
**GAF PARKING LOT SITE
SUPPLEMENTAL PHASE II INVESTIGATION**

**GAF CORPORATION
Wayne, New Jersey**

MAY 1995

**MALCOLM PIRNIE, INC.
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1.0 EXECUTIVE SUMMARY

The GAF Parking Lot Site is located north of and adjacent to the Anitec Image Corporation (Anitec) facility in Binghamton, New York (Figure 1-1). A Phase I Investigation conducted in 1986 to evaluate the potential environmental or public health hazards posed by landfilling at the site produced a preliminary Hazard Ranking System (HRS) score of $S_m = 27.11$. A Phase II Investigation conducted in 1990 included sample collection and analysis and resulted in a final HRS score of $S_m = 23.00$. Following completion of the Phase II Investigation, a work plan for conducting a Supplemental Phase II Investigation was prepared, revised, and subsequently implemented in cooperation with the New York State Department of Environmental Conservation (NYSDEC).

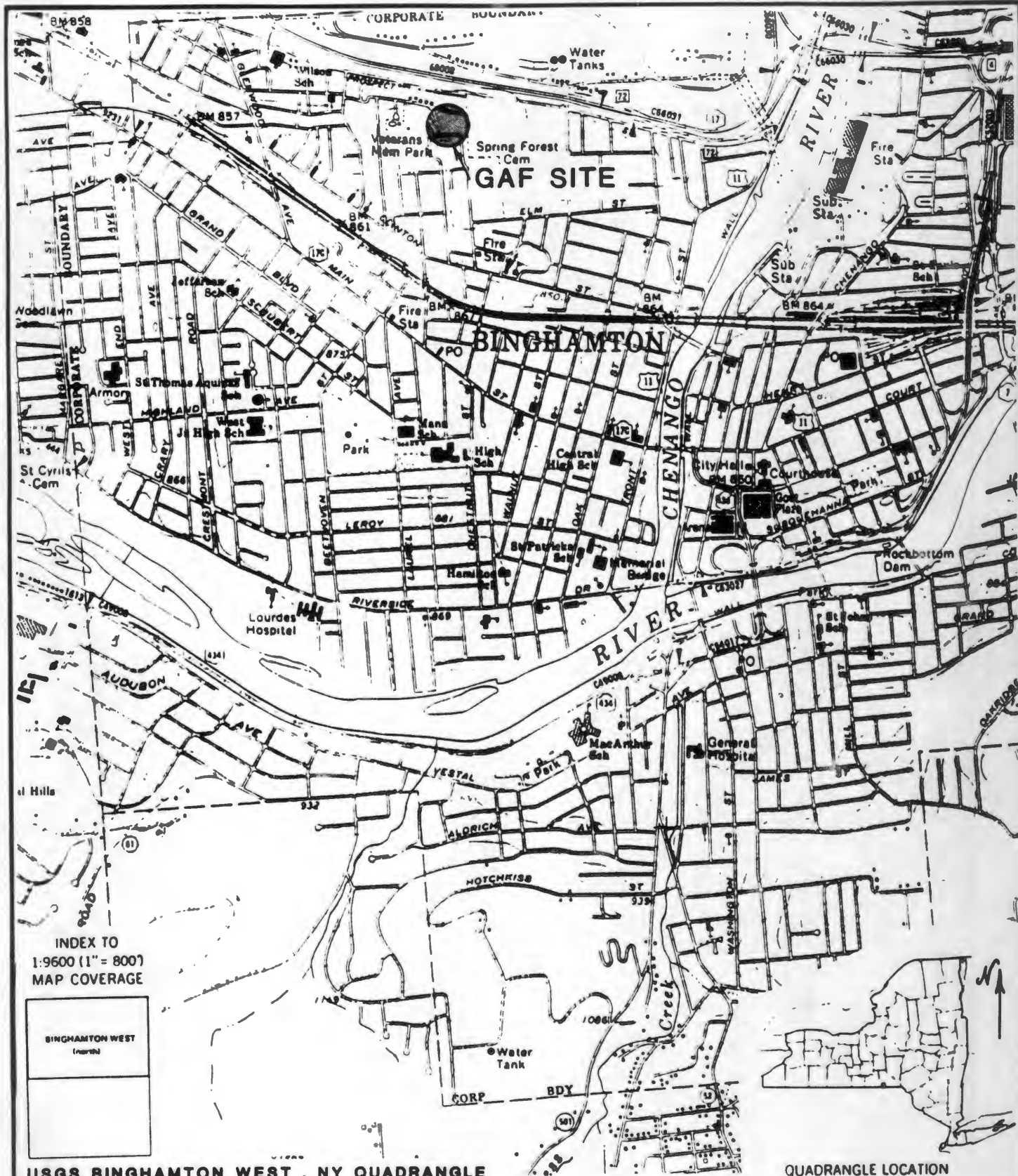
The purposes of the Supplemental Phase II Investigation were to provide the additional data necessary to determine if hazardous waste disposal occurred at the GAF Parking Lot Site and to determine if the site represents a significant threat to the environment or public health. The data required to make these determinations were collected by:

- Performing a magnetometer survey.
- Collecting and analyzing soil gas and shallow groundwater samples.
- Sampling and analyzing existing monitoring wells.
- Excavating test trenches and pits.
- Sampling and analyzing soils and other excavated fill material.
- Advancing test borings.

The collected data were evaluated in conjunction with data collected during previous investigations at the site and the Hazard Ranking System Score for the site was recalculated.

Evaluation of the collected data revealed the following important facts:

- The site is underlain by several geologic deposits that serve as confining layers that inhibit vertical migration of contaminants and separate shallow groundwater at the site from the Clinton Street-Ballpark Aquifer. One of the deposits is peat, which is an excellent attenuator of many contaminants and will serve to further inhibit migration of contaminants.
- Some samples of fill from the site contained volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and elevated inorganics. None of the samples contained more than 10 ppm of total volatiles, which is



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SITE LOCATION MAP

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FIGURE 1-1

the limit for the soil cleanup objectives listed in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #HWR-94-4046. A few of the samples contained more than 500 ppm total SVOCs, which is the TAGM cleanup objective. The inorganics that were found to be elevated when compared to commonly occurring levels were zinc, copper and silver.

- One sample of the fill contained greater than 50 ppm of PCBs. The PCB contamination appears localized. It is recommended that the extent of the PCBs at the site be defined, and the contaminated area remediated.
- The SVOCs, including PCBs, and inorganics in the fill are not mobile in the environment and were not detected in groundwater.
- Groundwater at the site contains relatively low levels of VOCs. The VOC contamination appears to be localized.
- The recalculated HRS score for the site is 24, indicating that the site does not pose a significant threat to human health or the environment. This conclusion is supported by previous HRS-score calculations performed in 1986 and 1990.

2.0 PURPOSE

The purposes of this Supplemental Phase II Investigation are to provide the additional data necessary to determine whether hazardous waste disposal pursuant to 6 NYCRR Part 371 has occurred at the GAF Parking Lot Site, and to determine if the site is a significant threat to the environment or public health under 6 NYCRR Part 375.

The goals of the supplemental investigation were to determine if any hazardous compounds are present in soil or groundwater at the site and to prepare a revised Hazard Ranking System (HRS) Score for the site, incorporating the additional data collected during this investigation.

3.0 SCOPE OF WORK

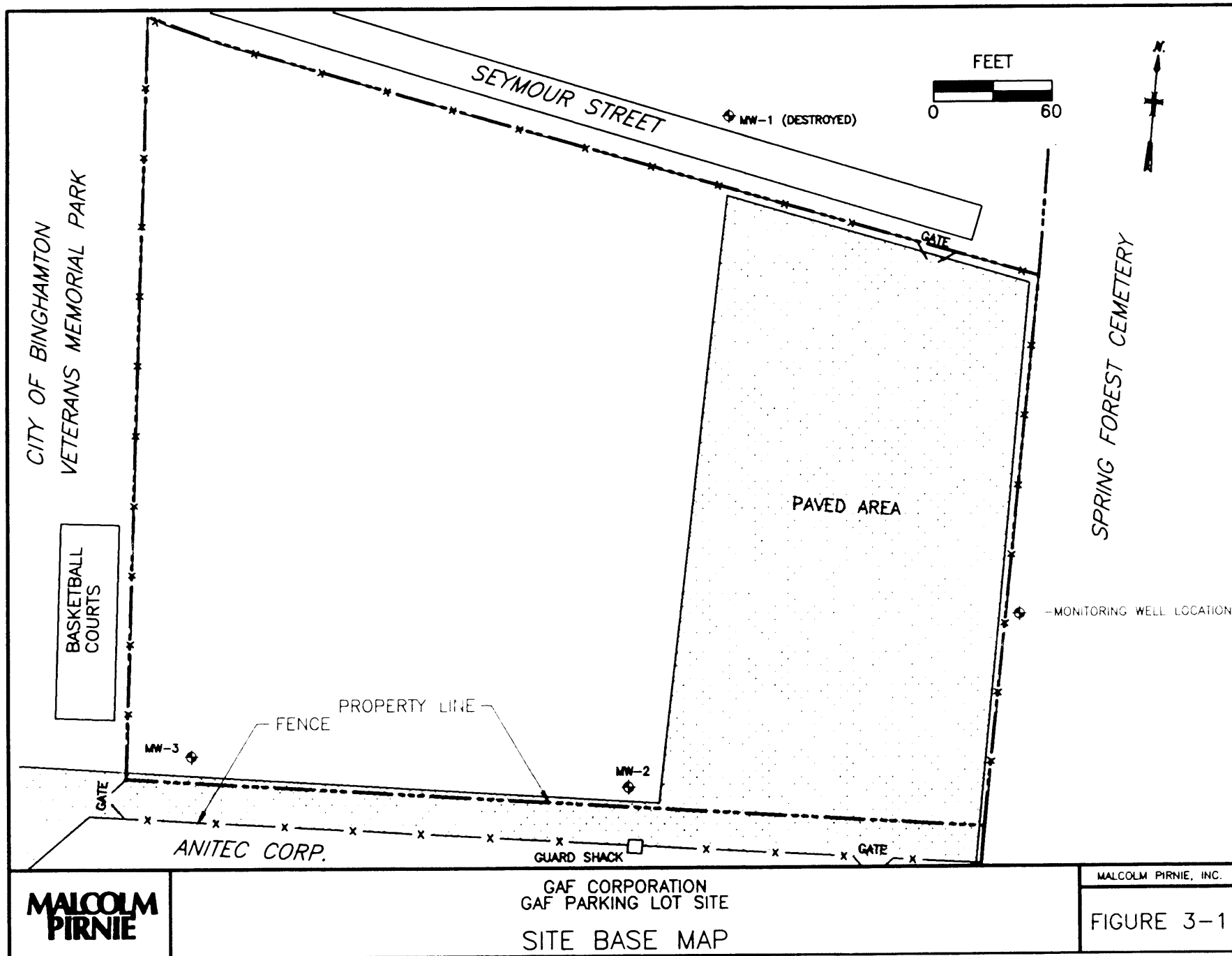
3.1 GENERAL

The GAF Parking Lot Site is located north of and adjacent to the Anitec Image Corporation (Anitec) facility in Binghamton, New York (Figure 1-1), and encompasses approximately 2.8 acres. The surface of the eastern third of the site is paved with asphalt, while the rest of the site is covered with weeds and brush (Figure 3-1). Historical information, including a circa-1940 City of Binghamton map, shows that the site was formerly part of a low-lying, bowl-shaped marsh that covered an area of about six acres (Figure 3-2). This figure shows that the original land surface was higher on the north, east, and south sides of the site and generally sloped toward the west in the direction of the center of the marsh. Fill was added to the entire site for leveling prior to construction of the parking lot. The period when fill was added is unclear. Historical data show that the area was not filled circa 1940, but by 1955 filling was well underway. Filling was still occurring in 1965; however, by 1977, filling was completed. The fill is thickest in the central and southwestern portion of the site, since the original topography was lower in this area.

The site is located in a mixed commercial and residential neighborhood. To the west of the site is Veteran's Memorial Park, to the north is Seymour Street and an adjacent residential area, to the east is Spring Forest Cemetery, and to the south is the Anitec Corporation manufacturing facility.

Wehran Engineering conducted a Phase I Investigation for the New York State Department of Environmental Conservation (NYSDEC) in 1986 to evaluate the potential environmental or public health hazards posed by landfilling at the site. The investigation consisted of reviewing available information for the site and conducting a site visit, and concluded that further investigation of the site was warranted. A preliminary Hazard Ranking System (HRS) score for the site was calculated to be $S_m = 27.11$.

A Phase II Investigation was conducted for the NYSDEC by Gibbs & Hill, Inc., and was completed in 1990. The investigation consisted of performing a terrain conductivity survey, installing three monitoring wells, collecting and analyzing soil and groundwater samples from the site, and calculating a final HRS score. The sampling locations are shown on Figure 3-3. The terrain conductivity survey detected an area of higher subsurface conductivity in the southwest portion of the site. Analytical results for the samples showed



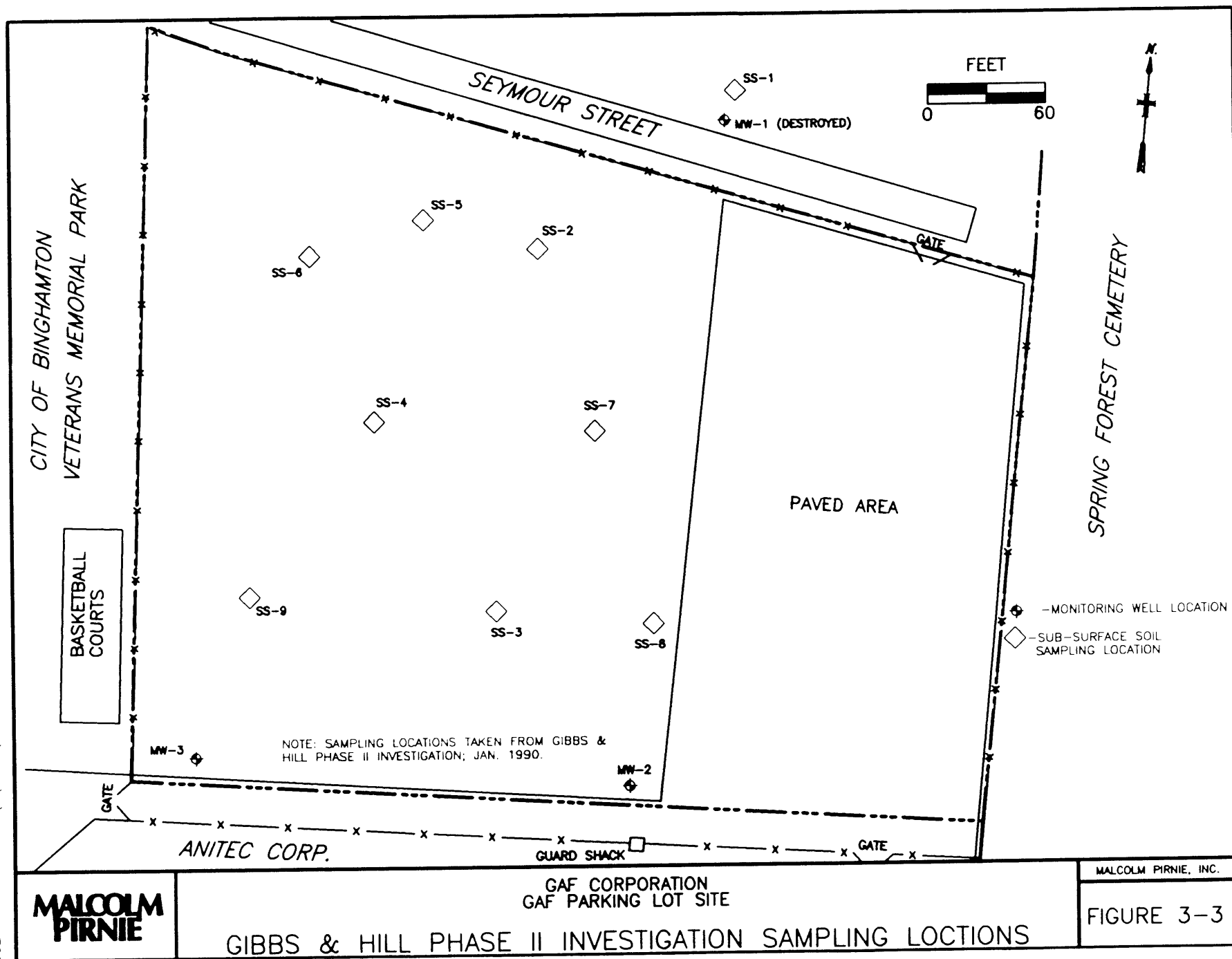


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GAF PARKING LOT SITE
SITE LOCATION CIRCA 1940

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FIGURE 3-2



that none of the samples met the criteria for hazardous wastes; however, chloroethane, 2-butanone, and 1,2-dichloroethane were detected in downgradient groundwater samples. Gibbs & Hill initially hypothesized that these chemicals were released to the groundwater from the site; however, the site soils had not been tested for the presence of these chemicals. The results for the soil samples showed that lead was the only inorganic constituent that "appears to be in a slightly higher concentration than expected in the soil" (Gibbs & Hill, 1990). The final HRS score for the site was calculated to be $S_m = 23.00$.

According to the NYSDEC, the Gibbs & Hill Phase II Investigation did not meet its goal of determining if any significant environmental or public health hazard was posed by the site. Therefore, the NYSDEC determined that additional Phase II work should be performed and a work plan for conducting a Supplemental Phase II Investigation was prepared by a NYSDEC consultant. The work plan was sent to GAF with an offer to allow GAF to implement the tasks included in the work plan. GAF accepted the NYSDEC offer and retained Malcolm Pirnie, Inc. (Malcolm Pirnie) to review the NYSDEC work plan, suggest appropriate work plan modifications, and, after NYSDEC review and concurrence, implement the approved work plan. The alternative Supplemental Phase II Investigation included the following tasks:

- Site Reconnaissance
- Performing a Magnetometer Survey
- Sampling Soil Gas and Shallow Groundwater
- Sampling Existing Monitoring Wells
- Excavating Test Pits and Trenches
- Preparing a Final Hazard Ranking System (HRS) Score.

An additional task, consisting of drilling two test borings to confirm the thickness of the fill material at the site, was later added to the scope of work at the request of the NYSDEC. The following subsections describe the Supplemental Phase II Investigation work tasks in more detail.

3.2 MAGNETOMETER SURVEY

A magnetometer survey using a Geometrics G846 portable magnetometer was performed at the site on May 9, 1994 to help locate buried ferrous metal objects. Prior to

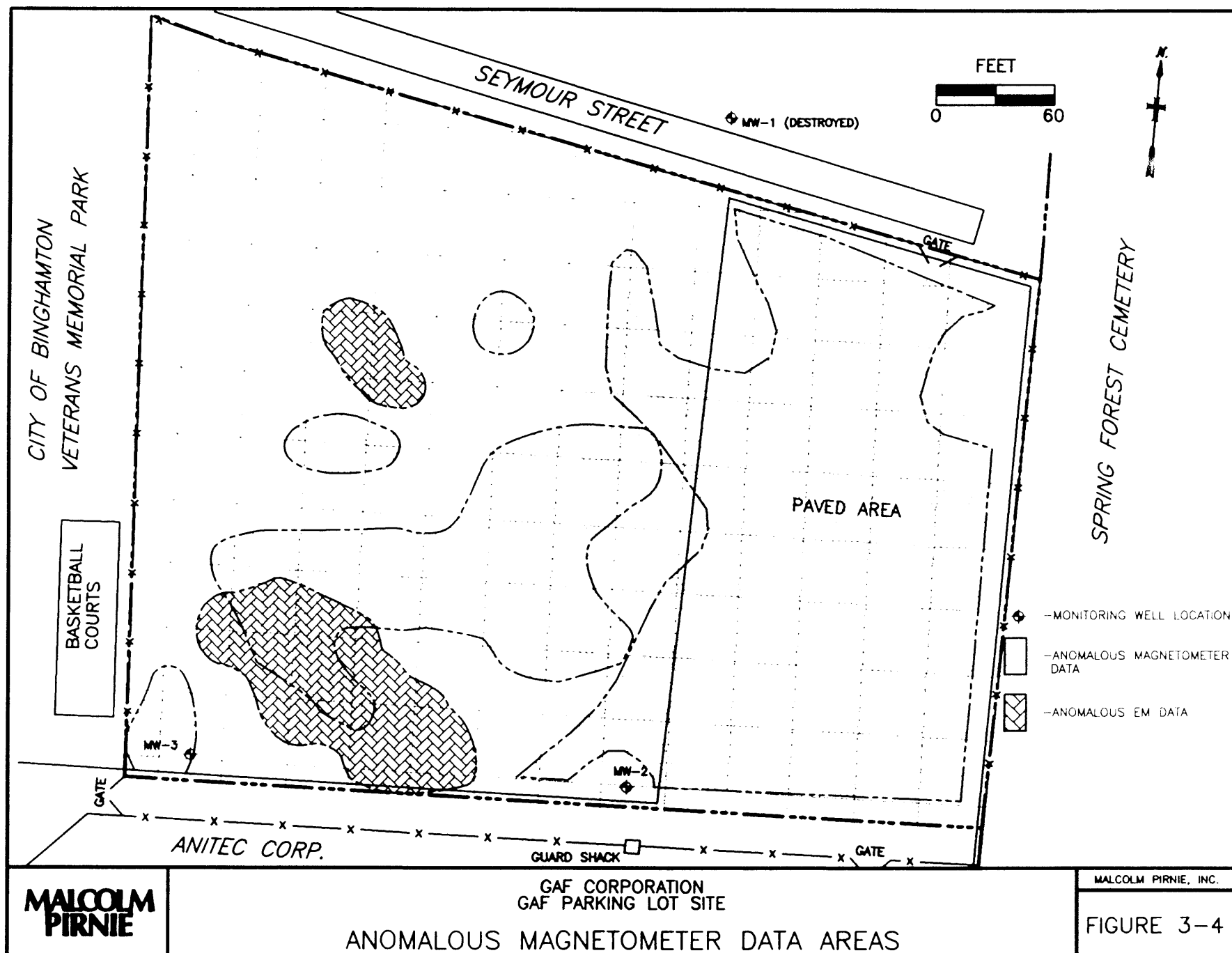
the start of the survey, a 30-by-30-foot grid was established across the site, and readings were obtained at each grid node. The grid was the same as the grid used to conduct the terrain conductivity survey performed as part of the Phase II investigation. Procedures used to perform the survey, and the raw data collected, are contained in Appendix A.

