	ND	3,400	ND	50	ND
PHENOL	330	ND	ND	670	ND	10	ND
TRICHLOROPHENOL 2,4,5-	330	ND	ND	670	ND	10	ND
TRICHLOROPHENOL 2,4,6-	330	ND	ND	670	ND	10	ND

Notes: ND - Not detected.
J - Estimated value.

TABLE 3
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TAL -INORGANICS	Quantitation Limit (mg/kg)	Area 3 S-101292-RH-573 (mg/kg)	Quantitation Limit (mg/kg)	Area 1 S-101292-RH-574 (mg/kg)	Quantitation Limit (mg/kg)	Area 2 S-101292-RH-575 (mg/kg)	Quantitation Limit (mg/kg)	Area 4 S-101392-RH-576 (mg/kg)	Quantitation Limit (mg/kg)	Area 13* S-101392-RH-577 (mg/kg)
SILVER	1.0	ND	1.0	ND	1.0	1.2	1.0	ND	1.0	ND
ALUMINUM	20	(4,800) J	20	6,500	20	(3,400) J	20	(7,800) J	20	(4,600) J
BARIUM	1.0	62	1.0	53	1.0	130	1.0	53	1.0	45
BERYLLIUM	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND
CALCIUM	500	46,000	500	7,200	500	65,000	500	65,000	500	90,000
CADMIUM	1.0	5.3	1.0	ND	1.0	9.3	1.0	ND	1.0	ND
COBALT	5.0	ND	5.0	ND	5.0	5.3	5.0	ND	5.0	5.8
CHROMIUM	2.0	38	2.0	19	2.0	64	2.0	47	2.0	20
COPPER	1.0	21	1.0	19	1.0	58	1.0	27	1.0	20
IRON	5.0	27,000	5.0	21,000	5.0	18,000	5.0	17,000	5.0	20,000
POTASSIUM	500	780	500	2,000	500	730	500	1,200	500	850
MAGNESIUM	500	3,800	500	1,700	500	9,900	500	4,200	500	35,000
MANGANESE	1.0	(370) J	1.0	240	1.0	(330) J	1.0	(210) J	1.0	(650) J
SODIUM	500	ND	500	ND	500	ND	500	ND	500	ND
NICKEL	4.0	12	4.0	12	4.0	14	4.0	9.9	4.0	16
ANTIMONY	12	(ND) J	12	ND	12	(ND) J	12	(ND) J	12	(ND) J
VANADIUM	5.0	29	5.0	32	5.0	13	5.0	110	5.0	28
ZINC	4.0	82	4.0	53	4.0	170	4.0	56	4.0	120
ARSENIC	1.0	6.8	4.0	8.8	2.0	11	1.0	9.5	2.0	8.7
LEAD	12	66	12	26	60	1,100	12	75	12	110
MERCURY	0.1	0.4	0.1	0.1	0.1	1.9	0.1	0.3	0.1	0.4
SELEMIUM	0.5	(0.5) J	0.5	ND	4.0	16	0.5	(ND) J	0.5	(ND) J
THALLIUM	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND
CYANIDE	0.25	0.36	0.25	0.48	0.25	0.45	0.25	ND	0.25	0.4

Notes: ND - Not detected.
*Duplicate of Area 4 sample.
J - Estimated value

TABLE 3
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TAL -INORGANICS	*Quantitation Limit (mg/kg)*	*Area 5 S-101392-RH-578 (mg/kg)*	*Quantitation Limit (mg/kg)*	*Area 6 S-101392-RH-579 (mg/kg)*	*Quantitation Limit (mg/kg)*	*Area 8 S-101392-RH-580 (mg/kg)*	*Quantitation Limit (mg/kg)*	*Area 7 S-101392-RH-581 (mg/kg)*	*Quantitation Limit (mg/kg)*	*Area 9 S-101392-RH-582 (mg/kg)*
SILVER	1.0	17	1.0	ND	1.0	ND	1.0	ND	1.0	ND
ALUMINUM	20	(6,800) J	20	(6,300) J	20	(5,700) J	20	(3,800) J	20	(6,000) J
BARIUM	1.0	170	1.0	62	1.0	88	1.0	69	1.0	92
BERYLLIUM	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND
CALCIUM	500	38,000	500	40,000	500	25,000	500	57,000	500	64,000
CADMIUM	1.0	2.1	1.0	ND	1.0	ND	1.0	1.2	1.0	ND
COBALT	5.0	ND	5.0	5.4	5.0	5.4	5.0	ND	5.0	ND
CHROMIUM	2.0	130	2.0	28	2.0	43	2.0	37	2.0	69
COPPER	1.0	59	1.0	23	1.0	34	1.0	42	1.0	26
IRON	5.0	36,000	5.0	29,000	5.0	20,000	5.0	19,000	5.0	22,000
POTASSIUM	500	1,100	500	1,300	500	920	500	780	500	1,100
MAGNESIUM	500	5,300	500	2,500	500	2,600	500	8,500	500	4,100
MANGANESE	1.0	(250) J	1.0	(210) J	1.0	(230) J	1.0	(320) J	1.0	(260) J
SODIUM	500	ND	500	ND	500	ND	500	ND	500	ND
NICKEL	4.0	14	4.0	13	4.0	14	4.0	9.3	4.0	10
ANTIMONY	12	(ND) J	12	(ND) J	12	(ND) J	12	(ND) J	12	(ND) J
VANADIUM	5.0	39	5.0	24	5.0	30	5.0	40	5.0	24
ZINC	4.0	170	4.0	63	4.0	98	4.0	140	4.0	92
ARSENIC	2.0	19	4.0	17	2.0	7.4	1.0	7.5	2.0	12
LEAD	30	520	12	44	12	75	12	130	12	180
MERCURY	1.0	10	0.1	0.4	0.1	0.8	0.1	0.7	0.1	0.4
SELEMIUM	1.0	10	0.5	ND	0.5	ND	0.5	(ND) J	0.5	2.1
THALLIUM	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND
CYANIDE	1.0	3.7	0.25	0.4	0.25	ND	0.25	0.38	0.25	0.41

Notes: ND - Not detected.
J - Estimated value

TABLE 3
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TAL -INORGANICS	*Quantitation Limit (mg/kg)*	*Area 10 S-101392-RH-583 (mg/kg)*	*Quantitation Limit (mg/kg)*	*Area 11 S-101392-RH-584 (mg/kg)*	*Quantitation Limit (mg/kg)*	*Area 12 S-101392-RH-585 (mg/kg)*	*Quantitation Limit (mg/l)*	*Water S-101392-RH-586 (mg/l)*
SILVER	1.0	ND	1.0	1.0	1.0	1.1	0.01	ND
ALUMINUM	20	(8,100) J	20	(8,700) J	20	(6,800) J	0.2	ND
BARIUM	1.0	52	1.0	68	1.0	69	0.01	ND
BERYLLIUM	0.5	ND	0.5	0.5	0.5	ND	0.005	ND
CALCIUM	500	17,000	500	34,000	500	16,000	5.0	ND
CADMIUM	1.0	ND	1.0	ND	1.0	ND	0.01	ND
COBALT	5.0	6.7	5.0	12	5.0	ND	0.05	ND
CHROMIUM	2.0	17	2.0	22	2.0	220	0.02	ND
COPPER	1.0	16	1.0	19	1.0	35	0.01	ND
IRON	5.0	19,000	5.0	18,000	5.0	28,000	0.05	0.06
POTASSIUM	500	990	500	680	500	1,100	5.0	ND
MAGNESIUM	500	5,800	500	17,000	500	1,600	5.0	ND
MANGANESE	1.0	(370) J	1.0	(730) J	1.0	(190) J	0.01	ND
SODIUM	500	ND	500	ND	500	ND	5.0	ND
NICKEL	4.0	16	4.0	17	4.0	11	0.04	ND
ANTIMONY	12	(ND) J	12	(ND) J	12	(ND) J	0.3	ND
VANADIUM	5.0	23	5.0	18	5.0	38	0.05	ND
ZINC	4.0	62	4.0	68	4.0	80	0.05	ND
ARSENIC	5.0	33	4.0	6.0	2.0	12	0.005	ND
LEAD	12	31	12	48	6.0	120	0.003	ND
MERCURY	0.1	0.3	0.1	0.2	0.1	1.7	0.0002	ND
SELEMIUM	0.5	ND	0.5	1.2	0.5	(1.9) J	0.005	ND
THALLIUM	1.0	ND	1.0	ND	1.0	ND	0.01	ND
CYANIDE	0.25	ND	0.25	0.47	0.25	0.39	0.005	ND

Notes: ND - Not detected.
J - Estimated value

TABLE 4
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TCL - PESTICIDES	*Quantitation Limit (µg/kg)*	*Area 3 S-101292-RH-573 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 1 S-101292-RH-574 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 2 S-101292-RH-575 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 4 S-101392-RH-576 (µg/kg)*
ALPHA-BHC	83	ND	33	ND	83	ND	33	ND
BETA-BHC	83	ND	33	ND	83	ND	33	ND
DELTA-BHC	83	ND	33	ND	83	ND	33	ND
GAMMA-BHC	83	ND	33	ND	83	ND	33	ND
HEPTACHLOR	83	ND	33	ND	83	ND	33	ND
ALDRIN	83	ND	33	ND	83	ND	33	ND
HEPTACHLOR EPOXIDE	83	ND	33	ND	83	ND	33	ND
ENDOSULFAN I	83	ND	33	ND	83	ND	33	ND
DIELDRIN	230	ND	200	ND	170	ND	67	ND
DDE 4,4'-	170	ND	67	ND	170	ND	67	ND
ENDRIN	170	ND	67	ND	170	ND	67	ND
ENDOSULFAN II	170	ND	67	ND	170	ND	67	ND
DDD 4,4'-	170	ND	67	77	170	ND	67	130
ENDOSULFAN SULFATE	170	ND	67	ND	170	ND	67	ND
DDT 4,4'-	170	370	67	250	170	500	67	110
METHOXYCHLOR	830	ND	330	ND	830	ND	330	ND
ENDRIN KETONE	170	ND	67	ND	170	ND	67	ND
ENDRIN ALDEHYDE	170	ND	67	ND	170	ND	67	ND
ALPHA-CHLORDANE	830	ND	330	ND	830	ND	330	ND
GAMMA-CHLORDANE	830	ND	330	ND	830	ND	330	ND
TOXAPHENE	4,000	ND	1,700	ND	4,000	ND	1,700	ND
TCL - PCBs								
AROCLOR-1016	830	ND	330	ND	830	ND	330	ND
AROCLOR-1221	830	ND	330	ND	830	ND	330	ND
AROCLOR-1232	830	ND	330	ND	830	ND	330	ND
AROCLOR-1242	830	ND	330	ND	830	ND	330	ND
AROCLOR-1248	830	ND	330	ND	830	ND	330	ND
AROCLOR-1254	1,700	ND	670	ND	1,700	ND	670	ND
AROCLOR-1260	1,700	ND	670	ND	1,700	ND	670	ND

Notes: ND - Not detected.

TABLE 4
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TCL - PESTICIDES	*Quantitation Limit (µg/kg)*	*Area 13* S-101392-RH-577 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 5 S-101392-RH-578 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 6 S-101392-RH-579 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 8 S-101392-RH-580 (µg/kg)*
ALPHA-BHC	83	ND	170	ND	330	ND	83	ND
BETA-BHC	83	ND	170	ND	330	ND	83	ND
DELTA-BHC	83	ND	170	ND	330	ND	83	ND
GAMMA-BHC	83	ND	170	ND	330	ND	83	ND
HEPTACHLOR	83	ND	170	ND	330	ND	83	ND
ALDRIN	83	ND	170	ND	330	ND	83	ND
HEPTACHLOR EPOXIDE	83	ND	170	ND	330	ND	83	ND
ENDOSULFAN I	83	ND	170	ND	330	ND	83	ND
DIELDRIN	170	ND	170	ND	670	ND	170	ND
DDE 4,4'-	170	ND	330	ND	670	ND	170	ND
ENDRIN	170	ND	330	ND	670	ND	170	ND
ENDOSULFAN II	170	ND	330	ND	670	ND	170	ND
DDD 4,4'-	170	220	330	1,300	670	3,500	170	1,600
ENDOSULFAN SULFATE	170	ND	330	ND	670	ND	170	ND
DDT 4,4'-	170	450	330	2,500	670	6,900	170	2,700
METHOXYCHLOR	830	ND	1,700	ND	3,300	ND	830	ND
ENDRIN KETONE	170	ND	330	ND	670	ND	170	ND
ENDRIN ALDEHYDE	170	ND	330	ND	670	ND	170	ND
ALPHA-CHLORDANE	830	ND	1,700	ND	3,300	ND	830	ND
GAMMA-CHLORDANE	830	ND	1,700	ND	3,300	ND	830	ND
TOXAPHENE	4,200	ND	8,300	ND	17,000	ND	830	ND
TCL - PCBs								
AROCLOR-1016	830	ND	1,700	ND	3,300	ND	830	ND
AROCLOR-1221	830	ND	1,700	ND	3,300	ND	830	ND
AROCLOR-1232	830	ND	1,700	ND	3,300	ND	830	ND
AROCLOR-1242	830	ND	1,700	ND	3,300	ND	830	ND
AROCLOR-1248	830	ND	1,700	ND	3,300	ND	830	ND
AROCLOR-1254	1,700	ND	3,300	ND	6,700	ND	1,700	ND
AROCLOR-1260	1,700	ND	3,300	ND	6,700	ND	1,700	ND

Notes: ND - Not detected.
*Duplicate of Area 4 sample.

TABLE 4
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TCL - PESTICIDES	*Quantitation Limit (µg/kg)*	*Area 7 S-101392-RH-581 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 9 S-101392-RH-582 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 10 S-101392-RH-583 (µg/kg)*	*Quantitation Limit (µg/kg)*	*Area 11 S-101392-RH-584 (µg/kg)*
ALPHA-BHC	170	ND	330	ND	83	ND	83	ND
BETA-BHC	170	ND	330	ND	83	ND	83	ND
DELTA-BHC	170	ND	330	ND	83	ND	83	ND
GAMMA-BHC	170	ND	330	ND	83	ND	83	ND
HEPTACHLOR	170	ND	330	ND	83	ND	83	ND
ALDRIN	170	ND	330	ND	83	ND	83	ND
HEPTACHLOR EPOXIDE	170	ND	330	ND	83	ND	83	ND
ENDOSULFAN I	170	ND	330	ND	83	ND	83	ND
DIELDRIN	420	ND	660	ND	170	ND	170	ND
DDE 4,4'-	330	ND	660	ND	170	ND	170	ND
ENDRIN	330	ND	660	ND	170	ND	170	ND
ENDOSULFAN II	330	ND	660	ND	170	ND	170	ND
DDD 4,4'-	330	520	660	3,700	170	2,100	170	330
ENDOSULFAN SULFATE	330	ND	660	ND	170	ND	170	ND
DDT 4,4'-	330	1,300	660	8,200	170	1,200	170	660
METHOXYCHLOR	1,700	ND	3,300	ND	830	ND	830	ND
ENDRIN KETONE	330	ND	660	ND	170	ND	170	ND
ENDRIN ALDEHYDE	330	ND	660	ND	170	ND	170	ND
ALPHA-CHLORDANE	1,700	ND	3,300	ND	830	ND	830	ND
GAMMA-CHLORDANE	1,700	ND	3,300	ND	830	ND	830	ND
TOXAPHENE	8,300	ND	6,600	ND	4,000	ND	4,200	ND
TCL - PCBs								
AROCLOR-1016	1,700	ND	3,300	ND	830	ND	830	ND
AROCLOR-1221	1,700	ND	3,300	ND	830	ND	830	ND
AROCLOR-1232	1,700	ND	3,300	ND	830	ND	830	ND
AROCLOR-1242	1,700	ND	3,300	ND	830	ND	830	ND
AROCLOR-1248	1,700	ND	3,300	ND	830	ND	830	ND
AROCLOR-1254	3,300	ND	6,600	ND	1,700	ND	1,700	ND
AROCLOR-1260	3,300	ND	6,600	ND	1,700	ND	1,700	ND

Notes: ND - Not detected.

TABLE 4
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TCL - PESTICIDES	*Quantitation Limit (µg/kg)*	*Area 12 S-101392-RH-585 (µg/kg)*	*Quantitation Limit (µg/l)*	*Water L-101392-RH-586 (µg/l)*
ALPHA-BHC	170	ND	0.05	ND
BETA-BHC	170	ND	0.05	ND
DELTA-BHC	170	ND	0.05	ND
GAMMA-BHC	170	ND	0.05	ND
HEPTACHLOR	170	ND	0.05	ND
ALDRIN	170	ND	0.05	ND
HEPTACHLOR EPOXIDE	170	ND	0.05	ND
ENDOSULFAN I	170	ND	0.05	ND
DIELDRIN	330	ND	0.1	ND
DDE 4,4'-	330	ND	0.1	ND
ENDRIN	330	ND	0.1	ND
ENDOSULFAN II	330	ND	0.1	ND
DDD 4,4'-	330	2,400	0.1	ND
ENDOSULFAN SULFATE	330	ND	0.1	ND
DDT 4,4'-	330	2,500	0.1	ND
METHOXYCHLOR	1,700	ND	0.5	ND
ENDRIN KETONE	330	ND	0.1	ND
ENDRIN ALDEHYDE	330	ND	0.1	ND
ALPHA-CHLORDANE	1,700	ND	0.5	ND
GAMMA-CHLORDANE	1,700	ND	0.5	ND
TOXAPHENE	8,300	ND	1	ND
TCL - PCBs				
AROCLOR-1016	1,700	ND	0.5	ND
AROCLOR-1221	1,700	ND	0.5	ND
AROCLOR-1232	1,700	ND	0.5	ND
AROCLOR-1242	1,700	ND	0.5	ND
AROCLOR-1248	1,700	ND	0.5	ND
AROCLOR-1254	3,300	ND	1	ND
AROCLOR-1260	3,300	ND	1	ND

Notes: ND - Not detected.

TABLE 5
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

ADDITIONAL PARAMETERS	*Quantitation Limit*	*Area 3 S-101292-RH-573*	*Area 1 S-101292-RH-574*	*Quantitation Limit*	*Area 2 S-101292-RH-575*	*Quantitation Limit*	*Area 4 S-101392-RH-576*
TOTAL ORGANIC CARBON (mg/kg)	50	7,700	2,500	50	8,300	50	5,200
CHLORIDE (mg/kg)	40	ND	51	40	ND	40	46
BTU VALUE (BTU/lb)	1,000	ND	ND	1,000	ND	1,000	ND
ASH CONTENT (%)	0.5	96	97	0.5	95	0.5	96
SPECIFIC GRAVITY	-	0.85	1.45	-	1.27	-	1.56
TOTAL SOLIDS (%)	0.5	90	84	0.5	85	0.5	80
PHOSPHOROUS (mg/kg)	10	ND	14	500	1,600	20	31
TOTAL CHLORIDES (%)	0.01	0.02	0.02	0.01	0.03	0.01	0.03
TOTAL FLUORIDES (%)	0.001	0.006	0.009	0.001	0.011	0.001	0.006
TOTAL CARBON (%)	0.01	3.0	1.1	0.01	2.4	0.01	2.4
SULFUR (%)	0.01	0.8	1.0	0.01	2.5	0.01	3.2
NITRATE OXIDE (%)	0.001	0.004	0.003	0.001	0.003	0.001	0.002
INERT ASH (%)	0.01	76.4	81.0	0.01	72.4	0.01	59.9

Notes: ND - Not detected.

TABLE 5
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

ADDITIONAL PARAMETERS	*Quantitation Limit*	*Area 13** *S-101392-RH-577*	*Area 5* *S-101392-RH-578*	*Quantitation Limit*	*Area 6* *S-101392-RH-579*	*Quantitation Limit*	*Area 8* *S-101392-RH-580*
TOTAL ORGANIC CARBON (mg/kg)	50	2,500	16,000	50	6,400	50	12,000
CHLORIDE (mg/kg)	40	62	ND	40	ND	40	47
BTU VALUE (BTU/lb)	1,000	ND	ND	1,000	ND	1,000	ND
ASH CONTENT (%)	0.5	91	88	0.5	95	0.5	95
SPECIFIC GRAVITY	-	1.67	1.18	-	1.19	-	1.40
TOTAL SOLIDS (%)	0.5	82	82	0.5	79	0.5	81
PHOSPHOROUS (mg/kg)	100	110	150	50	190	200	240
TOTAL CHLORIDES (%)	0.01	0.03	0.02	0.01	0.03	0.01	0.02
TOTAL FLUORIDES (%)	0.001	0.006	0.004	0.001	0.004	0.001	0.003
TOTAL CARBON (%)	0.01	4.2	3.4	0.01	3.0	0.01	2.9
SULFUR (%)	0.01	2.5	2.4	0.01	2.7	0.01	2.3
NITRATE OXIDE (%)	0.001	0.002	0.002	0.001	0.002	0.001	0.002
INERT ASH (%)	0.01	65.4	66.1	0.01	69.8	0.01	70.6

Notes: ND - Not detected.
*Duplicate of Area 4 sample.

TABLE 5
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

ADDITIONAL PARAMETERS	*Quantitation Limit*	*Area 7 S-101392-RH-581*	*Quantitation Limit*	*Area 9 S-101392-RH-582*	*Quantitation Limit*	*Area 10 S-101392-RH-583*	*Quantitation Limit*	*Area 11 S-101392-RH-584*
TOTAL ORGANIC CARBON (mg/kg)	50	5,600	50	6,900	50	3,400	50	6,800
CHLORIDE (mg/kg)	40	ND	40	ND	40	ND	40	ND
BTU VALUE (BTU/lb)	1,000	ND	1,000	ND	1,000	ND	1,000	ND
ASH CONTENT (%)	0.5	90	0.5	93	0.5	93	0.5	92
SPECIFIC GRAVITY	-	1.48	-	1.35	-	1.56	-	1.58
TOTAL SOLIDS (%)	0.5	85	0.5	86	0.5	81	0.5	86
PHOSPHOROUS (mg/kg)	50	73	500	1,000	100	140	200	410
TOTAL CHLORIDES (%)	0.01	0.03	0.01	0.02	0.01	0.02	0.01	0.02
TOTAL FLUORIDES (%)	0.001	0.010	0.001	0.011	0.001	0.002	0.001	0.005
TOTAL CARBON (%)	0.01	3.7	0.01	3.1	0.01	1.8	0.01	1.3
SULFUR (%)	0.01	1.1	0.01	2.7	0.01	3.1	0.01	1.1
NITRATE OXIDE (%)	0.001	0.002	0.001	0.002	0.001	0.002	0.001	0.002
INERT ASH (%)	0.01	72.2	0.01	68.2	0.01	79.8	0.01	79.1

Notes: ND - Not detected.

TABLE 5
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

ADDITIONAL PARAMETERS	*Quantitation Limit*	*Area 12 S-101392-RH-585*	*Quantitation Limit*	*Sulfur Area - South S-101392-RH-588*	*Sulfur Area - Central S-101392-RH-589*	*Sulfur Area - North S-101392-RH-585*
TOTAL ORGANIC CARBON (mg/kg)	50	7,100	NA	NA	NA	NA
CHLORIDE (mg/kg)	40	140	NA	NA	NA	NA
BTU VALUE (BTU/lb)	1,000	ND	NA	NA	NA	NA
ASH CONTENT (%)	0.5	96	NA	NA	NA	NA
SPECIFIC GRAVITY	-	1.38	NA	NA	NA	NA
TOTAL SOLIDS (%)	0.5	77	0.5	74	72	71
PHOSPHOROUS (mg/kg)	200	450	NA	NA	NA	NA
TOTAL CHLORIDES (%)	0.01	0.03	NA	NA	NA	NA
TOTAL FLUORIDES (%)	0.001	0.002	NA	NA	NA	NA
TOTAL CARBON (%)	0.01	3.4	NA	NA	NA	NA
SULFUR (%)	0.01	3.3	0.01	25.9	26.9	5.7
NITRATE OXIDE (%)	0.001	0.002	NA	NA	NA	NA
INERT ASH (%)	0.01	67.6	NA	NA	NA	NA

Notes: ND - Not detected.
NA - Not analyzed.