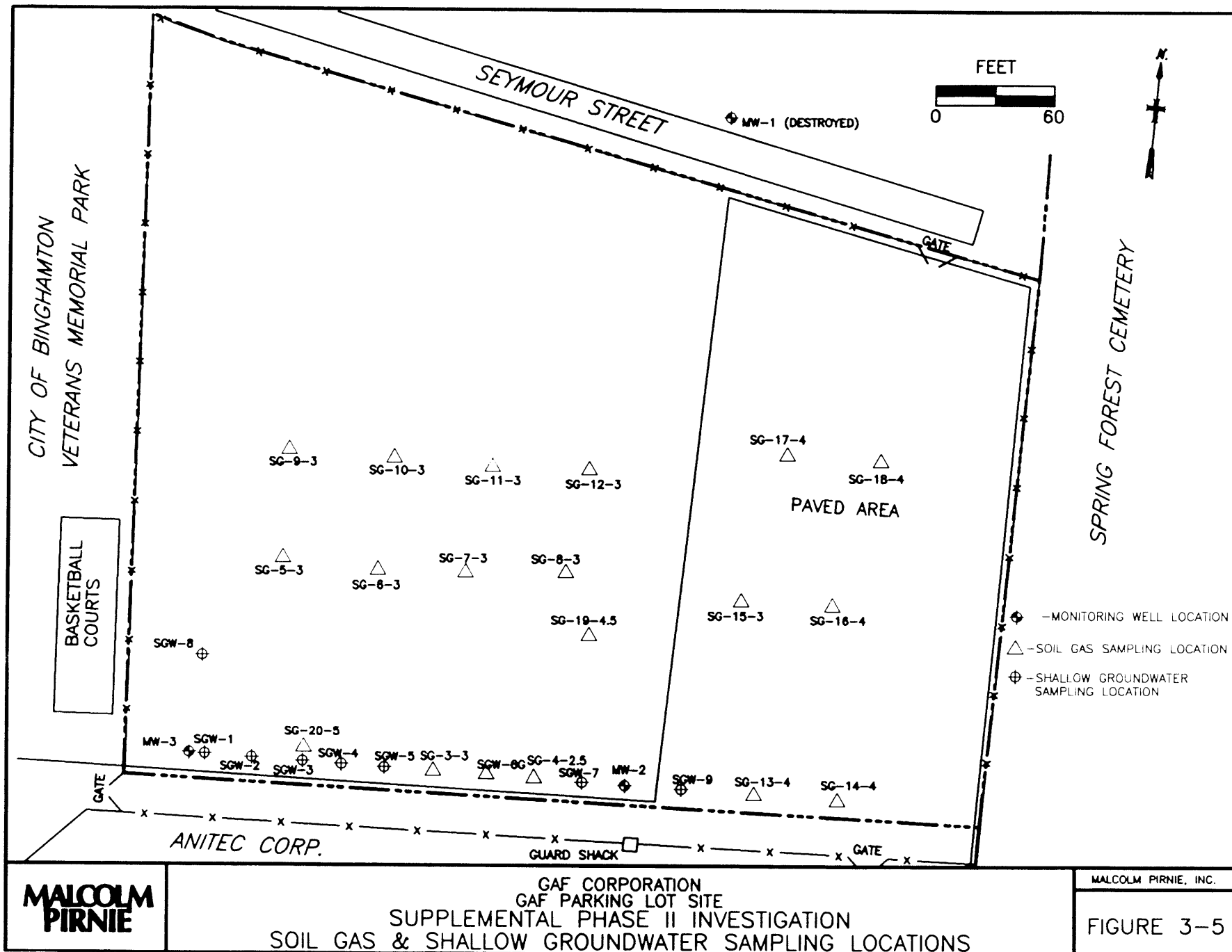
The majority of readings collected at the site were above background values, suggesting that buried ferrous metal is probably present. Three areas were defined where very high readings, or erratic readings were obtained (Figure 3-4). The largest of these areas coincided with the portion of the site covered with asphalt pavement. A high magnetic gradient was present across most of the paved area. A second, smaller area is located at the southwest portion of the site. The third anomalous area is also smaller than the first and is located near the center of the unpaved portion of the site. These three areas were considered to be the most likely areas where a considerable quantity of buried ferrous metal exists, and were therefore selected as target areas for the site excavation work.

3.3 SOIL GAS AND SHALLOW GROUNDWATER SAMPLING

Soil gas and shallow groundwater sampling was conducted to identify potential source areas for the organic contaminants detected in the groundwater during the Phase II Investigation, and to help delineate the areal extent of these contaminants in the shallow groundwater at the site. A direct-push (Geoprobe-type) sampling system was used to collect the shallow groundwater and soil gas samples.

The sampling was conducted between May 16 and May 18, 1994. Nineteen soil gas samples and eight shallow groundwater samples were collected and analyzed by Tetra-K Testing, Inc. using an on-site mobile laboratory. The sample-collection locations are shown on Figure 3-5. In accordance with NYSDEC requirements, the shallow groundwater sample containing the highest concentration of volatile organic compounds (SGW-7) was also sent to Life Science Laboratory, Inc. (LSL), Syracuse, New York, for off-site Target Compound List (TCL) volatiles analysis. Additional samples were supposed to be collected at the location containing the highest VOCs for dissolved inorganic analysis. However, location SGW-7 did not produce enough water to obtain a sample for inorganic analysis; therefore, a sample from SGW-1 was filtered in the field, and submitted to LSL for TCL inorganic analysis. Additional information about the sample-collection procedures used are contained in Appendix B.





The analytical results for the samples are summarized in Tables 3-1 and 3-2. The complete laboratory reports and chain-of-custody forms are contained in Appendix C.

3.4 MONITORING WELL SAMPLING

The two existing monitoring wells, MW-2 and MW-3, were sampled to provide additional data about the quality of groundwater at the site, and to compare with previous results obtained during the Phase II Investigation. The samples were collected on May 18, 1994. The sample collection procedures are contained in Appendix D. The samples were submitted to LSL for TCL volatiles, TCL total inorganics, and TCL dissolved inorganics analyses. The samples targeted for dissolved inorganic analysis were filtered in the field. The analytical results for these samples are summarized in Table 3-3. Complete laboratory results are contained in Appendix C.

3.5 TEST TRENCH EXCAVATIONS

The goals of the trench excavation task were to investigate anomalies detected by the terrain conductivity and magnetometer surveys, characterize the thickness and nature of the fill material, and provide subsurface samples for various analyses. Trench locations, dimensions, and sampling locations were determined on-site by representatives of the NYSDEC.

Four trenches were excavated on May 25 and May 26, 1994. The locations of the trenches are shown on Figure 3-6. (To avoid confusion with subsequently excavated test pits, labeled TP-1 through TP-4, the test trenches will hereafter be referred to as "TR-1" through "TR-4", and are identified as such on Figure 3-6).

Test trench TR-1 was excavated in an area where anomalous magnetometer readings were obtained. The trench measured approximately 35 feet by 10 feet, and extended to a depth of eight feet below land surface (BLS) in the northwest portion where the naturally-occurring clayey-silt was encountered. The clayey-silt layer occurred at a slightly shallower depth in the southeast portion of the trench. Material overlying the clayey-silt is comprised of undifferentiated deposits of silt, sand, gravel, and cobbles mixed with old construction and demolition (C&D) debris. C&D debris consisted of brick fragments; chunks of concrete up to five feet in diameter and often containing rebar; chunks of asphalt; rebar and scrap metal,

**TABLE 3-1: SUMMARY OF SOIL GAS SAMPLING RESULTS
(On-site Mobile Laboratory Analyses)**

GAF PARKING LOT SITE

F:\PROJ\2435003\SOILGAS.WK1

PARAMETER	ON-SITE MOBILE LABORATORY WITH GC (Tetra-K Testing, Inc.)							
	SG-5-3	SG-6-3	SG-7-3	SG-13-4	SG-14-4	SG-15-3	SG-17-4	SG-19-4.5
Chloroform	<0.020	1.1	1.0	<0.020	<0.020	<0.020	<0.020	<0.020
Tetrachloroethene	<0.020	<0.020	<0.020	<0.020	<0.020	0.02	0.06	<0.020
1,1,1-Trichloroethane	0.5	0.1	<0.020	19.0	7.6	0.04	0.05	0.05
Trichloroethene	<0.020	<0.020	<0.020	0.16	0.03	0.06	<0.020	<0.020

NOTES: All concentrations reported in mg/cu.m
No volatiles were detected at soil-gas sampling locations that are not listed.

**TABLE 3-2: SUMMARY OF ON-SITE SHALLOW
GROUNDWATER SAMPLING RESULTS
(On-Site Mobile Laboratory Analyses)**

GAF PARKING LOT SITE

		NYSDEC		ON-SITE MOBILE LABORATORY WITH GC (Tetra-K Testing, Inc.)							
EPA 8240 Volatiles	Parameter	MCL	Class GA Standard	SGW-1	SGW-2	SGW-3	SGW-4	SGW-5	SGW-7	SGW-8	SGW-9
	Benzene	5	0.7	<2.0	<2.0	<2.0	<2.0	<2.0	4.3	<2.0	<2.0
	Carbon tetrachloride	5	5	1.9	1.1	1.5	<1.0	1.0	<1.0	<1.0	<1.0
	Chloroform	100+	7	2.4	1.6	2.2	1.2	2.0	2.0	1.1	BQL
	1,2-Dichloroethane	5	5	<1.0	<1.0	<1.0	<1.0	<1.0	54.0	<1.0	1.9
	1,1-Dichloroethene	5	5	<1.0	<1.0	<1.0	<1.0	<1.0	BQL	<1.0	<1.0
	Tetrachloroethene	5	5	0.5	0.5	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Toluene	5	5	<2.0	<2.0	<2.0	<2.0	<2.0	8.1	<2.0	BQL
	Trichloroethene	5	5	10.0	7.7	8.1	4.4	7.5	<1.0	<1.0	<1.0

NOTES: All concentrations reported in ug/l.
BQL = Parameter detected, but at a concentration below the quantitation limit.

**TABLE 3-3: SUMMARY OF MONITORING WELL AND
SHALLOW GROUNDWATER RESULTS**
(Off-Site Laboratory Analyses)

GAF PARKING LOT SITE

P:\PROJ\2435003\GW(LAB).WK1		NYSDEC		LABORATORY ANALYSES (Life Science Laboratories, Inc.)					
EPA 8240 Volatiles (ug/l)	Parameter	MCL	Class GA Standard	MW-2	MW-2 (Duplicate)	MW-3	SGW-7	SGW-1	Filter Blank
	Chloroethane	5	5(S)	93	90	<10	<10	--	--
	1,2-Dichloroethane	5	5(S)	<5	<5	<5	43	--	--
	Toluene	5	5(S)	<5	<5	<5	8.9	--	--
	Trichloroethene	5	5(S)	<5	<5	9.2	<5	--	--
Total Inorganics* (mg/l)	Aluminum			10	4.3	4.4	--	0.23	--
	Arsenic	0.05	0.025	0.030	<0.01	<0.01	--	<0.01	--
	Barium	1	1	1.8	0.94	<0.2	--	<0.2	--
	Calcium			97	79	130	--	130	--
	Chromium	0.05	0.05	0.019	0.010	0.010	--	<0.01	--
	Copper	1	0.2	0.70	0.30	0.019	--	<0.01	--
	Iron	0.3	0.3	59	16	8.7	--	0.85	--
	Lead	0.05	0.025	0.48	0.18	0.0078	--	0.0016	--
	Magnesium		35 G	24	25	26	--	24	--
	Manganese	0.3	0.3	0.59	0.35	0.63	--	0.021	--
	Mercury	0.002	0.002	0.00021	<0.0002	<0.0002	--	<0.0002	--
	Nickel			0.034	<0.02	<0.02	--	<0.02	--
	Potassium			15	15	3.9	--	3.5	--
	Selenium	0.01	0.01	<0.01	0.013	<0.01	--	0.021	--
	Silver	0.05	0.05	0.18	<0.01	0.023	--	<0.01	--
	Sodium		20	140	140	73	--	73	--
	Vanadium			0.20	<0.2	<0.2	--	<0.2	--
	Zinc	5	0.3	1.5	0.66	0.25	--	0.073	--
Soluble Inorganics** (mg/l)	Barium			0.82	0.52	<0.2	--	<0.2	<0.2
	Calcium			79	68	130	--	120	<7
	Iron			0.12	0.10	0.064	--	0.083	0.046
	Magnesium			22	23	23	--	23	<2
	Manganese			0.20	0.19	0.012	--	<0.01	<0.01
	Potassium			16	15	3.8	--	3.1	<1
	Selenium			<0.01	0.035	<0.01	--	0.014	<0.01
	Sodium			140	130	73	--	73	<0.7
	Zinc			0.047	0.016	0.012	--	0.073	<0.01

NOTES: -- = Not analyzed.

* The following inorganics were analyzed but not detected in any sample: antimony, beryllium, cadmium, cobalt, and thallium.

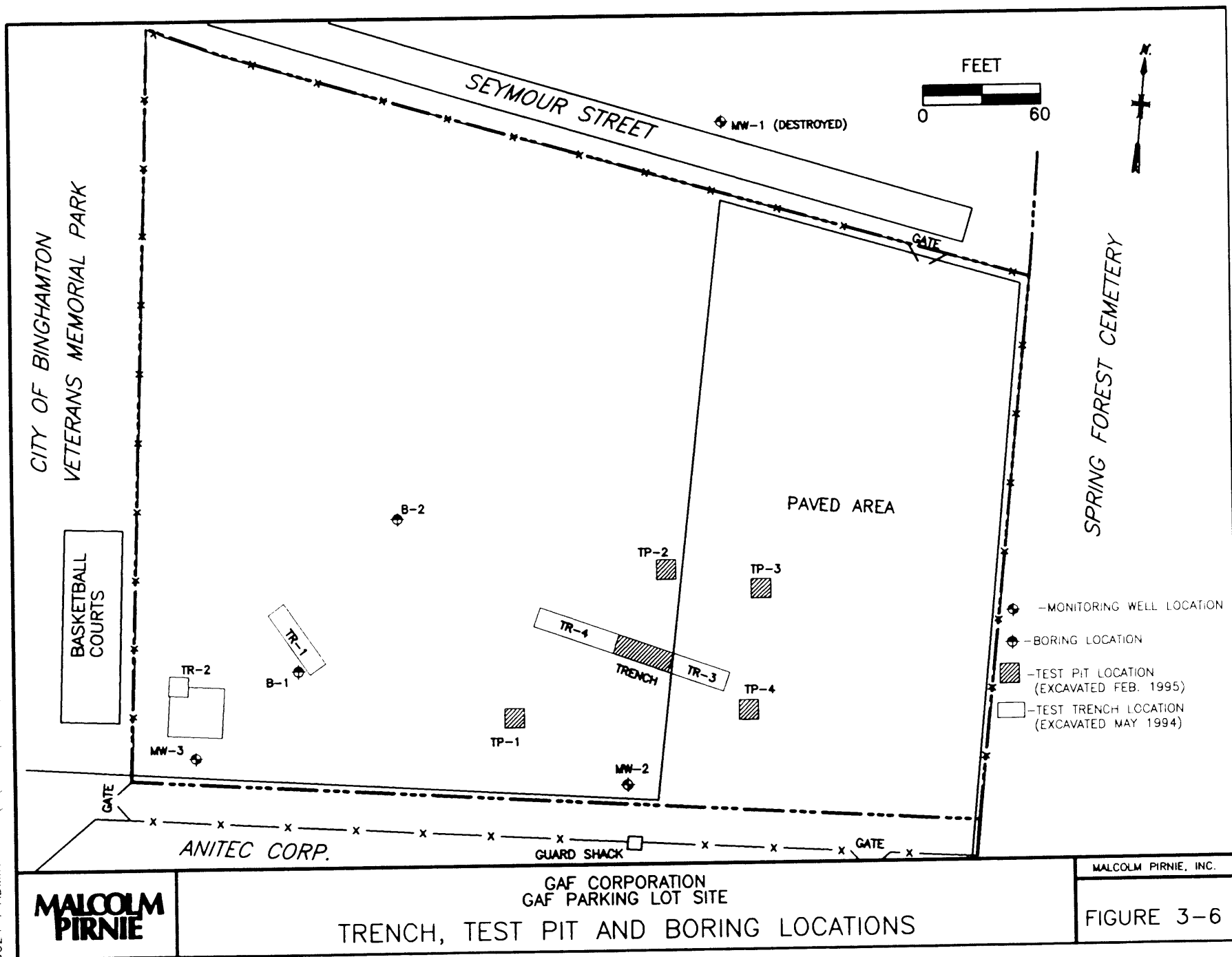
** Soluble inorganics not listed were analyzed but not detected in any of the samples.

including metal strapping and storage cabinets; ceramic tile; railroad ties; and slag. The large quantity of ferrous metal debris accounts for anomalous readings obtained during the magnetometer survey.

Two composite samples were collected from TR-1: TP1-S1 included soil from the east wall of the excavation at about five feet BLS; TP1-S2 was collected from the northeast wall in the northwest portion of the trench at about 3.5 feet BLS, and included gravel and debris fragments with a bluish-silver coating, soil, and greenish-yellowish-orange cinder-like material. Air monitoring (personnel breathing zone and soil screening) for total volatile organic compounds, conducted with an 11.7 eV HNU photoionization detector, indicated no readings above background values. Air particulate monitoring was conducted during the excavation activities using a Miniram Model PD3 dust monitor. This monitoring indicated no readings that exceeded the action levels stipulated in the Site Health and Safety Plan. All excavated materials were stockpiled adjacent to the trench and were subsequently used for backfill.

Test Trench TR-2 was excavated in the southwest portion of the site in another area where anomalous conductivity and magnetometer readings were obtained. The intended surficial dimensions of the trench were 10 feet by 15 feet; however, the actual completed trench excavation area was larger. The approximate dimensions and configuration of the trench TR-2 are shown on Figure 3-6. TR-2 extended to about seven feet BLS where the fill became saturated above the clayey-silt layer. Fill material is similar to that observed at TR-1, with the addition of roofing scrap; chain-link fencing; chicken wire; rusted lids from a 5-gallon can and a 55-gallon drum; foundry brick and slag; coarse-grained-sand-size, black, granular material (resembling granular activated carbon) in plastic bags; and a few intact, closed, amber, glass bottles containing liquid. After the intact bottles were found, the trench dimensions were expanded to ensure that no additional bottles were present in the area. Headspace screening of the bottled liquids indicated a negative deflection from background readings. One sample, identified as TP2-S1, was collected from test trench TR-2 and consisted of the black, granular material found in plastic bags. The sample was collected at about four feet BLS from the south wall of the excavation, and indicated no HNU readings above background values. Air particulate monitoring indicated no readings that exceeded the action levels stipulated in the Site Health and Safety Plan. All excavated materials were stockpiled adjacent to the trench and subsequently used for backfill.

Test trench TR-3 was excavated in the central-southeast portion of the site near the



western extent of the paved area. Excavation was initiated at the east-southeast end and proceeded west-northwest. TR-3 measured approximately 10 feet by 20 feet, and was terminated at a depth of about eight feet BLS where the naturally-occurring clayey-silt layer was encountered. Saturated fill materials and naturally-occurring organic material was found immediately above the clayey-silt layer. Subsurface materials encountered consisted of silt, sand, gravel, and cobble fill mixed with debris and waste. Debris/waste observed in trench TR-3 included fire bricks; slag; fibrous, semi-solid material with a bluish stain; acetate film base; C&D debris; tree stumps; clumps of partially melted film sheets; remnants of several deteriorated steel drums; and one, nearly-intact 55-gallon steel drum.

After the nearly-intact drum was encountered, the decision was made to proceed to the western-most edge of the asphalt parking area and excavate toward the west to complete the remaining portion of the trench area, leaving about 30 feet between the two trench areas for a second phase of excavation, when appropriate drum-handling equipment could be brought to the site. The second section of the trench was labelled as TR-4. Five samples were collected from material observed in trench TR-3 and are labeled TP3-S1 through TP3-S5. The trench was lined with polyethylene sheeting and backfilled with excavated, stockpiled material after the completion of trenches TR-3 and TR-4.

Trench TR-4 was excavated beginning at the edge of the asphalt and extended west-northwest approximately 25 feet. Fill material observed in TR-4 included C&D debris; foundry brick and red brick (red brick was contained in an open-top, 55-gallon drum); wire mesh; scrap metal and wood; slag; pumice-like insulation material; a bluish-purple, granular material and a greenish-yellowish-orange granular material; and several five-gallon milk carboys containing an amber-colored, semi-resinous material. Four samples were collected from material excavated from TR-4 and are described in Table 3-4.

Test trench TR-4 extended to a depth of 12 feet BLS near the west end and 10 to 12 feet BLS near the east end. Air monitoring within personal breathing zones and at the site perimeter indicated no readings above background values. Material contained in the milk carboys exhibited HNU readings of 1 to 2 ppm above background values. Air particulate monitoring indicated no readings that exceeded the action levels stipulated in the Site Health and Safety Plan. Excavated materials were stockpiled adjacent to the trench and subsequently used for backfill.

A total of thirteen soil samples (including a blind duplicate) were collected from the trenches or the deteriorated drums and submitted to LSL for the following analyses:

- TCL Volatiles
- TCL Semivolatiles
- TCL PCBs/pesticides
- TCL Inorganics (plus cyanide)
- EP Toxicity (metals, pesticides, and herbicides)
- Hazardous Waste Characteristics (corrosivity as pH, ignitability, and reactivity).

Table 3-4 describes the sample interval and material sampled at each location.

Table 3-4. Test Trench Sample Description Summary

Sampling Location/Designation	Sample Depth (feet)	Sample Description
TP1-S1 (TR-1)	5	Moderate brown silt, sand and gravel fill
TP1-S2 (TR-1)	3.5	Multi-colored/stained cinders and gravel
TP2-S1 (TR-2)	3-5	Black granular material contained in plastic bags
TP3-S1 (TR-3)	4	Contents of deteriorated drum
TP3-S2 (TR-3)	5	Contents (crystalline precipitate) and soil fill from partially intact drum
TP3-S3 (TR-3)	5	Soil fill beneath a second partially intact drum
TP3-S4 (TR-3)	5	White semi-solid, fibrous material
TP3-S5 (TR-3)	3-6	Soil fill and waste material composite
TP4-S1 (TR-4)	6	Orange, tan, and green granular material mixed with soil fill
TP4-S2 (TR-4)	10	Saturated moderate brown sand and gravel fill
TP4-S3 (TR-4)	6-7	Semi-resinous, spongy, amber-colored material contained in a five-gallon milk carboy

TP4-S4 (TR-4)	7	Yellowish-orange, medium-grained fill and blue-colored fill
TP4-S2 Duplicate (TR-4)	10	Duplicate of TP4-S2

The analytical results are summarized in Tables 3-5 and 3-6; complete laboratory reports are contained in Appendix C.

3.6 TEST PIT EXCAVATIONS AND COMPLETION OF EASTERN-MOST TEST TRENCH

Because the eastern-most trench was not completed (due to the presence of the disintegrated drums and the mostly-intact drum), NYSDEC and GAF field representatives agreed that another phase of excavation would be required at the site. The next phase consisted of excavating four test pits and completing the eastern-most trench (TR-3 and TR-4). The purpose of the test pits was to delineate the extent of buried drums, since a large magnetic anomaly was identified in the area where the drums were discovered. The locations for the test pits were selected by the NYSDEC and are shown on Figure 3-6.

The five excavations were completed on February 14 and 15, 1995, using a tracked excavator. The excavation work was performed by Handex of New Jersey, Inc., Morganville, New Jersey, under the direction of Malcolm Pirnie personnel. The dimensions of the trench were approximately 10 feet wide by 30 feet long by nine feet deep. The dimensions of the four test pits were intended to be approximately 10 feet wide by 10 feet long by 10 feet deep; however, the actual depth of each test pit was determined by the depth to native soil at each location. The depth to native soil in the test pits ranged from about seven feet in TP-3 and TP-4, to 11.5 feet in TP-2. Logs describing the materials encountered in each test pit and the fill thickness are contained in Appendix E.

Excavated materials were stockpiled at the edge of each pit. No drums or waste materials requiring segregation were encountered in any test pit or in the remaining portion of the eastern-most trench. Excavated materials were monitored for VOC emissions using a HNU photoionization detector equipped with an 11.7 eV lamp. The only readings detected above background values were at the immediately downwind edge of the remaining

TABLE 3-5A: SUMMARY OF TRENCH SOIL SAMPLING RESULTS - VOLATILE ORGANICS

GAF PARKING LOT SITE

F:\PROJ\2435003\TR - VOA.WK1

PARAMETER	TP3-S3	TP3-S5	TP4-S2	TP4-S2 Duplicate	TP4-S3
Acetone	< 0.01	0.076	< 0.01	< 0.01	< 2
Chloroform	0.012	< 0.005	< 0.005	< 0.005	< 1
1,2-Dichloropropane	0.0086	< 0.005	< 0.005	< 0.005	< 1
Methylene chloride	0.01	0.014	< 0.005	< 0.005	< 1
4-Methyl-2-pentanone	< 0.01	0.23	< 0.01	< 0.01	< 2
1,1,2,2-Tetrachloroethane	0.035	0.037	0.0088	0.042	< 1
Toluene	0.008	0.0069	< 0.005	< 0.005	1
1,1,1-Trichloroethane	< 0.005	< 0.005	< 0.005	< 0.005	< 1
Trichloroethene	0.024	0.025	< 0.005	< 0.005	< 1

NOTES: All results reported in mg/kg.

No volatiles were detected at sampling locations that are not listed.

**TABLE 3-5A: SUMMARY OF TRENCH SOIL
SAMPLING RESULTS - VOLATILE ORGANICS**

GAF PARKING LOT SITE

F:\PROJ\2435003\TR - VOA.WK1

PARAMETER	TP1-S1	TP1-S2	TP2-S1	TP3-S1	TP3-S2
Acetone	< 0.01	< 0.01	< 0.4	< 1	< 1
Chloroform	< 0.005	< 0.005	3.7	< 0.5	< 0.5
1,2-Dichloropropane	< 0.005	< 0.005	< 0.2	< 0.5	1.6
Methylene chloride	0.047	0.053	< 0.2	< 0.5	< 0.5
4-Methyl-2-pentanone	< 0.01	< 0.01	< 0.4	< 1	< 1
1,1,2,2-Tetrachloroethane	< 0.005	< 0.005	< 0.2	< 0.5	3.3
Toluene	0.0069	0.012	< 0.2	1.0	< 0.5
1,1,1-Trichloroethane	< 0.005	< 0.005	0.65	< 0.5	< 0.5
Trichloroethene	< 0.005	< 0.005	< 0.2	< 0.5	3.2

**TABLE 3-5B: SUMMARY OF TRENCH SOIL SAMPLING
RESULTS -- SEMI-VOLATILE ORGANICS & PCBs**

GAF PARKING LOT SITE

F:\PROJ\2435003\TR - SEMI.WK1

PARAMETER	TP2-S1	TP3-S1	TP3-S4	TP3-S5	TP4-S2	TP4-S2 Duplicate	TP4-S3	TP4-S4
2-Methylnaphthalene	< 0.2	< 0.2	< 0.2	200	< 8	< 8	< 8	< 8
Benzo(a)anthracene	< 0.2	< 0.2	< 0.2	< 8	< 8	< 8	< 8	15
Benzo(a)pyrene	< 0.2	< 0.2	< 0.2	< 8	< 8	< 8	< 8	9.7
Benzo(b)fluoranthene	< 0.2	< 0.2	< 0.2	< 8	< 8	< 8	< 8	12
Benzo(k)fluoranthene	< 0.2	< 0.2	< 0.2	< 8	< 8	< 8	< 8	10
bis(2-Ethylhexyl)phthalate	< 0.2	< 0.2	18	< 8	< 8	< 8	< 8	< 8
Butylbenzylphthalate	< 0.2	0.52	< 0.2	< 8	< 8	< 8	< 8	< 8
Diethylphthalate	< 0.2	< 0.2	< 0.2	< 8	< 8	< 8	320	< 8
Di-n-Butylphthalate	0.51	0.44	0.44	< 8	< 8	< 8	85	< 8
Fluoranthene	< 0.2	< 0.2	< 0.2	< 8	23	15	< 8	41
Fluorene	< 0.2	< 0.2	< 0.2	14	< 8	< 8	< 8	< 8
Napthalene	< 0.2	< 0.2	< 0.2	210	< 8	< 8	< 8	< 8
Phenanthrene	< 0.2	< 0.2	< 0.2	19	20	9.2	< 8	34
Phenol	< 0.2	< 0.2	< 0.2	< 8	< 8	< 8	27	< 8
Pyrene	< 0.2	< 0.2	< 0.2	< 8	15	12	< 8	32
PCB Aroclor 1254	<0.8	<0.8	<0.8	<0.8	<0.8	6.5	<0.8	<0.8

NOTES: All results reported in mg/kg, equivalent to ppm.
No semi-volatiles were detected at locations that are not listed.

**TABLE 3-5C: SUMMARY OF TRENCH SOIL SAMPLING
RESULTS - INORGANICS**

GAF PARKING LOT SITE

P:\PROJ\2435003\TR-INORG.WK1

PARAMETER	TP3-S5	TP4-S1	TP4-S2	TP4-S2 Duplicate	TP4-S3	TP4-S4	NATURAL SOILS COMMON RANGE ¹ (ppm)
Aluminum	4800	14000	4000	4400	21	2800	10,000-300,000
Antimony	< 2	< 2	< 2	< 2	2.5	< 2	2-10
Arsenic	5.1	8.5	4.1	1.9	< 1	< 1	1-50
Barium	120	27	160	120	< 20	130	100-3,000
Cadmium	1.8	1.4	2.5	< 1	< 1	1.4	0.01-0.7
Calcium	32000	15000	23000	26000	1000	54000	NL
Chromium	9.7	12	14	25	5.6	53	1-1,000
Cobalt	4.8	2.3	4.2	5.5	< 1	5.0	1-40
Copper	570	27	110	63	< 2	110	2-100
Iron	77	53	67	63	16	120	NL
Lead	270	< 20	59	46	39	110	2-200
Magnesium	3600	1400	2500	4100	59	4400	600-6,000
Manganese	400	180	280	290	38	260	20-3,000
Mercury	1.2	< 0.1	0.10	0.27	< 0.1	< 0.1	0.01-0.3
Nickel	17	7.4	24	28	7.9	65	5-500
Potassium	680	300	530	470	< 100	470	NL
Selenium	< 1	< 1	< 1	< 1	< 1	< 1	0.1-2
Silver	120	23	150	120	< 1	130	0.01-5
Sodium	< 70	< 70	< 70	110	310	< 70	NL
Zinc	770	630	210	140	29	540	10-300
Cyanide	2.0	0.18	0.40	0.77	0.57	2.9	NL

NOTES: All results reported in mg/kg.

¹ Common range of trace chemical element contents of natural soils, USEPA Office of Solid Waste and Emergency Response, HAZARDOUS WASTE LAND TREATMENT, SW-874 (April 1983).

NL = No range listed for the element.

**TABLE 3-5C: SUMMARY OF TRENCH SOIL SAMPLING
RESULTS – INORGANICS**

GAF PARKING LOT SITE

PA PROJ\2435003\TR-INORG.WK1

PARAMETER	TP1-S1	TP1-S2	TP2-S1	TP3-S1	TP3-S2	TP3-S3	TP3-S4	NATURAL SOILS COMMON RANGE ¹ (ppm)
Aluminum	4300	4000	2500	580	3700	4200	100	10,000-300,000
Antimony	1.3	2.1	4.8	3.9	< 2	3.4	8.2	2-10
Arsenic	9.4	6.1	8.4	< 1	8.9	8.2	< 1	1-50
Barium	100	160	110	22	100	100	< 20	100-3,000
Cadmium	< 1	8.2	< 1	< 1	< 1	< 1	< 1	0.01-0.7
Calcium	22000	31000	7200	140000	16000	21000	4400	NL
Chromium	9.3	17	4.8	5.9	10	7.3	3.9	1-1,000
Cobalt	6.2	4.3	1.3	< 1	2.5	5.7	2.8	1-40
Copper	54	100	28	4.6	320	1800	6.2	2-100
Iron	88	110	15	5.9	69	130	4.3	NL
Lead	280	140	< 20	39	87	220	< 20	2-200
Magnesium	3200	3500	260	5100	260	3500	52000	600-6,000
Manganese	440	350	47	68	310	340	25	20-3,000
Mercury	0.19	0.21	< 0.1	4.7	< 0.1	< 0.1	< 0.1	0.01-0.3
Nickel	12	27	6.6	< 2	14	29	40	5-500
Potassium	460	420	310	340	360	470	< 100	NL
Selenium	< 1	< 1	5.2	< 1	< 1	< 1	< 1	0.1-2
Silver	110	130	< 1	15	83	35	< 1	0.01-5
Sodium	< 70	< 70	< 70	< 70	< 70	< 70	< 70	NL
Zinc	130	1500	9.9	90	430	1200	22	10-300
Cyanide	0.11	0.11	1.6	0.28	0.34	0.13	< 0.1	NL

**TABLE 3-5C: SUMMARY OF TRENCH SOIL SAMPLING
RESULTS - INORGANICS**

GAF PARKING LOT SITE

PAPROJ2435003\TR - INORG.WK1

PARAMETER	TP1-S1	TP1-S2	TP2-S1	TP3-S1	TP3-S2	TP3-S3	TP3-S4	NATURAL SOILS COMMON RANGE ¹ (ppm)
Aluminum	4300	4000	2500	580	3700	4200	100	10,000-300,000
Antimony	1.3	2.1	4.8	3.9	< 2	3.4	8.2	2-10
Arsenic <i>OK 7.5</i>	<i>9.4</i>	6.1	8.4	< 1	8.9	8.2	< 1	1-50
Barium <i>OK 300</i>	100	160	110	22	100	100	< 20	100-3,000
Cadmium <i>OK 1 or 10</i>	< 1	8.2	< 1	< 1	< 1	< 1	< 1	0.01-0.7
Calcium <i>OK</i>	22000	31000	7200	140000	16000	21000	4400	NL
Chromium <i>OK 10</i>	9.3	<i>17</i>	4.8	5.9	10	7.3	3.9	1-1,000
Cobalt <i>OK 30</i>	6.2	4.3	1.3	< 1	2.5	5.7	2.8	1-40
Copper <i>SS</i>	<i>54</i>	<i>100</i>	<i>28</i>	4.6	<i>320</i>	<i>1800</i>	6.2	2-100
Iron <i>2000 OK</i>	88	110	15	5.9	69	130	4.3	NL
Lead <i>500 OK</i>	280	140	< 20	39	87	220	< 20	2-200
Magnesium <i>OK</i>	3200	3500	260	5100	260	3500	52000	600-6,000
Manganese <i>OK</i>	440	350	47	68	310	340	25	20-3,000
Mercury <i>OK 1</i>	<i>0.19</i>	<i>0.21</i>	< 0.1	<i>4.7</i>	< 0.1	< 0.1	< 0.1	0.01-0.3
Nickel <i>13</i>	12	<i>27</i>	6.6	< 2	<i>14</i>	<i>29</i>	40	5-500
Potassium <i>OK</i>	460	420	310	340	360	470	< 100	NL
Selenium <i>OK</i>	< 1	< 1	5.2	< 1	< 1	< 1	< 1	0.1-2
Silver <i>OK</i>	110	130	< 1	15	83	35	< 1	0.01-5
Sodium <i>OK</i>	< 70	< 70	< 70	< 70	< 70	< 70	< 70	NL
Zinc <i>200 OK</i>	<i>130</i>	<i>1500</i>	9.9	90	<i>430</i>	<i>1200</i>	22	10-300
Cyanide <i>OK</i>	0.11	0.11	1.6	0.28	0.34	0.13	< 0.1	NL

*STO
Beech*

TABLE 3-6: TRENCH SOIL SAMPLING RESULTS – HAZARDOUS CHARACTERISTICS

GAF PARKING LOT SITE

F:\PROJ205003\TR-EPTOX.WK1

PARAMETER	Hazardous Waste Limit	TP1-S1	TP1-S2	TP3-S1	TP3-S2	TP3-S3	TP3-S4
Ignitability (flash point in °c)	< 60	> 60	> 60	> 60	> 60	> 60	> 60
Corrosivity (as pH in S.U.)	≥ 12.5, ≤ 2	8.6	9.2	7.6	8.6	8.4	9.0
Cyanide Reactivity (mg HCN/kg)	250*	< 20	< 20	< 20	< 20	< 20	< 20
Sulfide Reactivity (mg H ₂ S/kg)	500*	< 10	< 10	< 10	< 10	< 10	< 10
EP Toxicity (µg/l)							
Arsenic	5.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Barium	100	< 2	< 2	< 2	< 2	< 2	< 2
Cadmium	1.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	5.0	0.14	0.14	0.14	0.14	0.14	0.14
Lead	5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mercury	0.2	< 0.002	< 0.002	0.0028	< 0.002	< 0.002	< 0.002
Selenium	1.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Silver	5.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Endrin	0.02	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Lindane (gamma-BHC)	0.4	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003
Methoxychlor	10.0	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Toxaphene	0.5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,4-D	10.0	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
2,4,5-TP (Silvex)	1.0	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002

* Guideline

TABLE 3-6: TRENCH SOIL SAMPLING RESULTS – HAZARDOUS CHARACTERISTICS

GAF PARKING LOT SITE

F:\PROJ\2435003\TR-EPTOX.WK1

PARAMETER	Hazardous Waste Limit	TP3-S5	TP4-S1	TP4-S2	TP4-S2 Duplicate	TP4-S3	TP4-S4
Ignitability (flash point in °c)	< 60	> 60	> 60	> 60	> 60	> 60	> 60
Corrosivity (as pH in S.U.)	≥ 12.5, ≤ 2	8.8	8.0	8.0	8.0	4.2	8.9
Cyanide Reactivity (mg HCN/kg)	250*	< 20	< 20	< 20	< 20	< 20	< 20
Sulfide Reactivity (mg H ₂ S/kg)	500*	< 10	< 10	32	< 10	< 10	< 10
EP Toxicity (µg/l)							
Arsenic	5.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Barium	100	< 2	< 2	< 2	< 2	< 2	< 2
Cadmium	1.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	5.0	0.14	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Lead	5.0	< 0.5	1.4	< 0.5	< 0.5	1.4	0.50
Mercury	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Selenium	1.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Silver	5.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Endrin	0.02	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0002	< 0.00005
Lindane (gamma-BHC)	0.4	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.0001	< 0.00003
Methoxychlor	10.0	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.001	< 0.0003
Toxaphene	0.5	< 0.001	< 0.001	< 0.001	< 0.001	< 0.004	< 0.001
2,4-D	10.0	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00006	< 0.00002
2,4,5-TP (Silvex)	1.0	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00006	< 0.00002

* Guideline

portion of the eastern-most trench excavation, when the excavation depth reached the total depth of the excavation (about nine feet below grade). Readings were only marginally above background for a short period of time. No readings above background were detected at the downwind property boundary. When complete, each excavation was backfilled with the stockpiled material.

Air particulate monitoring was conducted during the excavation activities using a Miniram Model PD3 dust monitor. No readings above the Site Health and Safety Plan action level were recorded.

The deteriorated drums and the nearly-intact drum that were excavated and sampled during the trench excavations were moved from the trench area, crushed, and disposed of in accordance with NYSDEC regulations.

When all of the test pits were completed, the excavation equipment was decontaminated by thoroughly washing with a steam cleaner. The decontamination activities took place adjacent to, and up-slope of, test pit TP-3 (Figure 3-6).

One sample was collected and submitted for chemical analysis from each test pit. Sampling was conducted by Handex of New Jersey, Inc., under the direction of Malcolm Pirnie personnel. The decisions regarding which material(s) to sample and the number of samples to be collected were made mutually by the NYSDEC, GAF, and Malcolm Pirnie representatives at the site. The sample from TP-3 was duplicated and identified as TP-5A. Additionally, one sample was collected from a partially buried drum that was located in the northwest corner of the site, in an area where no excavations were performed. This drum was identified by reconnaissance of the site performed during the trench excavation task. Table 3-7 describes the sample interval and material sampled at each location.

Table 3-7. Test Pit Sample Description Summary

Sampling Location/Designation	Sample Depth (feet)	Sample Description
TP-1/TP-1A	3	Red-stained silty sand and gravel fill
TP-2/TP-2A	8	Ash and fine cinders
TP-3/TP-3A	3.5	Dark-colored silty fill
TP-4/TP-4A	7	Black-colored silty sand and gravel fill
TP-5/TP-5A	3.5	Duplicate of sample TP-3A
Trench (between TR-3 and TR-4)	8.5	Black-stained silty fill with odors and a sheen present
Drum	NA	Reddish-colored silty sand

All of the samples collected, with the exception of the duplicate sample, were split by the NYSDEC representative at the site.

The test pit samples were submitted to LSL for analysis for:

- Compounds on the target compound list (TCL) including: volatiles, semivolatiles, PCBs/pesticides, and inorganics (including cyanide).
- Hazardous waste characteristics (corrosivity as pH, ignitability, and reactivity).
- Toxicity Characteristic Leaching Procedure (TCLP) for the full list of analytes (volatiles, semivolatiles (including pesticides and herbicides), and inorganics).

The sample collected from the partially buried drum was analyzed for TCLP inorganics.

Analytical results are summarized in Tables 3-8 and 3-9, and complete laboratory reports are contained in Appendix C. The results are discussed in Section 4.0 of this report.

3.7 SOIL BORINGS

Two test borings, B-1 and B-2, were advanced in the western half of the site to determine the thickness of fill in the area and characterize the geology of the underlying unconsolidated sediments. The boring locations were selected by the NYSDEC and the

Citizens for a Safe Anitec advisory group, and are shown on Figure 3-6. The borings were advanced by Empire Soils Investigations, Inc., of Groton, New York, using two-and-one-quarter inch I.D. hollow-stem augers. Each boring was sampled continuously from the land surface to a depth of 24 feet, which was the total depth of each boring. Logs describing the materials encountered in the borings are contained in Appendix E. At the direction of the NYSDEC, no samples from the borings were submitted for laboratory analysis.

Upon completion, each borehole was backfilled with a cement-bentonite grout that was tremied into the borehole, and the drilling equipment was decontaminated by steam cleaning. The decontamination activities took place adjacent to and up-slope of TP-3.

3.8 ADDITIONAL TASKS

The site was secured by repairing both the existing fencing and the Seymour Street gate.

TABLE 3-8A: SUMMARY OF TEST PIT SOIL SAMPLING RESULTS - VOLATILE ORGANICS

GAF PARKING LOT SITE

P:\PROJ\2435\003\TP-VOA.WK1

PARAMETER	TP-3A	TP-4A	TP-5A (TP-3A Dup.)	TRENCH
TARGET ANALYTES				
Acetone	1.9	2	< 0.05	<0.4
Benzene	0.012	0.13	0.023	1.9
2-Butanone	0.32	0.56	< 0.05	<0.4
Methylene chloride	0.011 a	0.016 a	0.016 a	<0.4
Toluene	< 0.005	0.011	< 0.005	2.9
m-xylenes	< 0.005	0.016 *	< 0.005	0.21 *
p-xylenes	< 0.005	*	< 0.005	*

NOTES: All results reported in mg/kg.

a = Suspect lab contamination per LSL Laboratory, Syracuse, NY.

* = m-xylene and p-xylene co-elute. The reported value may represent either of these compounds or a combination thereof.

No volatiles were detected in sampling locations that are not listed.

**TABLE 3-8B: SUMMARY OF TEST PIT SOIL SAMPLING
RESULTS -- SEMI-VOLATILE ORGANICS & PCBs**

GAF PARKING LOT SITE

P:\PROJ\2435003\TP-SEMI\WK1

PARAMETER	TP-1A	TP-2A	TP-5A (TP-3A Dup.)	TRENCH
Acenaphthene	<20	3.2	<2	<100
Anthracene	<20	6.2	<2	<100
Benzo(a)anthracene	<20	12	<2	<100
Benzo(b)fluoranthene	<20	12	<2	<100
Benzo(k)fluoranthene	<20	5.8	<2	<100
Benzo(g,h,i)perylene	<20	5.6	<2	<100
Benzo(a)pyrene	<20	10	<2	<100
bis(2-ethylhexyl)phthalate	<20	<2	2.7	15000
Butyl benzyl phthalate	<20	<2	<2	510
Chrysene	<20	12	<2	<100
2,4-Dinitrotoluene	<20	2	<2	<100
Fluoranthene	<20	28	<2	<100
Fluorene	<20	3.1	<2	<100
Indeno(1,2,3-cd)pyrene	<20	6.3	<2	<100
Phenanthrene	<20	23	<2	<100
Pyrene	<20	23	<2	<100
PCB Aroclor 1242	190	<2	<0.2	<0.4

NOTES:

All results reported in mg/kg, equivalent to ppm.

No semi-volatiles were detected in sampling locations that are not listed.

**TABLE 3-8C: SUMMARY OF TEST PIT SOIL SAMPLING
RESULTS – INORGANICS**

GAF PARKING LOT SITE

P:\PROJ\2435003\TP-INORG.WK1

PARAMETER	TP-1A	TP-2A	TP-3A	TP-4A	TP-5A (TP-3A Dup.)	TRENCH	NATURAL SOILS COMMON RANGE ¹ (ppm)
Aluminum	8100	4100	6300	8900	7100	8500	10,000–300,000
Antimony	6.6	13	3.9	1.9	7.7	1.5	2–10
Arsenic	3.2	1.8	1.8	6.7	2.6	4.0	1–50
Barium	310	130	80	170	82	190	100–3,000
Cadmium	170	1.5	<1	<1	<1	1.5	0.01–0.7
Calcium	26000	28000	4900	6900	5400	32000	NL
Chromium	110	13	6.1	12	8.3	10	1–1,000
Cobalt	38	3.8	4.1	6.5	5.1	6.3	1–40
Copper	96	35	19	310	20	730	2–100
Iron	71000	12000	17000	14000	15000	17000	NL
Lead	71	55	17	120	27	120	2–200
Magnesium	5400	4200	1500	2300	1700	4400	600–6,000
Manganese	690	210	230	170	230	350	20–3,000
Mercury	2.0	0.11	<0.1	<0.1	<0.1	0.15	0.01–0.3
Nickel	440	8	10	32	12	28	5–500
Potassium	1000	570	530	830	400	890	NL
Selenium	<1	1.4	2.5	9.0	<1	<1	0.1–2
Silver	270	65	7.4	58	12	53	0.01–5
Sodium	340	170	400	200	310	210	NL
Zinc	540	140	45	1100	60	780	10–300
Cyanide	3.2	1.0	17	<0.5	27	<0.3	NL

NOTES: All results reported in mg/kg, equivalent to ppm.

¹ Common range of trace chemical element contents of natural soils, USEPA Office of Solid Waste and Emergency Response, HAZARDOUS WASTE LAND TREATMENT, SW-874 (April 1983).

NL = No range listed for the element.

**TABLE 3-9: SUMMARY OF TEST PIT SOIL SAMPLING
RESULTS – HAZARDOUS CHARACTERISTICS**

GAF PARKING LOT SITE

F:\PROJ\2435008\TP-TCLP.WK1

PARAMETER	Hazardous Waste Limit	TP-1A	TP-2A	TP-3A	TP-4A	TP-5A (TP-3A Dup.)	TRENCH	DRUM
Ignitability (flash point in °c)	< 60	> 60	> 60	> 60	> 60	> 60	> 60	--
Corrosivity (as pH in S.U.)	≥ 12.5, ≤ 2	7.2	7.7	6.3	6.5	6.2	6.9	--
Cyanide Reactivity (mg HCN/kg)	250	< 50	< 50	< 50	< 50	< 50	< 50	--
Sulfide Reactivity (mg H ₂ S/kg)	500	< 50	< 50	< 50	< 50	< 50	56	--
TCLP Inorganics (mg/l)								
Arsenic	5.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Barium	100	5.4	4.0	4.0	3.3	4.5	4.5	3.8
Cadmium	1.0	0.93	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	5.0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Lead	5.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Mercury	0.2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Selenium	1.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Silver	5.0	< 0.1	< 0.1	0.19	< 0.1	< 0.1	< 0.1	< 0.1
TCLP Volatiles (mg/l)								
Benzene	0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	--
Carbon Tetrachloride	0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	--
Chlorobenzene	100	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	--
Chloroform	6	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	--
1,4-Dichlorobenzene	7.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	--
1,2-Dichloroethane	0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	--
1,1-Dichloroethene	0.7	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	--
2-Butanone (MEK)	200	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	--
Tetrachloroethene	0.7	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	--
Trichloroethene	0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	--
Vinyl Chloride	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	--

**TABLE 3-9: SUMMARY OF TEST PIT SOIL SAMPLING
RESULTS – HAZARDOUS CHARACTERISTICS**

GAF PARKING LOT SITE

F:\PROJ\2435005\TP-TCLP.WK1

PARAMETER	Hazardous Waste Limit	TP-1A	TP-2A	TP-3A	TP-4A	TP-5A (TP-3A Dup.)	TRENCH	DRUM
TCLP Semi-Volatiles (mg/l)								
Cresol	200	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--
2,4-Dinitrotoluene	0.13	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--
Hexachlorobenzene	0.13	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--
Hexachlorobutadine	0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--
Hexachloroethane	3	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--
Nitrobenzene	2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--
Pentachlorophenol	100	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	--
Pyridine	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	--
2,4,5-Trichlorophenol	400	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--
2,4,6-Trichlorophenol	2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--
TCLP Pesticides (mg/l)								
Lindane (gamma-BHC)	0.4	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--
Chlordane	0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	--
Endrin	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--
Heptachlor	0.008	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--
Heptachlor epoxide	0.008	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--
Methoxychlor	10.0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	--
Toxaphene	0.5	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	--
TCLP Herbicides (mg/l)								
2,4-D	10.0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--
2,4,5-TP (Silvex)	1.0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--

NOTES: -- = Not analyzed.