TABLE 6
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

	TOXICITY EQUIVALENT FACTORS	*INCINERATOR AND STACK AREAS S-101392-RH-587* (ppt)	*TOXICITY EQUIVALENT CONCENTRATION* (ppt)
FURANS			
TCDFs (total)	0.001	(550.3 Q) J	0.5503
2,3,7,8 - TCDF	0.100	26.7	2.67
PeCDFs (total)	0.001	(327.4 Q) J	0.3274
1,2,3,7,8 - PeCDF	0.100	40.2	4.02
2,3,4,7,8 - PeCDF	0.100	36.4	3.64
HxCDFs (total)	0.0001	192.1	0.01921
1,2,3,4,7,8 - HxCDF	0.010	164	1.64
1,2,3,6,7,8 - HxCDF	0.010	40.5	0.405
2,3,4,6,7,8 - HxCDF	0.010	40.6	0.406
1,2,3,7,8,9 - HxCDF	0.010	(4.8 PR) J	0.048
HpCDFs (total)	0.00001	147.1	0.001471
1,2,3,4,6,7,8 - HpCDF	0.001	217	0.217
1,2,3,4,7,8,9 - HpCDF	0.001	41.9	0.0419
OCDF	0	722 B	0
DIOXINS			
TCDDs (total)	0.010	81.8	0.818
2,3,7,8 - TCDD	1.000	3.0	3.0
PeCDDs (total)	0.005	(104.3 Q) J	0.5215
1,2,3,7,8 - PeCDD	0.500	6.7	3.35
HxCDDs (total)	0.0004	129.4	0.05176
1,2,3,4,7,8 - HxCDD	0.040	EMPC (8.8)	0.352
1,2,3,6,7,8 - HxCDD	0.040	13.5	0.540
1,2,3,7,8,9 - HxCDD	0.040	(17.3 PR) J	0.692
HpCDDs (total)	0.00001	140	0.0014
1,2,3,4,6,7,8 - HpCDD	0.001	140 B	0.140
OCDD	0	792 B	0
TOTAL			23.45 ppt

Note:
J - estimated value
ppt - parts per trillion.
B - analyte found in laboratory blank
PR - poorly resolved GC peaks
Q - quantitative interferences associated with detected analyte
EMPC - estimated maximum posssible concentration

TABLE 7
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TENTATIVELY IDENTIFIED COMPOUNDS	Area 3 S-101292-RH-573 (µg/kg)	Area 1 S-101292-RH-574 (µg/kg)	Area 2 S-101292-RH-575 (µg/kg)	Area 4 S-101392-RH-576 (µg/kg)	Area 13* S-101392-RH-577 (µg/kg)	Area 5 S-101392-RH-578 (µg/kg)	Area 6 S-101392-RH-579 (µg/kg)
VOLATILE ORGANICS							
UNKNOWN HYDROCARBON	5	—	—	—	—	—	—
UNKNOWN HYDROCARBON	6	—	—	—	—	—	—
UNKNOWN HYDROCARBON	15	—	—	—	—	—	—
UNKNOWN HYDROCARBON	11	—	—	—	—	—	—
UNKNOWN	14	—	—	—	—	—	—
PROPYLBENZENE	—	—	—	—	—	—	—
TRIMETHYLBENZENE ISOMER	—	—	—	—	—	—	—
ETHYLMETHYLBENZENE ISOMER	—	—	—	—	—	—	—
TRIMETHYLBENZENE ISOMER	—	—	—	—	—	—	—
SEMIVOLATILE ORGANICS							
UNKNOWN	470	4,800	570	2,000	2,900	2,400	1,400
UNKNOWN	560	3,400	330	—	3,300	1,900	—
UNKNOWN	260	480	600	—	—	1,800	—
UNKNOWN	540	800	520	—	—	—	—
UNKNOWN	240	750	—	—	—	—	—
UNKNOWN	640	960	—	—	—	—	—
UNKNOWN	1,000	—	—	—	—	—	—
UNKNOWN HYDROCARBON	290	510	390	—	—	1,700	830
UNKNOWN HYDROCARBON	—	—	—	—	—	2,100	—
SULFUR, MOLECULAR	18,000	—	2,000	19,000	—	51,000	77,000
UNKNOWN ESTER	540	3,400	7,700	13,000	—	—	—
CHLORO-BENZOIC ACID ISOMER	—	2,200	—	—	—	—	—
UNKNOWN ACID	—	480	640	—	—	—	—
1H - INDENE	—	—	—	1,600	3,300	—	—
UNKNOWN PAH	—	—	—	2,000	3,200	—	1,200
UNKNOWN PAH	—	—	—	2,300	2,200	—	—
UNKNOWN PAH	—	—	—	1,900	3,100	—	—
UNKNOWN PAH	—	—	—	1,900	4,500	—	—
UNKNOWN PAH	—	—	—	2,200	3,300	—	—
UNKNOWN PAH	—	—	—	6,300	2,900	—	—
UNKNOWN PAH	—	—	—	—	7,300	—	—
UNKNOWN PESTICIDE	—	—	—	—	—	810	2,500
UNKNOWN PESTICIDE	—	—	—	—	—	1,100	770
UNKNOWN PESTICIDE	—	—	—	—	—	—	—
N,N-DIETHYL-BENZENAMINE	—	—	—	—	—	—	—

Notes: ND - None detected.
— - Not identified in this sample.
*Duplicate of Area 4 sample.

TABLE 7
CHARACTERIZATION SAMPLE RESULTS
PRISTINE INC.

TENTATIVELY IDENTIFIED COMPOUNDS	*Area 8* *S-101392-RH-580* *(µg/kg)*	*Area 7* *S-101392-RH-581* *(µg/kg)*	*Area 9* *S-101392-RH-582* *(µg/kg)*	*Area 10* *S-101392-RH-583* *(µg/kg)*	*Area 11* *S-101392-RH-584* *(µg/kg)*	*Area 12* *S-101392-RH-585* *(µg/kg)*
VOLATILE ORGANICS						
UNKNOWN HYDROCARBON	—	—	—	—	—	7
UNKNOWN HYDROCARBON	—	—	—	—	—	—
UNKNOWN HYDROCARBON	—	—	—	—	—	—
UNKNOWN HYDROCARBON	—	—	—	—	—	—
UNKNOWN	—	—	—	—	—	—
PROPYLBENZENE	—	—	—	—	—	12
TRIMETHYLBENZENE ISOMER	—	—	—	—	—	140
ETHYLMETHYLBENZENE ISOMER	—	—	—	—	—	58
TRIMETHYLBENZENE ISOMER	—	—	—	—	—	66
SEMIVOLATILE ORGANICS						
UNKNOWN	28,000	—	1,100	300	1,500	550
UNKNOWN	5,600	—	600	1,100	760	1,400
UNKNOWN	1,300	—	—	160	—	1,900
UNKNOWN	70,000	—	—	—	—	1,600
UNKNOWN	2,900	—	—	—	—	1,000
UNKNOWN	4,400	—	—	—	—	1,100
UNKNOWN	—	—	—	—	—	1,100
UNKNOWN HYDROCARBON	—	—	—	160	1,300	—
UNKNOWN HYDROCARBON	—	—	—	—	—	—
SULFUR, MOLECULAR	22,000	130,000	77,000	4,800	1,400	7,900
UNKNOWN ESTER	7,200	7,700	3,100	3,300	11,000	13,000
CHLORO-BENZOIC ACID ISOMER	—	—	—	—	—	—
UNKNOWN ACID	—	—	—	—	—	—
IH - INDENE	—	—	—	—	—	—
UNKNOWN PAH	—	—	—	—	—	—
UNKNOWN PAH	—	—	—	—	—	—
UNKNOWN PAH	—	—	—	—	—	—
UNKNOWN PAH	—	—	—	—	—	—
UNKNOWN PAH	—	—	—	—	—	—
UNKNOWN PAH	—	—	—	—	—	—
UNKNOWN PAH	—	—	—	—	—	—
UNKNOWN PESTICIDE	2,500	—	7,900	1,200	1,300	—
UNKNOWN PESTICIDE	4,000	—	5,600	150	380	—
UNKNOWN PESTICIDE	—	—	—	490	360	—
N,N-DIETHYL-BENZENAMINE	—	—	—	—	—	1,400

Notes: ND - None detected.
—— - Not identified in this sample.

APPENDIX D

SURFACE IMPOUNDMENT DISCHARGE DOCUMENTATION

POND DISPOSAL

CHEMICAL WASTES

BLDGS.	
I.	THE BLDG. 1 SCRUBBER SYSTEM DISCHARGES TO THE PIT. THIS SCRUBBER USES WATER TO CONDENSE AND SCRUB OUT THE ANTIOXIDANT FUMES AND VAPORS. THESE CONSIST OF SULFURIC ACID, MYRISTAI LAUYL, AND STERYL ALCOHOL. DURING NITRILE OIL PRODUCTION, ACRYLONITRILE VAPOR AND POSS-IBLE H_2S VAPORS ARE SCRUBBED OUT. THE SULCHLOR OPERATION WILL VENT SUCH THINGS AS CHLO-RINE, SULFUR, AND SOME SOLIDS FROM THE BLOWING OF SULCHLORS; ALSO AMINE OPERATIONS VENT TO THIS SCRUBBER. A SEPARATE DRAIN UNDER REACTOR 14 IS USED FOR THE DISCHARGE OF THE SUI FURIC ACID LAYER FROM ANTIOXIDANT PRODUCTION. THE SAME DRAIN IS ALSO USED FOR SOME WASTI STREAMS DURING PRODUCTION OF PHOSPHONIUM SALTS.
II.	NO SPECIFIC DISCHARGE TO THE POND, HOWEVER, A PUMP AND LINE FROM THE FLOOR TRENCHES IN BLDG. 2 WAS INSTALLED TO DISCHARGE WASTE WATERS DURING DBDS OPERATIONS. SINCE THIS PR DUCT HAS BEEN ELIMINATED, THERE IS ONLY INTERMITTENT USE UNDER SPECIAL CIRCUMSTANCES. NO EXAMPLES CAN BE GIVEN AT THIS TIME. NOTE: CAUSTIC BOILS FROM K-21 & 22 ARE DRAINED DIRECTLY TO THE SANITARY SEWER.
III.	DISCHARGES FROM C-700 CENTRIFUGE IS THE LARGEST VOLUME GOING TO THE DOLIMITE PITS. IT CONSISTS OF ABOUT 17% HCL AND SODIUM BICARBONATE WASHES, WHICH ARE ALSO INTRODUCED TO TH CENTRIFUGE. THE FUMES FROM THE BENZOTRICHLORIDE VENT SCRUBBER IS ALSO DISCHARGED TO THE PIT DURING THE PRODUCTION OF THE C-700 I.
	REACTOR CLEAN OUTS ARE SOMETIMES DISCHARGED TO THE POND, ie A TYPICAL EXAMPLE IS SODA A BOILS FROM REACTOR K-31 AFTER DBTDCL MANUFACTURE. ALSO, A PUMP AND LINE FROM REACTOR K-303 IS USED ON SPECIAL CLEAN OUTS.
II. A & IV.	NO DISCHARGES TO THE POND
V.	THE BLDG. 5 CENTRIFUGE (C-700 WET) IS DISCHARGED TO THE POND. THIS WASTE STREAM CONSI OF IPA AND BENZOPHENONES. THIS SAME DRAIN CONNECTS TO THE BLDG. 5 SOLUBLE BASE DRUMMI STATION. THE WASTE STREAM CONSIST OF RET 750, SHELL SULFONATE, CAUSTIC, B-11-T, AND 9 031.
VI.	SULFURIC ACID RESIDUES FROM THE (MDAC PROCESS) ARE DISCHARGED TO THE PIT. THERE MAY BE SOME WASTE DISCHARGED FROM THE PIT FROM METHANOL RECOVERY.

DRAINS FROM THE WEST TANK ~~POND~~ Farm ARE DIRECTED TO THE POND. TRACE AMOUNTS OF ALL RAW MATERIA PRODUCTS STORED IN THIS AREA WILL DRAIN THERE FROM ANY LEAKS, SPILLAGES, AND ETC.

Attachment to February 22, 1983 correspondence from J.A. Mazzei, Thiokol, to T.M. Ontko, OEPA.

CINCINNATI MILACRON

File

CUT

Memo

To	R. Witman	From	Robert J. Neubert
cc:	C. Adams M. Haskell W. Eckerson	Location	Plant Engineering
		Date	March 29, 1979
		Subject	[redacted]

A survey of all discharges to the existing acid pond has been completed.

The following summarizes discharge sources and estimated quantities based on batch formulations and 1979 sales forecast.

DISCHARGE SOURCES

ITEM #I	Bldg. 1 discharges washes from Nitrile Oils and Antioxidants. Scrubber effulent contains fumes from Nitrile Oils, Antioxidants, Sulchlor Oils and Pave Bond products. Traces of Nitrile Oils and Antioxidants do go to the pond.
ITEM #II	Bldg. 2 discharge line to the pond has been plugged and valved out.
ITEM #III	Bldg. 3 discharges reaction effluent from C700 only. Traces of C700 do go to the pond.
ITEM #IV	Bldg. 3A has two lines going to the pond; but it is not used.
ITEM #V	Bldg. 5 discharges floor washings from the C700 centrifuge and spills from the soluble base drumming station. Trace amounts of IPA containing Benzophenons, soluble oils and 45% Caustic Pot Ash do go to the pond.
ITEM #VI	Bldg. 6 discharges washes from BMU manufacture and MDAC Methanol Refining. Trace amounts of BMU and MDAC do go to the pond. Accidental discharges of phosphenes, C700, cellubrites, and tin compounds are possible as all kettles in the building are connected to the pond.
ITEM #VII	Condensate overflow from west tank farm.
ITEM #VIII	Drainage from the west tank farm and tank dikes is directed to the pond.

ESTIMATED DISCHARGES TO THE ACID POND BASED ON 1979 SALE FORECAST

DISCHARGE	POUNDS/YEAR	POUNDS/DAY	
Water	2,400,000	6,575	90% Anti-O.
Sulfuric Acid (100%)	307,565	843	10% BHT & MDAC
* Hydrochloric Acid (100%)	242,812	665.3	
Hydrogen Sulfide H_2S	370	1	
Acrylonitrile	90	.25	
Ammonia	66,260	181.5	— Bldg #1 & T-9
Sodium Chloride	90,000	246.5	— Anti-oxidents
Sodium Sulfide	540	1.5	
Thiodipropionic Acid (100%)	5,580	15.3	
Ammonia Acid Sulfate	111,600	305	— Anti-oxidents
Amines	665	1.8	
Methanol	55,225	151	— C-700 Bldg #3
Benzoid Acid (100%)	4,680	12.8	
Resourcenol	12,495	34.2	
Nitrile Oil	1,170	3.2	
C700	936	3.6	
Methyl Benzoate	Trace	Trace	
DIBK	Trace	Trace	
Noctylchlorinol	Trace	Trace	
Antioxidant Alcohols	Trace	Trace	
DLTDP, DSTDP, DMTDP	Trace	Trace	
DMU	Trace	Trace	
MDAC	Trace	Trace	
IPA and Benzophenons	Trace	Trace	
Caustic Pot Ash	Trace	Trace	
Soluble Oils	Trace	Trace	

*NOTE: Daily discharges to the pond from the C-700I Process is about 1,400 gal/day based on a production rate of 1 1/2 batches/day. This effluent is about 13% HCL with traces of Methanol, Benzoic Acid, Methyl Benzoate and etc.

P.S. One gallon well water sample was submitted to P. Bautista for analysis as you had directed him to obtain.

Robert J. Neubert

RJN/jj

CINCINNATI MILACRON

Memo

3.13A

To: A.C. Noble

CLA

See attached

ac 3/21

To From: C L A

To A. C. Noble

CC J. A. Mazzei

From Carl L. Adams

Location

Date March 17, 1977

Subject Pond and Pit. Disposal

Please provide a breakdown of all waste streams going to the ponds and pits on our property. This breakdown is to include the following:

1. Reactors and Vapors being discharged to the bldg. 1 scrubber, which automately discharges to the limestone pits.

2. Waste streams discharged to the pond or pits from bldg. 1.

3. Waste streams discharged to the pond or pits from bldg. 2.

4. Waste streams discharged to the limestone pits from bldgs. 3 and 3A.

5. Waste streams discharged to the pond from bldgs. 3 and 3A.

6. Waste streams discharged to the limestone pits from bldg. 6.

During this review list any additional waste streams that may be discharged on our property ie pond, pits, and etc. This information is required by Monday, March 21, 1977.

If there are any questions, please contact me accordingly.

C. L. A

Carl L. Adams
Enviromental Officer

3/21/77

jj

Plse complete the above per our review Friday 3/18/77 & forward to me today 3/21/77.

C. L. Adams

Pond & Pit Disposal 1 of 2 3/21/77 ac

Bldg 1 Scrubber services the following Reactors

K-14 } Anti oxidant - H_2SO_4 fumes, Myrotal Lauryl or Stearyl
K-16 } alcohol and water vapor.

K-15 - nitrile oil - acrylonitrile vapor and possible H_2S vapor.

K-11 - S_2Cl_2 vapor + Cl, S and "solids" from blowing sulchlors.

TK-9 - Amine type vapors & Water vapor from pave bond manufacture.

note - also the acid layer (H_2SO_4) from A. O. production in K-16 is drained thru the special sewer to the pits.

Bldg 2 A pump & line from floor trench exists, which was used to put DBDS water layers to pits. This is used now only in special circumstances. Caustic boils in K-21, 22 etc are drained to the sewer.

Bldg 3 - C-700-I Centrifuge (B-3 Annex) drains to dolomite pits. Effluent is HCL and Na_2CO_3 neutral HCl.

A pump + line from the K-303 area goes to the ponds. This is used in special clean outs - ie Soda Ash boils of K-31 after DBTDCl manufacture.

292
3/21/22 - ac

Bldg-3A&4 - All reactors etc discharge to the sewer. Currently no lines to pits or ponds.

Bldg 5 - The B-5 centrifuge (C-70 wet) can be discharged to the pond - this would introduce IPA and Benzophenones to pit.
Also, the B-5 soluble base drum mixing area discharges to ponds. RX 750, Shell Sulfonate, caustic, B-11-7, 95-031 would be the contaminants.

Bldg 1 - A lead line from between K-62/K-63 goes to the pits. Acid residue (H_2SO_4) ~~or~~ from Methanol recovery (MPAC process) discharged.

REPORT FORM

ON-SITE DISPOSAL OF SOLID WASTE

Health District:

Date Received:

New solid waste disposal regulations adopted by the Ohio Environmental Protection Agency in July, 1976, require the approval, licensing and inspection of all on-site solid waste disposal facilities. On-site facilities are those solid waste facilities where waste materials are generated and disposed of at the same location. These wastes may include solid, semi-solid, liquid and toxic and hazardous wastes.

In order for the health department and the Ohio EPA to properly implement these new regulations the following information is needed:

Name of Facility Cincinnati Milacron Chem., Inc.

Address of Facility West St., Reading, Ohio 45215

Name of Facility Administrator Mr. R. S. Binns

Title President Telephone 554-1554

Description of Waste Materials. Include chemical name of liquids or hazardous wastes.	Quantities of Waste Materials
Solids	
Semi-solids (sludges) & Liquids	
...el residue neutralized in limestone	75,000 Gal/Yr.
~~Liquids~~ H_2SO_4 residue neutralized in limestone	125,000 Gal/Yr.
Hazardous wastes	

Date waste disposal facility began operation About 1950

According to EP-20-09(K) this disposal facility will:

( ) Continue operation as a licensed site
( ) Cease operation

} Please advise what is necessary.

Information provided by Carl Adams, Plt. Eng. 5/2/77
Name Title Date

OEPA 60-10(11/76)

IF YOU DO NOT DISPOSE OF ANY WASTE ONSITE, PLEASE INDICATE THIS ON THE FORM AND RETURN.

P O N D D S P O S A L

BLDGS.	CHEMICAL WASTES
I.	NO DISCHARGE TO THE POND.
II.	NO SPECIFIC DISCHARGE TO THE POND, HOWEVER, A PUMP AND LINE FROM THE FLOOR TRENCHES IN BLDG. 2 WAS INSTALLED TO DISCHARGE WASTE WATERS DURING DBDS OPERATIONS. SINCE THIS PRODUCT HAS BEEN ELIMINATED, THERE IS ONLY INTERMITTENT USE UNDER SPECIAL CIRCUMSTANCES. NO EXAMPLES CAN BE GIVEN AT THIS TIME. NOTE: CAUSTIC BOILS FROM K-21 & 22 ARE DRAINED DIRECTLY TO THE SANITARY SEWER.
III.	REACTOR CLEAN OUTS ARE SOMETIMES DISCHARGED TO THE POND, ie A TYPICAL EXAMPLE IS SODA ASH BOILS FROM REACTOR K-31 AFTER DBTDCL MANUFACTURE. ALSO, A PUMP AND LINE FROM REACTOR K-303 IS USED ON SPECIAL CLEAN OUTS.
III. A & IV.	NO DISCHARGES TO THE POND
V.	THE BLDG. 5 CENTRIFUGE (C-700 WET) IS DISCHARGED TO THE POND. THIS WASTE STREAM CONSISTS OF IPA AND BENZOPHENONES. THIS SAME DRAIN CONNECTS TO THE BLDG. 5 SOLUBLE BASE DRUMMING STATION. THE WASTE STREAM CONSIST OF RET 750, SHELL SULFONATE, CAUSTIC, B-11-T, AND 95-031.
VI.	NO DISCHARGE TO THE POND.

MISC. THE DRAINS FROM THE WEST TANK ~~POND~~ Farm ARE DIRECTED TO THE POND. TRACE AMOUNTS OF ALL RAW MATERIALS AND PRODUCTS STORED IN THIS AREA WILL DRAIN THERE FROM ANY LEAKS, SPILLAGES, AND ETC.

PIT DISPOSAL

BLDGS	CHEMICAL WASTES
I.	THE BLDG. 1 SCRUBBER SYSTEM DISCHARGES TO THE PIT. THIS SCRUBBER USES WATER TO CONDENSE AND SCRUB OUT THE ANTIOXIDANT FUMES AND VAPORS. THESE CONSIST OF SULFURIC ACID, MYRISTAL, LAUYL, AND STERYL ALCOHOL. DURING NITRILE OIL PRODUCTION, ACRYLONITRILE VAPOR AND POSSIBLE H_2S VAPORS ARE SCRUBBED OUT. THE SULCHLOR OPERATION WILL VENT SUCH THINGS AS CHLORINE, SULFUR, AND SOME SOLIDS FROM THE BLOWING OF SULCHLORS; ALSO AMINE OPERATIONS VENT TO THIS SCRUBBER. A SEPARATE DRAIN UNDER REACTOR 14 IS USED FOR THE DISCHARGE OF THE SULFURIC ACID LAYER FROM ANTIOXIDANT PRODUCTION. THE SAME DRAIN IS ALSO USED FOR SOME WASTE STREAMS DURING PRODUCTION OF PHOSPHONIUM SALTS.
II.	THERE IS NO DRAIN FROM THIS BUILDING TO THE PITS.
III.	DISCHARGES FROM C-700 CENTRIFUGE IS THE LARGEST VOLUME GOING TO THE DOLIMITE PITS. IT CONSISTS OF ABOUT 17% HCL AND SODIUM BICARBONATE WASHES, WHICH ARE ALSO INTRODUCED TO THE CENTRIFUGE. THE FUMES FROM THE BENZOTRICHLORIDE VENT SCRUBBER IS ALSO DISCHARGED TO THE PIT DURING THE PRODUCTION OF THE C-700 I.
III. A & IV.	THERE ARE NO REACTORS DISCHARGING TO THE PITS FROM THESE BUILDINGS.
V.	THERE IS NO DISCHARGE STREAM TO THE PIT FROM BLDG. 5.
VI.	SULFURIC ACID RESIDUES FROM THE (MDAC PROCESS) ARE DISCHARGED TO THE PIT. THERE MAY BE SOME WASTE DISCHARGED FROM THE PIT FROM METHANOL RECOVERY.

PIT DISPOSAL

BLDGS	CHEMICAL WASTES
I.	THE BLDG. 1 SCRUBBER SYSTEM DISCHARGES TO THE PIT. THIS SCRUBBER USES WATER TO CONDENSE AND SCRUB OUT THE ANTIOXIDANT FUMES AND VAPORS. THESE CONSIST OF SULFURIC ACID, MYRISTAL, LAUYL, AND STERYL ALCOHOL. DURING NITRILE OIL PRODUCTION, ACRYLONITRILE VAPOR AND POSSIBLE H_2S VAPORS ARE SCRUBBED OUT. THE SULCHLOR OPERATION WILL VENT SUCH THINGS AS CHLORINE, SULFUR, AND SOME SOLIDS FROM THE BLOWING OF SULCHLORS; ALSO AMINE OPERATIONS VENT TO THIS SCRUBBER. A SEPARATE DRAIN UNDER REACTOR 14 IS USED FOR THE DISCHARGE OF THE SULFURIC ACID LAYER FROM ANTIOXIDANT PRODUCTION. THE SAME DRAIN IS ALSO USED FOR SOME WASTE STREAMS DURING PRODUCTION OF PHOSPHONIUM SALTS.
II.	THERE IS NO DRAIN FROM THIS BUILDING TO THE PITS.
III.	DISCHARGES FROM C-700 CENTRIFUGE IS THE LARGEST VOLUME GOING TO THE DOLIMITE PITS. IT CONSISTS OF ABOUT 17% HCL AND SODIUM BICARBONATE WASHES, WHICH ARE ALSO INTRODUCED TO THE CENTRIFUGE. THE FUMES FROM THE BENZOTRICHLORIDE VENT SCRUBBER IS ALSO DISCHARGED TO THE PIT DURING THE PRODUCTION OF THE C-700 I.
III. A & IV.	THERE ARE NO REACTORS DISCHARGING TO THE PITS FROM THESE BUILDINGS.
V.	THERE IS NO DISCHARGE STREAM TO THE PIT FROM BLDG. 5.
VI.	SULFURIC ACID RESIDUES FROM THE (MDAC PROCESS) ARE DISCHARGED TO THE PIT. THERE MAY BE SOME WASTE DISCHARGED FROM THE PIT FROM METHANOL RECOVERY.