4.0 SITE ASSESSMENT

4.1 INTRODUCTION

The GAF Parking Lot Site is an inactive disposal area that was allegedly used for disposal when GAF Corporation owned the adjacent manufacturing facility (Wehran Engineering, 1986). These allegations led the NYSDEC to place the site on its Inactive Hazardous Waste Site Registry. The NYSDEC has estimated that disposal activities at the site ceased by 1975; however, there is no information regarding when landfilling at the site began. The manufacturing facility, now owned by Anitec, has been in existence since World War II (Wehran). GAF retained possession of the 2.8 acre site when Anitec purchased the facility.

4.2 TOPOGRAPHY AND DRAINAGE

The addition of fill to the site to construct the parking lot created a relatively level land surface that slopes gently and uniformly to the south. Because the filling was discontinued at the western edge of the site, the land surface drops abruptly along the western property boundary. Drainage from the paved portion of the site is toward the south, in the direction of the Anitec facility. Minimal overland flow occurs at the unpaved portion of the site due to the permeable fill material; therefore, most precipitation falling on this area percolates downward.

Trout Brook, which has been converted to a closed storm sewer, is located about 300 feet south of the site. It runs eastward, emptying into the Chenango River.

4.3 HYDROGEOLOGY

Four geologic deposits have been identified at or near the site: till, clayey silt, peat, and lacustrine (lake) silt and clay. The boring log for well MW-1 (located to the north of the site along the valley wall) and information in the Broome County soil survey suggest that a moderately dense, fine-grained till existed at the original land surface along and to the north of the northern property line. The thickness of this deposit at MW-1 was greater than 40 feet. Below the remainder of the site, in the former marshy area, the original land

surface consists of an olive-gray colored clayey-silt deposit that is at least two-feet thick. Rootlets and fragments of organic (plant) matter are common in this unit. At the B-1 location, four feet of peat were encountered above this deposit. Peat is formed by the decomposition of vegetation in stagnant water under reducing conditions (small amounts of oxygen). The presence of peat is an indicator of poor drainage from the marsh. The low permeability and concave surficial expression of the underlying clayey silt created the stagnant surface water conditions and resulted in the formation of the peat deposit. The clayey silt continues to inhibit the downward migration of infiltration and results in stagnant, saturated conditions at a shallow depth.

A soft, gray-colored lacustrine (lake) deposit consisting of alternating seams and partings of silt, clay, and fine sand underlies the clayey silt. The full thickness of this deposit was not penetrated, but the thicknesses that were penetrated in site borings ranged from three to 12 feet. Historical information and drilling data from the nearby Anitec facility indicate that these deposits may be underlain by the sand and gravel outwash deposit that comprises the Clinton Street-Ballpark Aquifer; however, none of the borings advanced at the site encountered this deposit. The aquifer is known to be present south of the site, beneath the Anitec facility, and aquifer maps show that it is not present just north of the site, near Prospect Street (Gibbs & Hill, 1990). These observations indicate that the aquifer may not extend beneath the site.

The depth to groundwater in the area of the site underlain by the former marshy area, where the test pits, test borings, and existing wells are located, is about eight to 10 feet below the present landfilled surface. Water level data collected from boreholes and monitoring wells on the Anitec property indicate that the water table in the Clinton Street-Ballpark Aquifer is considerably lower. The water table in shallow monitoring well 1-SMW-NY-02, located less than 50 feet south of the site on the Anitec property (Figure 4-1), was at 26 feet below grade on January 6, 1994. During drilling for this well, the clayey silt unit that supports the shallow water table (former marshy area) below the GAF Parking Lot Site was not encountered. The clayey silt unit was penetrated at another nearby borehole location on the Anitec property, 1-SB-44-02. This borehole was drilled in a location about 25 feet south of the southwestern corner of the site (Figure 4-1). A review of the boring log indicates that there is a saturated interval above and an unsaturated interval below the clayey silt layer. According to this information, the shallow saturated unit above the silty clay layer is perched groundwater.

The direction of shallow groundwater movement can be reasonably estimated by coupling the existing groundwater-elevation data with knowledge of the former topography and drainage characteristics of the site. The former topography and drainage are important because the addition of fill to construct the parking lot is not likely to have altered groundwater movement patterns significantly. The marshy area appears to have drained at its western edge, about 600 feet west of the western site property boundary (Figure 3-2). The drainage appears to have been directed toward the southwest, where it joined Trout Brook. Present day shallow groundwater movement likely follows the former drainage, suggesting that during seasonally wet periods the perched groundwater below the site will drain toward the site's southwest property boundary. During seasonally dry periods, the perched groundwater will be essentially stagnant. Even during periods when drainage occurs, the flow rate is probably very low due to the concave nature of the former land surface.

4.4 CONTAMINATION ASSESSMENT

4.4.1 Waste Characteristics

The landfilled materials deposited at the site can be divided into four categories: construction and demolition debris, excavation materials, plant-process wastes, and miscellaneous materials. Construction and demolition debris includes: wood beams, pipe, wire, wire mesh, bricks, cinder blocks, firebricks, polystyrene insulation, concrete slabs, discarded asphalt paving, railroad ties, steel rebar, metal scraps, floor tiles, and roofing. Excavation materials include: sand, gravel, and cobble-to-boulder-sized fill. Plant-process wastes include: slag, non-hazardous dried resins, ash, deteriorated drums containing non-hazardous hardened resins, cardboard, dyes, cinders, rolls of film, granular activated carbon, etc. Miscellaneous wastes include: tree trunks, bottles, office equipment (desks, metal shelving, filing cabinets), pieces of metallic equipment (gears, shafts, etc.), plastic, and glass. Placement of the fill began sometime between approximately 1940 and 1955, and ended between 1965 and 1977.

4.4.2 Soil Gas

No volatile organic compounds (VOCs) were detected in the majority of soil gas samples collected during the Supplemental Phase II Investigation. The only VOC detected at a concentration of greater than 2 mg/m³ was 1,1,1-trichloroethane (TCA), which was

found at SG-13 (19 mg/m³) and SG-14 (8 mg/m³). TCA was not detected in site groundwater.

4.4.3 Soil Contamination

Subsurface soil samples have been collected from 27 different locations and/or depths. Nine of these samples were collected during the initial Phase II Investigation by Gibbs & Hill. Samples collected during the Phase II Investigation were not subjected to the tests that are used to determine whether the sample meets the definition of a hazardous waste, EP Toxicity (EP Tox) or Toxic Characteristics Leaching Procedure (TCLP); however, these tests were performed on the samples collected during the Supplemental Phase II Investigation.

Most of the 27 "soil" samples collected were comprised of various fill materials, including solid, hardened resin material contained in the deteriorated drums. One of the samples was collected off-site (during the Phase II), in a location north of Seymour Street, to serve as a "background" sample. None of the samples were from the clayey-silt deposit that underlies the waste.

The results from the EP Tox and TCLP testing (Tables 3-6 and 3-9) show that none of the samples met the definition of hazardous wastes; however, PCBs were detected in one sample (TP-1A) at a concentration greater than 50 ppm. This sample would be considered a hazardous waste as defined in 6 NYCRR Part 371.4e, if it were excavated. The material sampled consisted of reddish-stained soil fill and was encountered only in the southeast corner of TP-1. Observations made during the excavation suggest that the area of stained fill was localized and the quantity was apparently small. Reddish-stained material was not encountered in any of the test pits, trenches, or borings completed during the Supplemental Phase II Investigation, and was not identified in the site Phase II Report.

The sampling results are summarized in the following subsections: Inorganics, Volatile Organic Compounds, and Semivolatile Organic Compounds (including PCBs and Pesticides).

Inorganics

The Gibbs & Hill Phase II Investigation stated that the level of lead in one of the samples, and the levels of copper and zinc in several other samples appeared significantly elevated when compared to the level in the "background" sample. However, the use of the "background" sample, which was collected at the site during the drilling for installation of

MW-1, is not considered to be representative of background conditions. This is because the native soil that occurs in the former marsh (organic-rich clayey silt) is a completely different geologic unit than occurs at the location where the background sample was collected (sand and gravel or till). No background sample of the clayey-silt deposit could be collected because it is not present upgradient of the site. An appropriate method of determining the significance of the results, is to compare the results to the published ranges of trace chemical element contents of natural soils (USEPA, 1983).

The samples collected during this investigation tended to have elevated levels of copper, zinc, and, most commonly, silver when compared to the USEPA data (Tables 3-5C and 3-8C). Other inorganics that appear elevated in a few samples are cadmium, lead, mercury, selenium, and cyanide. None of the samples contained lead in excess of the USEPA's interim guidance level for soil lead cleanup of 500-1000 mg/kg (USEPA, 1990).

Volatile Organic Compounds

A number of aromatics, ketones, and chlorinated hydrocarbons, collectively classified as volatile organic compounds (VOCs), were detected in the "soil" samples collected during the Supplemental Phase II Investigation (Table 3-5A and 3-8A). The results listed on the tables indicate that at least two VOCs were detected at each sampling location (trench and test pit) except test pits TP-1 and TP-2 during the second phase of excavation work. No VOCs were detected in the samples collected at these locations. The greatest number and concentrations of VOCs in the soil occur in the southeastern portion of the site. The compounds most frequently detected in this area were acetone, benzene, 2-butanone (methyl ethyl ketone), and toluene. Concentrations of these compounds in samples analyzed were commonly between 0.5 and 3 parts per million (ppm). Chlorinated hydrocarbons, other than methylene chloride, which is a common laboratory contaminant, were detected *only* in samples collected from the trenches excavated during the first round of soil sampling during the Supplemental Phase II Investigation. Once again, the greatest number and concentrations of these compounds in the soil occurred in the southeastern area of the site. The chlorinated hydrocarbon compounds detected in this area included TCE, chloroform, 1,2-dichloropropane, and 1,1,2,2-tetrachloroethane. Concentrations of these compounds in the samples ranged from 0.012 ppm to 3.3 ppm. Two chlorinated hydrocarbons were detected in samples from test trench TR-2, located in the southwestern portion of the site: 1,1,1-trichloroethane (0.65 ppm), and chloroform (3.7 ppm).

None of the samples contained more than 10 ppm of total volatiles, which is the limit

for the soil cleanup objectives listed in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #HWR-94-4046.

Semivolatiles, Pesticides, and PCBs

Semivolatile organic compounds were detected in soil samples collected from trenches TR-2, TR-3, and TR-4; and in soil samples collected from test pit TP-2 and the excavation performed to connect trenches TR-3 and TR-4. The compounds detected fall into two groups: phthalates and polynuclear aromatic hydrocarbons (PAHs).

Phthalates are typically associated with plastics, tend to sorb strongly to soils, have very low solubilities, and are therefore relatively immobile in the environment. The majority of phthalate detections occurred in samples collected from the southeast portion of the site. In several cases, concentrations of an individual phthalate in a sample was greater than 500 ppm, which is the limit for the soil cleanup objectives listed in the NYSDEC TAGM.

Polynuclear aromatic hydrocarbons have similar physical properties to phthalates, so they are also relatively immobile in the environment. These compounds commonly occur in nature, but are also created by many industrial processes. All of the PAHs were detected in samples collected from the southeastern portion of the site. One sample contained concentrations of two PAHs, 2-methylnaphthalene and naphthalene, in concentrations greater than the 500 ppb soil cleanup objective.

No pesticides were detected in any of the soil samples; however, two samples were found to contain PCBs. A duplicate sample from trench TR-4 was reported to contain 6.5 ppm of Aroclor 1254, yet this compound was not detected in the original sample. This level is below the cleanup objective listed in the TAGM.

The sample from test pit TP-1, which was collected from a thin horizon of reddish-stained soil fill, was reported to contain 190 ppm of Aroclor 1242. Since this level is greater than 50 ppm, the sample would be considered hazardous as defined in 6 NYCRR 371.4e, if excavated. The extent of the reddish-stained soil was limited to a small area of the test pit.

4.4.4 Groundwater Contamination

Prior to this investigation, the only groundwater quality data available were two rounds of samples collected from the monitoring wells, one in 1988 and the other in 1991.

A third round of samples from the wells (not including MW-1, since it had been destroyed) was collected during the Supplemental Phase II Investigation. Eight additional

shallow groundwater samples were collected using the Geoprobe-type method. The first six of these samples were collected between MW-2 and MW-3, along the southern site boundary. The seventh was also collected along the southern boundary, but was located just east of MW-2, and the eighth was located north of MW-3, near the southwest property boundary (Figure 3-5).

Inorganics

Determining the actual concentrations of inorganics, and the background or "naturally-occurring" concentrations of inorganics in site groundwater, was not possible during the Gibbs & Hill Phase II Investigation since the groundwater samples were not filtered prior to analysis. The lack of filtering resulted in the presence of suspended solids in the samples. Suspended solids are primarily mineral particles that are not flowing with the groundwater, but become suspended as the water in the monitoring well is agitated during bailing for well purging and sampling. This problem is common in wells that are screened in fine-grained formations that yield only small quantities of water, such the site wells. The concentrations of many inorganics reported for such samples are artificially elevated because acid added to the samples for preservation dissolves the suspended minerals (inorganics). Evidence that this phenomenon was a problem with the Gibbs & Hill Phase II Investigation samples is provided by the concentrations reported for aluminum. Fundamental chemical principles show that the reported concentrations are impossible, due to solubility constraints, at the reported pH of the samples (which were within the range of typical groundwaters).

To avoid this problem during the Supplemental Phase II Investigation, both unfiltered and filtered samples were collected and submitted for analysis. The filtered samples, having the suspended minerals removed before acidification, are considered to be more representative of actual groundwater conditions.

Comparing the analytical results of the filtered samples to applicable groundwater standards shows that inorganics are not a concern in site groundwater, with the possible exception of sodium. The groundwater quality standard for sodium was exceeded at all three sampling locations (MW-2, MW-3, and SGW-1); however, since there are no filtered background sodium data, it is unclear whether the levels identified are naturally-occurring or are the result of the site. No other groundwater quality standards were exceeded, except selenium in the duplicate sample. The level of selenium (0.035 ppm) was slightly above the 0.01 ppm standard in the duplicate sample but not in the original sample, indicating that this

result was not reproducible.

Volatile Organic Compounds

Only one VOC was detected consistently at concentrations in excess of groundwater standards in the monitoring wells. Samples collected from monitoring well MW-2 in 1988, 1991, and 1994 all contained chloroethane at a concentration of about 100 ppb. Chloroethane was not detected in any of the shallow groundwater samples collected by Geoprobe-type sampling, soil samples, or in soil-gas samples analyzed.

Groundwater standards for other compounds: benzene (SGW-7 only); 1,2-dichloroethane (SGW-7 only); toluene (SGW-7 only); and TCE (SGW-1, 2, 3, 5), were exceeded in the shallow groundwater samples (see Tables 3-2 and 3-3). In most cases, the standards were only slightly exceeded. With the exception of 1,2-dichloroethane (1,2 DCA), these compounds were all detected in soil samples from the southeastern portion of the site.

The relatively low concentrations and sporadic nature of VOCs detected in site groundwater suggest that there is no significant source of VOCs present in on-site soils. In addition, where a source of low-level VOC contamination is present, there apparently is little potential for migration from the source area. Downward migration is very unlikely due to the low-permeability clayey-silt and lacustrine deposits that underlay the site and, near boring B-1, to the peat that overlies the deposits. The downward migration of VOCs will be severely hampered, if not entirely attenuated, by the presence of the peat, which contains organic matter with about 60 percent carbon. This organic carbon is an excellent adsorber of organic compounds, hence its usage in treatment systems for media contaminated with VOCs.

Semivolatiles, Pesticides, and PCBs

The Gibbs & Hill Phase II Investigation did not identify any pesticides, PCBs, or semivolatile organic compounds in the groundwater; therefore, groundwater samples collected during the Supplemental Phase II Investigation were not analyzed for these compounds. The Phase II Investigation results showed that the phthalates, PAHs, and PCBs detected in the fill are not migrating to the groundwater in detectable quantities.

5.0 HAZARD RANKING SYSTEM SCORE

The data gathered during this investigation were used to calculate a new Hazard Ranking System (HRS) score using the USEPA program PA-Score, version 2. The program scores four pathways: groundwater, surface water, soil, and air. Backup data are contained in Appendix F, PA-Scoresheets.

The following describes how the score was determined for each pathway:

1) Groundwater Pathway

- An observed release of contaminants from the site to groundwater was scored for the likelihood-to-release value.
- Groundwater information from a site located two miles west of the GAF site was used to determine the number of people obtaining drinking water from wells located within four miles of the site. Since the information was for a site located west of the GAF site, information was not available for all areas within four miles of the site. The areas that information was not available for are located in the 3-4 mile ring. Ranges of values are used in the PA-Score program to determine the target's values. Two of the ranges for groundwater are 3,001 people to 10,000 people and 10,001 people to 30,000 people. Since information was not available for the 3-4 mile ring, and since the calculated ring population was close to a cutoff (9,000 people), the population in this ring was increased to 10,001 to account for wells that may not have been identified.

2) Surface Water Pathway

- The surface water pathway was scored on a potential-to-release basis.
- There are no potable surface-water intakes downstream of the site (Gibbs & Hill, 1990).
- Flow rates for the Chenango and Susquehanna Rivers were obtained from the Water Resources Data Book.
- Both the Chenango and Susquehanna Rivers were considered fisheries.
- Since wetland maps were not assembled for this site, it was assumed that the entire surface water pathway was fronted by wetlands.

3) Soil Exposure Pathway

- The facility was considered inactive.
- The population within one mile of the site was obtained from the Gibbs & Hill Phase II Investigation report.

4) Air Pathway

- The air pathway was scored on a potential-to-release basis.
- The population within four miles of the site and the wetland acreage within 1/2 mile of the site were obtained from information gathered for a site located approximately two miles west of the GAF Parking Lot site. In some cases, where the air population numbers were close to a cutoff point, the population was increased so that the population fell into the next higher target category.

Based on the above information, the overall site score is 24. This is a conservative score, and is not likely to increase since the highest value was chosen whenever information about targets was not available. Further action for National Priorities List sites is required only for scores ≥ 28.5 .

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 CONCLUSIONS

Interpretation of the data gathered at the site yields the following conclusions:

- Fill added to the site to create the parking lot consisted primarily of a mixture of construction and demolition debris, which included considerable ferrous metal (iron and steel), and silty sand and gravel. Occasionally, hardened resins, ashes, dye-stained soils, and deteriorated drums were encountered.
- The majority of the fill added to the site is unsaturated.
- Low-permeability, naturally-occurring deposits of peat, clayey-silt, and lacustrine (lake) silts and clays underlie the fill in descending order. These deposits serve to deter downward migration of contaminants.
- Shallow groundwater, occurring above the low-permeability clayey-silt layer, may flow southwestward, following the original site topography.
- While apparently not penetrating the entire thickness of these deposits, the two monitoring wells at the site penetrate and screen a considerable thickness of the low-permeability materials and therefore may serve to increase downward migration of contamination.
- The fill contains low levels of several volatile organic compounds. None of the samples tested contained levels of volatiles above the NYSDEC soil cleanup level of 10 ppm contained in TAGM # HWR-94-4046.
- The fill contains moderate levels of several semivolatile organics. These compounds are bound tightly to fill soils and are not migrating to the groundwater.
- The fill contains elevated levels of copper, silver, and zinc when compared to typical concentrations found in soils. These inorganics are not adversely affecting shallow groundwater quality.
- Some samples of site groundwater contained low levels of volatile organic compounds that slightly exceeded criteria of interest.
- EP Toxicity and TCLP testing show that none of the samples had the characteristics of hazardous wastes; however, PCBs were detected in one sample (TP-1A) at a concentration greater than 50 ppm. The material

sampled would be considered a hazardous waste as defined in 6 NYCRR Part 371.4 (e), if excavated.

- The Hazard Ranking System Score for the site, based on the additional data collected during the supplemental Phase II Investigation, is 24. The score is conservative since, the highest value was chosen when information about targets was not available. Further action for NPL sites is warranted only if the score is ≥ 28.5 .

6.2 RECOMMENDATIONS

Malcolm Pirnie recommends the following actions:

- Decommission monitoring wells MW-2 and MW-3. These wells penetrate and screen a significant thickness of the fine-grained confining layer that was found to underlie the site and therefore could serve to promote vertical migration of shallow contamination. This is particularly important if the Clinton Street-Ballpark Aquifer underlies part of the site.
- Delineate the extent of the PCB-contaminated fill identified in test pit TP-1 and remediate. Investigation results suggest that the extent of the contamination is very localized; only a small portion of one edge of the test pit contained the thin horizon of reddish-stained fill sampled. No other site excavations or borings revealed the presence of the reddish-stained fill. Remediation would likely involve excavating the contaminated soil and disposing it in a licensed facility.
- Delist the site following the PCB remediation. PCBs in TP-1 are the only identified hazardous waste at the site and appear to be isolated and localized, and the HRS score did not identify the site as a significant threat to human health or the environment.

APPENDIX A

***MAGNETOMETER SURVEY
PROCEDURES AND RAW DATA***

CHARLES STREET SITE MAGNETOMETER SURVEY

A magnetometer survey was performed at the Charles Street Parking Lot Site on May 9, 1994 to help locate buried ferrous metal objects. A Geonics UniMag II™ Proton Magnetometer (Model G-846) was used to measure the magnetic field at 121 stations across the site. Because ferrous metal objects have their own magnetic field, which distorts the earth's field, the presence of such objects can be reflected in the readings obtained. Readings that are considerably different from the earth's field (background), indicate a high magnetic gradient which is caused by interference or the presence of ferrous metal. Sources of interference include above-ground or overhead ferrous objects (fences, guy wires, etc.) or objects that generate electromagnetic fields (power lines, electric appliances, etc.). The meter was calibrated and checked according to the procedures listed in the operating manual provided by the manufacturer and was found to be operating correctly.

Prior to the start of the survey, a 30' x 30' grid was established across the site and a background station was established outside the site. The grid was the same as the grid used during the previous terrain conductivity survey performed at the site by Gibbs & Hill (1991). Background readings of the earth's magnetic field were obtained at the start of the survey and then at one-hour intervals thereafter. The background station was located off the northwest corner of the site, at the corner of Seymour Street and Charles Street (about 30 feet from the paved surfaces). Readings at the background station are required because the earth's magnetic field changes slightly throughout the day. These changes are used to correct the collected data.

Readings were obtained at 121 stations and recorded to the nearest gamma. At least three readings were taken at each station to insure that the instrument was providing reproducible data. At stations where the readings varied by a few gammas (which is common), the average of the readings was recorded. In cases where a high magnetic gradient was present, the instrument only provides readings to the nearest 100 gammas and often the readings are not reproducible. In such cases, the range of readings obtained was recorded. The instrument was held steady, at eye-level, while taking the readings. After collection, the data were corrected for the change that occurred to the earth's magnetic field throughout the course of the survey. The corrected data are plotted on Figure A-1, and correction calculations are attached.

The majority of readings collected at the site were above background, suggesting that buried ferrous metal is probably present across most of the site. Three areas were defined where very high readings, or erratic readings were obtained (Figure 3-4). The largest of these areas coincided with the portion of the site covered with asphalt pavement. A high magnetic gradient was present across almost the entire paved area, and the instrument was generally able to provide readings only to the nearest 100 gammas. Although overhead power lines cross a portion of the paved area, it is unlikely that they were the cause of this large anomalous area because a few readings reproducible to the nearest gamma were obtained in the paved area, some directly under the power lines. These readings were close to background readings. A second smaller area was defined where the instrument was also able to provide readings only to the nearest 100 gammas. This area is located at the southwest portion of the site. The third anomalous area is located near the center of the unpaved portion of the site. Most of the readings in this area were reproducible and measured to the nearest gamma; however they were considerably above background. These three areas are the most likely areas where a considerable quantity of buried ferrous metal exists.



Notes:

Readings ending in 00 indicate that meter reading at that station was displayed in three digits rather than five. (Instrument unable to be more accurate). Cause: sensor in high-noise area or highly magnetic environment.

○ = stop survey + take background reading.

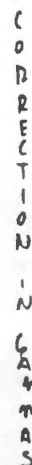
21 = Reading station; reading in gammas (below left; five digits) and correction applied (in gammas; above left). Correction not added when instrument accuracy was ± 100 gammas (2-digit reading).

GAF BINGHAMTON, NY		
CORRECTED MAGNETOMETER DATA		
MALCOLM PIRNIE	Date	Figure No.

○ = stop survey, collect background reading

Background data + collection

• = bkgrnd reading



APPENDIX B

***SOIL GAS/SHALLOW GROUNDWATER
SAMPLE COLLECTION PROCEDURES***

SECTION 1.0 Narrative

A groundwater investigation and soil gas survey were conducted at the GAF Parking Lot site in Binghamton, New York on May 16-18, 1994. A total of 27 samples were collected and analyzed for volatile organic compounds. Eight (8) groundwater samples were collected and analyzed and nineteen (19) soil gas points were installed, sampled and analyzed for the presence of volatile organic compounds.

Section 1.1 Soil Gas Sampling

Soil gas points were installed using a slide hammer and 7/8" hollow stem steel rods with threaded connectors and a 6-inch screened section attached to the lead rod. The screen section was driven to a depth of 2.5 - 5.0 feet below ground surface (bgs) based on field conditions. After installation of the probe a sampling system was attached to the last steel rod. The sampling system consisted of a sample port, flow control valve, vacuum pump and flow meter. The vacuum pump was started and the time and flow rate were noted in the field notes. If possible, the flow was set at 1500 mL/min or greater, and allowed to purge for two to three minutes. This allowed for ambient air to be purged from the rods and brought soil gas into the sample port. When no flow or low flow was encountered, the rods were pulled back to a depth that allowed free flow and sample collection. To aid in determining sample dilutions, soil gas was screened with an 11.7 eV HNu PID meter as the gas stream exited the flow meter. Samples were then collected in a 5.0 mL gas tight syringe fitted with a shut-off valve. Samples were transported to the mobile laboratory for injection into the analytical system.

Section 1.2 Groundwater Sampling

Groundwater sample locations were installed in the same manner as soil gas samples. The screened section attached to the lead rod was installed to the desired depth, 7.0 - 10.0 feet below ground surface (bgs). Once the screened section of the probe was installed into the groundwater a length of teflon tubing was inserted into the hollow stem steel rods and advanced to the tip of the rod. The exposed end of the teflon tubing was then attached to a masterflex peristaltic pump and groundwater was allowed to flow through the system. The system was allowed to purge for 1-2 minutes to bring a fresh sample to the pump. Two 40 mL volatile vials were filled at each location for volatile organic analysis.

The target compound list for this project consisted of the following analytes:

- Chloroethane
- Acetone
- 1,2-Dichloroethane
- Methylene chloride
- Benzene
- 2-Butanone

These compounds were analyzed along with our standard list of VOCs (see Data Results, Section 2.0).

Section 1.3 Sample Analysis

Soil gas and groundwater samples were injected into the analytical system upon arrival at the mobile laboratory. All gas samples were analyzed for Volatile Organic Compounds (VOCs) using a Hewlett Packard 5890II Gas Chromatograph (GC) with electrolytic conductivity (ELCD) and photoionization (PID) detectors in series. An OI Analytical Model 4560 Purge and Trap sample concentrator was used to purge the VOC's from the sample matrix and concentrate them onto a sorbent trap then desorb them onto the GC system. The analytical system and parameters are similar to those used in EPA Methods 8010/8020. Data is processed on a Dell 486DX/50 Personal Computer (PC) using HP Chemstation software. Reports were generated with a customized Microsoft Excel reporting program.

APPENDIX C

LABORATORY REPORTS

**ON-SITE LABORATORY
SHALLOW GROUNDWATER RESULTS**

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 057R0101 D
Instr. #: GC # 3
Date Coll: 5/16/94
Date Analyzed: 5/16/94
Dilution Factor: 1
Method: 8020WA MTH

Sample ID: SGW-1
GC Sample ID: SGW-1 5 mL
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
ACETONE	2.0	ND
BENZENE	2.0	ND
2-BUTANONE	2.0	ND
TOLUENE	2.0	ND
CHLOROBENZENE	2.0	ND
ETHYLBENZENE	2.0	ND
M&P-XYLENE	1.0	ND
O-XYLENE	1.0	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 97 %
Sample depth: 7.0 feet below grade.
Sample time: 15:57

Signed YJS 5.17.94

Reviewed YJS 6.21.94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 007F0101 D
Instr. #: GC # 3
Date Coll: 5/16/94
Date Analyzed: 5/16/94
Dilution Factor: 1
Method: 8010WA MTH

Sample ID: SGW-1
GC Sample ID: SGW-1 5 mL
W.O. #: 0

RESULTS:

EPA Method 8010/8020 Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
CHLOROETHANE	2.0	ND
VINYL CHLORIDE	2.0	ND
1,1-DICHLOROETHENE	1.0	ND
METHYLENE CHLORIDE	2.0	ND
1,1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
c-1,2-DICHLOROETHENE	1.0	ND
CHLOROFORM	1.0	2.4
1,1,1-TRICHLOROETHANE	0.3	ND
CARBON TET.	1.0	1.9
1,2-DICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	10.0
TETRACHLOROETHENE	0.3	0.5

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Surrogate Recovery = 93 %
Sample depth: 7.0 feet below grade.
Sample time: 15:57

Signed TJS 5/17/94

Reviewed TJS 6/21/94

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 058R0101 D
Instr. #: GC # 3
Date Coll: 5/16/94
Date Analyzed: 5/16/94
Dilution Factor: 1
Method: 8020WA MTH

Sample ID: SGW-2
GC Sample ID: SGW-2 5 mL
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
ACETONE	2.0	ND
BENZENE	2.0	ND
2-BUTANONE	2.0	ND
TOLUENE	2.0	ND
CHLOROBENZENE	2.0	ND
ETHYLBENZENE	2.0	ND
M&P-XYLENE	1.0	ND
O-XYLENE	1.0	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 100 %
Sample depth: 8.0 feet below grade.
Sample time: 16:30

Signed TJS 5.17.94

Reviewed TJS 6.21.94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 008F0101 D
Instr. #: GC # 3
Date Coll: 5/16/94
Date Analyzed: 5/16/94
Dilution Factor: 1
Method: 8010WA MTH

Sample ID: SGW-2
GC Sample ID: SGW-2 5 mL
W.O. #: 0

RESULTS:

EPA Method 8010/8020 Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
CHLOROETHANE	2.0	ND
VINYL CHLORIDE	2.0	ND
1,1-DICHLOROETHENE	1.0	ND
METHYLENE CHLORIDE	2.0	ND
1,1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
c-1,2-DICHLOROETHENE	1.0	ND
CHLOROFORM	1.0	1.6
1,1,1-TRICHLOROETHANE	0.3	ND
CARBON TET.	1.0	1.1
1,2-DICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	7.7
TETRACHLOROETHENE	0.3	0.3

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Surrogate Recovery = 99 %

Sample depth: 8.0 feet below grade.

Sample time: 16:30

Signed

TJS 5-17-94

Reviewed

TJS 5-17-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413) 572-3200

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 059R0101.D
Instr. #: GC # 3
Date Coll: 5/16/94
Date Analyzed: 5/16/94
Dilution Factor: 1
Method: 8020WA.MTH

Sample ID: SGW-3
GC Sample ID: SGW-3 5 mL
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
ACETONE	2.0	ND
BENZENE	2.0	ND
2-BUTANONE	2.0	ND
TOLUENE	2.0	ND
CHLOROBENZENE	2.0	ND
ETHYLBENZENE	2.0	ND
M&P-XYLENE	1.0	ND
O-XYLENE	1.0	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 103 %
Sample depth: 8.5 feet below grade.
Sample time: 17:17

Signed TJS 5.17.94

Reviewed TJS 6.21.94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413) 572-3200

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirmie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 009F0101 D
Instr. #: GC # 3
Date Coll: 5/16/94
Date Analyzed: 5/16/94
Dilution Factor: 1
Method: 8010WA MTH

Sample ID: SGW-3
GC Sample ID: SGW-3 5 mL
W.O. #: 0

RESULTS:

EPA Method 8010/8020 Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
CHLOROETHANE	2.0	ND
VINYL CHLORIDE	2.0	ND
1,1-DICHLOROETHENE	1.0	ND
METHYLENE CHLORIDE	2.0	ND
t-1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
c-1,2-DICHLOROETHENE	1.0	ND
CHLOROFORM	1.0	2.2
1,1,1-TRICHLOROETHANE	0.3	ND
CARBON TET.	1.0	1.5
1,2-DICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	8.1
TETRACHLOROETHENE	0.3	0.3

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Surrogate Recovery = 93 %
Sample depth: 8.5 feet below grade.
Sample time: 17:17

Signed JS 5.17.94

Reviewed JS 6.21.94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 009F0101.D
Instr. #: GC # 3
Date Coll: 5/16/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8010WA.MTH

Sample ID: SGW-4
GC Sample ID: SGW-4 5 mL
W.O. #: 0

RESULTS:

**EPA Method 8010/8020
Gas Chromatography for Volatile Organics**

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
CHLOROETHANE	2.0	ND
VINYL CHLORIDE	2.0	ND
1,1-DICHLOROETHENE	1.0	ND
METHYLENE CHLORIDE	2.0	ND
1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
c-1,2-DICHLOROETHENE	1.0	ND
CHLOROFORM	1.0	1.2
1,1,1-TRICHLOROETHANE	0.3	ND
CARBON TET.	1.0	ND
1,2-DICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	4.4
TETRACHLOROETHENE	0.3	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Surrogate Recovery = 81 %
Sample depth: 8.5 feet below grade.
Sample time: 17:56

Signed TJS 5-17-94

Reviewed TJS 6-21-94

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 059R0101 D
Instr. #: GC # 3
Date Coll: 5/16/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8020WA.MTH

Sample ID: SGW-4
GC Sample ID: SGW-4 5 mL
W.O. #: 0

RESULTS: EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
ACETONE	2.0	ND
BENZENE	2.0	ND
2-BUTANONE	2.0	ND
TOLUENE	2.0	ND
CHLOROBENZENE	2.0	ND
ETHYLBENZENE	2.0	ND
M&P-XYLENE	1.0	ND
O-XYLENE	1.0	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 95 %
Sample depth: 8.5 feet below grade.
Sample time: 17.56

Signed TJS 5-17-94

Reviewed TJS 6-21-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 014F0101 D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8010WA.MTH

Sample ID: SGW-5
GC Sample ID: SGW-5 5 mL
W.O. #: 0

RESULTS:

EPA Method 8010/8020 Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
CHLOROETHANE	2.0	ND
VINYL CHLORIDE	2.0	ND
1,1-DICHLOROETHENE	1.0	ND
METHYLENE CHLORIDE	2.0	ND
1,1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
c-1,2-DICHLOROETHENE	1.0	ND
CHLOROFORM	1.0	2.0
111TRICHLOROETHANE	0.3	ND
CARBON TET.	1.0	1.0
1,2-DICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	7.5
TETRACHLOROETHENE	0.3	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Surrogate Recovery = 80 %

Sample depth: 10.0 feet below grade.

Sample time: 10:50

Signed TJS 5-17-94

Reviewed TJS 6-21-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 064R0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8020WA.MTH

Sample ID: SGW-5
GC Sample ID: SGW-5 5 mL
W.O. #: 0

RESULTS:

EPA Method 8010/8020 Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
ACETONE	2.0	ND
BENZENE	2.0	ND
2-BUTANONE	2.0	ND
TOLUENE	2.0	ND
CHLOROBENZENE	2.0	ND
ETHYLBENZENE	2.0	ND
M&P-XYLENE	1.0	ND
O-XYLENE	1.0	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Surrogate Recovery = 42 %
Sample depth: 10.0 feet below grade.
Sample time: 10:50

Signed TJS 5-17-94

Reviewed TJS 6-21-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413) 572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 015F0101 D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8010WAG MTH

Sample ID: SG-3-3
GC Sample ID: SG-3-3
W.O. #: 0

RESULTS:

**EPA Method 8010/8020
Gas Chromatography for Volatile Organics**

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
t-1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
111TRICHLOROETHANE	0.020	ND
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed JS 5-17-94

Reviewed JS 6-21-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 065R0101 D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8020WAG MTH

Sample ID: SG-3-3
GC Sample ID: SG-3-3
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET LIMIT mg/cu. m	RESULT mg/cu. m
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5/17/94

Reviewed TJS 5/21/94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
 Binghamton, New York
CLIENT: Malcolm Pirmie, Inc.
 7481 Henry Clay Blvd.
 Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 016F0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SGW-6G
GC Sample ID: SGW-6G
W.O. #: 0

RESULTS:

**EPA Method 8010/8020
 Gas Chromatography for Volatile Organics**

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
1,1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
1,1,1-TRICHLOROETHANE	0.020	ND
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
 Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
 NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
 B = Detected in the laboratory blank

Comments:

Signed 9/5 5-17-94

Reviewed 9/5 6-21-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 066R0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8020WAG.MTH

Sample ID: SGW-6G
GC Sample ID: SGW-6G
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-17-94

Reviewed TJS 6-21-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 017F0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-4-2.5
GC Sample ID: SG-4-2.5
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
1,1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
1,1,1-TRICHLOROETHANE	0.020	ND
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-17-94

Reviewed TJS 6-21-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 067R0101 D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8020WAG MTH

Sample ID: SG-4-2.5
GC Sample ID: SG-4-2.5
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-17-94

Reviewed TJS 6-21-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
 Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
 7481 Henry Clay Blvd.
 Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 018F0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-5-3
GC Sample ID: SG-5-3
W.O. #: 0

RESULTS: EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
t-1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
1,1,1-TRICHLOROETHANE	0.020	0.49
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
 Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
 NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
 B = Detected in the laboratory blank

Comments:

Signed TJS 6.21.94

Reviewed TJS 6.21.94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 068R0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8020WAG.MTH

Sample ID: SG-5-3
GC Sample ID: SG-5-3
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-17-94

Reviewed TJS 6-21-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-326

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 019F0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-6-3
GC Sample ID: SG-6-3
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
1,1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	1.1
1,1,1-TRICHLOROETHANE	0.020	0.06
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 6-22-94

Reviewed TJS 6-22-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 069R0101 D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8020WAG MTH

Sample ID: SG-6-3
GC Sample ID: SG-6-3
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-17-94

Reviewed TJS 5-12-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 029F0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WA.MTH

Sample ID: SGW-7
GC Sample ID: SGW-7 5ML
W.O. #: 0

RESULTS:

EPA Method 8010/8020 Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
CHLOROETHANE	2.0	ND
VINYL CHLORIDE	2.0	ND
1,1-DICHLOROETHENE	1.0	BQL
METHYLENE CHLORIDE	2.0	BQL
t-1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
c-1,2-DICHLOROETHENE	1.0	ND
CHLOROFORM	1.0	2.0
1,1,1-TRICHLOROETHANE	0.3	ND
CARBON TET.	1.0	ND
1,2-DICHLOROETHANE	1.0	54.0
TRICHLOROETHENE	1.0	ND
TETRACHLOROETHENE	0.3	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 100 %

Signed TJS 5-18-94

Reviewed TJS 6-22-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 079R0101 D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WA.MT

Sample ID: SGW-7
GC Sample ID: SGW-7 5ML
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
ACETONE	2.0	ND
BENZENE	2.0	4.3
2-BUTANONE	2.0	ND
TOLUENE	2.0	8.1
CHLOROBENZENE	2.0	ND
ETHYLBENZENE	2.0	ND
M&P-XYLENE	1.0	ND
O-XYLENE	1.0	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 97 %

Signed

TJS 5.18.94

Reviewed

GP 6.22.94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
 Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
 7481 Henry Clay Blvd.
 Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 020F0101 D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-7-3
GC Sample ID: SG-7-3
W.O. #: 0

RESULTS:

**EPA Method 8010/8020
 Gas Chromatography for Volatile Organics**

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
1,1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	1.0
1,1,1-TRICHLOROETHANE	0.020	ND
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
 Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
 NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
 B = Detected in the laboratory blank

Comments:

Signed JFS 5-18-94

Reviewed JFS 6-22-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413) 572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 070R0101 D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8020WAG MTH

Sample ID: SG-7-3
GC Sample ID: SG-7-3
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5/17/94

Reviewed KS 6/22/94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
 Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
 7481 Henry Clay Blvd.
 Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 021F0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-8-3
GC Sample ID: SG-8-3
W.O. #: 0

RESULTS: **EPA Method 8010/8020**
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
t-1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
111TRICHLOROETHANE	0.020	ND
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
 Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
 NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
 B = Detected in the laboratory blank

Comments:

Signed TJS 5-17-94

Reviewed TJS 6-22-94
 5-22-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 071R0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/17/94
Dilution Factor: 1
Method: 8020WAG.MTH

Sample ID: SG-8-3
GC Sample ID: SG-8-3
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed

TJS 5.17.94

Reviewed

TJS 6.22.94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 005F0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WA.MTH

Sample ID: SGW-8
GC Sample ID: SGW-8 5 mL Rerun
W.O. #: 0

RESULTS: EPA Method 8010/8020 Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
CHLOROETHANE	2.0	ND
VINYL CHLORIDE	2.0	ND
1,1-DICHLOROETHENE	1.0	ND
METHYLENE CHLORIDE	2.0	ND
1,1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
c-1,2-DICHLOROETHENE	1.0	ND
CHLOROFORM	1.0	1.1
1,1,1-TRICHLOROETHANE	0.3	ND
CARBON TET.	1.0	ND
1,2-DICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	ND
TETRACHLOROETHENE	0.3	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 131 % *

Signed TJS 5-18-94

Reviewed TJS 6-27-94

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 055R0101 D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WA MTH

Sample ID: SGW-8
GC Sample ID: SGW-8 5 mL Rerun
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
ACETONE	2.0	ND
BENZENE	2.0	ND
2-BUTANONE	2.0	ND
TOLUENE	2.0	ND
CHLOROBENZENE	2.0	ND
ETHYLBENZENE	2.0	ND
M&P-XYLENE	1.0	ND
O-XYLENE	1.0	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 99 %

Signed TJS 5-18-94

Reviewed TJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 082R0101 D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WA MTH

Sample ID: SGW-9
GC Sample ID: SGW-9 5ML
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
ACETONE	2.0	ND
BENZENE	2.0	ND
2-BUTANONE	2.0	ND
TOLUENE	2.0	BQL
CHLOROBENZENE	2.0	ND
ETHYLBENZENE	2.0	ND
M&P-XYLENE	1.0	ND
O-XYLENE	1.0	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1988.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 101 %

Signed TJS 5.18.94

Reviewed TJS 6.22.94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 032F0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WA.MTH

Sample ID: SGW-9
GC Sample ID: SGW-9 5ML
W.O. #: 0

RESULTS:

EPA Method 8010/8020 Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
CHLOROETHANE	2.0	ND
VINYL CHLORIDE	2.0	ND
1,1-DICHLOROETHENE	1.0	ND
METHYLENE CHLORIDE	2.0	ND
1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
c-1,2-DICHLOROETHENE	1.0	ND
CHLOROFORM	1.0	BQL
1,1,1-TRICHLOROETHANE	0.3	ND
CARBON TET.	1.0	ND
1,2-DICHLOROETHANE	1.0	1.9
TRICHLOROETHENE	1.0	ND
TETRACHLOROETHENE	0.3	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 83 %

Signed TJS 5-18-94

Reviewed TJS 6-22-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

ON-SITE LABORATORY

SOIL GAS RESULTS

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 006F0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-9-3
GC Sample ID: SG-9-3
W.O. #: 0

RESULTS: EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
1,1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
1,1,1-TRICHLOROETHANE	0.020	ND
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-18-94

Reviewed TJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 056R0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WAG.MTH

Sample ID: SG-9-3
GC Sample ID: SG-9-3
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5.18.94

Reviewed TJS 6.27.94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413) 572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 007F0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-10-3
GC Sample ID: SG-10-3
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
t-1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
111TRICHLOROETHANE	0.020	ND
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed JTS 5-18-94

Reviewed JTS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 057R0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WAG.MTH

Sample ID: SG-10-3
GC Sample ID: SG-10-3
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-18-94

Reviewed TJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 008F0101 D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-11-3
GC Sample ID: SG-11-3
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
t-1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
1,1,1-TRICHLOROETHANE	0.020	ND
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-18-94

Reviewed TJS 6-22-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 058R0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WAG.MTH

Sample ID: SG-11-3
GC Sample ID: SG-11-3
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-18-94

Reviewed TJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 009F0101 D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-12-3
GC Sample ID: SG-12-3
W.O. #: 0

RESULTS: EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
1,1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
1,1,1-TRICHLOROETHANE	0.020	ND
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-18-94

Reviewed TJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 059R0101 D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WAG MTH

Sample ID: SG-12-3
GC Sample ID: SG-12-3
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-18-94

Reviewed TJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 010F0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-13-4
GC Sample ID: SG-13-4
W.O. #: 0

RESULTS: EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
1,1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
1,1,1-TRICHLOROETHANE	0.020	19.0
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	0.16
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-18-94

Reviewed TJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 060R0101 D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WAG MTH

Sample ID: SG-13-4
GC Sample ID: SG-13-4
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-18-94

Reviewed TJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413) 572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 011F0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-14-4
GC Sample ID: SG-14-4
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
1,1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
1,1,1-TRICHLOROETHANE	0.020	7.6
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	0.03
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-18-94

Reviewed TJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 061R0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WAG MTH

Sample ID: SG-14-4
GC Sample ID: SG-14-4
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed

TJS 5-18-94

Reviewed

CJK 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 013F0101 D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-15-3
GC Sample ID: SG-15-3
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
1,1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
1,1,1-TRICHLOROETHANE	0.020	0.04
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	0.06
TETRACHLOROETHENE	0.020	0.02

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed JS 5-18-94

Reviewed JS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413) 572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 063R0101 D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WAG.MTH

Sample ID: SG-15-3
GC Sample ID: SG-15-3
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed

GIS 5-18-94

Reviewed

GIS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 014F0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-16-4
GC Sample ID: SG-16-4
W.O. #: 0

RESULTS:

**EPA Method 8010/8020
Gas Chromatography for Volatile Organics**

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
t-1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
111TRICHLOROETHANE	0.020	ND
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-18-94

Reviewed TJS 6-21-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 064R0101 D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WAG MTH

Sample ID: SG-16-4
GC Sample ID: SG-16-4
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5/18/94

Reviewed TJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
 Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
 7481 Henry Clay Blvd.
 Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 015F0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-17-4
GC Sample ID: SG-17-4
W.O. #: 0

RESULTS:

**EPA Method 8010/8020
 Gas Chromatography for Volatile Organics**

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
1,1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
111TRICHLOROETHANE	0.020	0.05
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	0.06

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
 Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
 NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
 B = Detected in the laboratory blank

Comments:

Signed TJS 5-18-94

Reviewed TJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 065R0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WAG MTH

Sample ID: SG-17-4
GC Sample ID: SG-17-4
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed

TJS 5-18-94

Reviewed

TJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
 Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
 7481 Henry Clay Blvd.
 Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 016F0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-18-4
GC Sample ID: SG-18-4
W.O. #: 0

RESULTS: EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
t-1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
111TRICHLOROETHANE	0.020	ND
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
 Office of Solid Waste and Emergency Response, Washington, D.C., November 1988.