APPENDIX E

SELECTED ON-SITE BORING LOGS AND
MONITORING WELL CONSTRUCTION LOGS

Upper Aquifer Monitoring Wells

MW-1
(Installed 12/9/80)

Depth (ft)	Blow Count	Description
0.0 - 1.5	2-2-4	Soil, dark brown, becomes tan and sandy toward bottom with an increased amount of clay
2.5 - 4.0	1-2-2	Clay, tan and sandy with decreasing amount of sand toward bottom; possible iron staining in very sandy zone
5.0 - 6.5	4-4-7	Clay, tan and sandy with some gravel present
7.5 - 9.0	6-12-21	Clay, tan with coarse sand and gravel; hit water table
10.0 - 11.5	7-10-14	Clay, tan grading to gray, some gravel present
12.5 - 14.0	8-13-14	Clay, tan grading to gray, some gravel present; gravel more abundant in top of sample
15.0 - 16.5	13-11-11	Clay, gray with some pebbles grading to medium, relatively clean sand
17.5 - 19.0	7-6-6	Sand and gravel, coarsening downward; 3-inch clay lens in middle of sample
19.0 - 20.5	5-5-5	Gravel and coarse sand; possibly some clay present

Construction: 10' of 1 1/2" blank over 10' of 1 1/2", .010 slot screen. Well set at 19 feet.

Geraghty & Miller, Inc.

MW2

MW-2
(Installed 12/9/80)

Depth (ft)	Blow Count	Description
0.0 - 1.5	8-5-7	Fill, brown and earthy with some limestone, gravel, and minor amounts of sand
2.5 - 4.0	6-5-4	Fill, reddish-brown with rock fragments, pebbles, and some sand
5.0 - 6.5	4-3-2	Fill, reddish-brown with some sand
7.5 - 9.0	3-3-5	Fill, reddish-brown with some sand
10.0 - 11.5	2-2-3	Fill becoming very sandy toward bottom; sand may be natural
12.5 - 14.0	9-9-11	Sand and gravel with a 1" clay lens at base; appear to hit water table at approximately 13.5 feet
15.0 - 16.5	9-13-34	Sand with some gravel changing abruptly to a black, chemical saturated sand and gravel
17.5 - 19.0	13-14-15	Gravel and coarse sand, black chemical saturated
19.0 - 20.5	10-21-23	Sand and gravel, black chemical saturated, changing abruptly to brown clay with some sand; brown clay is not chemical saturated

Construction: 10' of 1 1/2" blank over 10' of 1 1/2", .010 slot screen. Well set at 20 feet.

MW-3
(Installed 12/16/80)

Depth (ft)	Blow Count	Description
0.0 - 1.5	5-6-5	Silt and clay, dark brown with some gravel
2.5 - 4.0	3-3-3	Silt and clay, brown with some sand
5.0 - 6.5	3-5-5	Mixture of silt, clay, sand, and gravel, tan
7.5 - 9.0	4-15-16	Sand and gravel, tan with some silt
10.0 - 11.5	7-8-8	Sand, medium to coarse, tan with some gravel
12.5 - 14.0	8-12-15	Sand, medium to coarse, tan with some gravel; appear to hit water table at approximately 14 feet
15.0 - 16.5	5-8-12	Sand with some gravel, black chemical saturated throughout
17.5 - 19.0	8-8-9	Sand, black chemical saturated, changing to gray silty clay
19.0 - 20.5		Shelby tube

Construction: 10' of 1 1/2" blank over 10' of 1 1/2", .010 slot screen. Well set at 19.5 feet.

Geraghty & Miller, Inc.

MW-4
(Installed 12/17/80)

Depth (ft)	Blow Count	Description
0.0 - 1.5	8-7-8	Clay, dark brown with some silt
2.5 - 4.0	4-2-3	Clay, brown with silt
5.0 - 6.5	3-3-4	Sand, tan, very silty with some clay
7.5 - 9.0	6-6-4	Sand, tan with silt and gravel; changes abruptly to a black chemical saturated sand
10.0 - 11.5	6-9-12	Sand and gravel, black chemical saturated; appear to hit water table at approximately 11 feet; sample to be analyzed by PEDCo
12.5 - 14.0	13-12-13	Gravel and sand changing to clay; entire sample is chemical saturated
15.0 - 16.5	6-11-15	Clay, gray, silty with some gravel; sample to be analyzed by PEDCo
17.0 - 18.5		Shelby tube

Construction: 10' of 1 1/2" blank over 8' of 1 1/2", .010 slot screen. Well set at 17 feet.

Geraghty & Miller, Inc.

MW-5
(Installed 12/17/80)

Depth (ft)	Blow Count	Description
0.0 - 1.5	5-4-8	Clay, brown with some sand and gravel
2.5 - 4.0	5-4-5	Clay and silt, brown
5.0 - 6.5	4-5-6	Sand, dark gray with some silt and gravel; most of sample appears to contain black chemical
7.5 - 9.0	5-7-7	Gravel, sand, and some clay, black chemical saturated; hit water table at approximately 8.5 feet
10.0 - 11.5	9-13-22	Gravel and sand, black chemical saturated; sample to be analyzed by Pedco
12.5 - 14.0	4-8-13	Clay, gray with a lot of silt and some gravel; minor amounts of black chemical present
14.0 - 16.0		Clay, brownish-gray with some gravel
16.0 - 18.0		Shelby tube

Construction: 7' of 1-1/2" blank over 10' of 1-1/2", .010 slot screen. Well set at 16 feet.

Geraghty & Miller, Inc.

MW-6
(Installed 12/17/80)

Depth (ft)	Blow Count	Description
0.0 - 0.5	5-4-8	Road asphalt
0.5 - 2.0		Road gravel
2.5 - 4.0	4-5-6	Clay and silt, dark greenish black
5.0 - 6.5	4-10-16	Sand, coarse with some silt; black chemical saturated
7.5 - 9.0	4-7-11	Sand, coarse, changing to sand and gravel; entire sample is black chemical saturated; hit water table at approximately 8.5 ft
10.0 - 11.5	5-3-3	Clay, gray with lot of silt and sand
12.0 - 12.5		Shelby tube
12.5 - 14.0	17-30-43	Sand and gravel, black chemical saturated
15.0 - 16.5	5-10-15	Sand and gravel changing to clay, dark gray with a lot of silt and some sand
17.5 - 19.0	6-11-17	Clay with silt, sand, and some gravel

Construction: 7' of 1-1/2" blank over 10' of 1-1/2", .010 slot screen. Well set at 17.5 feet.

Geraghty & Miller, Inc.

MW-7
(Installed 12/17/80)

Depth (ft)	Blow Count	Description
0.0 - 1.0		Road asphalt
1.0 - 2.5	9-6-5	Clay, dark green to black, changing to sand and gravel, brown
2.5 - 4.0	3-3-4	Silt and clay, green to brown with some sand
5.0 - 6.5	4-4-6	Clay and silt, dark greenish brown
7.5 - 9.0	5-7-7	Silt and clay, light brown with some sand
10.0 - 11.5	3-1-1	Silt and clay, light brown, changing to fine sand, gray; appear to have hit water table
12.5 - 14.0	7-10-10	Sand, light brown with some gravel
15.0 - 16.5	5-9-11	Clay and silt, dark green to brown with some gravel and sand
17.5 - 19.0	8-13-17	Clay and silt, dark green with some gravel
20.0 - 21.5	5-14-18	Clay and silt dark green, changing to sand and gravel, brown; sand and gravel was dry

Construction: 10' of 1 1/2" blank over 10' of 1 1/2", .010 slot screen. Well set at 20.5 feet.

Geraghty & Miller, Inc.

MW8

MW-8
(Installed 12/17/80)

Depth (ft)	Blow Count	Description
0.0 - 1.5	5-5-5	Fill consisting of clay, sand, and gravel, brown
2.5 - 4.0	4-3-5	Fill consisting of clay, silt, and gravel, brown, earthy texture
5.0 - 6.5	6-10-8	Fill consisting of gravel and some clay (poor recovery)
7.5 - 9.0	6-7-6	Fill consisting of silt and sand, reddish-brown
10.0 - 11.5	7-8-10	Fill consisting of sand and silt, reddish-brown; hit water table
12.5 - 14.0	11-9-13	Sand and silt, black chemical saturated
15.0 - 16.5	4-8-11	Clay, gray, some black chemical present
16.5 - 18.0	6-10-13	Clay, gray with some gravel

Construction: 7' of 1-1/2" blank over 10' of 1-1/2", .010 slot screen. Well set at 16 feet.

MW-9
(Installed 12/18/80)

Depth (ft)	Blow Count	Description
2.5 - 4.0	5-4-6	Clay, brown with some silt, earthy texture
5.0 - 6.5	3-4-6	Clay, brown with some silt, becoming sandier toward bottom of sample
7.5 - 9.0	6-11-10	Sand and gravel, black chemical saturated; appear to hit water table
10.0 - 11.5	6-12-18	Sand and gravel, black chemical saturated
12.5 - 14.0	16-23-25	Gravel and sand with some silt, black chemical saturated
15.0 - 16.5	8-12-16	Clay, gray with silt
16.5 - 18.0	3-11-22	Clay, gray with silt and some gravel

Construction: 7' of 1 1/2" blank over 10' of 1 1/2", .010 slot screen. Well set at 16 feet.

Geraghty & Miller, Inc.

MW-10
(Installed 12/18/80)

Depth (ft)	Blow Count	Description
0.0 - 1.5	4-5-6	Clay, reddish-brown with some silt
2.5 - 4.0	3-2-3	Clay, brown with some silt
5.0 - 6.5	4-5-6	Clay, brown with a little silt
7.5 - 9.0	3-2-3	Silt and clay with some sand becoming black and siltier toward bottom; some black chemical present
10.0 - 11.5	5-5-6	Gravel and sand with some silt, black chemical saturated
12.5 - 14.0	5-8-10	Clay, grey with silt
14.0 - 16.5	5-9-13	Clay, grey with silt and some gravel

Construction: 5.5 of 1-1/2" blank over 10' of 1-1/2", .010 slot screen. Well set at 15 feet.

SALISBURY ENGINEERING
1501 E. MAIN STREET, GRIFFITH, IND.

BORING NO. MW11

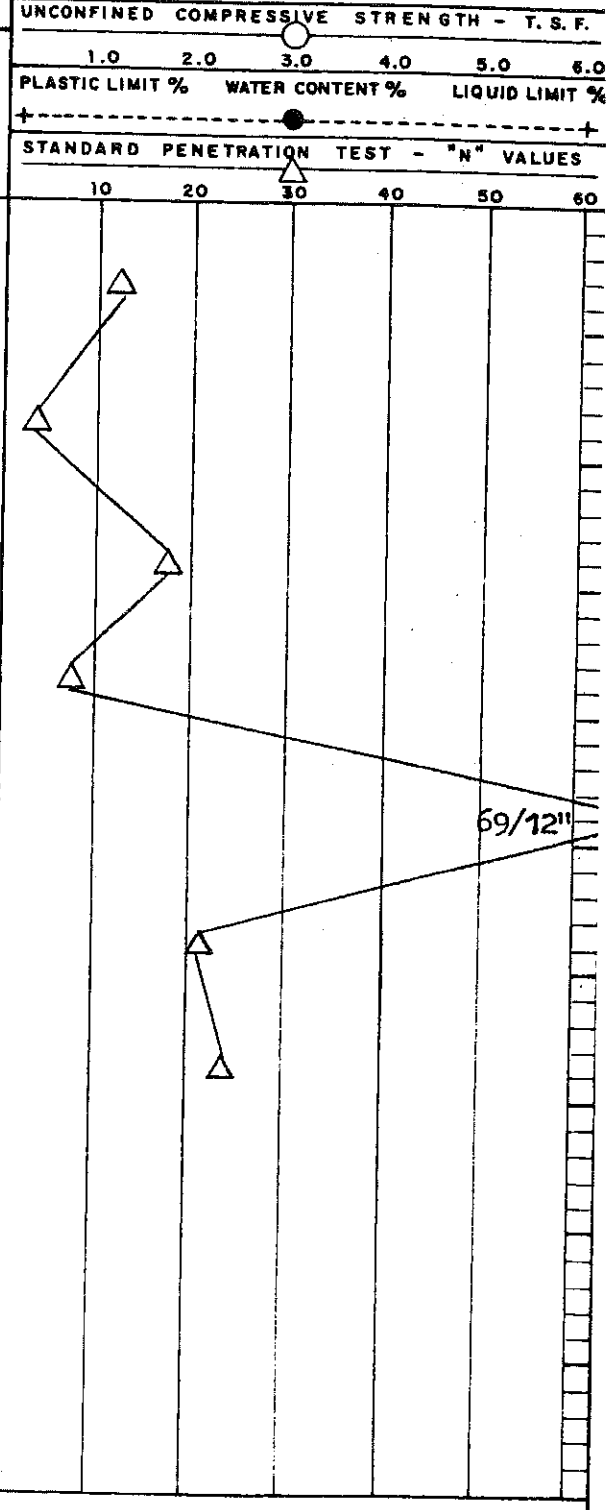
WATER LEVEL DATA		
6.0 FT. W.D.	STARTED 7/12/83	LOCATION CARSTAB FACILITY
7.9 FT. 7/20/83	COMPLETED SAME	GROUND WATER STUDY
___ FT. ___ HR. A.D.	DRILLER PM	CINCINNATI, OHIO
___ FT. ___ HR. A.D.	HELPER	CLIENT THIOKOL/CARSTAB CORPORATION
	FILE NO. 6342	CINCINNATI, OHIO

GROUND ELEVATION: 553.32

STRATA DEPTH	SOIL DESCRIPTION	DEPTH	TYPE	RECOVERY%	NUMBER	UNIT DRY WT. LBS./FT.³
1.0	STIFF DARK BROWN SILTY, SANDY CLAY AND TOPSOIL					
	SOFT TO MEDIUM GRAY SANDY SILT; LITTLE CLAY	2.5		61	1	
		5.0		94	2	
6.0		▼(wd)				
	LOOSE TO MEDIUM DENSE, BROWN SILTY SAND, TRACES OF GRAVEL	7.5		44	3	
		10.0		94	4	
11.0						
	VERY DENSE BLACK SILTY SAND AND GRAVEL, (CHEMICALLY SATURATED FROM 11.0' TO 13.5')	12.5		89	5	
13.5						
	VERY STIFF GRAY SILTY CLAY	15.0		72	6	
17.5		17.5		83	7	
	BORING ENDED AT 17.5'	20.0				
		22.5				
		25.0				

SAMPLE DATA

UNCONFINED COMPRESSIVE STRENGTH - T.S.F.



NOTES:

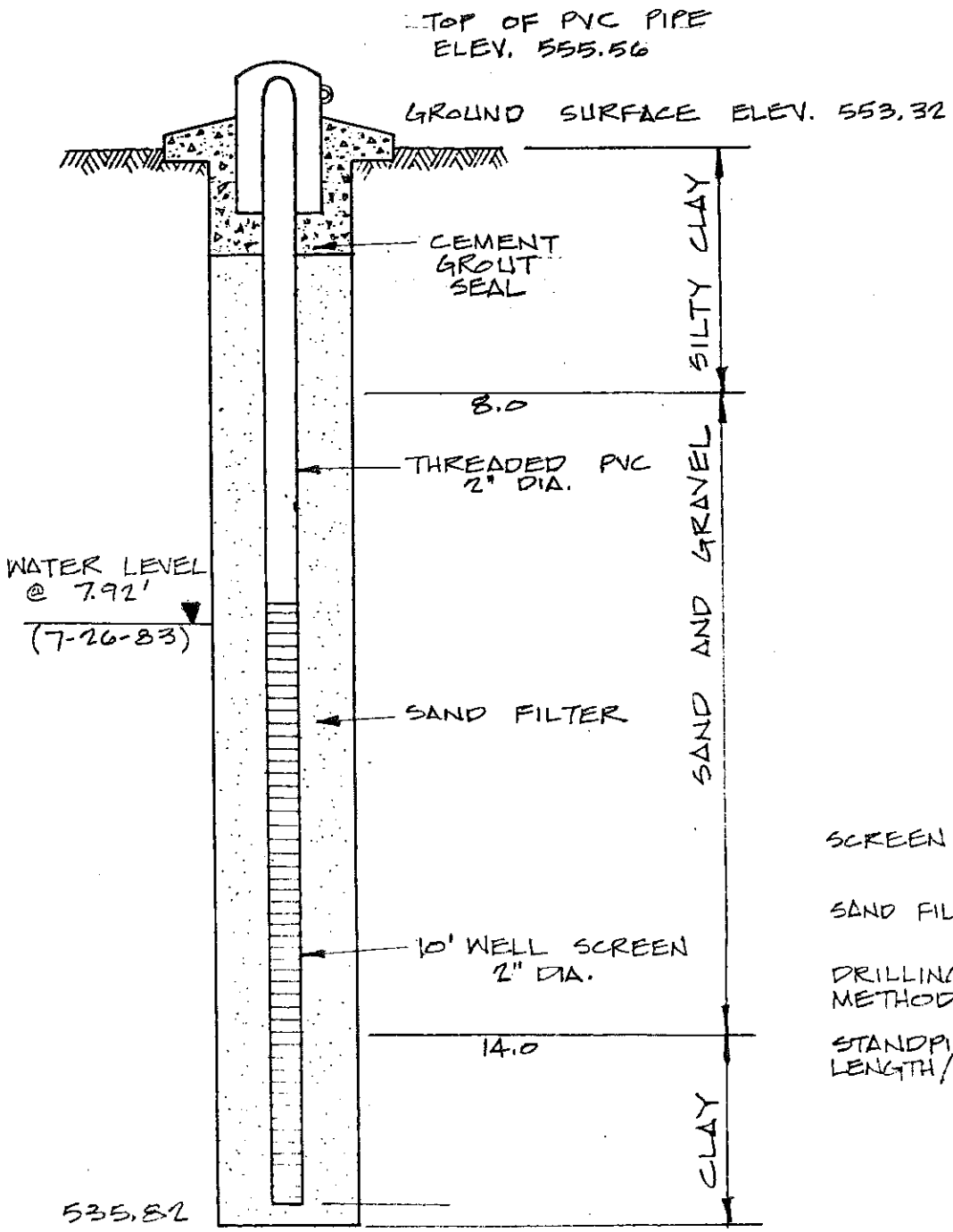
LEGEND:
- SPLIT SPOON, - SHELBY TUBE, - PISTON, A - AUGER, - ROCK CORE, - CALIBRATED PENETROMETER

W.D. - WHILE DRILLING, A.D. - AFTER DRILLING

THE "N" VALUES IN THE STANDARD PENETRATION TEST ARE BLOWS PER FOOT REQUIRED TO DRIVE A 2" O.D. SPLIT SPOON SAMPLER USING A 140 POUND WEIGHT FALLING FREE FOR A DISTANCE OF 30".

SALISBURY/ATEC 1501 EAST MAIN STREET GRIFFITH, INDIANA	MONITORING WELL NO. MW 11

			WATER LEVEL DATA				
PROJECT	CARSTAB FACILITY GROUND WATER STUDY CINCINNATTI, OHIO	START		AT COMPLETION	12 HOURS ±	BEFORE BLOW OUT	AFTER BLOW OUT
		FINISH	DATE	7-12-83			
		DRILLER	TIME				
CLIENT	CARSTAB CORPORATION CINCINNATTI, OHIO	HELPER	WATER LEVEL	6.0'			
		FILE	RECOVERY TIME:				



SCREEN:	2" DIA. .010" MESH
SAND FILTER:	COARSE SAND
DRILLING METHOD:	HOLLOW STEM AUGERS 3¼" I.D.
STANDPIPE LENGTH/DIA.	5' x 4" DIA.

SALISBURY/ATEC 1501 EAST MAIN STREET GRIFFITH, INDIANA	MONITORING WELL NO. MW-11B

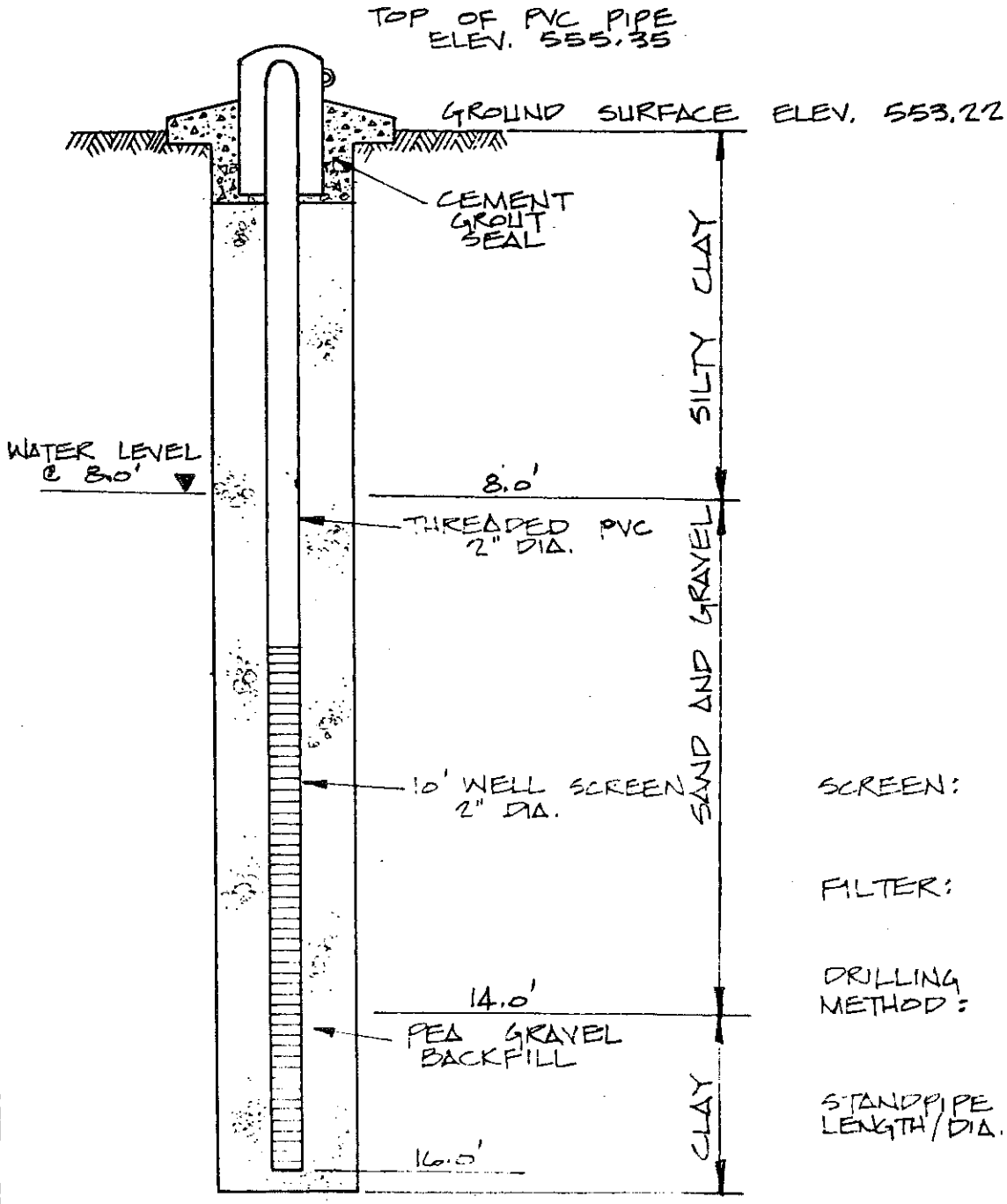
PROJECT	CARSTAB FACILITY GROUND WATER STUDY CINCINNATTI, OHIO	START FINISH DRILLER HELPER FILE
OWNER	CARSTAB CORPORATION CINCINNATTI, OHIO	

WATER LEVEL DATA

	AT COMPLETION	12 HOURS ±	BEFORE BLOW OUT	AFTER BLOW OUT
DATE				
TIME				
WATER LEVEL				

RECOVERY TIME:

MW 11-B LOCATED 5.0' WEST OF MW 11



SCREEN:	2" DIA. .010 MESH
FILTER:	PEA GRAVEL
DRILLING METHOD:	HOLLOW STEM AUGERS 3¼" I.D.
STANDPIPE LENGTH/DIA.	5' x 4" DIA.

SALISBURY ENGINEERING
1501 E. MAIN STREET, GRIFFITH, IND.