ND = Not Detected
 NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
 B = Detected in the laboratory blank

Comments:

Signed TJS 5-18-94

Reviewed TJS 6-27-94

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 066R0101 D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WAG.MTH

Sample ID: SG-18-4
GC Sample ID: SG-18-4
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed

TJS 5/18/94

Reviewed

TJS 6/27/94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3206

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 017F0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-19-4.5
GC Sample ID: SG-19-4.5
W.O. #: 0

RESULTS:

**EPA Method 8010/8020
Gas Chromatography for Volatile Organics**

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
1,1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
1,1,1-TRICHLOROETHANE	0.020	0.05
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed TJS 5-18-94

Reviewed TJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 067R0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WAG.MTH

Sample ID: SG-19-4.5
GC Sample ID: SG-19-4.5
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed CJS 5-18-94

Reviewed CJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
 Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
 7481 Henry Clay Blvd.
 Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 018F0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-20-5
GC Sample ID: SG-20-5
W.O. #: 0

RESULTS: EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
1,1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	1.0
1,1,1-TRICHLOROETHANE	0.020	ND
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	ND
TETRACHLOROETHENE	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
 Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
 NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
 B = Detected in the laboratory blank

Comments:

Signed TJS 5-18-94

Reviewed TJS 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pimie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 068R0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WAG.MTH

Sample ID: SG-20-5
GC Sample ID: SG-20-5
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Notes:

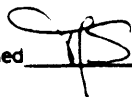
Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Signed

 5-18-94

Reviewed

 6-27-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

ON-SITE LABORATORY

QA/QC RESULTS



Matix Spike/Surrogate Recovery Field Report

Analyst: TJS

File #: C:\HPCHEM\1\DATA\051694-3\003F0101.D

Instr. #: GC # 3

Method: 8010WA MTH

Date Collected: 5/16/94

Date Analyzed: 5/16/94

Sample Name: 50 NG STD

W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,4-DICHLOROBUTANE	52	50	104	80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
VINYL CHLORIDE	50	50	100	75	125
1,1-DICHLOROETHENE	50	50	100	75	125
METHYLENE CHLORIDE	51	50	102	75	125
1,2-DICHLOROETHENE	51	50	101	75	125
1,1-DICHLOROETHANE	50	50	100	75	125
c-1,2-DICHLOROETHENE	53	50	105	75	125
1,1,1-TRICHLOROETHANE	52	50	105	75	125
CARBON TET.	52	50	103	75	125
1,2-DICHLOROETHANE	52	50	103	75	125
TRICHLOROETHENE	52	50	103	75	125
TETRACHLOROETHENE	51	50	103	75	125

TJS 5.17.94

TJS 6.21.94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS

File #: C:\HPCHEM\1\DATA\051694-3\053R0101.D

Instr. #: GC # 3

Method: 8020WA MTH

Date Collected: 5/16/94

Date Analyzed: 5/16/94

Sample Name: 50 NG STD

W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
TRIFLOROTOLUENE	50	50	100	80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
BENZENE	49	50	99	75	125
TOLUENE	50	50	99	75	125
CHLOROBENZENE	49	50	99	75	125
ETHYLBENZENE	49	50	99	75	125
M&P-XYLENE	99	100	99	75	125
O-XYLENE	50	50	100	75	125

9/5
5.17.94

9/5
6.21.94

Matrix Spike/PE Field Report

Analyst: TJS
File #: C:\HPCHEM\1\DATA\051694-3\005F0101.D
Instr. #: GC # 3
Method: 8010WA.MTH
Date Collected: 5/16/94
Date Analyzed: 5/16/94
Sample Name: QC PURGE.B 40 ng
W.O. #: QC PURGE.B 40 ng

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,4-DICHLOROBUTANE	54	50	107	80	120

PE Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,1,2-DICHLOROETHENE	34	40	85	75	125
1,1,1-TRICHLOROETHANE	43	40	108	75	125
1,2-DICHLOROETHANE	41	40	102	75	125

9/5
5.17.94

9/3
6.21.94

Matrix Spike/PE Field Report

Analyst: TJS
File #: C:\HPCHEM\1\DATA\051694-3\055R0101.D
Instr. #: GC # 3
Method: 8020WA.MTH
Date Collected: 5/16/94
Date Analyzed: 5/16/94
Sample Name: QC PURGE.B 40 ng
W.O. #: QC PURGE.B 40 ng

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
TRIFLOROTOLUENE	50	50	101	80	120

PE Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
BENZENE	41	40	103	75	125
TOLUENE	42	40	104	75	125
ETHYLBENZENE	42	40	105	75	125

JS
5.17.94

JS
6.21.94

Preliminary Field Report

PROJECT : GAF Parking Lot Site
 Binghamton, New York
 CLIENT: Malcolm Pirnie, Inc.
 7481 Henry Clay Blvd
 Liverpool, New York 13088

Matrix: WATER
 Analyst: TJS
 File #: 006F0101.D
 Instr. #: GC # 3
 Date Coll: 5/16/94
 Date Analyzed: 5/16/94
 Dilution Factor: 1
 Method: 8010WA.MTH

Sample ID: METHOD BLANK
 GC Sample ID: METHOD BLANK
 W.O. #: 0

RESULTS: EPA Method 8010/8020 Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
VINYL CHLORIDE	2.0	ND
1,1-DICHLOROETHENE	1.0	ND
METHYLENE CHLORIDE	2.0	ND
t-1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
c-1,2-DICHLOROETHENE	1.0	ND
111TRICHLOROETHANE	0.3	ND
CARBON TET.	1.0	ND
1,2-DICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	ND
TETRACHLOROETHENE	0.3	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
 Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
 NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
 B = Detected in the laboratory blank

Comments: Surrogate Recovery = 93 %

Signed TJS 5.17.94

Reviewed TJS 6.21.94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 056R0101 D
Instr. #: GC # 3
Date Coll: 5/16/94
Date Analyzed: 5/16/94
Dilution Factor: 1
Method: 8020WA MTH

Sample ID: METHOD BLANK
GC Sample ID: METHOD BLANK
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
BENZENE	2.0	ND
TOLUENE	2.0	ND
CHLOROBENZENE	2.0	ND
ETHYLBENZENE	2.0	ND
M&P-XYLENE	1.0	ND
O-XYLENE	1.0	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 102 %

Signed TJS 5.17.94

Reviewed TJS 6.2.94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Matrix Spike/PE Field Report

Analyst: TJS

File #: C:\HPCHEM\1\DATA\051694-3\010F0101.D

Instr. #: GC # 3

Method: 8010WA.MTH

Date Collected: 5/16/94

Date Analyzed: 5/16/94

Sample Name: QC PURGE.A 40 ng

W.O. #: QC PURGE.A 40 ng

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,4-DICHLOROBUTANE	50	50	100	80	120

PE Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,1-DICHLOROETHENE	42	40	106	75	125
METHYLENE CHLORIDE	42	40	106	75	125
1,1-DICHLOROETHANE	36	40	91	75	125
CHLOROFORM	40	40	100	75	125
CARBON TET.	38	40	96	75	125
TRICHLOROETHENE	39	40	98	75	125
TETRACHLOROETHENE	45	40	112	75	125

9/5
5.17.94

9/5
6.21.94

Matrix Spike/PE Field Report

Analyst: TJS

File #: C:\HPCHEM\1\DATA\051694-3\060R0101.D

Instr. #: GC # 3

Method: 8020WA MTH

Date Collected: 5/16/94

Date Analyzed: 5/16/94

Sample Name: QC PURGE.A 40 ng

W.O. #: QC PURGE.A 40 ng

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
TRIFLOROTOLUENE	50	50	101	80	120

PE Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
CHLOROBENZENE	40	40	99	75	125

9/5
5.17-94

9/5
6.21-94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS

File #: C:\HPCHEM\1\DATA\051694-3\011F0101.D

Instr. #: GC # 3

Method: 8010WA.MTH

Date Collected: 5/16/94

Date Analyzed: 5/16/94

Sample Name: 50 NG STD

W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,4-DICHLOROBUTANE	50	50	101	80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
VINYL CHLORIDE	50	50	101	75	125
1,1-DICHLOROETHENE	48	50	97	75	125
METHYLENE CHLORIDE	51	50	101	75	125
1,1,2-DICHLOROETHENE	44	50	88	75	125
1,1-DICHLOROETHANE	47	50	95	75	125
c-1,2-DICHLOROETHENE	51	50	103	75	125
1,1,1-TRICHLOROETHANE	52	50	103	75	125
CARBON TET.	50	50	99	75	125
1,2-DICHLOROETHANE	50	50	100	75	125
TRICHLOROETHENE	50	50	100	75	125
TETRACHLOROETHENE	50	50	100	75	125

9/5
6-17-94

6-21-94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS
 File #: C:\HPCHEM\1\DATA\051694-3\061R0101.D
 Instr. #: GC # 3
 Method: 8020WA.MTH
 Date Collected: 5/16/94
 Date Analyzed: 5/16/94
 Sample Name: 50 NG STD
 W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
TRIFLOROTOLUENE	51	50	103	80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
BENZENE	50	50	99	75	125
TOLUENE	48	50	98	75	125
CHLOROBENZENE	49	50	98	75	125
ETHYLBENZENE	51	50	101	75	125
M&P-XYLENE	101	100	101	75	125
O-XYLENE	49	50	97	75	125

9/5
5.17.94

TJS
6.21.94

Matrix Spike/PE Field Report

Analyst: TJS
 File #: C:\HPCHEM\1\DATA\051794-3\013F0101.D
 Instr. #: GC # 3
 Method: 8010WA.MTH
 Date Collected: 5/17/94
 Date Analyzed: 5/17/94
 Sample Name: QC PURGE.A 40 ng
 W.O. #: QC PURGE.A 40 ng

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,4-DICHLOROBUTANE	58	50	116	80	120

PE Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,1-DICHLOROETHENE	46	40	115	75	125
METHYLENE CHLORIDE	42	40	104	75	125
1,1-DICHLOROETHANE	41	40	103	75	125
CHLOROFORM	40	40	100	75	125
CARBON TET.	32	40	79	75	125
TRICHLOROETHENE	34	40	84	75	125
TETRACHLOROETHENE	48	40	121	75	125

TJS
5-17-94

TJS
5-21-94

Matrix Spike/PE Field Report

Analyst: TJS

File #: C:\HPCHEM\1\DATA\051794-3\063R0101.D

Instr. #: GC # 3

Method: 8020WA.MTH

Date Collected: 5/17/94

Date Analyzed: 5/17/94

Sample Name: QC PURGE.A 40 ng

W.O. #: QC PURGE.A 40 ng

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
TRIFLOROTOLUENE	43	50	87	80	120

PE Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
CHLOROBENZENE	35	40	88	75	125

TJS
5-17-94

TJS
6-21-94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS
 File #: C:\HPCHEM\1\DATA\051794-3\010F0101.D
 Instr. #: GC # 3
 Method: 8010WA.MTH
 Date Collected: 5/17/94
 Date Analyzed: 5/17/94
 Sample Name: 50 NG STD
 W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,4-DICHLOROBUTANE	44	50	89	80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
VINYL CHLORIDE	55	50	110	75	125
1,1-DICHLOROETHENE	58	50	116	75	125
METHYLENE CHLORIDE	58	50	117	75	125
1,1,2-DICHLOROETHENE	58	50	112	75	125
1,1-DICHLOROETHANE	59	50	117	75	125
c-1,2-DICHLOROETHENE	59	50	118	75	125
1,1,1-TRICHLOROETHANE	50	50	100	75	125
CARBON TET.	47	50	94	75	125
1,2-DICHLOROETHANE	48	50	93	75	125
TRICHLOROETHENE	47	50	94	75	125
TETRACHLOROETHENE	59	50	118	75	125

JS 5-17-94

JS 6-21-94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS
 File #: C:\HPCHEM\1\DATA\051794-3\060R0101.D
 Instr. #: GC # 3
 Method: 8020WA MTH
 Date Collected: 5/17/94
 Date Analyzed: 5/17/94
 Sample Name: 50 NG STD
 W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
TRIFLOROTOLUENE	22	50	44 *	80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
BENZENE	26	50	52 *	75	125
TOLUENE	15	50	30 *	75	125
CHLOROBENZENE	46	50	92	75	125
ETHYLBENZENE	46	50	92	75	125
M&P-XYLENE	92	100	92	75	125
O-XYLENE	54	50	108	75	125

TJS
5-17-94

TJS
6-21-94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS

File #: C:\HPCHEM\1\DATA\051794-3\022F0101.D

Instr. #: GC # 3

Method: 8010WAG MTH

Date Collected: 5/17/94

Date Analyzed: 5/18/94

Sample Name: 50 NG STD

W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
Standard run on SEC GAS method				80	120
NO surrogates analyzed					
JFS 5-18-94					

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
VINYL CHLORIDE	50	50	99	75	125
1,1-DICHLOROETHENE	57	50	113	75	125
METHYLENE CHLORIDE	49	50	98	75	125
1,1,2-DICHLOROETHENE	57	50	114	75	125
1,1-DICHLOROETHANE	54	50	108	75	125
c-1,2-DICHLOROETHENE	85	50	171 *	75	125
1,1,1-TRICHLOROETHANE	69	50	138 ✓	75	125
CARBON TET.	60	50	120	75	125
1,2-DICHLOROETHANE	60	50	120	75	125
TRICHLOROETHENE	70	50	140 *	75	125
TETRACHLOROETHENE	57	50	115	75	125

JFS 5-18-94

JFS 5-22-94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS
 File #: C:\HPCHEM\1\DATA\051794-3\072R0101.D
 Instr. #: GC # 3
 Method: 8020WAG.MTH
 Date Collected: 5/17/94
 Date Analyzed: 5/18/94
 Sample Name: 50 NG STD
 W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL 80	High CL 120
Standards run on Soil gas method no surrogates analyzed TJS 5-18-94					

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
BENZENE	88	50	176 *	75	125
TOLUENE	51	50	101	75	125
CHLOROBENZENE	52	50	104	75	125
ETHYLBENZENE	52	50	104	75	125
M&P-XYLENE	103	100	103	75	125
O-XYLENE	50	50	100	75	125

CK
 5-18-94

TJS
 6-22-94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS

File #: C:\HPCHEM\1\DATA\051794-3\023F0101.D

Instr. #: GC # 3

Method: 8010WA MTH

Date Collected: 5/17/94

Date Analyzed: 5/18/94

Sample Name: 50 NG STD

W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,4-DICHLOROBUTANE	57	50	115	80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
VINYL CHLORIDE	49	50	98	75	125
1,1-DICHLOROETHENE	62	50	123	75	125
METHYLENE CHLORIDE	65	50	129 *	75	125
1,1,2-DICHLOROETHENE	62	50	123	75	125
1,1-DICHLOROETHANE	56	50	113	75	125
c-1,2-DICHLOROETHENE	70	50	141 *	75	125
1,1,1-TRICHLOROETHANE	54	50	108	75	125
CARBON TET.	46	50	92	75	125
1,2-DICHLOROETHANE	52	50	104	75	125
TRICHLOROETHENE	45	50	91	75	125
TETRACHLOROETHENE	56	50	112	75	125

TJS
5-18-94

TS 5-22-94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS

File #: C:\HPCHEM\1\DATA\051794-3\073R0101.D

Instr. #: GC # 3

Method: 8020WA MTH

Date Collected: 5/17/94

Date Analyzed: 5/18/94

Sample Name: 50 NG STD

W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
TRIFLOROTOLUENE	51	50	103	80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
BENZENE	50	50	100	75	125
TOLUENE	52	50	104	75	125
CHLOROBENZENE	50	50	101	75	125
ETHYLBENZENE	51	50	102	75	125
M&P-XYLENE	102	100	102	75	125
O-XYLENE	51	50	102	75	125

TJS
5-18-94

TJS
6-22-94

Matrix Spike/PE Field Report

Analyst: TJS

File #: C:\HPCHEM1\DATA\051794-3\026F0101.D

Instr. #: GC # 3

Method: 8010WA MTH

Date Collected: 5/17/94

Date Analyzed: 5/18/94

Sample Name: QC PURGE A 40 NG

W.O. #: QC PURGE A 40 ng

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,4-DICHLOROBUTANE	56	50	113	80	120

PE Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,1-DICHLOROETHENE	47	40	119	75	125
METHYLENE CHLORIDE	39	40	97	75	125
1,1-DICHLOROETHANE	45	40	113	75	125
CHLOROFORM	38	40	90	75	125
CARBON TET.	33	40	82	75	125
TRICHLOROETHENE	40	40	100	75	125
TETRACHLOROETHENE	48	40	114	75	125

TJS
5.18.94

QTS
6.22.94

Matrix Spike/PE Field Report

Analyst: TJS

File #: C:\HPCHEM\1\DATA\051794-3\076R0101.D

Instr. #: GC # 3

Method: 8020WA.MTH

Date Collected: 5/17/94

Date Analyzed: 5/18/94

Sample Name: QC PURGE A 40 NG

W.O. #: QC PURGE.A 40 ng

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
TRIFLOROTOLUENE	47	50	93	80	120

PE Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
CHLOROBENZENE	38	40	91	75	125

C/S 5.18.94

C/S 6.22.94

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 028F0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WA.MTH

Sample ID: METHOD BLANK
GC Sample ID: METHOD BLANK
W.O. #: 0

RESULTS: EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
VINYL CHLORIDE	2.0	ND
1,1-DICHLOROETHENE	1.0	ND
METHYLENE CHLORIDE	2.0	ND
1,1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
1,2-DICHLOROETHENE	1.0	ND
CHLOROFORM	1.0	ND
1,1,1-TRICHLOROETHANE	0.3	ND
CARBON TET.	1.0	ND
1,2-DICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	ND
TETRACHLOROETHENE	0.3	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1988.

ND = Not Detected

BQL = Detected below the minimum quantitation limit

NA = Not Analyzed

B = Detected in the laboratory blank

Comments: Surrogate Recovery = 102 %

Signed TJS 5.18.94

Reviewed TJS 6.22.94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 078R0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WA.MTH

Sample ID: METHOD BLANK
GC Sample ID: METHOD BLANK
W.O. #: 0

RESULTS:

EPA Method 8010/8020 Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
BENZENE	2.0	ND
TOLUENE	2.0	ND
CHLOROBENZENE	2.0	ND
ETHYLBENZENE	2.0	ND
M&P-XYLENE	1.0	ND
O-XYLENE	1.0	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 96 %

Signed TJS 5-18-94

Reviewed TJS 6-22-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 033F0101 D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WA.MTH

Sample ID: SGW-1 DUP
GC Sample ID: SGW-1 DUP
W.O. #: 0

RESULTS:

EPA Method 8010/8020 Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L	Sample Result ug/L	RPD
CHLOROETHANE	2.0	ND		
VINYL CHLORIDE	2.0	ND		
1,1-DICHLOROETHENE	1.0	BQL	ND	NA
METHYLENE CHLORIDE	2.0	ND		
1,1,2-DICHLOROETHENE	1.0	ND		
1,1-DICHLOROETHANE	1.0	ND		NA
c-1,2-DICHLOROETHENE	1.0	BQL	ND	22%
CHLOROFORM	1.0	3.0	2.4	NA
1,1,1-TRICHLOROETHANE	0.3	BQL	ND	38%
CARBON TET.	1.0	1.3	1.9	
1,2-DICHLOROETHANE	1.0	ND		
TRICHLOROETHENE	1.0	9.7	10.0	3.0%
TETRACHLOROETHENE	0.3	0.6	0.5	18%

9/5
5.18.94

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 90 %
Duplicate analysis

Signed TJS 5.18.94

Reviewed TJS 6.22.94

Water Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 083R0101.D
Instr. #: GC # 3
Date Coll: 5/17/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WA.MTH

Sample ID: SGW-1 DUP
GC Sample ID: SGW-1 DUP
W.O. #: 0

RESULTS:

EPA Method 8010/8020 Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
ACETONE	2.0	ND
BENZENE	2.0	ND
2-BUTANONE	2.0	ND
TOLUENE	2.0	ND
CHLOROBENZENE	2.0	ND
ETHYLBENZENE	2.0	ND
M&P-XYLENE	1.0	ND
O-XYLENE	1.0	ND

Sample
Result ug/L

ND
↓

RPD
NA
↓

TJS
5-18-94

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 93 %
Duplicate analysis

Signed TJS 5-18-94

Reviewed TJS 6-22-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Matrix Spike/Surrogate Recovery Field Report

Analyst: TJS
 File #: C:\HPCHEM\1\DATA\051794-3\034F0101.D
 Instr. #: GC #3
 Method: 8010WA.MTH
 Date Collected: 5/18/94
 Date Analyzed: 5/18/94
 Sample Name: SGW-1 MS
 W.O. #: SGW-1 MS

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,4-DICHLOROBUTANE	46	50	91	80	120

Matrix Spike

Compound	Sample ng	ng	ng spiked	% Recovery	Low CL	High CL
VINYL CHLORIDE		40	50	79	75	125
1,1-DICHLOROETHENE		59	50	117	75	125
METHYLENE CHLORIDE		55	50	110	75	125
1,1,2-DICHLOROETHENE		47	50	94	75	125
1,1-DICHLOROETHANE		53	50	107	75	125
c-1,2-DICHLOROETHENE		54	50	108	75	125
1,1,1-TRICHLOROETHANE		39	50	78	75	125
CARBON TET.	7	48 33	50	84 66 *	75	125
1,2-DICHLOROETHANE		42	50	84	75	125
TRICHLOROETHENE	48	84 36	50	167 72 *	75	125
TETRACHLOROETHENE	3	30 36	50	77 72 *	75	125

TJS 5-18-94

TJS 5-18-94

chloroform

12 12

0

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TJS 6-22-94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS

File #: C:\HPCHEM\1\DATA\051794-3\084R0101.D

Instr. #: GC # 3

Method: 8020WA.MTH

Date Collected: 5/18/94

Date Analyzed: 5/18/94

Sample Name: SGW-1 MS

W.O. #: SGW-1 MS

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
TRIFLOROTOLUENE	44	50	87	80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
BENZENE	46	50	93	75	125
TOLUENE	44	50	88	75	125
CHLOROBENZENE	46	50	91	75	125
ETHYLBENZENE	45	50	89	75	125
M&P-XYLENE	88	100	88	75	125
O-XYLENE	45	50	90	75	125

TJS
5.18.94

TJS
6.22.94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS

File #: C:\HPCHEM\1\DATA\051794-3\036F0101.D

Instr. #: GC # 3

Method: 8010WA.MTH

Date Collected: 5/18/94

Date Analyzed: 5/18/94

Sample Name: 50 NG STD

W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,4-DICHLOROBUTANE	45	50	89	80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
VINYL CHLORIDE	48	50	96	75	125
1,1-DICHLOROETHENE	50	50	100	75	125
METHYLENE CHLORIDE	50	50	100	75	125
1,1,2-DICHLOROETHENE	64	50	128	75	125
1,1-DICHLOROETHANE	55	50	110	75	125
c-1,2-DICHLOROETHENE	48	50	97	75	125
1,1,1-TRICHLOROETHANE	50	50	101	75	125
CARBON TET.	50	50	99	75	125
1,2-DICHLOROETHANE	50	50	100	75	125
TRICHLOROETHENE	51	50	102	75	125
TETRACHLOROETHENE	52	50	105	75	125

TJS
5.18.94

TJS
6.22.94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS
File #: C:\HPCHEM\1\DATA\051794-3\086R0101.D
Instr. #: GC # 3
Method: 8020WA.MTH
Date Collected: 5/18/94
Date Analyzed: 5/18/94
Sample Name: 50 NG STD
W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
TRIFLOROTOLUENE	45	50	90	80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
BENZENE	45	50	91	75	125
TOLUENE	44	50	89	75	125
CHLOROBENZENE	45	50	90	75	125
ETHYLBENZENE	44	50	88	75	125
M&P-XYLENE	89	100	89	75	125
O-XYLENE	46	50	91	75	125

JS
5.18-94

JS
6.22-94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS

File #: C:\HPCHEM\1\DATA\051894-3\001F0101.D

Instr. #: GC # 3

Method: 8010WAG.MTH

Date Collected: 5/18/94

Date Analyzed: 5/18/94

Sample Name: 50 NG STD

W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
Standard run on Soil gas method no surrogates reported TJS 5-18-94				80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
VINYL CHLORIDE	47	50	95	75	125
1,1-DICHLOROETHENE	54	50	109	75	125
METHYLENE CHLORIDE	52	50	103	75	125
1,1,2-DICHLOROETHENE	55	50	111	75	125
1,1-DICHLOROETHANE	51	50	103	75	125
c-1,2-DICHLOROETHENE	61	50	122	75	125
1,1,1-TRICHLOROETHANE	48	50	96	75	125
CARBON TET.	58	50	116	75	125
1,2-DICHLOROETHANE	67	50	135 *	75	125
TRICHLOROETHENE	34	50	67 *	75	125
TETRACHLOROETHENE	62	50	124	75	125