BORING NO. MW 12

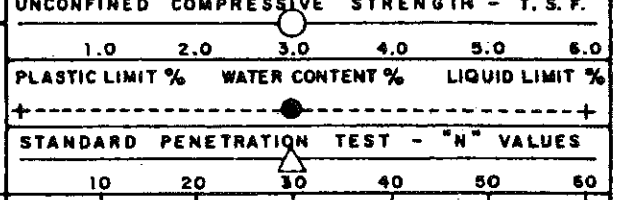
WATER LEVEL DATA		
10.5 FT. W.D.	STARTED 7/8 /83	LOCATION CARSTAB FACILITY
11.0 FT. 7/20/83	COMPLETED SAME	GROUND WATER STUDY
	DRILLER PM	CINCINNATI, OHIO
FT. HR. A.D.	HELPER	CLIENT THIOKOL/CARSTAB CORPORATION
FT. HR. A.D.	FILE NO. 6342	CINCINNATI, OHIO

GROUND ELEVATION: 552.66

STRATA DEPTH	SOIL DESCRIPTION	DEPTH	TYPE	RECOVERY%	NUMBER	UNIT DRY WT. LBS./FT.³
1.7	STIFF DARK BROWN SANDY SILT AND TOPSOIL			78	1	
8.2	MEDIUM STIFF MOTTLED BROWN AND GRAY, SILTY, SANDY CLAY	2.5		72	2	
		5.0		67	3	
		7.5		50	4	
	MEDIUM DENSE TO VERY DENSE BROWN AND GRAY, SILTY SAND AND GRAVEL, BECOMING BLACK AND CHEMICALLY SATURATED FROM 11.0' TO 13.0'			78	5	
		10.0		78	6	
		▼(WT)		78	7	
13.0		12.5		83	8	
	STIFF TO VERY STIFF GRAY SILTY CLAY	15.0		94	9	
		17.5		94	10	
19.0	BORING ENDED AT 19.0'	20.0				
		22.5				
		25.0				

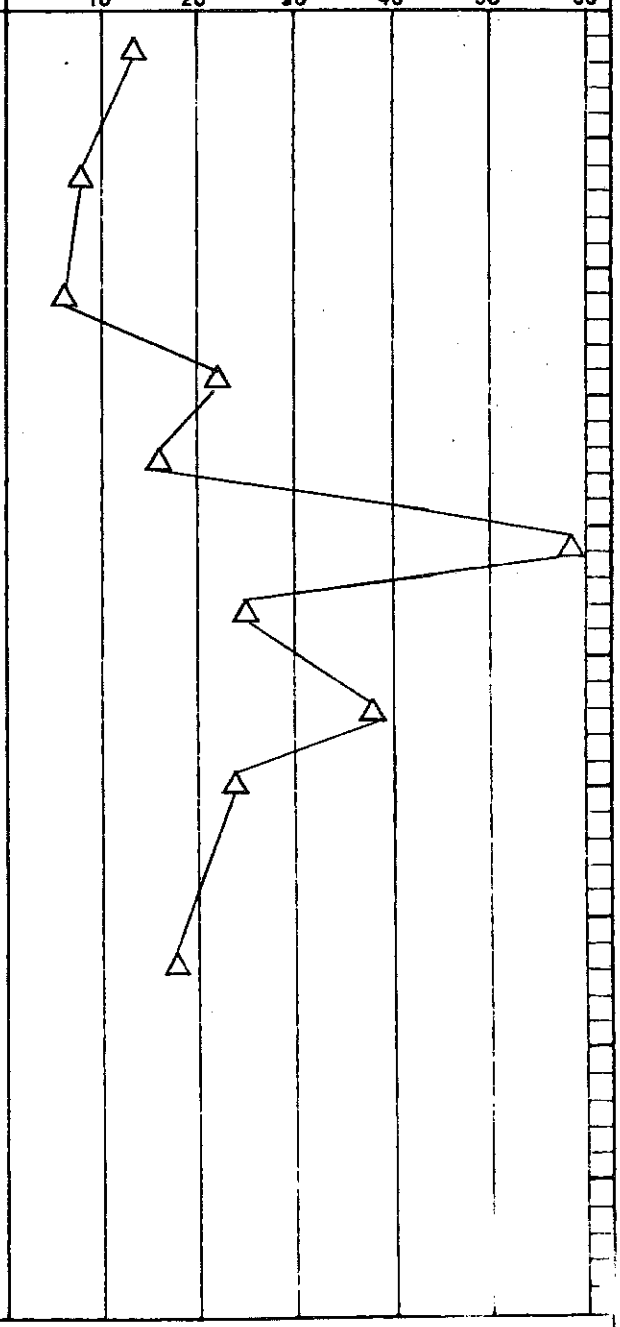
SAMPLE DATA

UNCONFINED COMPRESSIVE STRENGTH - T.S.F.



PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %

STANDARD PENETRATION TEST - "N" VALUES



NOTES:

LEGEND:
☐ - SPLIT SPOON, ■ - SHELBY TUBE, ▯ - PISTON, A - AUGER, ▨ - ROCK CORE, ⊕ - CALIBRATED PENETROMETER
W.D. - WHILE DRILLING, A.D. - AFTER DRILLING

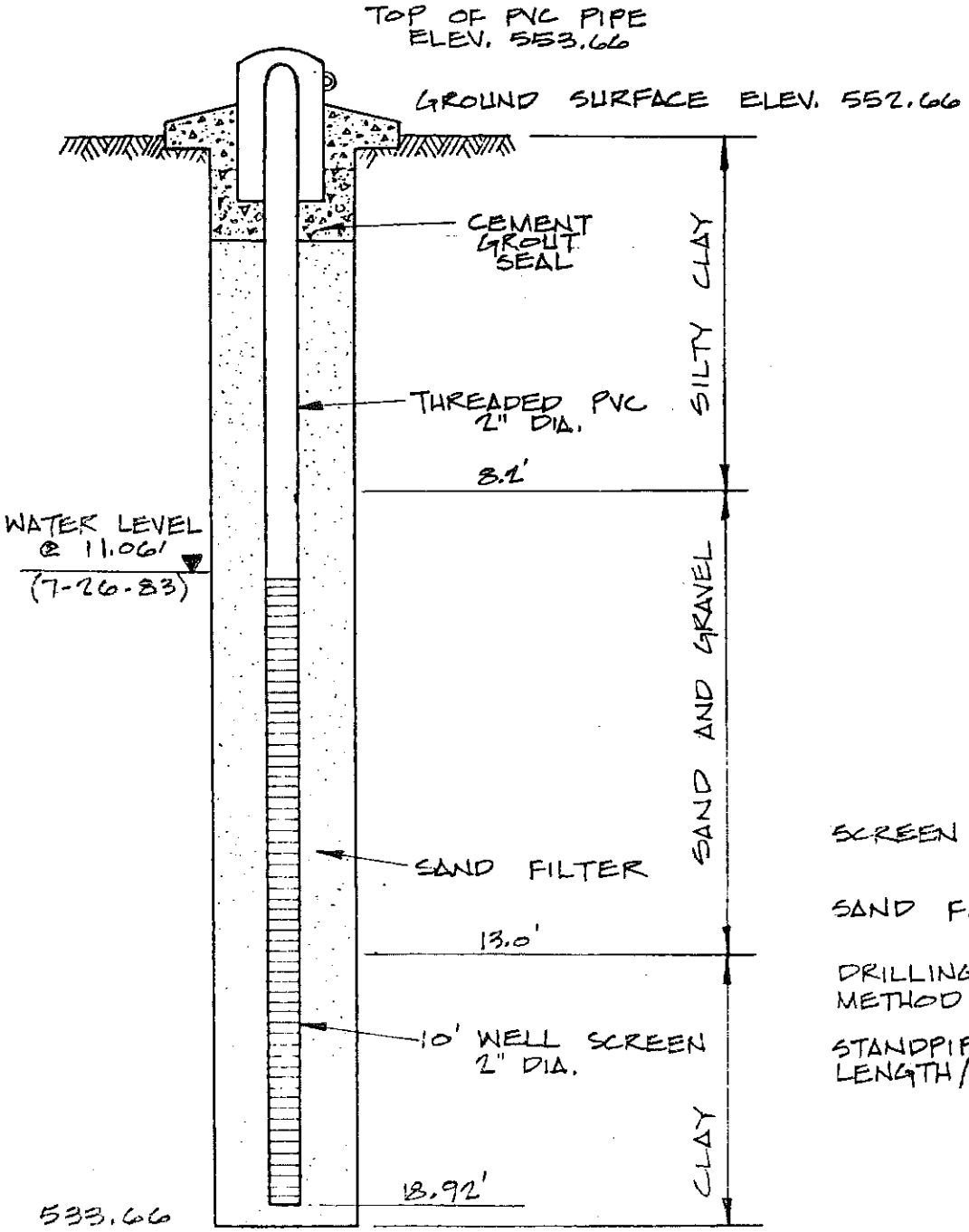
THE "N" VALUES IN THE STANDARD PENETRATION TEST ARE BLOWS PER FOOT REQUIRED TO DRIVE A 2" O.D. SPLIT SPOON SAMPLER USING

SALISBURY/ATEC 1501 EAST MAIN STREET GRIFFITH, INDIANA	MONITORING WELL NO. MW 12

PROJECT	CARSTAB FACILITY GROUND WATER STUDY CINCINNATTI, OHIO	START FINISH DRILLER HELPER FILE
CLIENT	CARSTAB CORPORATION CINCINNATTI, OHIO	

WATER LEVEL DATA

	AT COMPLETION	12 HOURS ±	BEFORE BLOW OUT	AFTER-BLOW OUT
DATE	7-8-83			
TIME				
WATER LEVEL	11.0'			
RECOVERY TIME:				



SCREEN:	2" DIA. .020" MESH
SAND FILTER:	COARSE SAND
DRILLING METHOD:	HOLLOW STEM AUGERS 3¼" I.D.
STANDPIPE LENGTH/DIA.	5' x 4" DIA.

SALISBURY ENGINEERING
1501 E. MAIN STREET, GRIFFITH, IND.

BORING NO. MW 13

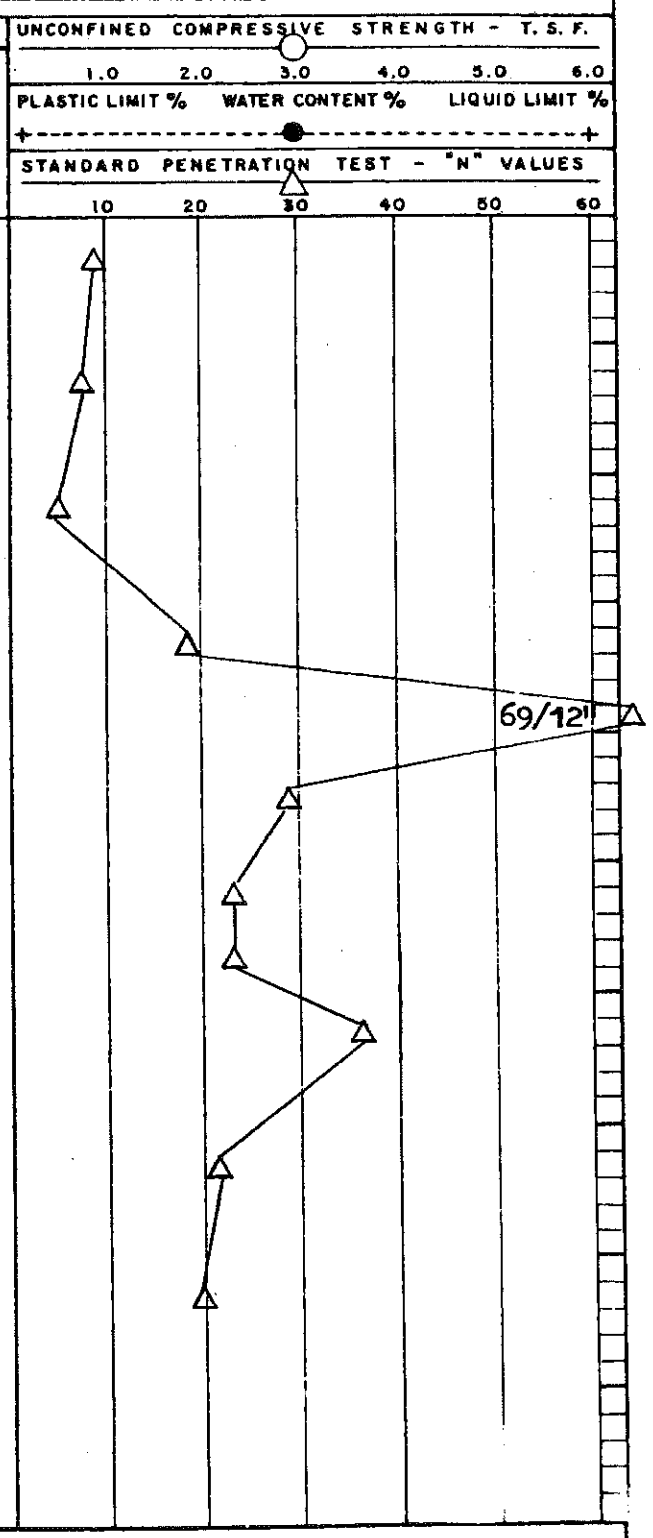
WATER LEVEL DATA		
2.6 FT. W.D.	STARTED 7/8 /83	LOCATION CARSTAB FACILITY
2.9 FT. 7/20/83	COMPLETED SAME	GROUND WATER STUDY
___ FT. ___ HR. A.D.	DRILLER PM	CINCINNATI, OHIO
	HELPER	CLIENT THIOKOL/CARSTAB CORPORATION
___ FT. ___ HR. A.D.	FILE NO. 6342	CINCINNATI, OHIO

GROUND ELEVATION: 551.86

STRATA DEPTH	SOIL DESCRIPTION
1.5	LOOSE DARK BROWN SANDY SILT AND TOPSOIL
7.0	MEDIUM TO STIFF DARK BROWN AND GRAY SANDY, SILTY CLAY
15.2	MEDIUM TO VERY DENSE BROWN SILTY SAND AND GRAVEL, BECOMING BLACK AND CHEMICALLY SATURATED FROM 12.5' TO 15.2'
21.5	STIFF TO VERY STIFF GRAY SILTY CLAY
	BORING ENDED AT 21.5'

SAMPLE DATA

DEPTH	TYPE	RECOVERY %	NUMBER	UNIT DRY WT. LBS./FT.³
		83	1	
2.5		11	2	
5.0		89	3	
7.5		44	4	
			5	
10.0		83		
		83	6	
12.5		67	7	
		72	8	
15.0		89	9	
17.5		67	10	
20.0		94	11	
22.5				
25.0				



NOTES:

LEGEND:
- SPLIT SPOON, - SHELBY TUBE, - PISTON, - AUGER, - ROCK CORE, - CALIBRATED PENETROMETER

W.D. - WHILE DRILLING, A.D. - AFTER DRILLING

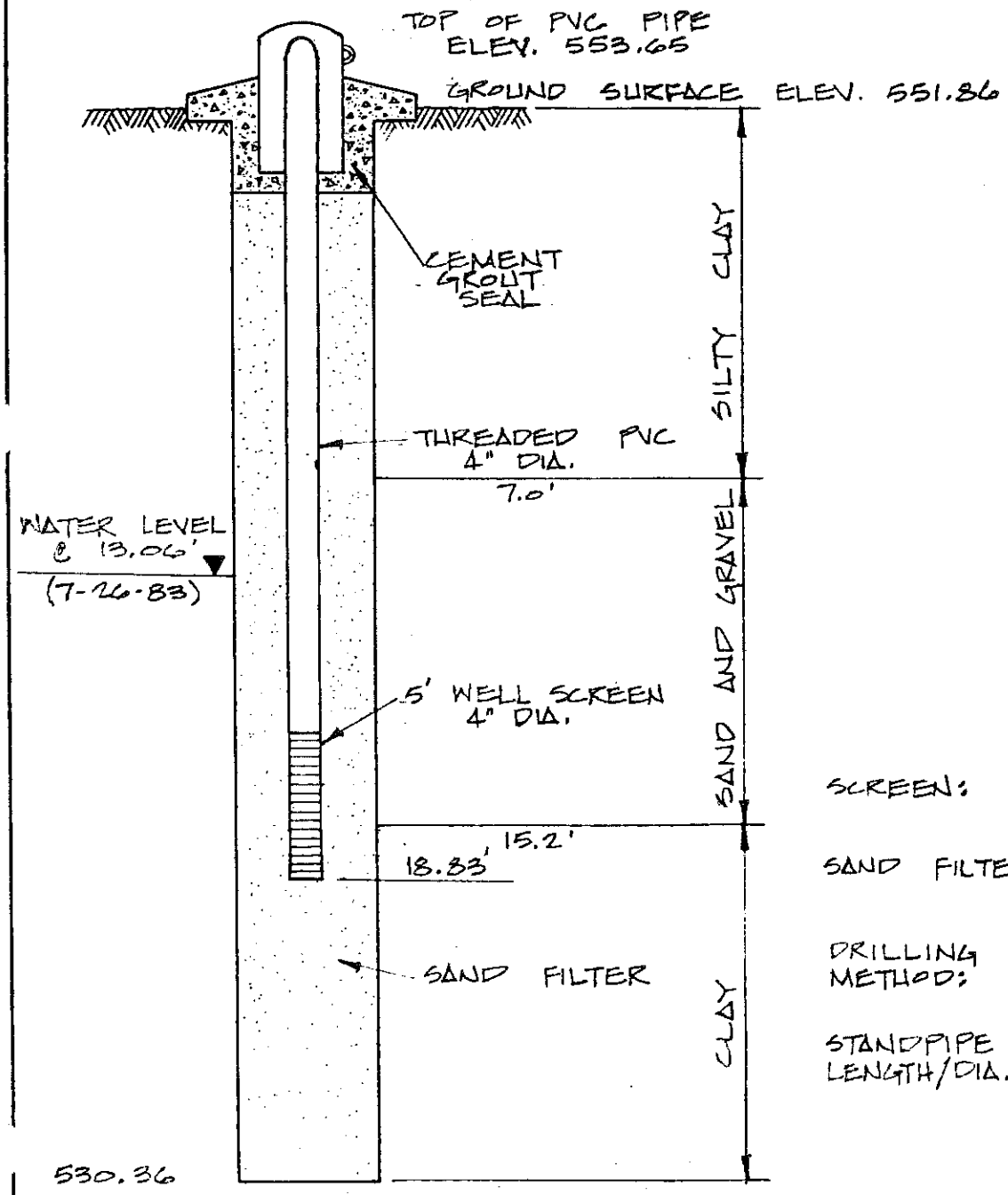
THE "N" VALUES IN THE STANDARD PENETRATION TEST ARE BLOWS PER FOOT REQUIRED TO DRIVE A 2" O.D. SPLIT SPOON SAMPLER USING A 140 POUND WEIGHT FALLING FREE FOR A DISTANCE OF 30".

SALISBURY/ATEC 1501 EAST MAIN STREET GRIFFITH, INDIANA	MONITORING WELL NO. MW13

PROJECT	CARSTAB FACILITY GROUND WATER STUDY CINCINNATTI, OHIO
CLIENT	CARSTAB CORPORATION CINCINNATTI, OHIO

START _____
FINISH _____
DRILLER _____
HELPER _____
FILE _____

WATER LEVEL DATA				
	AT COMPLETION	12 HOURS ±	BEFORE BLOW OUT	AFTER-BLOW OUT
DATE	7-8-83			
TIME				
WATER LEVEL	12.5'			
RECOVERY TIME:				



SCREEN:	4" DIA. .020" MESH
SAND FILTER:	COARSE SAND
DRILLING METHOD:	HOLLOW STEM AUGERS 6" I.D.
STANDPIPE LENGTH/DIA.	5' x 6" DIA.

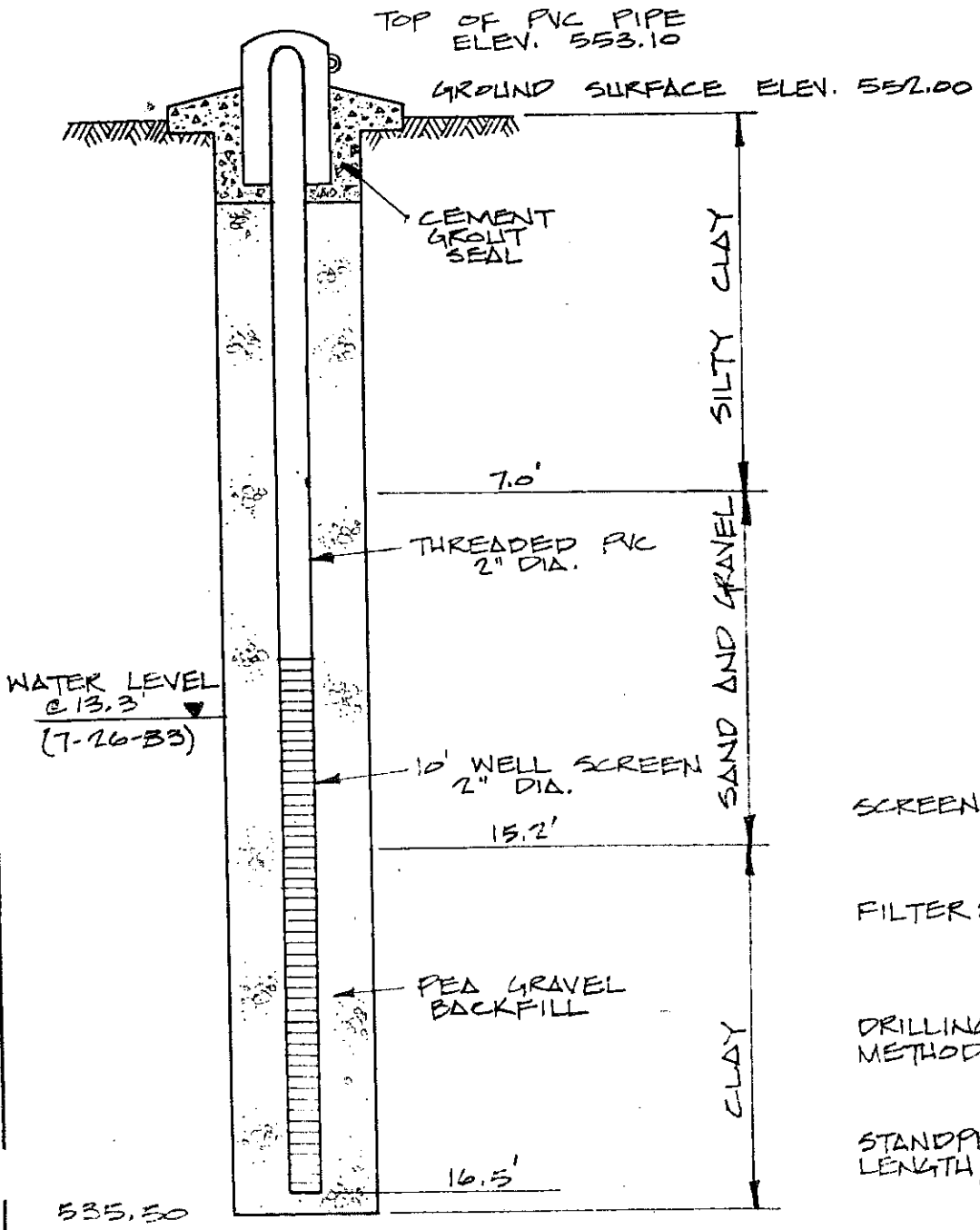
SALISBURY/ATEC 1501 EAST MAIN STREET GRIFFITH, INDIANA	MONITORING WELL NO. MW-13B

PROJECT	CARSTAB FACILITY GROUND WATER STUDY CINCINNATTI, OHIO	START FINISH DRILLER HELPER FILE
CLIENT	CARSTAB CORPORATION CINCINNATTI, OHIO	

WATER LEVEL DATA

	AT COMPLETION	12 HOURS ±	BEFORE BLOW OUT	AFTER BLOW OUT
DATE				
TIME				
WATER LEVEL				
RECOVERY TIME:				

MW 13-B LOCATED 5.0'
NORTH OF MW 13



SCREEN:	2" DIA. .025" MESH
FILTER:	PEA GRAVEL
DRILLING METHOD:	HOLLOW STEM AUGERS 3¼" I.D.
STANDPIPE LENGTH/DIA.	5' x 4" DIA.

SALISBURY ENGINEERING
1501 E. MAIN STREET, GRIFFITH, IND.

BORING NO. MW 14

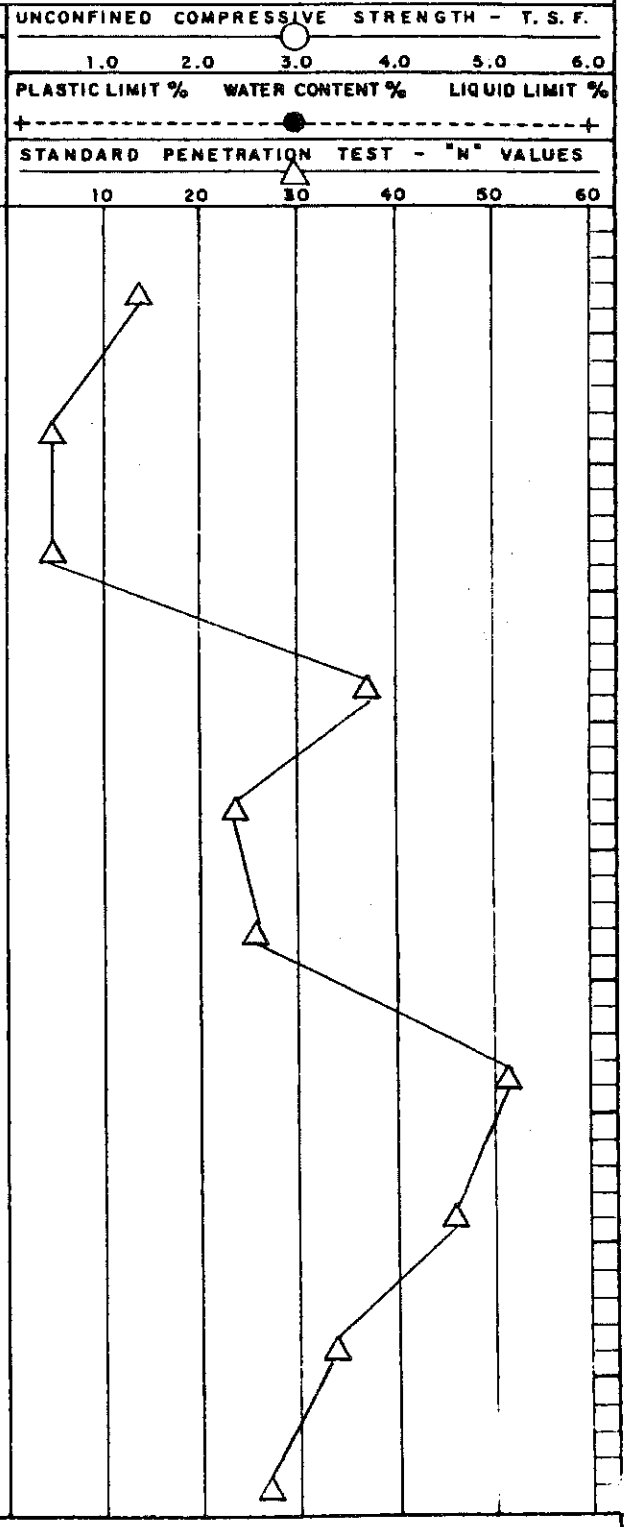
WATER LEVEL DATA		
21.0 FT. W.D.	STARTED 7/11/83	LOCATION Carstab Facility
22.6 FT. 7/20/83	COMPLETED Same	Ground Water Study
	DRILLER PM	Cincinnati, Ohio
FT. HR. A.D.	HELPER	CLIENT Thiokol/Carstab Corporation
FT. HR. A.D.	FILE NO. 6342	Cincinnati, Ohio

GROUND ELEVATION: 560.43

STRATA DEPTH	SOIL DESCRIPTION	DEPTH	TYPE	RECOVERY %	NUMBER	UNIT DRY WT. LBS./FT.³
	STIFF DARK BROWN TOPSOIL AND SANDY SILT, POSSIBLE FILL				1	
2.5		2.5		61		
	MEDIUM BROWN SANDY CLAY, POSSIBLE FILL				2	
		5.0		61		
6.5					3	
	LOOSE BROWN SILTY SAND			72		
7.5		7.5				
	MEDIUM TO VERY DENSE GRAY AND BROWN SILTY SAND, SOME GRAVEL GRADING TO A TRACE OF GRAVEL				4	
		10.0		61		
					5	
		12.5		89		
					6	
		15.0		89		
					7	
		17.5		89		
					8	
		20.0		89		
		▼(WD)				
					9	
		22.5		89		
					10	
	(CONTINUED)	25.0		89		

SAMPLE DATA

UNCONFINED COMPRESSIVE STRENGTH - T.S.F.



NOTES:

LEGEND:
-SPLIT SPOON, -SHELBY TUBE, -PISTON, -AUGER, -ROCK CORE, -CALIBRATED PENETROMETER
W.D.- WHILE DRILLING, A.D. - AFTER DRILLING

THE "N" VALUES IN THE STANDARD PENETRATION TEST ARE BLOWS PER FOOT REQUIRED TO DRIVE A 2" O.D. SPLIT SPOON SAMPLER USING A 140 POUND WEIGHT FALLING FREE FOR A DISTANCE OF 30".

SALISBURY ENGINEERING
1501 E. MAIN STREET, GRIFFITH, IND.

BORING NO. MW-14

FILE NO. 6342

STRATA DEPTH	SOIL DESCRIPTION (CONTINUED FROM 22.5')	DEPTH	SAMPLE DATA: TYPE	RECOVERY	NUMBER	UNIT DRY WT. LBS./FT.³
		22.5				
	MEDIUM TO VERY DENSE GRAY AND BROWN SILTY SAND, SOME GRAVEL GRADING TO A TRACE OF GRAVEL	25.0		89	10	
26.5	STIFF TO VERY STIFF GRAY SILTY CLAY	27.5		89	11	
30.0		30.0		72	12	
	BORING ENDED AT 30.0'					

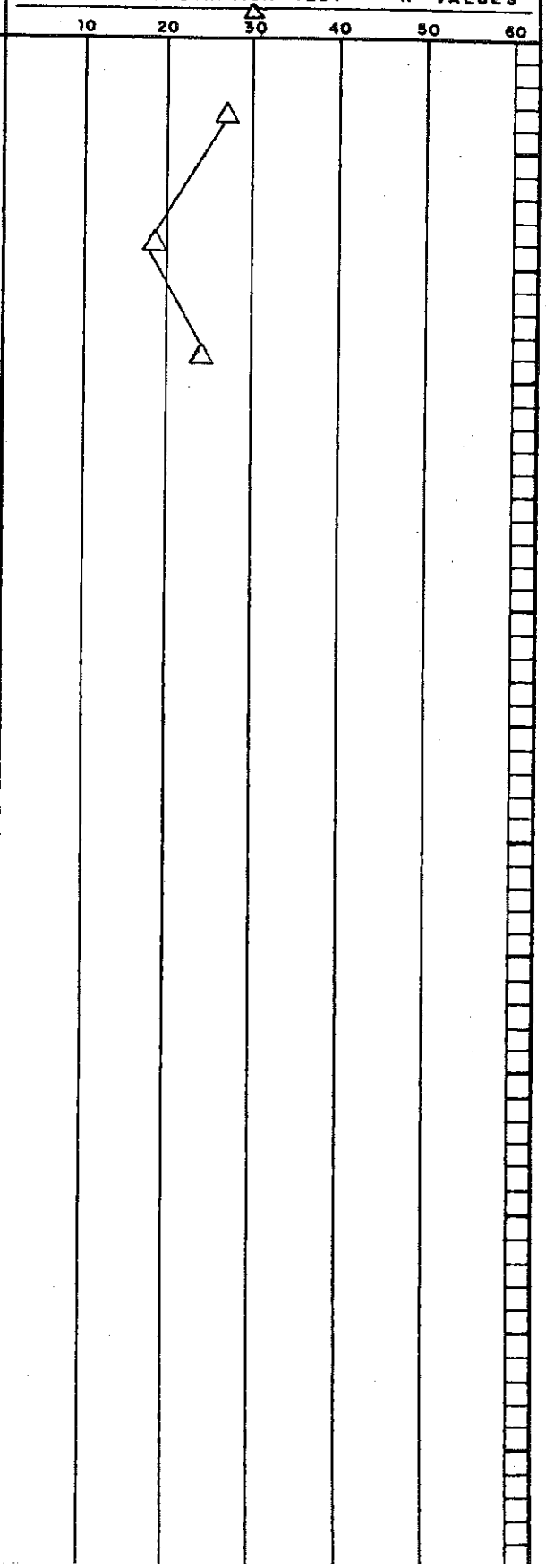
UNCONFINED COMPRESSIVE STRENGTH – T.S.F.

1.0 2.0 3.0 4.0 5.0 6.0

PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %

STANDARD PENETRATION TEST – "N" VALUES

10 20 30 40 50 60

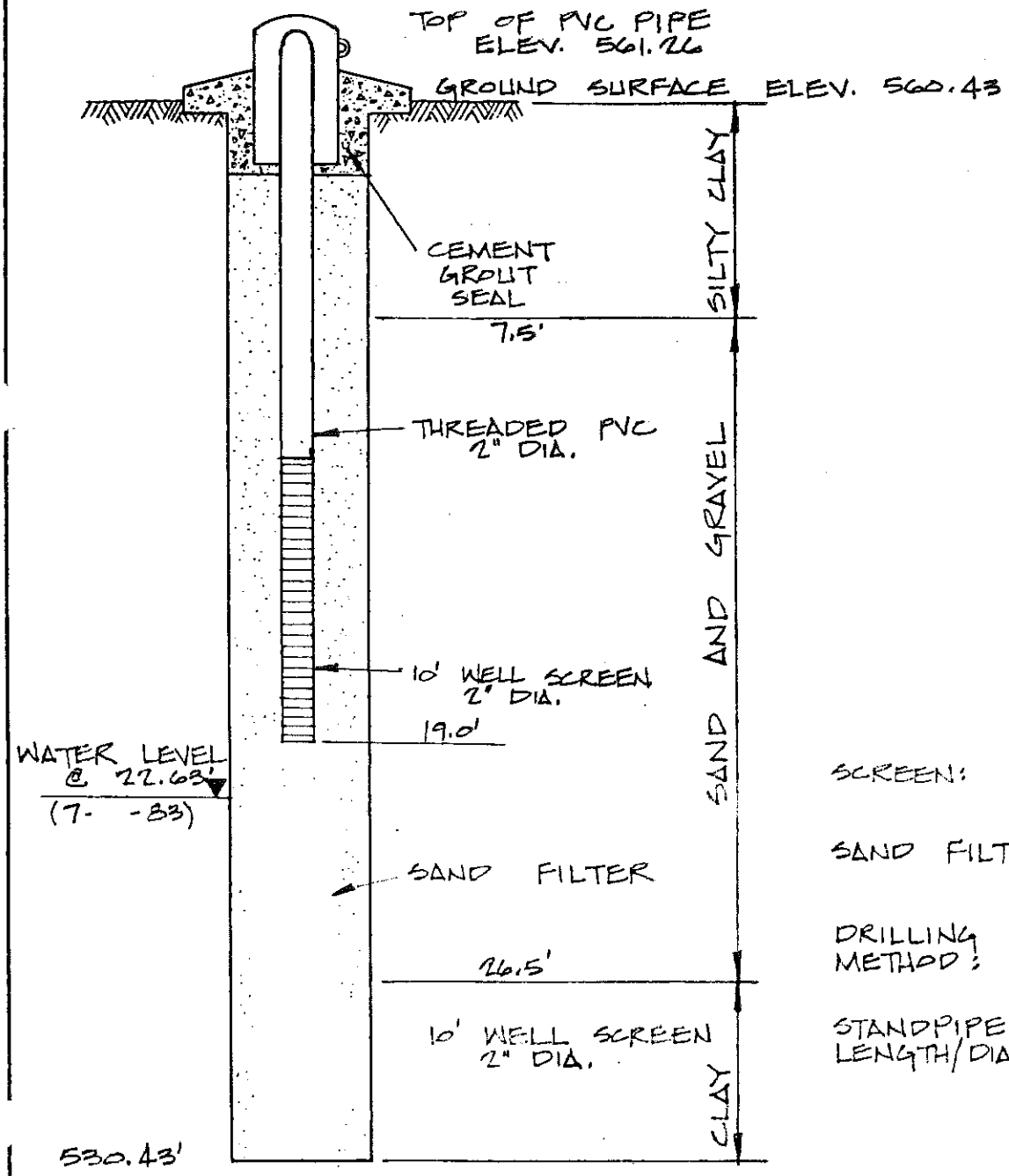


SALISBURY/ATEC 1501 EAST MAIN STREET GRIFFITH, INDIANA	MONITORING WELL NO. MW 14

PROJECT	CARSTAB FACILITY GROUND WATER STUDY CINCINNATTI, OHIO
CLIENT	CARSTAB CORPORATION CINCINNATTI, OHIO

START
FINISH
DRILLER
HELPER
FILE

WATER LEVEL DATA				
	AT COMPLETION	12 HOURS ±	BEFORE BLOW OUT	AFTER BLOW OUT
DATE	7-11-83			
TIME				
WATER LEVEL	21.5'			
RECOVERY TIME:				



SCREEN:	2" DIA. .020" MESH
SAND FILTER:	COARSE SAND
DRILLING METHOD:	HOLLOW STEM AUGERS 3¼" I.D.
STANDPIPE LENGTH/DIA.	5' x 4" DIA.

SALISBURY ENGINEERING
1501 E. MAIN STREET, GRIFFITH, IND.

BORING NO. MW15

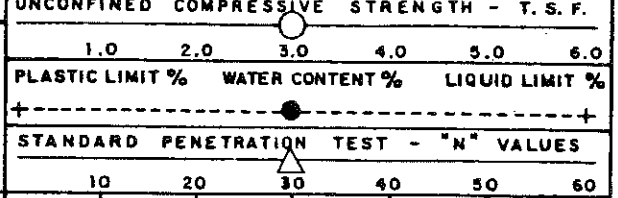
WATER LEVEL DATA		
17.0 FT. W.D.	STARTED 7/11/83	LOCATION CARSTAB FACILITY
18.7 FT. 7/20/83	COMPLETED SAME	GROUND WATER STUDY
___ FT. ___ HR. A.D.	DRILLER PM	CINCINNATI, OHIO
	HELPER	CLIENT THIOKOL/CARSTAB CORPORATION
___ FT. ___ HR. A.D.	FILE NO. 6342	CINCINNATI, OHIO

GROUND ELEVATION: 563.88

STRATA DEPTH	SOIL DESCRIPTION	DEPTH	TYPE	RECOVERY %	NUMBER	UNIT DRY WT. LBS./FT.³
1.0	POSSIBLE FILL					
	MEDIUM TO STIFF BROWN SANDY SILT, TRACES OF CLAY, POSSIBLE FILL	2.5		72	1	
		5.0		72	2	
		7.5		72	3	
7.7	MEDIUM DENSE BROWN SILTY SAND, TRACES OF GRAVEL GRADING TO SOME GRAVEL	10.0		67	4	
		12.5		89	5	
		15.0		89	6	
		▼(WD) 17.5		72	7	
		20.0		89	8	
		22.5		11	9	
23.5	VERY STIFF GRAY CLAY (CONTINUED)	25.0		94	10	

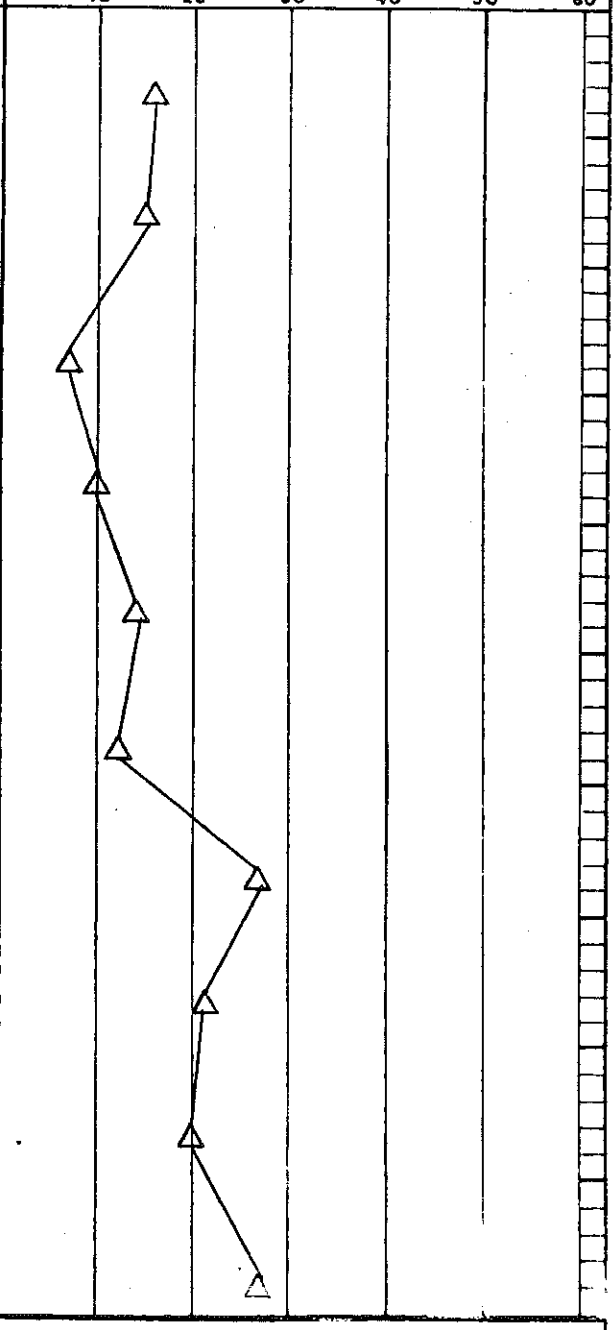
SAMPLE DATA

UNCONFINED COMPRESSIVE STRENGTH - T.S.F.



PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %

STANDARD PENETRATION TEST - "N" VALUES



NOTES:

LEGEND:
-SPLIT SPOON, -SHELBY TUBE, -PISTON, -AUGER, -ROCK CORE, -CALIBRATED PENETROMETER
W.D.- WHILE DRILLING, A.D. - AFTER DRILLING.

THE "N" VALUES IN THE STANDARD PENETRATION TEST ARE BLOWS PER FOOT REQUIRED TO DRIVE A 2" O.D. SPLIT SPOON SAMPLER USING A 140 POUND WEIGHT FALLING FREE FOR A DISTANCE OF 30".

SALISBURY ENGINEERING
1501 E. MAIN STREET, GRIFFITH, IND.

BORING NO. MW 15

FILE NO. 6342

STRATA DEPTH	SOIL DESCRIPTION (CONTINUED FROM 22.5')	DEPTH	SAMPLE DATA: TYPE	RECOVERY	NUMBER	UNIT DRY WT. LBS./FT.³
		22.5				
23.5	MEDIUM DENSE BROWN SILTY SAND, TRACES OF GRAVEL GRADING TO SOME GRAVEL					
	VERY STIFF GRAY CLAY	25.0		94	10	
				94	11	
27.5		27.5				
	BORING ENDED AT 27.5'					
		30.0				

UNCONFINED COMPRESSIVE STRENGTH – T.S.F.

1.0 2.0 3.0 4.0 5.0 6.0

PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %

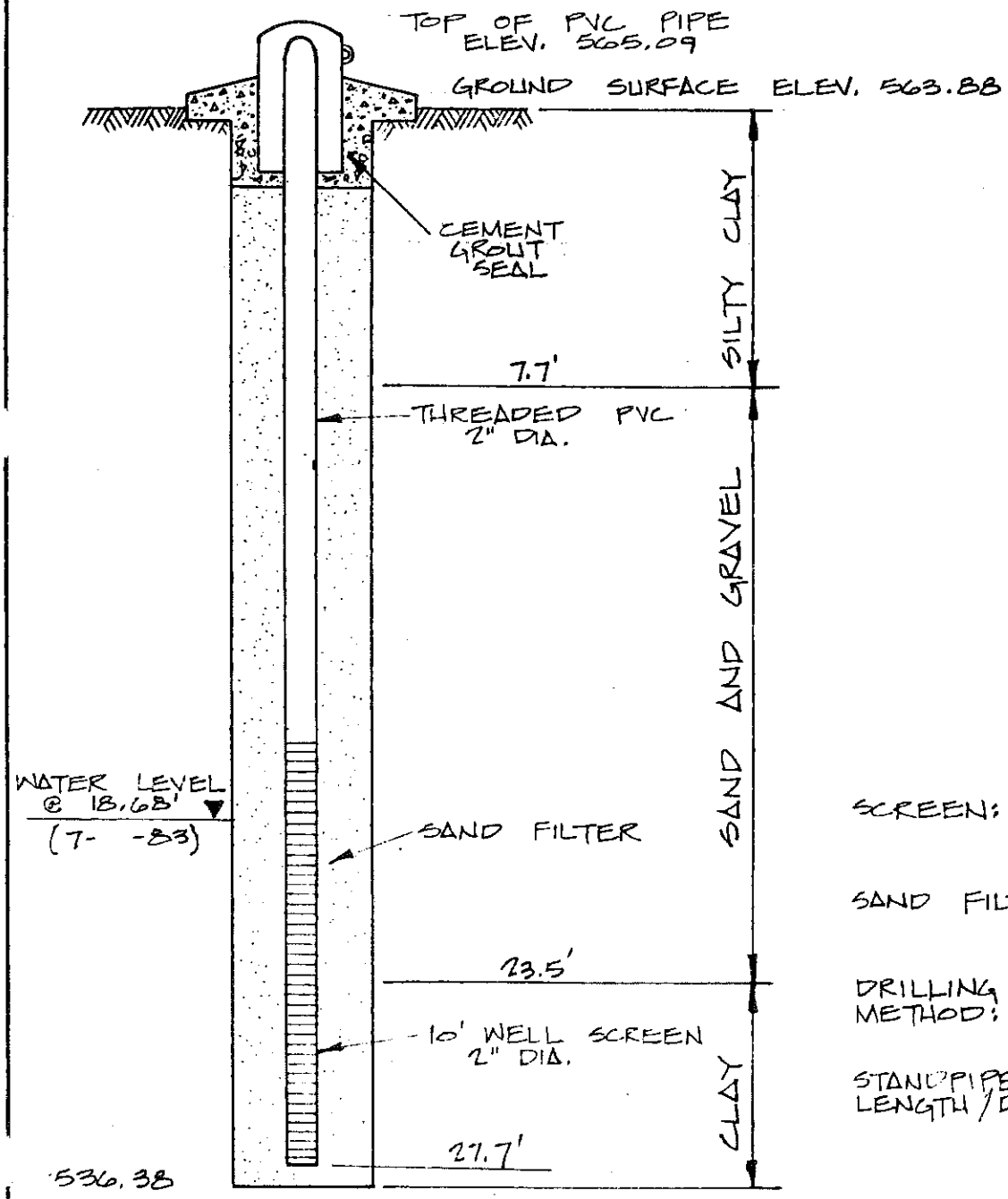
STANDARD PENETRATION TEST – "N" VALUES

10 20 30 40 50 60

SALISBURY/ATEC 1501 EAST MAIN STREET GRIFFITH, INDIANA	MONITORING WELL NO. MW15

PROJECT	CARSTAB FACILITY GROUND WATER STUDY CINCINNATTI, OHIO	START FINISH DRILLER
CLIENT	CARSTAB CORPORATION CINCINNATTI, OHIO	HELPER FILE

WATER LEVEL DATA				
	AT COMPLETION	12 HOURS ±	BEFORE BLOW OUT	AFTER BLOW OUT
DATE	7-11-83			
TIME				
WATER LEVEL	17.0'			
RECOVERY TIME:				



SCREEN:	2" DIA. .020" MESH
SAND FILTER:	COARSE SAND
DRILLING METHOD:	HOLLOW STEM AUGERS 3¼" I.D.
STANDPIPE LENGTH / DIA.	5' x 4" DIA.

SALISBURY ENGINEERING
1501 E. MAIN STREET, GRIFFITH, IND.

BORING NO. MW16

WATER LEVEL DATA		
22.5 FT. W.D.	STARTED 7/12/83	LOCATION CARSTAB FACILITY
22.0 FT. 7/20/83	COMPLETED SAME	GROUND WATER STUDY
	DRILLER PM	CINCINNATI, OHIO
FT. HR. A.D.	HELPER	CLIENT THIOKOL/CARSTAB CORPORATION
FT. HR. A.D.	FILE NO. 6342	CINCINNATI, OHIO

GROUND ELEVATION: 562.88

STRATA DEPTH	SOIL DESCRIPTION	DEPTH	SAMPLE DATA: TYPE	RECOVERY %	NUMBER	UNIT DRY WT. LBS./FT.³
	STIFF DARK BROWN TOPSOIL AND SANDY SILT, FILL					
2.5	STIFF BROWN SANDY, SILTY CLAY	2.5				
		5.0				
6.5	MEDIUM TO VERY DENSE BROWN SILTY SAND AND GRAVEL	7.5				
		10.0				
		12.5				
		15.0		72	1	
		17.5		89	2	
18.5	MEDIUM CLAYEY SILT AND SILTY CLAY	20.0		72	3	
20.5	DENSE TO VERY DENSE GRAY SILTY SAND AND GRAVEL	22.5 (WD)		89	4	
	(CONTINUED)	25.0		89	5	

UNCONFINED COMPRESSIVE STRENGTH - T. S. F.
1.0 2.0 3.0 4.0 5.0 6.0

PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %

STANDARD PENETRATION TEST - "N" VALUES
10 20 30 40 50 60

61/12"

NOTES:

LEGEND:
-SPLIT SPOON, -SHELBY TUBE, -PISTON, -AUGER, -ROCK CORE, -CALIBRATED PENETROMETER
W.D.- WHILE DRILLING, A.D. - AFTER DRILLING.

THE "N" VALUES IN THE STANDARD PENETRATION TEST ARE BLOWS PER FOOT REQUIRED TO DRIVE A 2" O.D. SPLIT SPOON SAMPLER USING A 140 POUND WEIGHT FALLING FREE FOR A DISTANCE OF 30".

SALISBURY ENGINEERING INC.
1501 E. MAIN STREET, GRIFFITH, IND.