TJS
6-18-94

TJS
6-22-94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS
 File #: C:\HPCHEM1\DATA\051894-3\051R0101.D
 Instr. #: GC # 3
 Method: 8020WAG.MTH
 Date Collected: 5/18/94
 Date Analyzed: 5/18/94
 Sample Name: 50 NG STD
 W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
Standards run in Soil Gas Method				80	120
No surrogates analyzed					
J/S 5-18-94					

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
BENZENE	48	50	96	75	125
TOLUENE	44	50	88	75	125
CHLOROBENZENE	48	50	97	75	125
ETHYLBENZENE	48	50	96	75	125
M&P-XYLENE	93	100	93	75	125
O-XYLENE	52	50	104	75	125

J/S 5-18-94

J/S 6-22-94

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 002F0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WA.MTH

Sample ID: METHOD BLANK
GC Sample ID: METHOD BLANK
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
VINYL CHLORIDE	2.0	ND
1,1-DICHLOROETHENE	1.0	ND
METHYLENE CHLORIDE	2.0	ND
1,1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
c-1,2-DICHLOROETHENE	1.0	ND
CHLOROFORM	1.0	ND
1,1,1-TRICHLOROETHANE	0.3	ND
CARBON TET.	1.0	ND
1,2-DICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	ND
TETRACHLOROETHENE	0.3	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected

BQL = Detected below the minimum quantitation limit

NA = Not Analyzed

B = Detected in the laboratory blank

Comments: Surrogate Recovery = 89 %

Signed JS 5-18-94

Reviewed JS 6-22-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirmie, Inc.
7481 Henry Clay Blvd
Liverpool, New York 13088

Matrix: WATER
Analyst: TJS
File #: 052R0101.D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WA.MTH

Sample ID: METHOD BLANK
GC Sample ID: METHOD BLANK
W.O. #: 0

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT ug/L	RESULT ug/L
BENZENE	2.0	ND
TOLUENE	2.0	ND
CHLOROBENZENE	2.0	ND
ETHYLBENZENE	2.0	ND
M&P-XYLENE	1.0	ND
O-XYLENE	1.0	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 99 %

Signed GJS 518-94

Reviewed GJS 6-22-94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Matrix Spike/PE Field Report

Analyst: TJS
 File #: C:\HPCHEM\1\DATA\051894-3\003F0101.D
 Instr. #: GC # 3
 Method: 8010WA.MTH
 Date Collected: 5/18/94
 Date Analyzed: 5/18/94
 Sample Name: QC PURGE.A 40 ng
 W.O. #: QC PURGE.A 40 ng

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,4-DICHLOROBUTANE	55	50	110	80	120

PE Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
1,1-DICHLOROETHENE	52	40	130 *	75	125
METHYLENE CHLORIDE	47	40	116	75	125
1,1-DICHLOROETHANE	36	40	91	75	125
CHLOROFORM	40	40	100	75	125
CARBON TET.	41	40	102	75	125
TRICHLOROETHENE	34	40	86	75	125
TETRACHLOROETHENE	46	40	114	75	125

9/5
5-18-94

9/5
6-27-94

Matrix Spike/PE Field Report

Analyst: TJS
File #: C:\HPCHEM\1\DATA\051894-3\053R0101.D
Instr. #: GC # 3
Method: 8020WA.MTH
Date Collected: 5/18/94
Date Analyzed: 5/18/94
Sample Name: QC PURGE.A 40 ng
W.O. #: QC PURGE.A 40 ng

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
TRIFLOROTOLUENE	48	50	96	80	120

PE Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
CHLOROBENZENE	37	40	91	75	125

Q/S 5.18.94

Q/S 6.27.94

Preliminary Field Report

PROJECT : GAF Parking Lot Site
 Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
 7481 Henry Clay Blvd.
 Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 012F0101 D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8010WAG.MTH

Sample ID: SG-13-4 DUP
GC Sample ID: SG-13-4 DUP
W.O. #: 0

RESULTS:

**EPA Method 8010/8020
 Gas Chromatography for Volatile Organics**

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
CHLOROETHANE	0.040	ND
VINYL CHLORIDE	0.040	ND
1,1-DICHLOROETHENE	0.020	ND
METHYLENE CHLORIDE	0.020	ND
1,1,2-DICHLOROETHENE	0.020	ND
1,1-DICHLOROETHANE	0.020	ND
c-1,2-DICHLOROETHENE	0.020	ND
CHLOROFORM	0.020	ND
111TRICHLOROETHANE	0.020	22.0 -
CARBON TET.	0.020	ND
1,2-DICHLOROETHANE	0.020	ND
TRICHLOROETHENE	0.020	0.14 -
TETRACHLOROETHENE	0.020	ND

Sample Result ng/cu.m.

RPD

19.0 15%

0.16 13%

Q15 5.18.94

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020
 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A.
 Office of Solid Waste and Emergency Response, Washington, D.C., November 1988.

ND = Not Detected
 NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
 B = Detected in the laboratory blank

Comments:

Duplicate analysis

Signed TJS 5.18.94

Reviewed Q15 6.27.94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Preliminary Field Report

PROJECT : GAF Parking Lot Site
Binghamton, New York
CLIENT: Malcolm Pirnie, Inc.
7481 Henry Clay Blvd.
Liverpool, New York 13088

Matrix: SOIL GAS
Analyst: TJS
File #: 062R0101 D
Instr. #: GC # 3
Date Coll: 5/18/94
Date Analyzed: 5/18/94
Dilution Factor: 1
Method: 8020WAG.MTH

Sample ID: SG-13-4 DUP
GC Sample ID: SG-13-4 DUP
W.O. #: 0

RESULTS:

**EPA Method 8010/8020
Gas Chromatography for Volatile Organics**

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
ACETONE	0.040	ND
BENZENE	0.040	ND
2-BUTANONE	0.040	ND
TOLUENE	0.040	ND
CHLOROBENZENE	0.040	ND
ETHYLBENZENE	0.040	ND
M&P-XYLENE	0.040	ND
O-XYLENE	0.040	ND

Sample Result mg/cu. m
ND

RPS
NA

↓

↓

JS
5.18.94

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A. Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments:

Duplicate analysis

Signed *JS* 5.18.94

Reviewed *JS* 6.17.94

Tetra K Testing Mobile Laboratory

Westfield, MA

(413)572-3200

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS

File #: C:\HPCHEM\1\DATA\051894-3\019F0101.D

Instr. #: GC # 3

Method: 8010WAG.MTH

Date Collected: 5/18/94

Date Analyzed: 5/18/94

Sample Name: 50 NG STD

W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
Standard run in Son gas method				80	120
NO surrogates analyzed TJS 5.18.94					

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
VINYL CHLORIDE	39	50	78	75	125
1,1-DICHLOROETHENE	47	50	94	75	125
METHYLENE CHLORIDE	40	50	79	75	125
1,1,2-DICHLOROETHENE	41	50	83	75	125
1,1-DICHLOROETHANE	45	50	90	75	125
c-1,2-DICHLOROETHENE	45	50	90	75	125
1,1,1-TRICHLOROETHANE	55	50	110	75	125
CARBON TET.	67	50	135 ✓	75	125
1,2-DICHLOROETHANE	69	50	138 ✓	75	125
TRICHLOROETHENE	46	50	92	75	125
TETRACHLOROETHENE	55	50	109	75	125

TJS 5.18.94

TJS 5.27.94

Matix Spike/Surrogate Recovery Field Report

Analyst: TJS
 File #: C:\HPCHEM\1\DATA\051894-3\069R0101.D
 Instr. #: GC # 3
 Method: 8020WAG MTH
 Date Collected: 5/18/94
 Date Analyzed: 5/18/94
 Sample Name: 50 NG STD
 W.O. #: 50 NG STD

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
Standard run on Soil gas method				80	120
no surrogates analyzed.					
JFS 5.18.94					

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
BENZENE	48	50	96	75	125
TOLUENE	43	50	86	75	125
CHLOROBENZENE	47	50	95	75	125
ETHYLBENZENE	47	50	94	75	125
M&P-XYLENE	90	100	90	75	125
O-XYLENE	52	50	104	75	125

JFS
5.18.94

JFS 5.27.94

LIFE SCIENCE LABORATORIES
GROUNDWATER RESULTS



REVISED SAMPLE ANALYSIS REPORT

L2115-378

LSL Project No.

[Signature]
Reviewed By

6/27/94
Date

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Revised Report.
C:KJR.
MDW
06/29/94

LIFE SCIENCE LABORATORIES, INC.

5854 Butternut Drive, East Syracuse, New York 13057 Telephone: (315) 445-1105 Fax: (315) 445-1301

REVISED SAMPLE ANALYSIS REPORT

06/20/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40506859
Customer ID: MW-2 - 05/18/94
Matrix: NPW

Project #: L2115 -378
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<10	ug/l		05/23/94	CRT
Benzene	<5	ug/l		05/23/94	CRT
Bromodichloromethane	<5	ug/l		05/23/94	CRT
Bromoform	<5	ug/l		05/23/94	CRT
Bromomethane	<10	ug/l		05/23/94	CRT
2-Butanone	<10	ug/l		05/23/94	CRT
Carbon disulfide	<5	ug/l		05/23/94	CRT
Carbon tetrachloride	<5	ug/l		05/23/94	CRT
Chlorobenzene	<5	ug/l		05/23/94	CRT
Chloroethane	93	ug/l		05/23/94	CRT
Chloroform	<5	ug/l		05/23/94	CRT
Chloromethane	<10	ug/l		05/23/94	CRT
Dibromochloromethane	<5	ug/l		05/23/94	CRT
1,1-Dichloroethane	<5	ug/l		05/23/94	CRT
1,2-Dichloroethane	<5	ug/l		05/23/94	CRT
1,1-Dichloroethene	<5	ug/l		05/23/94	CRT
1,2-Dichloroethene, Total	<5	ug/l		05/23/94	CRT
1,2-Dichloropropane	<5	ug/l		05/23/94	CRT
cis-1,3-Dichloropropene	<5	ug/l		05/23/94	CRT
trans-1,3-Dichloropropene	<5	ug/l		05/23/94	CRT
Ethylbenzene	<5	ug/l		05/23/94	CRT
2-Hexanone	<10	ug/l		05/23/94	CRT
Methylene chloride	<5	ug/l		05/23/94	CRT
4-Methyl-2-pentanone	<10	ug/l		05/23/94	CRT
Styrene	<5	ug/l		05/23/94	CRT
1,1,2,2,-Tetrachloroethane	<5	ug/l		05/23/94	CRT
Tetrachloroethene	<5	ug/l		05/23/94	CRT
Toluene	<5	ug/l		05/23/94	CRT
1,1,1-Trichloroethane	<5	ug/l		05/23/94	CRT
1,1,2-Trichloroethane	<5	ug/l		05/23/94	CRT
Trichloroethene	<5	ug/l		05/23/94	CRT
Vinyl acetate	<10	ug/l		05/23/94	CRT

****REVISED SAMPLE ANALYSIS REPORT****

06/20/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40506859
Customer ID: MW-2 - 05/18/94
Matrix: NPW

Project #: L2115 -378

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Vinyl chloride	<10	ug/l		05/23/94	CRT
o-Xylene	<5	ug/l		05/23/94	CRT
m-Xylene	<5	ug/l		05/23/94	CRT
p-Xylene	<5	ug/l		05/23/94	CRT
Cyanide, Total, EPA 335.2	<0.005	mg/l		05/24/94	JDC
Aluminum, EPA 202.1	10	mg/l		05/26/94	KBB
Antimony, EPA 204.2	<0.03	mg/l		06/16/94	CRW
Arsenic, EPA 206.2	0.030	mg/l		06/06/94	CRW
Barium, EPA 208.1	1.8	mg/l		05/26/94	KBB
Beryllium, EPA 210.1	<0.01	mg/l		05/23/94	KBB
Cadmium, EPA 213.1	<0.01	mg/l		05/20/94	KBB
Calcium, EPA 215.1	97	mg/l		05/27/94	JNT
Chromium, Total, EPA 218.1	0.019	mg/l		05/24/94	KBB
Cobalt, EPA 219.1	<0.01	mg/l		05/27/94	KBB
Copper, EPA 220.1	0.70	mg/l		05/20/94	KBB
Iron, EPA 236.1	59	mg/l		06/01/94	JNT
Magnesium, EPA 242.1	24	mg/l		05/27/94	JNT
Manganese, EPA 243.1	0.59	mg/l		05/23/94	KBB
Mercury, EPA 245.1	0.00021	mg/l		05/31/94	KBB
Nickel, EPA 249.1	0.034	mg/l		05/20/94	KBB
Potassium, EPA 258.1	15	mg/l		06/01/94	KBB
Selenium, EPA 270.2	<0.01	mg/l		06/06/94	CRW
Silver, EPA 272.1	0.18	mg/l		05/25/94	KBB
Sodium, EPA 273.1	140	mg/l		06/01/94	JNT
Thallium, EPA 279.2	<0.01	mg/l		06/08/94	CRW
Vanadium, EPA 286.1	0.20	mg/l		05/27/94	KBB
Zinc, EPA 289.1	1.5	mg/l		06/02/94	JNT
Metals Digestion, EPA 600/4-79	batch	709		05/19/94	JEB
Aluminum, Soluble, EPA 202.1	<0.1	mg/l		05/26/94	KBB
Arsenic, Soluble, EPA 206.2	0.026	mg/l		06/07/94	CRW
Barium, Soluble, EPA 208.1	0.82	mg/l		05/26/94	KBB
Beryllium, Soluble, EPA 210.1	<0.01	mg/l		05/23/94	KBB
Cadmium, Soluble, EPA 213.1	<0.01	mg/l		05/20/94	KBB
Calcium, Soluble, EPA 215.1	79	mg/l		05/27/94	JNT
Chromium, Soluble, EPA 218.1	<0.01	mg/l		05/24/94	KBB
Cobalt, Soluble, EPA 219.1	<0.01	mg/l		05/27/94	KBB
Copper, Soluble, EPA 220.1	<0.01	mg/l		05/20/94	KBB

REVISED SAMPLE ANALYSIS REPORT

06/20/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40506859
Customer ID: MW-2 - 05/18/94
Matrix: NPW

Project #: L2115 -378
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initial
Iron,Soluble, EPA 236.1	0.12	mg/l		06/01/94	JNT
Magnesium,Soluble, EPA 242.1	22	mg/l		05/27/94	JNT
Mercury,Soluble, EPA 245.1	<0.0002	mg/l		05/31/94	KBB
Nickel,Soluble, EPA 249.1	<0.02	mg/l		05/20/94	KBB
Potassium,Soluble, EPA 258.1	16	mg/l		06/01/94	KBB
Selenium,Soluble, EPA 270.2	<0.01	mg/l		06/06/94	CRW
Silver,Soluble, EPA 272.1	<0.01	mg/l		05/25/94	KBB
Sodium,Soluble, EPA 273.1	140	mg/l		06/01/94	JNT
Vanadium,Soluble, EPA 286.1	<0.2	mg/l		05/27/94	KBB
Zinc,Soluble, EPA 289.1	0.047	mg/l		06/02/94	JNT
Antimony,Soluble, EPA 204.2	<0.003	mg/l		06/16/94	CRW
Manganese,Soluble, EPA 243.1	0.20	mg/l		05/23/94	KBB
Lead, EPA 239.2	0.48	mg/l		05/31/94	CRW
Lead, Soluble, EPA 239.2	<0.001	mg/l		05/31/94	CRW
Thallium, Soluble, EPA 279.2	<0.01	mg/l		06/08/94	CRW

Sample # 40506860
Customer ID: MW-3 - 05/18/94
Matrix: NPW

Project #: L2115 -378
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<10	ug/l		05/23/94	CRT
Benzene	<5	ug/l		05/23/94	CRT
Bromodichloromethane	<5	ug/l		05/23/94	CRT
Bromoform	<5	ug/l		05/23/94	CRT
Bromomethane	<10	ug/l		05/23/94	CRT
2-Butanone	<10	ug/l		05/23/94	CRT
Carbon disulfide	<5	ug/l		05/23/94	CRT
Carbon tetrachloride	<5	ug/l		05/23/94	CRT
Chlorobenzene	<5	ug/l		05/23/94	CRT
Chloroethane	<10	ug/l		05/23/94	CRT
Chloroform	<5	ug/l		05/23/94	CRT
Chloromethane	<10	ug/l		05/23/94	CRT

****REVISED SAMPLE ANALYSIS REPORT****

06/20/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40506860
Customer ID: MW-3 - 05/18/94
Matrix: NPW

Project #: L2115 -378

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Dibromochloromethane	<5	ug/l		05/23/94	CRT
1,1-Dichloroethane	<5	ug/l		05/23/94	CRT
1,2-Dichloroethane	<5	ug/l		05/23/94	CRT
1,1-Dichloroethene	<5	ug/l		05/23/94	CRT
1,2-Dichloroethene, Total	<5	ug/l		05/23/94	CRT
1,2-Dichloropropane	<5	ug/l		05/23/94	CRT
cis-1,3-Dichloropropene	<5	ug/l		05/23/94	CRT
trans-1,3-Dichloropropene	<5	ug/l		05/23/94	CRT
Ethylbenzene	<5	ug/l		05/23/94	CRT
2-Hexanone	<10	ug/l		05/23/94	CRT
Methylene chloride	<5	ug/l		05/23/94	CRT
4-Methyl-2-pentanone	<10	ug/l		05/23/94	CRT
Styrene	<5	ug/l		05/23/94	CRT
1,1,2,2,-Tetrachloroethane	<5	ug/l		05/23/94	CRT
Tetrachloroethene	<5	ug/l		05/23/94	CRT
Toluene	<5	ug/l		05/23/94	CRT
1,1,1-Trichloroethane	<5	ug/l		05/23/94	CRT
1,1,2-Trichloroethane	<5	ug/l		05/23/94	CRT
Trichloroethene	9.2	ug/l		05/23/94	CRT
Vinyl acetate	<10	ug/l		05/23/94	CRT
Vinyl chloride	<10	ug/l		05/23/94	CRT
o-Xylene	<5	ug/l		05/23/94	CRT
m-Xylene	<5	ug/l		05/23/94	CRT
p-Xylene	<5	ug/l		05/23/94	CRT
Cyanide, Total, EPA 335.2	<0.005	mg/l		05/24/94	JDC
Aluminum, EPA 202.1	4.4	mg/l		05/26/94	KBB
Antimony, EPA 204.2	<0.003	mg/l		06/16/94	CRW
Arsenic, EPA 206.2	<0.01	mg/l		06/06/94	CRW
Barium, EPA 208.1	<0.2	mg/l		05/26/94	KBB
Beryllium, EPA 210.1	<0.01	mg/l		05/23/94	KBB
Cadmium, EPA 213.1	<0.01	mg/l		05/20/94	KBB
Calcium, EPA 215.1	130	mg/l		05/27/94	JNT
Chromium, Total, EPA 218.1	0.010	mg/l		05/24/94	KBB
Cobalt, EPA 219.1	<0.01	mg/l		05/27/94	KBB
Copper, EPA 220.1	0.019	mg/l		05/20/94	KBB
Iron, EPA 236.1	8.7	mg/l		06/01/94	JNT
Magnesium, EPA 242.1	26	mg/l		05/27/94	JNT

****REVISED SAMPLE ANALYSIS REPORT****

06/20/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40506860
Customer ID: MW-3 - 05/18/94
Matrix: NPW

Project #: L2115 -378
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Manganese, EPA 243.1	0.63	mg/l		05/23/94	KBB
Mercury, EPA 245.1	<0.0002	mg/l		05/31/94	KBB
Nickel, EPA 249.1	<0.02	mg/l		05/20/94	KBB
Potassium, EPA 258.1	3.9	mg/l		06/01/94	KBB
Selenium, EPA 270.2	<0.01	mg/l		06/06/94	CRW
Silver, EPA 272.1	0.023	mg/l		05/25/94	KBB
Sodium, EPA 273.1	73	mg/l		06/01/94	JNT
Thallium, EPA 279.2	<0.01	mg/l		06/08/94	CRW
Vanadium, EPA 286.1	<0.2	mg/l		05/27/94	KBB
Zinc, EPA 289.1	0.25	mg/l		06/02/94	JNT
Metals Digestion, EPA 600/4-79	batch	709		05/19/94	JEB
Aluminum, Soluble, EPA 202.1	<0.1	mg/l		05/26/94	KBB
Arsenic, Soluble, EPA 206.2	<0.01	mg/l		06/07/94	CRW
Barium, Soluble, EPA 208.1	<0.2	mg/l		05/26/94	KBB
Beryllium, Soluble, EPA 210.1	<0.01	mg/l		05/23/94	KBB
Cadmium, Soluble, EPA 213.1	<0.01	mg/l		05/20/94	KBB
Calcium, Soluble, EPA 215.1	130	mg/l		05/27/94	JNT
Chromium, Soluble, EPA 218.1	<0.01	mg/l		05/24/94	KBB
Cobalt, Soluble, EPA 219.1	<0.01	mg/l		05/27/94	KBB
Copper, Soluble, EPA 220.1	<0.01	mg/l		05/20/94	KBB
Iron, Soluble, EPA 236.1	0.064	mg/l		06/01/94	JNT
Magnesium, Soluble, EPA 242.1	23	mg/l		05/27/94	JNT
Mercury, Soluble, EPA 245.1	<0.0002	mg/l		05/31/94	KBB
Nickel, Soluble, EPA 249.1	<0.02	mg/l		05/20/94	KBB
Potassium, Soluble, EPA 258.1	3.8	mg/l		06/01/94	KBB
Selenium, Soluble, EPA 270.2	<0.01	mg/l		06/06/94	CRW
Silver, Soluble, EPA 272.1	<0.01	mg/l		05/25/94	KBB
Sodium, Soluble, EPA 273.1	73	mg/l		06/01/94	JNT
Vanadium, Soluble, EPA 286.1	<0.2	mg/l		05/27/94	KBB
Zinc, Soluble, EPA 289.1	0.12	mg/l		06/02/94	JNT
Antimony, Soluble, EPA 204.2	<0.003	mg/l		06/17/94	CRW
Manganese, Soluble, EPA 243.1	0.012	mg/l		05/23/94	KBB
Lead, EPA 239.2	0.0078	mg/l		05/31/94	CRW
Lead, Soluble, EPA 239.2	<0.001	mg/l		05/31/94	CRW
Thallium, Soluble, EPA 279.2	<0.01	mg/l		06/08/94	CRW

****REVISED SAMPLE ANALYSIS REPORT****

06/20/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40506861
Customer ID: MW-X - 05/18/94
Matrix: NPW

Project #: L2115 -378

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<10	ug/l		05/23/94	CRT
Benzene	<5	ug/l		05/23/94	CRT
Bromodichloromethane	<5	ug/l		05/23/94	CRT
Bromoform	<5	ug/l		05/23/94	CRT
Bromomethane	<10	ug/l		05/23/94	CRT
2-Butanone	<10	ug/l		05/23/94	CRT
Carbon disulfide	<5	ug/l		05/23/94	CRT
Carbon tetrachloride	<5	ug/l		05/23/94	CRT
Chlorobenzene	<5	ug/l		05/23/94	CRT
Chloroethane	90	ug/l		05/23/94	CRT
Chloroform	<5	ug/l		05/23/94	CRT
Chloromethane	<10	ug/l		05/23/94	CRT
Dibromochloromethane	<5	ug/l		05/23/94	CRT
1,1-Dichloroethane	<5	ug/l		05/23/94	CRT
1,2-Dichloroethane	<5	ug/l		05/23/94	CRT
1,1-Dichloroethene	<5	ug/l		05/23/94	CRT
1,2-Dichloroethene, Total	<5	ug/l		05/23/94	CRT
1,2-Dichloropropane	<5	ug/l		05/23/94	CRT
cis-1,3-Dichloropropene	<5	ug/l		05/23/94	CRT
trans-1,3-Dichloropropene	<5	ug/l		05/23/94	CRT
Ethylbenzene	<5	ug/l		05/23/94	CRT
2-Hexanone	<10	ug/l		05/23/94	CRT
Methylene chloride	<5	ug/l		05/23/94	CRT
4-Methyl-2-pentanone	<10	ug/l		05/23/94	CRT
Styrene	<5	ug/l		05/23/94	CRT
1,1,2,2,-Tetrachloroethane	<5	ug/l		05/23/94	CRT
Tetrachloroethene	<5	ug/l		05/23/94	CRT
Toluene	<5	ug/l		05/23/94	CRT
1,1,1-Trichloroethane	<5	ug/l		05/23/94	CRT
1,1,2-Trichloroethane	<5	ug/l		05/23/94	CRT
Trichloroethene	<5	ug/l		05/23/94	CRT
Vinyl acetate	<10	ug/l		05/23/94	CRT
Vinyl chloride	<10	ug/l		05/23/94	CRT
o-Xylene	<5	ug/l		05/23/94	CRT
m-Xylene	<5	ug/l		05/23/94	CRT
p-Xylene	<5	ug/l		05/23/94	CRT