LOG OF TEST BORING NO. MW16

FILE NO. 6342

STRATA DEPTH	SOIL DESCRIPTION (CONTINUED FROM 22.5')	DEPTH	SAMPLE DATA: TYPE	RECOVERY	NUMBER	UNIT DRY WT. LBS./FT.³
		22.5				
	DENSE TO VERY DENSE GRAY SILTY, SAND AND GRAVEL	25.0		89	5	
26.0	STIFF TO VERY STIFF GRAY SILTY CLAY	27.5		72	6	
30.0		30.0		44	7	
	BORING ENDED AT 30.0'					

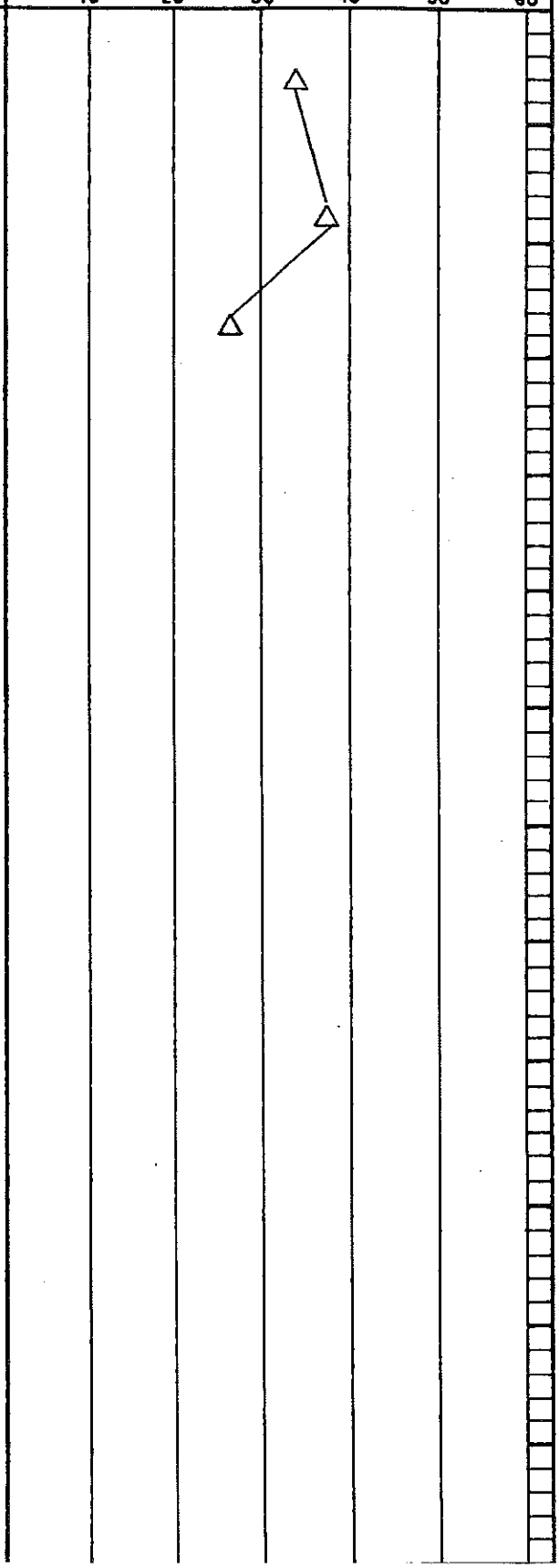
UNCONFINED COMPRESSIVE STRENGTH – T.S.F.

1.0 2.0 3.0 4.0 5.0 6.0

PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %

STANDARD PENETRATION TEST – "N" VALUES

10 20 30 40 50 60

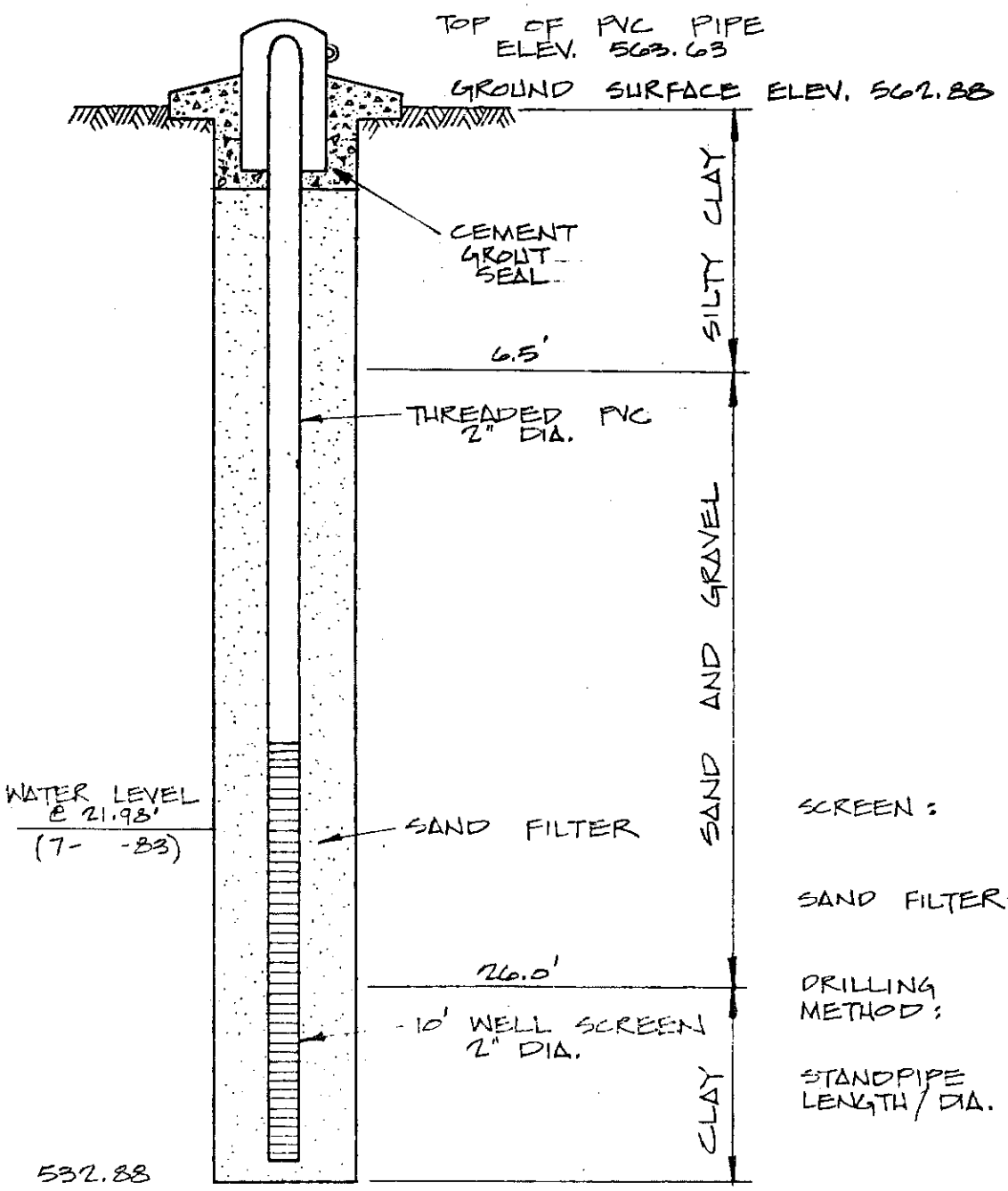


SALISBURY/ATEC 1501 EAST MAIN STREET GRIFFITH, INDIANA	MONITORING WELL NO. MW 16

PROJECT	CARSTAB FACILITY GROUND WATER STUDY CINCINNATTI, OHIO
CLIENT	CARSTAB CORPORATION CINCINNATTI, OHIO

START _____
FINISH _____
DRILLER _____
HELPER _____
FILE _____

WATER LEVEL DATA	AT COMPLETION	12 HOURS ±	BEFORE BLOW OUT	AFTER BLOW OUT
DATE	7-12-83			
TIME				
WATER LEVEL	22.5'			
RECOVERY TIME:				



SCREEN:	2" DIA. .010" MESH
SAND FILTER:	COARSE SAND
DRILLING METHOD:	HOLLOW STEM AUGERS 3¼" I.D.
STANDPIPE LENGTH / DIA.	5' x 4" DIA.

DRILLING LOG

State Ohio

Site Carstab

Boring No. E1

Drilling Firm H.C. Nutting Co.

Type of Drill CME 750

Driller J. D. Martin

Geologist Rod Bloese

Start Date January 6, 1981

Completion Date January 6, 1981

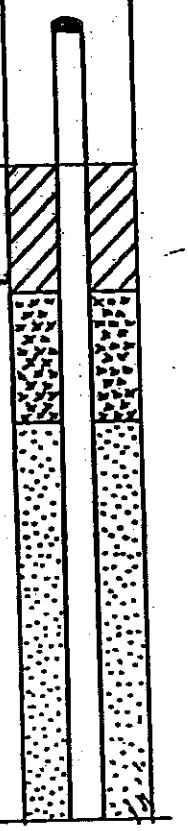
Ground El. 566.40

Groundwater El.
at completion

after ____ days

Total Depth of Boring 21.5

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
		Ground Surface				
	1	Dark brown silty clay	4 4 7	JAR 1	1-3/8" I.D. Split Spoon; 140 lb. Hammer; 30" Drop 3-1/4" I.D. Hollow Stem Auger	
	2					
	3	Brown sandy clay	2 2 3	JAR 2	Sand seam 3.0-3.5	
	4					
	5	Brown sandy clay with trace of fine gravel	2 4 5	JAR 3		
	6					
	7					
	8					
	9					



11/13/81

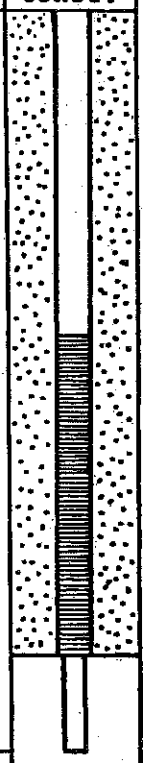
State Ohio

Boring No. E1

Site Carstab

Page 2 of 2

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
	11	Gray silty clay with trace of gravel	4 9 11	JAR 4		
	12					
	13					
	14					
	15					
	16	Grayish brown sand, fine to medium, with trace of fines	3 4 10	JAR 5		
	17					
	18					
	19					
	20					
	21	Grayish brown sand, coarse, with trace of fine gravel, maximum 1/2"	17 14 8	JAR 6		
	22				Bottom of hole 21.5	



11/13/81

DRILLING LOG

State: Ohio

Site: Carstab

Boring No.: E2

Drilling Firm: H.C. Nutting Co.

Type of Drill: CME 750

Driller: J. D. Martin

Geologist: Rod Bloese

Start Date: January 7, 1981

Completion Date: January 7, 1981

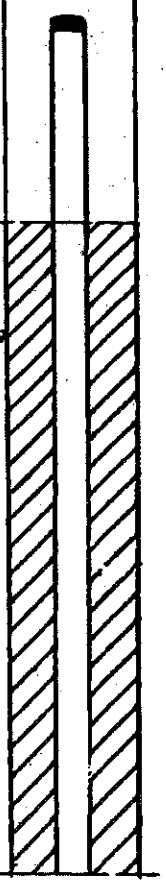
Ground El.: 563.31

Groundwater El.
at completion: 543.31 (20)

after ____ days ____

Total Depth of Boring: 27.0

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
		Ground Surface				
		Fill-Black clay/sand & f. gravel	3		1-3/8" I.D. Split Spoon, 140 lb. Hammer; 30" Drop 3-1/4" I.D. Hollow Stem Auger	
	1	Brown sandy clay with trace of gravel	4	JAR 1		
			4			
	2					
	3	Brown clayey sand	3	JAR 2		
			4			
	4		4			
	5					
		Brown sand, fine to medium, with trace of fine gravel	1	JAR 3		
	6		1			
			1			
	7					
	8					
	9					



11/13/81

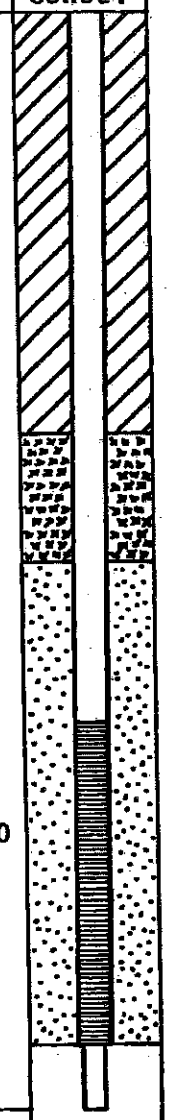
tate Ohio

Boring No. E2

Site Carstab

Page 2 of 2

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
	11	Brown sand, fine to medium, with trace of fine gravel	6 15 10	JAR 4		
	12					
	13					
	14					
	15	Brown sand, medium, with gravel	15 20 23	JAR 5		
	16					
	17					
	18					
	19					
	20	Gray sandy clay with trace of fine gravel (sand lenses)	3 7 7	JAR 6		
	21					
	22					
	23				Hit water at 23.0	
	24					
	25	Dark gray sand, coarse, with gravel	14 20	JAR 7		
	26	Brown silty clay with trace of fine gravel	16	JAR 8		
	27				Bottom of Hole 27.0	



11/13/81

DRILLING LOG

State: Ohio

Site: Carstab

Boring No.: E3

Drilling Firm: H.C. Nutting

Type of Drill: CME 750

Driller: J. D. Martin

Geologist: Rod Bloese

Start Date: January 7, 1981

Completion Date: January 8, 1981

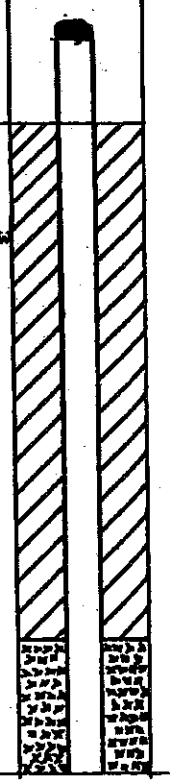
Ground El.: 553.88

Groundwater El.
at completion

after ____ days

Total Depth of Boring: 21.5

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
		Ground Surface				
		Fill-Gravel w/ clay, sand, silt	18		1-3/8" I.D. Split Spoon, 140 lb. Hammer, 30" Drop 3-1/4" I.D. Hollow Stem Auger	
	1	Gray clayey silt	9	JAR 1		
			3			
	2					
	3	Gray clayey sand, fine to medium	1	JAR 2		
			2			
	4		2			
	5					
		Gray silty sand, fine to medium with trace of gravel	2	JAR 3		
	6		3			
			7			
	7					
	8					
	9					



11/13/81

State Ohio

Boring No. E3

Site Carstab

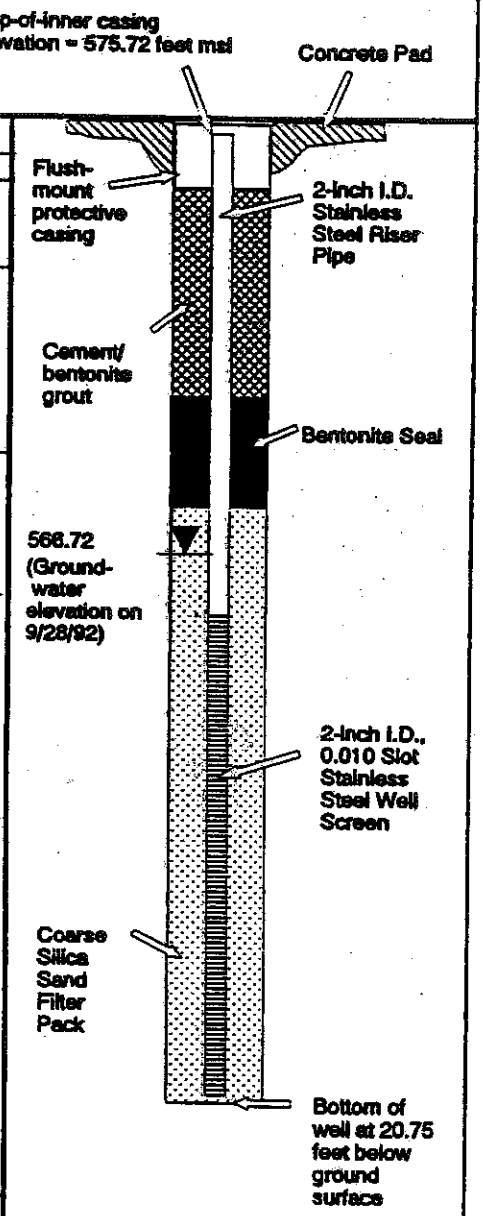
Page 2 of 2

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
	11	Dark gray sand, coarse to medium, with fine gravel, and trace of fines	10 14 14	JAR 4	Noticable Odor	
	12					
	13					
	14					
	15				Completed drilling on 1/7/81 at 15.0	
	16	Grayish brown silty clay with trace of fine gravel	6 9 13	JAR 5		
	17				Hit water at 17.5	
	18					
	19					
	20					
	21	Gray clayey silt with fine sand seams	6 13 30	JAR 6		
	22				Bottom of Hole 21.5	

11/13/81

Depth (feet)	Sample Interval	Percent Recovery	SPT blows/foot	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0					Asphalt pavement
					Brown silty fine to coarse sand and gravel; dry (FILL)
2		58	13		Brown clayey SILT with fine to coarse sand; slightly moist
4		67	8		Brown, clayey, fine to coarse SAND; slightly moist
6		83	4		grades with less clay
8		100	12		Light gray silty CLAY; trace fine gravel; 2-inch thick gray sand seam at 7.5 feet; moist
10		100	16		
12		92	15		Orange-brown SILT; trace clay; moist grades gray and clayey grades brown with fine sand; wet at 12 feet
14		100	18		grades gray and clayey
16		100	9		Gray silty CLAY; slightly moist; soft
18		100	9		
20		100	7		
22		100	11		
24					Boring completed at 21.0 feet (sampled to 23.0 feet) and monitoring well installed on 9/14/92.

MONITORING WELL CONSTRUCTION DETAILS



LEGEND:

☒ Split-spoon sample interval

SPT - Standard Penetration Test

Blows per foot - refers to the number of blows required to drive a 1.5-inch outer diameter split-spoon sampler a distance of 12 inches, using a 140-pound hammer falling 30".

USCS - Unified Soil Classification System

SOURCE: EPA, 1992

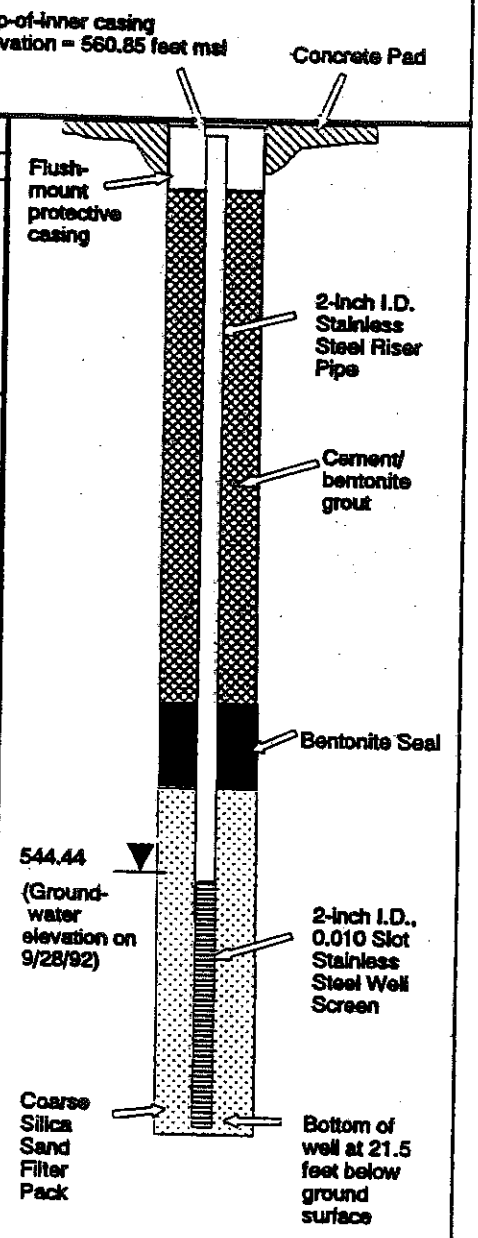
CARSTAB CORPORATION
CINCINNATI, OHIO

BORING LOG FOR
MONITORING WELL MW-EPA-2

PRC ENVIRONMENTAL MANAGEMENT, INC.

Depth (feet)	Sample Interval	Percent Recovery	SPT blows/foot	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0					Asphalt pavement
					Brown silty fine to coarse sand and gravel; dry (FILL)
2					Dark brown silty CLAY with sand and gravel; moist; (FILL)
4					
6	X	75	4		6-inch thick light gray silt seam at 5.5 feet
					Light brown fine to coarse SAND; trace fine gravel; dry
8					
10	X	67	18		sand grades fine to medium with no gravel
12	X	58	16		gardes with fine to coarse gravel
14	X	96	24		
16	X	80	14		grades wet at 17.5 feet
18	X	100	18		sand grades fine to coarse and dark gray
20	X				Oraqnge-brown clayey SILT; wet
22	X	75	18		Gray silty CLAY; trace coarse sand and fine gravel; moist
					Boring completed at 22 feet and monitoring well installed on 9/15/92.

MONITORING WELL CONSTRUCTION DETAILS



LEGEND:

Split-spoon sample interval

SPT - Standard Penetration Test

Blows per foot - refers to the number of blows required to drive a 1.5-inch outer diameter split-spoon sampler a distance of 12 inches, using a 140-pound hammer falling 30".

USCS - Unified Soil Classification System

SOURCE: EPA, 1992

CARSTAB CORPORATION
CINCINNATI, OHIO

BORING LOG FOR
MONITORING WELL MW-EPA-4

PRC ENVIRONMENTAL MANAGEMENT, INC.

Lower Aquifer Monitoring Wells Installed for the Pristine Superfund Site

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 3250
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW83-93
DATE COMPLETED: OCTOBER 27, 1993
DRILLING METHOD: CABLE TOOL
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	579.0 578.81					
	FILL	578.0	ROAD BOX				
-2.5	CL-SANDY CLAY, stiff, medium plasticity, light brown, moist – light brown with orange and red mottling		CONCRETE SEAL				
-5.0	CL-CLAY, some gravel and sand, stiff, medium plasticity, yellow andtan, moist	574.0	24"Ø BOREHOLE				
-7.5	– very stiff, tan with blue gray mottling		CEMENT/ BENTONITE GROUT				
-10.0	– brown		16"Ø STEEL CASING				
-12.5	CH-CLAY, trace gravel, very stiff, very plastic, gray with some brown, damp	568.0					
-15.0	ML/CL-CLAYEY SILT, little gravel, very stiff, low plasticity, gray, dry to damp	566.0					
-17.5	ML-SILT, very stiff, no plasticity, gray, saturated	563.0 562.5	10"Ø STEEL CASING				
	CH-CLAY, very stiff, very plastic, gray, damp	561.0					
-20.0	ML-SILT, very stiff, low plasticity, gray, damp	559.0					
-22.5	ML/CL-SILT, some clay, stiff, medium plasticity, blue gray to dark gray with black, moist	556.0	4"Ø STEEL CASING				
-25.0	CH/CL-CLAY, little silt, stiff, very plastic, gray, damp – damp to moist						
-27.5			14"Ø BOREHOLE				
-30.0	CH-CLAY, trace silt, medium stiff, extremetly plastic, gray, damp to moist	549.0					
-32.5			CEMENT/ BENTONITE GROUT				

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 3250
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW83-93
DATE COMPLETED: OCTOBER 27, 1993
DRILLING METHOD: CABLE TOOL
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
37.5			10"Ø STEEL CASING				
40.0							
42.5			14"Ø BOREHOLE				
45.0							
		533.0					
	CL-SILTY CLAY, very dense, very plastic, brown	532.5					
47.5	SM-SILTY SAND, very dense, brown, with orange, moist		CEMENT/ BENTONITE GROUT				
		530.0					
50.0	CL-SANDY CLAY, trace gravel, very dense, medium plasticity, brown, moist	529.0					
	SM-SILTY SAND, hard, brown, moist	528.5					
52.5	CL-CLAY (GLACIAL TILL), some gravel and sand, hard, brown with yellow, moist						
		525.0	4"Ø STEEL CASING				
55.0	ML-SILT, hard, no plasticity, brown with yellow, wet	524.0					
	SM/GC-SILTY SAND, some gravel with interbedded gravelly clay, very dense, brown with gray, moist						
57.5		521.5					
	CL-CLAY, some gravel and sand, hard, medium plasticity, brown with yellow, moist	521.0					
	ML-SILT, hard, no plasticity, olive green, damp						
60.0		519.0					
	CL-CLAY, some silt, hard, medium plasticity, blue gray, damp						
62.5							
65.0			8"Ø BOREHOLE				
67.5	- very stiff		CEMENT/ BENTONITE GROUT				

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 3250
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW83-93
DATE COMPLETED: OCTOBER 27, 1993
DRILLING METHOD: CABLE TOOL
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	ML/CL-CLAYEY SILT, very stiff, plastic, olive green, wet	508.0	8"Ø BOREHOLE				
72.5	– becomes green gray with depth						
75.0			4"Ø STEEL CASING				
77.5							
80.0			CEMENT BENTONITE GROUT				
82.5							
85.0							
87.5			BENTONITE PELLET SEAL				
	SM-SILTY SAND, dense, light brown, saturated	490.5					
90.0							
	GC-GRAVELLY CLAY, medium plasticity, gray, moist to wet	487.5					
92.5	SM-SILTY SAND, medium dense, light brown, saturated	487.0					
95.0	– very dense		SAND PACK				
97.5							
100.0			WELL SCREEN				
102.5	END OF HOLE @ 102.0 ft BGS NOTES: 1. Stratigraphy taken from BH7-93.	477.0					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 3250
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW83-93
DATE COMPLETED: OCTOBER 27, 1993
DRILLING METHOD: CABLE TOOL
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
107.5			**SCREEN DETAILS** Screened Interval: 95.0 to 100.0' BGS Length: 5.0' Diameter: 4.0" Slot Size: #10 Material: Stainless Steel Sand Pack: 92.0 to 102.0' BGS Material: # 7 Sand				
110.0							
112.5							
115.0							
117.5							
120.0							
122.5							
125.0							
127.5							
130.0							
132.5							
135.0							
137.5							

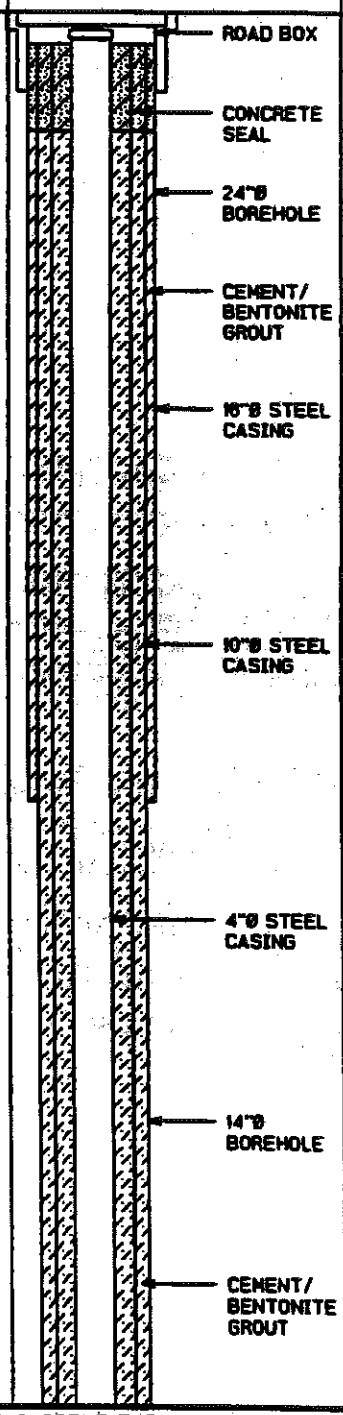
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE: REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 3250
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW84-93
DATE COMPLETED: OCTOBER 27, 1993
DRILLING METHOD: CABLE TOOL
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	579.3 579.20					
	FILL	578.3					
2.5	CL-SANDY CLAY, stiff, medium plasticity, light brown, moist - light brown with orange and red mottling						
5.0	CL-CLAY, some gravel and sand, stiff, medium plasticity, yellow andtan, moist	574.3					
7.5	- very stiff, tan with blue gray mottling						
10.0	- brown	568.3					
	CH-CLAY, trace gravel, very stiff, very plastic, gray with some brown, damp						
12.5	ML/CL-CLAYEY SILT, little gravel, very stiff, low plasticity, gray, dry to damp	566.3					
15.0							
	ML-SILT, very stiff, no plasticity, gray, saturated	563.3 562.8					
17.5	CH-CLAY, very stiff, very plastic, gray, damp	561.3					
	ML-SILT, very stiff, low plasticity, gray, damp						
20.0	ML/CL-SILT, some clay, stiff, medium plasticity, blue gray to dark gray with black, moist	559.3					
22.5	CH/CL-CLAY, little silt, stiff, very plastic, gray, damp	558.3					
25.0	- damp to moist						
27.5							
30.0	CH-CLAY, trace silt, medium stiff, extremetly plastic, gray, damp to moist	549.3					
32.5							



NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 3250
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW84-93
DATE COMPLETED: OCTOBER 27, 1993
DRILLING METHOD: CABLE TOOL
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
37.5			10"Ø STEEL CASING				
40.0							
42.5			14"Ø BOREHOLE				
45.0							
	CL-SILTY CLAY, very dense, very plastic, brown	533.3 / 532.8					
47.5	SM-SILTY SAND, very dense, brown, with orange, moist		CEMENT/ BENTONITE GROUT				
	CL-SANDY CLAY, trace gravel, very dense, medium plasticity, brown, moist	530.3 / 529.3					
50.0	SM-SILTY SAND, hard, brown, moist	528.8					
52.5	CL-CLAY (GLACIAL TILL), some gravel and sand, hard, brown with yellow, moist						
	ML-SILT, hard, no plasticity, brown with yellow, wet	525.3 / 524.3	4"Ø STEEL CASING				
55.0	SM/GC-SILTY SAND, some gravel with interbedded gravelly clay, very dense, brown with gray, moist						
57.5	CL-CLAY, some gravel and sand, hard, medium plasticity, brown with yellow, moist	521.8 / 521.3					
	ML-SILT, hard, no plasticity, olive green, damp						
60.0	CL-CLAY, some silt, hard, medium plasticity, blue gray, damp	519.3	8"Ø BOREHOLE				
62.5							
65.0			CEMENT/ BENTONITE GROUT				
67.5	- very stiff						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE: REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 3250
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW84-93
DATE COMPLETED: OCTOBER 27, 1993
DRILLING METHOD: CABLE TOOL
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	ML/CL-CLAYEY SILT, very stiff, plastic, olive green, wet	508.3	8"Ø BOREHOLE				
72.5	- becomes green gray with depth						
75.0							
77.5							
80.0			4"Ø STEEL CASING				
82.5							
85.0							
87.5							
	SM-SILTY SAND, dense, light brown, saturated	490.8					
90.0			CEMENT BENTONITE GROUT				
	GC-GRAVELLY CLAY, medium plasticity, gray, moist to wet	487.8					
92.5	SM-SILTY SAND, medium dense, light brown, saturated	487.3					
95.0	- very dense						
97.5							
100.0			BENTONITE PELLET SEAL				
102.5							

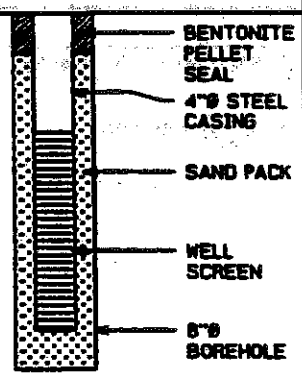
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE: REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 3250
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW84-93
DATE COMPLETED: OCTOBER 27, 1993
DRILLING METHOD: CABLE TOOL
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
107.5							
110.0							
112.5							
115.0	END OF HOLE @ 114.0 ft BGS NOTES: 1. Stratigraphy taken from BH7-93.	485.3					
117.5							
120.0							
122.5							
125.0							
127.5							
130.0							
132.5							
135.0							
137.5							



SCREEN DETAILS
Screened Interval:
108.0 to 113.0' BGS
Length: 5.0'
Diameter: 4.0"
Slot Size: #10
Material: Stainless Steel
Sand Pack:
106.0 to 114.0' BGS
Material: # 7 Sand

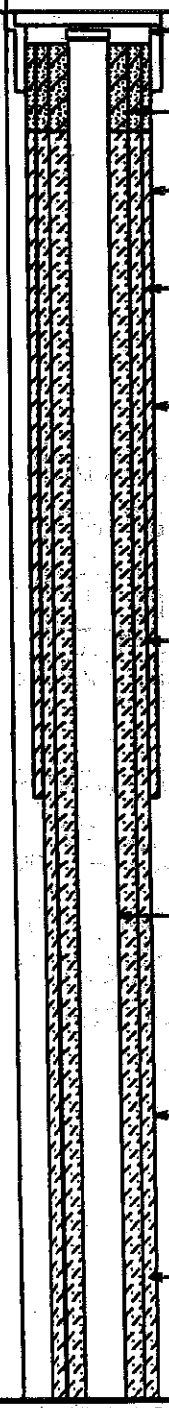
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE: REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 3250
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW85-93
DATE COMPLETED: OCTOBER 27, 1993
DRILLING METHOD: CABLE TOOL
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	579.4 579.24					
	FILL	578.4	ROAD BOX				
2.5	CL-SANDY CLAY, stiff, medium plasticity, light brown, moist - light brown with orange and red mottling		CONCRETE SEAL				
5.0	CL-CLAY, some gravel and sand, stiff, medium plasticity, yellow and tan, moist	574.4	24"Ø BOREHOLE				
7.5	- very stiff, tan with blue gray mottling		CEMENT/ BENTONITE GROUT				
10.0	- brown		16"Ø STEEL CASING				
12.5	CH-CLAY, trace gravel, very stiff, very plastic, gray with some brown, damp	568.4					
15.0	ML/CL-CLAYEY SILT, little gravel, very stiff, low plasticity, gray, dry to damp	566.4					
17.5	ML-SILT, very stiff, no plasticity, gray, saturated	563.4 562.9	10"Ø STEEL CASING				
	CH-CLAY, very stiff, very plastic, gray, damp	561.4					
	ML-SILT, very stiff, low plasticity, gray, damp						
20.0	ML/CL-SILT, some clay, stiff, medium plasticity, blue gray to dark gray with black, moist	559.4					
22.5	CH/CL-CLAY, little silt, stiff, very plastic, gray, damp	558.4	4"Ø STEEL CASING				
25.0	- damp to moist						
27.5			14"Ø BOREHOLE				
30.0	CH-CLAY, trace silt, medium stiff, extremetly plastic, gray, damp to moist	549.4					
32.5			CEMENT/ BENTONITE GROUT				



NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 3250
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW85-93
DATE COMPLETED: OCTOBER 27, 1993
DRILLING METHOD: CABLE TOOL
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
37.5			10"Ø STEEL CASING				
40.0							
42.5			14"Ø BOREHOLE				
45.0							
	CL-SILTY CLAY, very dense, very plastic, brown	533.4 / 532.9					
47.5	SM-SILTY SAND, very dense, brown, with orange, moist		CEMENT/ BENTONITE GROUT				
	CL-SANDY CLAY, trace gravel, very dense, medium plasticity, brown, moist	530.4 / 529.4					
50.0	SM-SILTY SAND, hard, brown, moist	528.9					
	CL-CLAY (GLACIAL TILL), some gravel and sand, hard, brown with yellow, moist						
52.5							
	ML-SILT, hard, no plasticity, brown with yellow, wet	525.4 / 524.4	4"Ø STEEL CASING				
55.0	SM/GC-SILTY SAND, some gravel with interbedded gravelly clay, very dense, brown with gray, moist						
57.5	CL-CLAY, some gravel and sand, hard, medium plasticity, brown with yellow, moist	521.9 / 521.4					
	ML-SILT, hard, no plasticity, olive green, damp						
60.0	CL-CLAY, some silt, hard, medium plasticity, blue gray, damp	519.4	8"Ø BOREHOLE				
62.5							
65.0			CEMENT/ BENTONITE GROUT				
67.5	– very stiff						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE: REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 3250
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW85-93
DATE COMPLETED: OCTOBER 27, 1993
DRILLING METHOD: CABLE TOOL
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	ML/CL-CLAYEY SILT, very stiff, plastic, olive green, wet	508.4	8"Ø BOREHOLE				
72.5	- becomes green gray with depth						
75.0							
77.5							
80.0							
82.5							
85.0			4"Ø STEEL CASING				
87.5							
	SM-SILTY SAND, dense, light brown, saturated	490.9					
90.0							
	GC-GRAVELLY CLAY, medium plasticity, gray, moist to wet	487.9					
92.5	SM-SILTY SAND, medium dense, light brown, saturated	487.4					
95.0	- very dense						
97.5							
100.0			CEMENT BENTONITE GROUT	ISS			
102.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 3250
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW85-93
DATE COMPLETED: OCTOBER 27, 1993
DRILLING METHOD: CABLE TOOL
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
107.5			CEMENT/ BENTONITE GROUT				
110.0	SM-SILTY SAND, brown	469.4	BENTONITE PELLET SEAL				
112.5							
115.0			4"Ø STEEL CASING	2SS	X		
117.5							
120.0	GP/GM-GRAVEL, trace silt, gray and blue	459.4	SAND PACK	3SS	X		
122.5							
125.0	CL-CLAY, gray	453.9	WELL SCREEN	4SS	X		
127.5							
130.0	CL/GC-CLAY with GRAVEL	449.4	BENTONITE PELLET SEAL	5SS	X		
132.5	GP-CLAY, little gravel	448.4					
135.0	SP/SM-SAND, gray and brown	444.9	8"Ø BOREHOLE	6SS	X		
137.5	CL-CLAY, gray and brown	442.4		7SS	—		
	BEDROCK, gray black	442.2					
	END OF HOLE @ 137.2 ft BGS	442.2					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 3250
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW85-93
DATE COMPLETED: OCTOBER 27, 1993
DRILLING METHOD: CABLE TOOL
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NOTES: 1. Stratigraphy from 0.0 to 102.0ft BGS taken from BH7-93.		SCREEN DETAILS Screened interval: 120.5 to 125.5' BGS Length: 5.0' Diameter: 4.0" Slot Size: #10 Material: Stainless Steel Sand Pack: 117.5 to 127.5' BGS Material: Natural				
142.5							
145.0							
147.5							
150.0							
152.5							
155.0							
157.5							
160.0							
162.5							
165.0							
167.5							
170.0							
172.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW86-94
DATE COMPLETED: JUNE 6, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	564.1 563.87					
2.5	Sandy loam, dark brown, dry, rootlets		ROAD BOX CONCRETE SEAL	1CS			
5.0	SC-CLAYEY SAND, medium plasticity, fine to medium grained, brown, moist	559.1					
7.5							
10.0	CL-CLAY (TILL), with gravel and sand, very firm, plastic, greenish gray, moist i=12 ML/SM-SANDY SILT (LACUSTRINE), firm, pasty, low plasticity, with some cohesiveness, green gray to brown, wet	554.8	2"Ø BLACK CARBON STEEL CASING	2CS			
12.5	– faint laminating (12.0 to 13.0 ft BGS)	551.1					
	CL-CLAY (TILL), some gravel and sand, occasional ¼" sand-rich seams, green brown to blue gray						
15.0	SP-SAND, fine to medium grained sand seam, loose, brown, wet	548.6 548.1					
17.5	CL-CLAY (TILL), some gravel and sand, occasional ¼" sand-rich seams, green brown to blue gray	545.6					
	SP-SAND, little silt, loose, medium to coarse grained, brown, wet	544.6					
20.0	SM-SAND, with silt, loose to firm, moderate to good cohesiveness, very fine to fine grained, poor plasticity, gray		6"Ø BOREHOLE	3CS			
22.5	– little gravel (20.0 to 24.8 ft BGS)						
25.0	SP-SAND, coarse, loose, brown	539.3 539.2					
	CL-CLAY (TILL), with gravel, some sand, soft to firm, blue gray	539.1 538.6					
27.5	SM-SILTY SAND, loose, gray, saturated						
	SP/SW-GRAVELLY SAND (OUTWASH), loose, coarse grained sand, moderately well graded, little or no fines, brown			4CS			
30.0			CEMENT/ BENTONITE GROUT				

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼ ((AUGUST 8, 1994))

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW86-94
DATE COMPLETED: JUNE 6, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE "N" VALUE	SAMPLE PID (ppm)
	- very gravelly, poorly graded			4CS			
35.0	CL-CLAY (TILL), with gravel and sand, hard, yellow brown and blue gray, dry	529.3					
	CH-CLAY (LACUSTRINE), extremely plastic, cohesive, varves or laminations present, dark green gray, damp	529.1					
37.5			2"Ø BLACK CARBON STEEL CASING				
40.0				5CS			
42.5							
45.0							
47.5							
50.0	CH/CL-CLAY (LACUSTRINE), with silt, alternating clay and silt laminations, soft to firm, very plastic, blue gray to green gray, moist	514.1		6CS			
52.5	CL-CLAY (TILL), with gravel and sand, firm to hard plastic, cohesive, green gray, damp	511.6	CEMENT/ BENTONITE GROUT				
55.0	- gray with various hues of green, blue and red						
57.5							
60.0				7CS			
62.5			6"Ø BOREHOLE				

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼ ((AUGUST 8, 1994))

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW86-94
DATE COMPLETED: JUNE 6, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	SP-SAND (OUTWASH), little silt, little gravel, some clay clasts, loose, predominately fine grained, brown gray, wet	499.1 498.1					
67.5	CL-CLAY (TILL), with gravel and sand, firm to hard, moderate to good permeability, green to green gray to blue gray, damp – sand seam (66.9 to 67.0 ft BGS) – occasional red and pink hue – sand seam, soft, plastic, very low permeability (68.5 to 69.0 ft BGS)						
70.0				8CS			
72.5			2"Ø BLACK CARBON STEEL CASING				
75.0	CL/OH-CLAY, some gravel and sand, abundant wood fragments, high % of organic matter, firm, to hard, dense, dark gray with black	489.1					
77.5	CL-CLAY (TILL). with gravel and sand, dense, occasional woody material, firm to hard, blue gray to green gray, blue gravel sized weathered material, moist	486.1					
80.0				9CS			
82.5							
85.0			CEMENT/ BENTONITE GROUT				
87.5							
90.0				10CS			
92.5							
95.0			6"Ø BOREHOLE	11CS			

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼ ((AUGUST 8, 1994))

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW86-94
DATE COMPLETED: JUNE 6, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
100.0			2"Ø BLACK CARBON STEEL CASING				
102.5							
105.0							
	CH/CL-CLAY (LACUSTRINE), little silt, very plastic, varves, throughout, blue gray to green gray, damp to moist	458.1	CEMENT/ BENTONITE GROUT	11CS			
107.5							
	ML-SILT (LACUSTRINE), with clay, soft to firm, faint laminations, blue gray and green brown	455.1					
110.0		454.1					
	CL-CLAY (LACUSTRINE), some silt, varved, blue gray and green brown becoming green brown, partially lithified	453.1					
112.5	SP/SM-SAND, with silt, some gravel, loose, fine grained, dark green and gray, saturated, distinct odor	452.1	6"Ø BOREHOLE				
115.0	SP-SAND, little silt, little gravel, loose, medium grained, dark green and gray, wet - distinct odor - light green gray with brown hue		BENTONITE PELLET SEAL				
117.5							
120.0	SM/ML-SILTY SAND, some clay, trace to little gravel, dense, very fine grained, crumbly, low permeability, light brown, moist to wet, distinct odor - faint color laminations	444.1	STAINLESS STEEL CASING (128.0 TO 131.0 ft BGS)	12CS			
122.5							
125.0	SP/SM-SAND, some silt, medium dense, fine to medium grained, some cohesiveness, weak crush strength, moderate permeability, light green gray, wet to saturated, slight odor	439.1	WELL SCREEN				
127.5				13CS			
	SM-SAND, with silt and clay, some well rounded gravel, higher crush strength, wet	435.6	SAND PACK				

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼ ((AUGUST 8, 1994))

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW86-94
DATE COMPLETED: JUNE 6, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	CL-CLAY (TILL), gravelly with sand, stiff, cohesive, sticky, brown with gray mottling, moist	435.1	SAND PACK				
132.5	- very hard, dry			13CS			
135.0							
	SHALE, limestone cobbles directly above bedrock, poor shaley cleavage, dark blue gray, dry	428.1	6"Ø BOREHOLE	14CS			
137.5	END OF HOLE @ 137.0 ft BGS	427.1					
140.0							
142.5							
145.0							
147.5							
150.0							
152.5							
155.0							
157.5							
160.0							

NOTES:
1. Grain size analysis:
   - 120.0 to 125.0 ft BGS.
   - 125.0 to 125.0 ft BGS.

SCREEN DETAILS
Screened Interval:
123.0 to 128.0' BGS
Length: 5.0'
Diameter: 2.0"
Slot Size: #10
Material: Stainless Steel
Sand Pack:
120.5 to 137.0' BGS
Material: # 20-40 Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼ ((AUGUST 8, 1994))

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW87-94
DATE COMPLETED: JUNE 15, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	584.1 583.73					
	Loam, clay, sand, organic matter, dark brown to black - loose, dark brown, dry, roots throughout		ROAD BOX CONCRETE SEAL				
2.5	- firm (4.0 to 5.0 ft BGS)						
5.0	SP-SAND (OUTWASH), with pea to cobble sized gravel, well rounded, little silt, loose, fine to medium grained sand, brown, dry	559.1					
7.5							
10.0			2"Ø BLACK CARBON STEEL CASING				
12.5							
15.0	GP-SANDY GRAVEL (OUTWASH), little silt, loose, poorly graded, brown, dry	549.1 548.1					
17.5	SP-SAND (OUTWASH), with gravel, little silt, loose, fine to medium grained sand, brown, dry						
20.0			6"Ø BOREHOLE				
	GP-SANDY GRAVEL (OUTWASH), little silt, loose, medium to coarse grained sand, brown, wet	543.1 542.1					
22.5	ML-CLAYEY SILT (LACUSTRINE), sticky, varves, dark brown, moist	541.6 541.1					
25.0	SP-GRAVELLY SAND, some silt, loose, brown gray, wet						
	CL-CLAY (TILL), with gravel and sand, firm, good plasticity, cohesive, brown, moist						
27.5	- blue gray (23.5 to 32.7 ft BGS)						
30.0			CEMENT/ BENTONITE GROUT				
32.5	SP-SAND, with silt, some gravel, loose, no plasticity, green gray, wet	531.4 531.1					
35.0	CL-CLAY (TILL), with gravel and sand, firm, green gray	529.6					
	SM-SILTY SAND, very fine grained, pasty, green gray, wet						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW87-94
DATE COMPLETED: JUNE 15, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
40.0	CL-CLAY (TILL), with gravel and sand, very firm, plastic, cohesive, gray with green and blue, damp to moist	528.6	2"Ø BLACK CARBON STEEL CASING				
42.5							
45.0	SP/GP-SAND and GRAVEL (OUTWASH), very loose, fine to coarse gravel, medium to coarse sand, brown and gray, saturated	519.1					
47.5							
50.0	ML-CLAYEY SILT (LACUSTRINE), firm, varved, green gray with occasional black thoroughout, wet	514.6					
52.5			CEMENT/ BENTONITE GROUT				
55.0							
57.5	CL-CLAY (TILL), with gravel and sand, very firm, gray with green and blue, moist	508.1					
60.0	ML-SILT (LACUSTRINE), some sand and clay, very fine grained, varved, green gray, wet	505.6					
62.5	CL-CLAY (TILL), with gravel and sand, firm, gray with green and blue becoming brown, moist	501.6	6"Ø BOREHOLE				
65.0	SM-SILTY SAND, dense, very fine grained, crumbly, brown, wet	500.6					
67.5							
70.0	GC-CLAYEY GRAVEL (TILL), with sand, firm, brown with orange, moist	494.1					
72.5	- decrease in clay content (71.0 to 71.5 ft BGS)	492.6	2"Ø BLACK CARBON STEEL CASING				
	CL-CLAY (TILL), with gravel and sand, very firm, gray with green and blue, damp to moist						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW87-94
DATE COMPLETED: JUNE 15, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
77.5							
80.0			CEMENT/ BENTONITE GROUT				
82.5							
85.0	- wood material throughout (85.0 to 97.0 ft BGS)						
87.5							
90.0			6"Ø BOREHOLE				
92.5							
95.0							
97.5	CH-CLAY (LACUSTRINE), trace silt, very plastic, varves, blue gray, damp	487.1	BENTONITE PELLET SEAL				
100.0	ML-SILT (LACUSTRINE), some clay, varved, blue gray with yellow brown luminations, moist	484.6 / 484.1					
102.5	SM/SP-SILTY SAND, loose, fine grained, gray brown, saturated		STAINLESS STEEL CASING (100.0 TO 105.0 ft BGS)				
	SP/SM-SAND, with silt, dense, fine to medium grained, orange brown, saturated	481.1					
105.0	SP-SAND (OUTWASH), some silt, dense, fine to medium grained, brown	459.1	WELL SCREEN				
107.5			SAND PACK				
110.0	END OF HOLE @ 110.0 ft BGS	454.1					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW87-94
DATE COMPLETED: JUNE 15, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NOTES: 1. Stratigraphy taken from MW89-94. 2. Grain size analysis: - 120.0 to 125.0 ft BGS. - 125.0 to 125.0 ft BGS.		**SCREEN DETAILS** Screened interval: 105.0 to 110.0' BGS Length: 5.0' Diameter: 2.0" Slot Size: #10 Material: Stainless Steel Sand Pack: 100.0 to 110.0' BGS Material: # 20-40 Sand				
115.0							
117.5							
120.0							
122.5							
125.0							
127.5							
130.0							
132.5							
135.0							
137.5							
140.0							
142.5							
145.0							
147.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW88-94
DATE COMPLETED: JUNE 14, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	584.1 583.87					
2.5	Loam, clay, sand, organic matter, dark brown to black - loose, dark brown, dry, roots throughout - firm (4.0 to 5.0 ft BGS)		ROAD BOX CONCRETE SEAL				
5.0	SP-SAND (OUTWASH), with pea to cobble sized gravel, well rounded, little silt, loose, fine to medium grained sand, brown, dry	559.1					
7.5							
10.0			2"Ø BLACK CARBON STEEL CASING				
12.5							
15.0	GP-SANDY GRAVEL (OUTWASH), little silt, loose, poorly graded, brown, dry	549.1					
	SP-SAND (OUTWASH), with gravel, little silt, loose, fine to medium grained sand, brown, dry	548.1					
17.5							
20.0			6"Ø BOREHOLE				
	GP-SANDY GRAVEL (OUTWASH), little silt, loose, medium to coarse grained sand, brown, wet	543.1					
22.5	ML-CLAYEY SILT (LACUSTRINE), sticky, varves, dark brown, moist	542.1 541.8					
	SP-GRAVELLY SAND, some silt, loose, brown gray, wet	541.1					
25.0	CL-CLAY (TILL), with gravel and sand, firm, good plasticity, cohesive, brown, moist - blue gray (23.5 to 32.7 ft BGS)						
27.5							
30.0			CEMENT/ BENTONITE GROUT				
32.5	SP-SAND, with silt, some gravel, loose, no plasticity, green gray, wet	531.4 531.1					
35.0	CL-CLAY (TILL), with gravel and sand, firm, green gray	529.6					
	SM-SILTY SAND, very fine grained, pasty, green gray, wet						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 8195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW88-94
DATE COMPLETED: JUNE 14, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	CL-CLAY (TILL), with gravel and sand, very firm, plastic, cohesive, gray with green and blue, damp to moist	528.6	2"Ø BLACK CARBON STEEL CASING				
40.0							
42.5							
45.0	SP/GP-SAND and GRAVEL (OUTWASH), very loose, fine to coarse gravel, medium to coarse sand, brown and gray, saturated	519.1					
47.5							
50.0	ML-CLAYEY SILT (LACUSTRINE), firm, varved, green gray with occasional black thoroughout, wet	514.8	CEMENT/ BENTONITE GROUT				
52.5							
55.0							
	CL-CLAY (TILL), with gravel and sand, very firm, gray with green and blue, moist	508.1					
57.5							
	ML-SILT (LACUSTRINE), some sand and clay, very fine grained, varved, green gray, wet	505.6					
60.0							
62.5	CL-CLAY (TILL), with gravel and sand, firm, gray with green and blue becoming brown, moist	501.6					
	SM-SILTY SAND, dense, very fine grained, crumbly, brown, wet	500.6	6"Ø BOREHOLE				
65.0							
67.5							
70.0	GC-CLAYEY GRAVEL (TILL), with sand, firm, brown with orange, moist	494.1					
	- decrease in clay content (71.0 to 71.5 ft BGS)	492.8					
72.5	CL-CLAY (TILL), with gravel and sand, very firm, gray with green and blue, damp to moist						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE: REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW88-94
DATE COMPLETED: JUNE 14, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
77.5			2"Ø BLACK CARBON STEEL CASING				
80.0							
82.5							
85.0	- wood material throughout (85.0 to 97.0 ft BGS)						
87.5							
90.0			CEMENT/ BENTONITE GROUT				
92.5							
95.0							
97.5	CH-CLAY (LACUSTRINE), trace silt, very plastic, varves, blue gray, damp	467.1					
100.0	ML-SILT (LACUSTRINE), some clay, varved, blue gray with yellow brown luminations, moist	464.6 / 464.1					
102.5	SM/SP-SILTY SAND, loose, fine grained, gray brown, saturated						
	SP/SM-SAND, with silt, dense, fine to medium grained, orange brown, saturated	461.1					
105.0	SP-SAND (OUTWASH), some silt, dense, fine to medium grained, brown	459.1					
107.5			8"Ø BOREHOLE				
110.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW88-94
DATE COMPLETED: JUNE 14, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
115.0	- little silt, trace gravel		CEMENT/ BENTONITE GROUT				
117.5							
120.0	- some gravel		BENTONITE PELLET SEAL				
122.5							
125.0	- orange brown		6"Ø BOREHOLE				
127.5			SAND PACK				
130.0			STAINLESS STEEL CASING (128.0 TO 131.0 ft BGS)				
132.5							
135.0			WELL SCREEN				
137.5							
140.0			NATIVE MATERIAL				
142.5							
145.0	SP/GP-GRAVELLY SAND, little silt, loose, medium to coarse sand and gravel, dark brown to red, saturated	419.6 / 419.1	6"Ø BOREHOLE				
147.5	END OF HOLE @ 145.0 ft BGS						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW88-94
DATE COMPLETED: JUNE 14, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NOTES: 1. Stratigraphy taken from MW89-94. 2. Grain size analysis: - 130.0 to 135.0 ft BGS.		SCREEN DETAILS Screened Interval: 131.0 to 136.0' BGS Length: 5.0' Diameter: 2.0" Slot Size: #10 Material: Stainless Steel Sand Pack: 126.0 to 136.0' BGS Material: # 20-40 Sand				
152.5							
155.0							
157.5							
160.0							
162.5							
165.0							
167.5							
170.0							
172.5							
175.0							
177.5							
180.0							
182.5							
185.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW89-94
DATE COMPLETED: JUNE 8, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	563.0 563.66					
2.5	Loam, clay, sand, organic matter, dark brown to black – loose, dark brown, dry, roots throughout – firm (4.0 to 5.0 ft BGS)		ROAD BOX CONCRETE SEAL	1CS			ND
5.0	SP-SAND (OUTWASH), with pea to cobble sized gravel, well rounded, little silt, loose, fine to medium grained sand, brown, dry	558.9					
7.5							
10.0			2"Ø BLACK CARBON STEEL CASING	2CS			ND
12.5							
15.0	GP-SANDY GRAVEL (OUTWASH), little silt, loose, poorly graded, brown, dry	548.9 547.9					
17.5	SP-SAND (OUTWASH), with gravel, little silt, loose, fine to medium grained sand, brown, dry			3CS			ND
20.0			6"Ø BOREHOLE				
22.5	GP-SANDY GRAVEL (OUTWASH), little silt, loose, medium to coarse grained sand, brown, wet ML-CLAYEY SILT (LACUSTRINE), sticky, varves, dark brown, moist	542.9 541.9 541.4		4CS			ND
25.0	SP-GRAVELLY SAND, some silt, loose, brown gray, wet CL-CLAY (TILL), with gravel and sand, firm, good plasticity, cohesive, brown, moist	540.9					
27.5	– blue gray (23.5 to 32.7 ft BGS)						
30.0				5CS			ND
32.5	SP-SAND, with silt, some gravel, loose, no plasticity, green gray, wet	531.2 530.9	CEMENT/ BENTONITE GROUT				
35.0	CL-CLAY (TILL), with gravel and sand, firm, green gray SM-SILTY SAND, very fine grained, pasty, green gray, wet	529.4		6CS			ND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6185
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW89-94
DATE COMPLETED: JUNE 8, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	CL-CLAY (TILL), with gravel and sand, very firm, plastic, cohesive, gray with green and blue, damp to moist	528.4	2"Ø BLACK CARBON STEEL CASING	6CS			ND
40.0							
42.5							
45.0	SP/GP-SAND and GRAVEL (OUTWASH), very loose, fine to coarse gravel, medium to coarse sand, brown and gray, saturated	518.9					
47.5							
50.0	ML-CLAYEY SILT (LACUSTRINE), firm, varved, green gray with occasional black thoroughout, wet	514.8					
52.5			CEMENT/ BENTONITE GROUT				
55.0				7CS			ND
	CL-CLAY (TILL), with gravel and sand, very firm, gray with green and blue, moist	507.9					
57.5							
	ML-SILT (LACUSTRINE), some sand and clay, very fine grained, varved, green gray, wet	505.4					
60.0							
62.5	CL-CLAY (TILL), with gravel and sand, firm, gray with green and blue becoming brown, moist	501.4					
	SM-SILTY SAND, dense, very fine grained, crumbly, brown, wet	500.4	6"Ø BOREHOLE				
65.0							
67.5							
70.0	GC-CLAYEY GRAVEL (TILL), with sand, firm, brown with orange, moist	493.9		8CS			ND
	- decrease in clay content (71.0 to 71.5 ft BGS)	492.4					
72.5	CL-CLAY (TILL), with gravel and sand, very firm, gray with green and blue, damp to moist						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW89-94
DATE COMPLETED: JUNE 8, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
77.5			CEMENT/ BENTONITE GROUT				
80.0				8CS			ND
82.5							
85.0	- wood material throughout (85.0 to 97.0 ft BGS)						
87.5							
90.0							
92.5				9CS			ND
95.0			6"Ø BOREHOLE				
97.5	CH-CLAY (LACUSTRINE), trace silt, very plastic, varves, blue gray, damp	488.9					
100.0	ML-SILT (LACUSTRINE), some clay, varved, blue gray with yellow brown luminations, moist	484.4 / 483.9					
	SM/SP-SILTY SAND, loose, fine grained, gray brown, saturated						
102.5	SP/SM-SAND, with silt, dense, fine to medium grained, orange brown, saturated	480.9					
105.0	SP-SAND (OUTWASH), some silt, dense, fine to medium grained, brown	458.9		10CS			ND
107.5			2"Ø BLACK CARBON STEEL CASING				
110.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW89-94
DATE COMPLETED: JUNE 8, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
115.0	- little silt, trace gravel		CEMENT/ BENTONITE GROUT	10CS			ND
117.5							
120.0	- some gravel						
122.5							
125.0	- orange brown			11CS			ND
127.5							
130.0							
132.5							
135.0			6"Ø BOREHOLE				
137.5							
140.0							
142.5			2"Ø BLACK CARBON STEEL CASING	12CS			ND
145.0	SP/GP-GRAVELLY SAND, little silt, loose, medium to coarse sand and gravel, dark brown to red, saturated	419.4					
147.5	SP-SAND, with fine to coarse gravel, little silt, medium grained	417.4	BENTONITE PELLET SEAL				70

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

PROJECT NAME: PRISTINE
PROJECT NUMBER: 6195
CLIENT: PRISTINE TRUST
LOCATION: READING, OHIO

HOLE DESIGNATION: MW89-94
DATE COMPLETED: JUNE 8, 1994
DRILLING METHOD: ROTOSONIC
CRA SUPERVISOR: R. BETHEL

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GP-SANDY GRAVEL, little to some clay and silt, loose, fine to medium grained sand, gray to brown, saturated -slight odor	412.9	BENTONITE PELLET SEAL SAND PACK	12CS			ND
152.5							
155.0	GP/SP-GRAVEL and SAND, little silt, subrounded to rounded gravel, fine to coarse, very permeable, brown, gray	408.9					
157.5			WELL SCREEN				
160.0				13CS			ND
162.5	CL-SILTY CLAY (LACUSTRINE) hard, varved, blue gray to green gray and brown, damp	401.4 400.9	BENTONITE PELLET SEAL				
	SHALE, soft, gray, shaley cleavage		6"Ø BOREHOLE				
165.0	END OF HOLE @ 165.0 ft BGS NOTES: 1. Grain size analysis: - 155.0 to 160.0 ft BGS.	398.9					
167.5							
170.0							
172.5							
175.0							
177.5							
180.0							
182.5							
185.0							

SCREEN DETAILS
Screened interval:
155.0 to 160.0' BGS
Length: 5.0'
Diameter: 2.0"
Slot Size: #10
Material: Stainless Steel
Sand Pack:
152.0 to 161.0' BGS
Material: # 20-40 Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼

APPENDIX F

1980 MILL CREEK ANALYTICAL RESULTS

FINAL REPORT

PROJECT NO. 310-03

Mill Creek Leachate

I. Introduction

The sample labelled 310-03 (#1) was received from Bill Barrow of the Ohio EPA on the 9th of June, 1980 by James R. Dahlgran. The sample consisted of a quart size jar containing approximately 200 milliliters of a gray liquid.

The samples labelled 310-03 (#2) were received from Bill Barrow of the Ohio EPA on the 12th of June, 1980 by James R. Dahlgran. The sample labelled #2 consisted of two quart size jars each containing ∿700 ml of water.

II. Scope of the Analysis

The analysis procedure was to determine the organic compounds present in the water samples.

III. Extraction of the Water Samples

The sample labelled 310-03 (#1) contained only 150 ml of extractable water. It was determined that more water was needed for a more complete screen. The sample labelled 310-03 (#2) was submitted for this reason.

One liter of the water sample labelled 310-03 (#2) was filtered and collected in a 2000 ml separatory funnel. The initial pH of the water was recorded as pH7. The water sample was extracted three times with 60 ml of dichloromethane. The solvent was collected, dried by passing through a column of anhydrous sodium sulfate and collected in a 500 ml K-D apparatus. The solvent was condensed to approximately 15 ml.

The water sample was made basic (∿pH 11) by adding 6N sodium hydroxide. The water was again extracted three times with 60 ml of dichloromethane. The solvent was collected, dried by passing it through a column of anhydrous sodium sulfate and combined with the neutral extract. The solvent was condensed to a final volume of 3.0 ml. Metallic mercury was added to the sample to eliminate the sulfur present.

The water sample was made acidic (pH∿1) by adding 6N hydrochloric acid. The water was extracted three times with 60 ml of dichloromethane. The solvent was collected, dried by passing through a column of anhydrous sodium sulfate and collected in a 500 ml K-D apparatus. The solvent was condensed to a final volume of 3.0 ml. Metallic mercury was added to the sample to eliminate the sulfur present.

One liter of deionized water was extracted in the same manner as the sample to serve as a control.

Attachment to: Thiokol, Inc., Interoffice Memo from R.J. Neubert to C.L. Adams, 7/31/80

IV. GC/MS Analysis

A. Experimental

D_{10} anthracene at a level of 40 ng/µl was introduced into each sample. One microliter of each of the extracts was injected onto a GC/MS system equipped with a 30 meter SE-54 capillary column. The following chromatographic conditions were set:

Initial temp:	50°C	Linear flow rate:	~30cm/sec
Initial hold:	5 min	Split:	Grob injection returning to 1:20 split after 0.5 min
Initial rate:	2°C/min		
Intermediate temp:	150°C	Sweep:	1:10
Final rate:	4°C/min		
Final temp:	250°C		
Final hold:	10 min.		

The mass spectrometer was scanning 35 to 500 amu in two records. Data were collected for 1½ hours.

B. Results

Chromatograms of the following samples are included for reference.

310-03 (#2) Base Neutral Extract
310-03 (#2) Acid Extract
310-03 (#2) B/N Control
310-03 (#2) Acid Control.

C. Discussion

The following is a list of compounds identified in the Base Neutral Extract of 310-03 (#2):

scan no.	compound
124	toluene
147	tetrachloroethene (background)
140	N,N-diethyl acetamide
159	cyclohexanone
245	1-(1,1-dimethyl ethyl)-3-azetidinol
260	tetramethyl pentanone
283	benzenamine
297	pheriol
321	tent. 1-(2-methoxy-1-methylethoxy)-2-propanol
356	dichlorobenzene
371	trimethylcyclohexanone

IV. GC/MS Analysis (Cont.)

C. Discussion

scan no.	compound
396	trimethylcyclohexanone
419	N-methylbenzenamine
450	methylphenol
~~481~~ 485	tent. substituted tetrahydro pyranone
526	trimethyl cyclohexenone
547	N-ethylbenzenamine
557	phosphoric acid triethylester
569	(tent.) trimethyl bicyclo(2.2.1)heptanone
576	(tent.) trimethyl bicyclo(2.2.1)heptanone
596	trimethyl-1,3-pentanediol
610	mixed spectrum
629	trimethyl bicyclo(3.1.1)heptanone
651	1-(methylphenyl)ethanone
667	cyclohexen-1-methanol
678	substituted cyclohexanone
725	ethyl-1,3-hexanediol
740	ethyl-1,3-hexanediol
773	4-phenyl-2-butanone
778	substituted phenol
849	1,2-bis(chloroethoxy)ethane
879	alcohol $C_{10}H_{22}O_4$
886	$C_{10}H_{22}O_4$ alcohol
892	$C_{10}H_{22}O_4$ alcohol
899	$C_{10}H_{22}O_4$ alcohol
920	dimethyl-hexanol
953	1,3-cyclohexanedione
965	tent. aminobenzoic acid ester
986	N-ethyl-N-phenyl acetamide
1017	(tent.) N-benzoyl-L-analine methylester
1042	(tent.) N-phenyl acetamide
1119	hydrocarbon
1201	dihydro-4-methyl-1H-indole
1220	hydrocarbon
1225	hydrocarbon
1244	(1,1'-bicyclohexyl)-2-one
1249	3-(phenylamino)propanenitrile
1258	hydrocarbon
1289	2-cyclohexylidine cyclohexanone
1294	hydrocarbon
1318	2-cyclohexylidene-cyclohexanone
1414	substituted cyclohexanone
1425	phthalic acid diethylester

IV. GC/MS Analysis (Cont.)

C. Discussion

scan no.	compound
1430	hydrocarbon
1466	2 methylbenzenesulfonamide
1515	hydrocarbon
1527	tent. $C_{10}H_{11}O_3N$
1533	substituted benzene possibly with S group
1539	hydrocarbon
1590	hydrocarbon
1695	D_{10} anthracene (internal standard)
1703	dichloroproduct mw≥249
1795	2,2'-diol-(1,1'-biphenyl)
1804	2,2'-diol-(1,1'-biphenyl)
1877	tent. (2,4-dihydroxyphenyl)phenylmethanone
1912	phthalic acid dibutylester
1914	possibly substituted cyclohexanthiol
1941	tent. 7 hydroxy-4-methyl-2H-1-benzopyran-2-one
2017	substituted benzene
2122	hydrocarbon
2187	tent. $C_{15}H_{21}ON$ substituted phenol
2283	tent. substituted N-propyl benzamide
2311	triphenyl phosphinoxide
2328	phthalic acid diisooctylester

The following is a list of compounds identified in 310-03 (#2) acid fraction:

scan no.	compound
286	phenol
613	alcohol
668	benzoic acid
881	$C_{10}H_{22}O_3$ substituted cyclohexanemethanol
1050	tent. butoxybutanoic acid
1198	hydrocarbon
1370	tent. acid ester possibly mixed spectra
1419	hydrocarbon
1575	hydrocarbon
1682	D_{10} anthracene (internal standard)
1715	siloxane
1783	(1,1'-biphenyl)-diol
1925	(tent.) 7 hydroxy-4-methyl-2H-1-benzopyran-2-one

The base neutral and acid controls reflected phthalic acid diisooctylester as an interference.

V. Conclusions

The sample labelled 310-03 (#2) received from Bill Barrow of the Ohio EPA on the 9th of June, 1980 by James R. Dahlgran was found to contain mainly hydrocarbon. The base/neutral fraction contained the largest number of compounds. Molecular sulfur was found to be a major interference in the analysis. Relatively few halogenated compounds were identified.

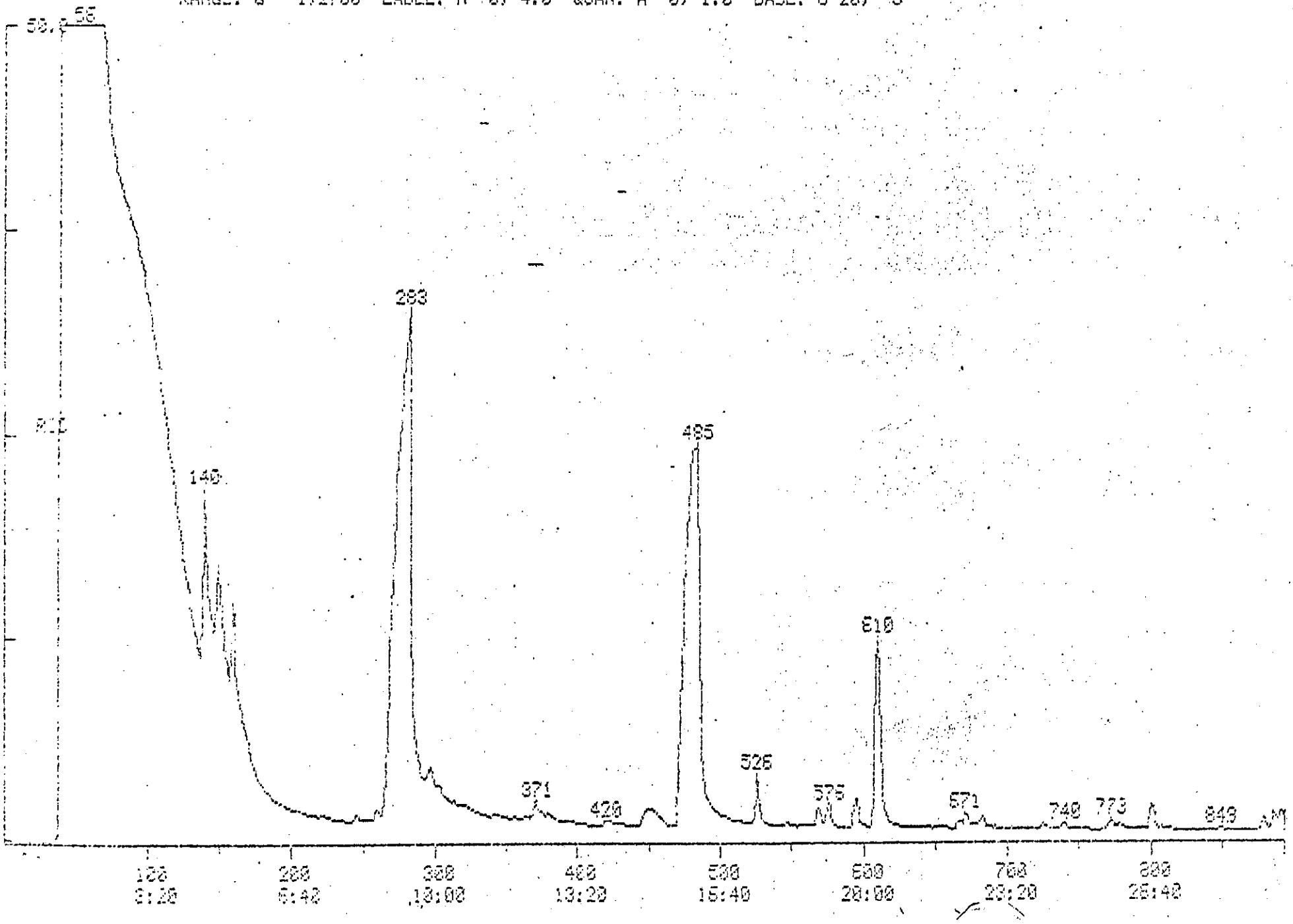
All data have been recorded on magnetic tape purchased by the Ohio EPA. Unless directed otherwise, the tape will be maintained for 90 days after which time it will be released to the Ohio EPA for archival storage.

This analysis is intended to give a rapid screen of the organic compounds present in the sample. In no way is this analysis intended to represent a priority pollutant analysis.

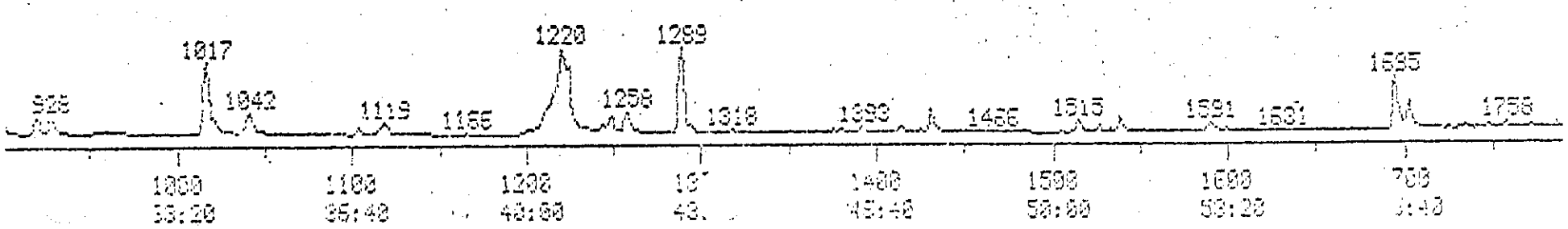
RIC
05/16/80 11:05:00
SAMPLE: 310-03 (#2) B/N WITH 40NG/UL D10 ANTHRACENE
RANGE: G 1.2700 LABEL: N 0, 4.0 QUAN: A 0, 1.0 BASE: U 20, 3

DATA: 31003F #2326
CALI: 0516A #1

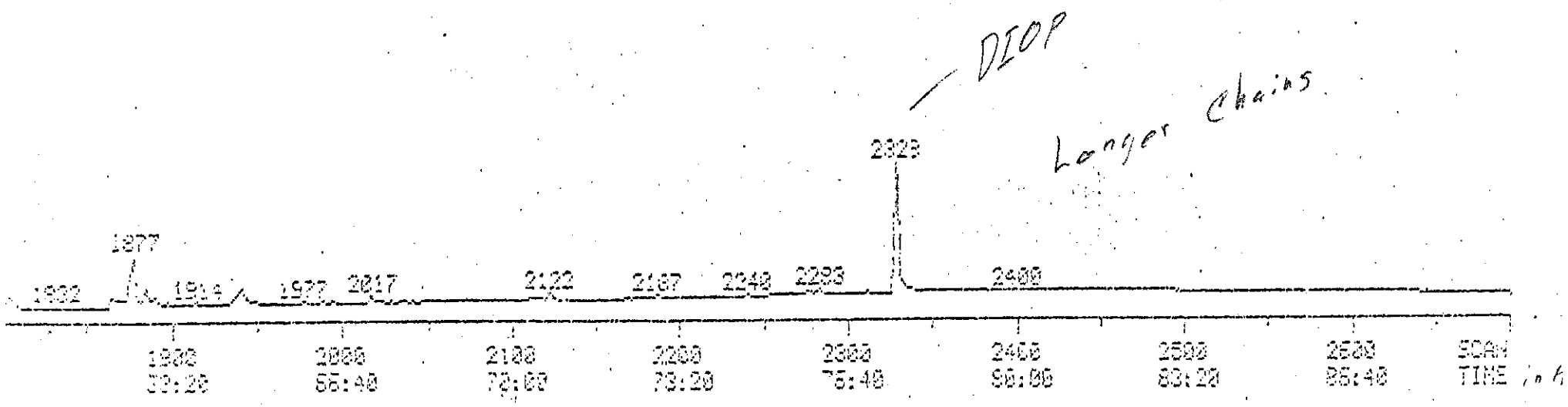
SCANS 1 T. 301
OUT OF 1 TO 2700



RIC DATA: 31003F #2328 SCANS 901 TO 1901
05/15/90 11:05:00 CALI: 0516A #1 OUT OF 1 TO 2700
SAMPLE: 310-03 (#2) B/N WITH 40NG/UL D10 ANTHRACENE
RANGE: G 1,2700 LABEL: N 0, 4.0 QUAN: A 0, 1.0 BASE: U 20, 3



RIC
06/15/88 11:06:00
SAMPLE: 310-03 (#2) B/N WITH 40NG/UL D10 ANTHRACENE
RANGE: G 1,2700 LABEL: N 0, 4.0 QUAN: A 0, 1.0 BASE: U 20, 3

DATA: 31003F #2323 SCANS 1801 TO 0
CALI: 0515A #1 OUT OF 1 TO 2700

1054710