****REVISED SAMPLE ANALYSIS REPORT****

06/20/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40506861
Customer ID: MW-X - 05/18/94
Matrix: NPW

Project #: L2115 -378
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Cyanide, Total, EPA 335.2	<0.005	mg/l		05/24/94	JDC
Aluminum, EPA 202.1	4.3	mg/l		05/26/94	KBB
Antimony, EPA 204.2	<0.003	mg/l		06/16/94	CRW
Arsenic, EPA 206.2	<0.01	mg/l		06/06/94	CRW
Barium, EPA 208.1	0.94	mg/l		05/26/94	KBB
Beryllium, EPA 210.1	<0.01	mg/l		05/23/94	KBB
Cadmium, EPA 213.1	<0.01	mg/l		05/20/94	KBB
Calcium, EPA 215.1	79	mg/l		05/27/94	JNT
Chromium, Total, EPA 218.1	0.010	mg/l		05/24/94	KBB
Cobalt, EPA 219.1	<0.01	mg/l		05/27/94	KBB
Copper, EPA 220.1	0.30	mg/l		05/20/94	KBB
Iron, EPA 236.1	16	mg/l		06/01/94	JNT
Magnesium, EPA 242.1	25	mg/l		05/27/94	JNT
Manganese, EPA 243.1	0.35	mg/l		05/23/94	KBB
Mercury, EPA 245.1	<0.0002	mg/l		05/31/94	KBB
Nickel, EPA 249.1	<0.02	mg/l		05/20/94	KBB
Potassium, EPA 258.1	15	mg/l		06/01/94	KBB
Selenium, EPA 270.2	0.013	mg/l		06/06/94	CRW
Silver, EPA 272.1	<0.01	mg/l		05/25/94	KBB
Sodium, EPA 273.1	140	mg/l		06/01/94	JNT
Thallium, EPA 279.2	<0.01	mg/l		06/08/94	CRW
Vanadium, EPA 286.1	<0.2	mg/l		05/27/94	KBB
Zinc, EPA 289.1	0.66	mg/l		06/02/94	JNT
Metals Digestion, EPA 600/4-79	batch	709		05/19/94	JEB
Aluminum, Soluble, EPA 202.1	<0.1	mg/l		05/26/94	KBB
Arsenic, Soluble, EPA 206.2	<0.01	mg/l		06/07/94	CRW
Barium, Soluble, EPA 208.1	0.52	mg/l		05/26/94	KBB
Beryllium, Soluble, EPA 210.1	<0.01	mg/l		05/23/94	KBB
Cadmium, Soluble, EPA 213.1	<0.01	mg/l		05/20/94	KBB
Calcium, Soluble, EPA 215.1	68	mg/l		05/27/94	JNT
Chromium, Soluble, EPA 218.1	<0.01	mg/l		05/24/94	KBB
Cobalt, Soluble, EPA 219.1	<0.01	mg/l		05/27/94	KBB
Copper, Soluble, EPA 220.1	<0.01	mg/l		05/20/94	KBB
Iron, Soluble, EPA 236.1	0.10	mg/l		06/01/94	JNT
Magnesium, Soluble, EPA 242.1	23	mg/l		05/27/94	JNT
Mercury, Soluble, EPA 245.1	<0.0002	mg/l		05/31/94	KBB
Nickel, Soluble, EPA 249.1	<0.02	mg/l		05/20/94	KBB

REVISED SAMPLE ANALYSIS REPORT

06/20/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40506861
Customer ID: MW-X - 05/18/94
Matrix: NPW

Project #: L2115 -378

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Potassium, Soluble, EPA 258.1	15	mg/l		06/01/94	KBB
Selenium, Soluble, EPA 270.2	0.035	mg/l		06/06/94	CRW
Silver, Soluble, EPA 272.1	<0.01	mg/l		05/25/94	KBB
Sodium, Soluble, EPA 273.1	130	mg/l		06/01/94	JNT
Vanadium, Soluble, EPA 286.1	<0.2	mg/l		05/27/94	KBB
Zinc, Soluble, EPA 289.1	0.016	mg/l		06/02/94	JNT
Antimony, Soluble, EPA 204.2	<0.003	mg/l		06/17/94	CRW
Manganese, Soluble, EPA 243.1	0.19	mg/l		05/23/94	KBB
Lead, EPA 239.2	0.18	mg/l		05/31/94	CRW
Lead, Soluble, EPA 239.2	<0.001	mg/l		05/28/94	CRW
Thallium, Soluble, EPA 279.2	<0.01	mg/l		06/08/94	CRW

Sample # 40506862
Customer ID: Trip Blank - 05/18/94
Matrix: NPW
Project #: L2115 -378
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<10	ug/l		05/23/94	CRT
Benzene	<5	ug/l		05/23/94	CRT
Bromodichloromethane	<5	ug/l		05/23/94	CRT
Bromoform	<5	ug/l		05/23/94	CRT
Bromomethane	<10	ug/l		05/23/94	CRT
2-Butanone	<10	ug/l		05/23/94	CRT
Carbon disulfide	<5	ug/l		05/23/94	CRT
Carbon tetrachloride	<5	ug/l		05/23/94	CRT
Chlorobenzene	<5	ug/l		05/23/94	CRT
Chloroethane	<10	ug/l		05/23/94	CRT
Chloroform	<5	ug/l		05/23/94	CRT
Chloromethane	<10	ug/l		05/23/94	CRT
Dibromochloromethane	<5	ug/l		05/23/94	CRT
1,1-Dichloroethane	<5	ug/l		05/23/94	CRT
1,2-Dichloroethane	<5	ug/l		05/23/94	CRT
1,1-Dichloroethene	<5	ug/l		05/23/94	CRT

****REVISED SAMPLE ANALYSIS REPORT****

06/20/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40506862

Project #: L2115 -378

Customer ID: Trip Blank - 05/18/94

Matrix: NPW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
1,2-Dichloroethene, Total	<5	ug/l		05/23/94	CRT
1,2-Dichloropropane	<5	ug/l		05/23/94	CRT
cis-1,3-Dichloropropene	<5	ug/l		05/23/94	CRT
trans-1,3-Dichloropropene	<5	ug/l		05/23/94	CRT
Ethylbenzene	<5	ug/l		05/23/94	CRT
2-Hexanone	<10	ug/l		05/23/94	CRT
Methylene chloride	<5	ug/l		05/23/94	CRT
4-Methyl-2-pentanone	<10	ug/l		05/23/94	CRT
Styrene	<5	ug/l		05/23/94	CRT
1,1,2,2,-Tetrachloroethane	<5	ug/l		05/23/94	CRT
Tetrachloroethene	<5	ug/l		05/23/94	CRT
Toluene	<5	ug/l		05/23/94	CRT
1,1,1-Trichloroethane	<5	ug/l		05/23/94	CRT
1,1,2-Trichloroethane	<5	ug/l		05/23/94	CRT
Trichloroethene	<5	ug/l		05/23/94	CRT
Vinyl acetate	<10	ug/l		05/23/94	CRT
Vinyl chloride	<10	ug/l		05/23/94	CRT
o-Xylene	<5	ug/l		05/23/94	CRT
m-Xylene	<5	ug/l		05/23/94	CRT
p-Xylene	<5	ug/l		05/23/94	CRT

Sample # 40506863

Project #: L2115 -378

Customer ID: SGW-7 - 05/17/94

Matrix: NPW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<10	ug/l		05/23/94	CRT
Benzene	<5	ug/l		05/23/94	CRT
Bromodichloromethane	<5	ug/l		05/23/94	CRT
Bromoform	<5	ug/l		05/23/94	CRT
Bromomethane	<10	ug/l		05/23/94	CRT
2-Butanone	<10	ug/l		05/23/94	CRT

REVISED SAMPLE ANALYSIS REPORT

06/20/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40506863
Customer ID: SGW-7 - 05/17/94
Matrix: NPW

Project #: L2115 -378
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Carbon disulfide	<5	ug/l		05/23/94	CRT
Carbon tetrachloride	<5	ug/l		05/23/94	CRT
Chlorobenzene	<5	ug/l		05/23/94	CRT
Chloroethane	<10	ug/l		05/23/94	CRT
Chloroform	<5	ug/l		05/23/94	CRT
Chloromethane	<10	ug/l		05/23/94	CRT
Dibromochloromethane	<5	ug/l		05/23/94	CRT
1,1-Dichloroethane	<5	ug/l		05/23/94	CRT
1,2-Dichloroethane	43	ug/l		05/23/94	CRT
1,1-Dichloroethene	<5	ug/l		05/23/94	CRT
1,2-Dichloroethene, Total	<5	ug/l		05/23/94	CRT
1,2-Dichloropropane	<5	ug/l		05/23/94	CRT
cis-1,3-Dichloropropene	<5	ug/l		05/23/94	CRT
trans-1,3-Dichloropropene	<5	ug/l		05/23/94	CRT
Ethylbenzene	<5	ug/l		05/23/94	CRT
2-Hexanone	<10	ug/l		05/23/94	CRT
Methylene chloride	<5	ug/l		05/23/94	CRT
4-Methyl-2-pentanone	<10	ug/l		05/23/94	CRT
Styrene	<5	ug/l		05/23/94	CRT
1,1,2,2,-Tetrachloroethane	<5	ug/l		05/23/94	CRT
Tetrachloroethene	<5	ug/l		05/23/94	CRT
Toluene	8.9	ug/l		05/23/94	CRT
1,1,1-Trichloroethane	<5	ug/l		05/23/94	CRT
1,1,2-Trichloroethane	<5	ug/l		05/23/94	CRT
Trichloroethene	<5	ug/l		05/23/94	CRT
Vinyl acetate	<10	ug/l		05/23/94	CRT
Vinyl chloride	<10	ug/l		05/23/94	CRT
o-Xylene	<5	ug/l		05/23/94	CRT
m-Xylene	<5	ug/l		05/23/94	CRT
p-Xylene	<5	ug/l		05/23/94	CRT

****REVISED SAMPLE ANALYSIS REPORT****

06/20/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40506864
Customer ID: SGW-1 - 05/16/94
Matrix: NPW

Project #: L2115 -378
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Cyanide, Total, EPA 335.2	<0.005	mg/l		05/24/94	JDC
Aluminum, EPA 202.1	0.23	mg/l		05/26/94	KBB
Antimony, EPA 204.2	0.0040	mg/l		06/16/94	CRW
Arsenic, EPA 206.2	<0.01	mg/l		06/07/94	CRW
Barium, EPA 208.1	<0.2	mg/l		05/26/94	KBB
Beryllium, EPA 210.1	<0.01	mg/l		05/23/94	KBB
Cadmium, EPA 213.1	<0.01	mg/l		05/20/94	KBB
Calcium, EPA 215.1	130	mg/l		05/27/94	JNT
Chromium, Total, EPA 218.1	<0.01	mg/l		05/24/94	KBB
Cobalt, EPA 219.1	<0.01	mg/l		05/27/94	KBB
Copper, EPA 220.1	<0.01	mg/l		05/20/94	KBB
Iron, EPA 236.1	0.85	mg/l		06/01/94	JNT
Magnesium, EPA 242.1	24	mg/l		05/27/94	JNT
Manganese, EPA 243.1	0.021	mg/l		05/23/94	KBB
Mercury, EPA 245.1	<0.0002	mg/l		05/31/94	KBB
Nickel, EPA 249.1	<0.02	mg/l		05/20/94	KBB
Potassium, EPA 258.1	3.5	mg/l		06/01/94	KBB
Selenium, EPA 270.2	0.021	mg/l		06/06/94	CRW
Silver, EPA 272.1	<0.01	mg/l		05/25/94	KBB
Sodium, EPA 273.1	73	mg/l		06/01/94	JNT
Thallium, EPA 279.2	<0.01	mg/l		06/08/94	CRW
Vanadium, EPA 286.1	<0.2	mg/l		05/27/94	KBB
Zinc, EPA 289.1	0.073	mg/l		06/02/94	JNT
Metals Digestion, EPA 600/4-79	batch	709		05/19/94	JEB
Aluminum, Soluble, EPA 202.1	<0.1	mg/l		05/26/94	KBB
Arsenic, Soluble, EPA 206.2	<0.01	mg/l		06/07/94	CRW
Barium, Soluble, EPA 208.1	<0.2	mg/l		05/26/94	KBB
Beryllium, Soluble, EPA 210.1	<0.01	mg/l		05/23/94	KBB
Cadmium, Soluble, EPA 213.1	<0.01	mg/l		05/20/94	KBB
Calcium, Soluble, EPA 215.1	120	mg/l		05/27/94	JNT
Chromium, Soluble, EPA 218.1	<0.01	mg/l		05/24/94	KBB
Cobalt, Soluble, EPA 219.1	<0.01	mg/l		05/27/94	KBB
Copper, Soluble, EPA 220.1	<0.01	mg/l		05/20/94	KBB
Iron, Soluble, EPA 236.1	0.083	mg/l		06/01/94	JNT
Magnesium, Soluble, EPA 242.1	23	mg/l		05/27/94	JNT
Mercury, Soluble, EPA 245.1	<0.0002	mg/l		05/31/94	KBB
Nickel, Soluble, EPA 249.1	<0.02	mg/l		05/20/94	KBB
Potassium, Soluble, EPA 258.1	3.1	mg/l		06/01/94	KBB

****REVISED SAMPLE ANALYSIS REPORT****

06/20/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40506864
Customer ID: SGW-1 - 05/16/94
Matrix: NPW

Project #: L2115 -378

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Selenium, Soluble, EPA 270.2	0.014	mg/l		06/06/94	CRW
Silver, Soluble, EPA 272.1	<0.01	mg/l		05/25/94	KBB
Sodium, Soluble, EPA 273.1	73	mg/l		06/01/94	JNT
Vanadium, Soluble, EPA 286.1	<0.2	mg/l		05/27/94	KBB
Zinc, Soluble, EPA 289.1	0.073	mg/l		06/02/94	JNT
Antimony, Soluble, EPA 204.2	<0.003	mg/l		06/16/94	CRW
Manganese, Soluble, EPA 243.1	<0.01	mg/l		05/23/94	KBB
Lead, EPA 239.2	0.0016	mg/l		05/28/94	CRW
Lead, Soluble, EPA 239.2	<0.001	mg/l		05/28/94	CRW
Thallium, Soluble, EPA 279.2	<0.01	mg/l		06/08/94	CRW

Sample # 40506865
Customer ID: Filter Blank - 05/17/94
Matrix: NPW
Project #: L2115 -378
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Metals Digestion, EPA 600/4-79	batch	709		05/19/94	JEB
Aluminum, Soluble, EPA 202.1	<0.1	mg/l		05/26/94	KBB
Arsenic, Soluble, EPA 206.2	<0.01	mg/l		06/07/94	CRW
Barium, Soluble, EPA 208.1	<0.2	mg/l		05/26/94	KBB
Beryllium, Soluble, EPA 210.1	<0.01	mg/l		05/23/94	KBB
Cadmium, Soluble, EPA 213.1	<0.01	mg/l		05/20/94	KBB
Calcium, Soluble, EPA 215.1	<7	mg/l		05/27/94	JNT
Chromium, Soluble, EPA 218.1	<0.01	mg/l		05/24/94	KBB
Cobalt, Soluble, EPA 219.1	<0.01	mg/l		05/27/94	KBB
Copper, Soluble, EPA 220.1	<0.01	mg/l		05/20/94	KBB
Iron, Soluble, EPA 236.1	0.046	mg/l		06/01/94	JNT
Magnesium, Soluble, EPA 242.1	<2	mg/l		05/27/94	JNT
Mercury, Soluble, EPA 245.1	<0.0002	mg/l		05/31/94	KBB
Nickel, Soluble, EPA 249.1	<0.02	mg/l		05/20/94	KBB
Potassium, Soluble, EPA 258.1	<1	mg/l		06/01/94	KBB
Selenium, Soluble, EPA 270.2	<0.01	mg/l		06/06/94	CRW
Silver, Soluble, EPA 272.1	<0.01	mg/l		05/25/94	JNT
Sodium, Soluble, EPA 273.1	<0.7	mg/l		06/01/94	JNT
Vanadium, Soluble, EPA 286.1	<0.2	mg/l		05/27/94	KBB

REVISED SAMPLE ANALYSIS REPORT

06/20/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40506865 Project #: L2115 -378
Customer ID: Filter Blank - 05/17/94
Matrix: NPW Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Zinc, Soluble, EPA 289.1	<0.01	mg/l		06/02/94	JNT
Antimony, Soluble, EPA 204.2	<0.003	mg/l		06/16/94	CRW
Manganese, Soluble, EPA 243.1	<0.01	mg/l		05/23/94	KBB
Thallium, EPA 279.2	<0.01	mg/l		06/07/94	CRW
Lead, Soluble, EPA 239.2	<0.001	mg/l		05/31/94	CRW

Sample # 40506866 Project #: L2115 -378
Customer ID: Trip Blank - 05/18/94
Matrix: NPW Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<10	ug/l		05/23/94	CRT
Benzene	<5	ug/l		05/23/94	CRT
Bromodichloromethane	<5	ug/l		05/23/94	CRT
Bromoform	<5	ug/l		05/23/94	CRT
Bromomethane	<10	ug/l		05/23/94	CRT
2-Butanone	<10	ug/l		05/23/94	CRT
Carbon disulfide	<5	ug/l		05/23/94	CRT
Carbon tetrachloride	<5	ug/l		05/23/94	CRT
Chlorobenzene	<5	ug/l		05/23/94	CRT
Chloroethane	<10	ug/l		05/23/94	CRT
Chloroform	<5	ug/l		05/23/94	CRT
Chloromethane	<10	ug/l		05/23/94	CRT
Dibromochloromethane	<5	ug/l		05/23/94	CRT
1,1-Dichloroethane	<5	ug/l		05/23/94	CRT
1,2-Dichloroethane	<5	ug/l		05/23/94	CRT
1,1-Dichloroethene	<5	ug/l		05/23/94	CRT
1,2-Dichloroethene, Total	<5	ug/l		05/23/94	CRT
1,2-Dichloropropane	<5	ug/l		05/23/94	CRT
cis-1,3-Dichloropropene	<5	ug/l		05/23/94	CRT
trans-1,3-Dichloropropene	<5	ug/l		05/23/94	CRT
Ethylbenzene	<5	ug/l		05/23/94	CRT
2-Hexanone	<10	ug/l		05/23/94	CRT

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East Syracuse, New York 13057
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NYS DOH ELAP NO. 10248

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****REVISED SAMPLE ANALYSIS REPORT****

06/20/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40506866

Project #: L2115 -378

Customer ID: Trip Blank - 05/18/94

Matrix: NPW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
-----	-----	-----	-----	-----	-----
Methylene chloride	<5	ug/l		05/23/94	CRT
4-Methyl-2-pentanone	<10	ug/l		05/23/94	CRT
Styrene	<5	ug/l		05/23/94	CRT
1,1,2,2,-Tetrachloroethane	<5	ug/l		05/23/94	CRT
Tetrachloroethene	<5	ug/l		05/23/94	CRT
Toluene	<5	ug/l		05/23/94	CRT
1,1,1-Trichloroethane	<5	ug/l		05/23/94	CRT
1,1,2-Trichloroethane	<5	ug/l		05/23/94	CRT
Trichloroethene	<5	ug/l		05/23/94	CRT
Vinyl acetate	<10	ug/l		05/23/94	CRT
Vinyl chloride	<10	ug/l		05/23/94	CRT
o-Xylene	<5	ug/l		05/23/94	CRT
m-Xylene	<5	ug/l		05/23/94	CRT
p-Xylene	<5	ug/l		05/23/94	CRT

LIFE SCIENCE LABORATORIES

TRENCH SOIL RESULTS



REVISED SAMPLE ANALYSIS REPORT

L2115-380
LSL Project No.

Jack H. Hennessey
Reviewed By

7/8/94
Date

NOTE: For All Total Coliform Results:

The New York State Sanitary Code states that if any coliform bacteria are found to be present (1 or greater), then a maximum contaminant level (MCL) violation has occurred. Samples must be "Negative" for this test in order to be acceptable by this NYS standard.

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By Client's acceptance and/or use of this report, Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect Client as regards to the results contained in this report. Client further agrees that the only remedy available to Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to Client.

The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without the express prior written consent of Life Science Laboratories, Inc.

C: KJR 07/11/94
MDW

LIFE SCIENCE LABORATORIES, INC.

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** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
2481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507490
Customer ID: TP2-S1 - 5/25/94
Matrix: SHW

Project #: L2115 -380
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<400	ug/kg		05/31/94	KMG
Benzene	<200	ug/kg		05/31/94	KMG
Bromodichloromethane	<200	ug/kg		05/31/94	KMG
Bromoform	<200	ug/kg		05/31/94	KMG
Bromomethane	<400	ug/kg		05/31/94	KMG
2-Butanone	<400	ug/kg		05/31/94	KMG
Carbon disulfide	<200	ug/kg		05/31/94	KMG
Carbon tetrachloride	<200	ug/kg		05/31/94	KMG
Chlorobenzene	<200	ug/kg		05/31/94	KMG
Chloroethane	<400	ug/kg		05/31/94	KMG
Chloroform	3700	ug/kg		05/31/94	KMG
Chloromethane	<400	ug/kg		05/31/94	KMG
Dibromochloromethane	<200	ug/kg		05/31/94	KMG
1,1-Dichloroethane	<200	ug/kg		05/31/94	KMG
1,2-Dichloroethane	<200	ug/kg		05/31/94	KMG
1,1-Dichloroethene	<200	ug/kg		05/31/94	KMG
1,2-Dichloroethene, Total	<200	ug/kg		05/31/94	KMG
1,2-Dichloropropane	<200	ug/kg		05/31/94	KMG
cis-1,3-Dichloropropene	<200	ug/kg		05/31/94	KMG
trans-1,3-Dichloropropene	<200	ug/kg		05/31/94	KMG
Ethylbenzene	<200	ug/kg		05/31/94	KMG
2-Hexanone	<400	ug/kg		05/31/94	KMG
Methylene chloride	<200	ug/kg		05/31/94	KMG
4-Methyl-2-pentanone	<400	ug/kg		05/31/94	KMG
Styrene	<200	ug/kg		05/31/94	KMG
1,1,2,2,-Tetrachloroethane	<200	ug/kg		05/31/94	KMG
Tetrachloroethene	<200	ug/kg		05/31/94	KMG
Toluene	<200	ug/kg		05/31/94	KMG
1,1,1-Trichloroethane	650	ug/kg		05/31/94	KMG
1,1,2-Trichloroethane	<200	ug/kg		05/31/94	KMG
Trichloroethene	<200	ug/kg		05/31/94	KMG
Vinyl acetate	<400	ug/kg		05/31/94	KMG
Vinyl chloride	<400	ug/kg		05/31/94	KMG
o-Xylene	<200	ug/kg		05/31/94	KMG
m-Xylene	<200	ug/kg		05/31/94	KMG
p-Xylene	<200	ug/kg		05/31/94	KMG

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507490
Customer ID: TP2-S1 - 5/25/94
Matrix: SHW

Project #: L2115 -380
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8270 Semi-Volatiles (B/N)					
Acenaphthene	<0.2	mg/kg		06/04/94	CRT
Acenaphthylene	<0.2	mg/kg		06/04/94	CRT
Anthracene	<0.2	mg/kg		06/04/94	CRT
Benzo(a)anthracene	<0.2	mg/kg		06/04/94	CRT
Benzo(b)fluoranthene	<0.2	mg/kg		06/04/94	CRT
Benzo(k)fluoranthene	<0.2	mg/kg		06/04/94	CRT
Benzo(g,h,i)perylene	<0.2	mg/kg		06/04/94	CRT
Benzo(a)pyrene	<0.2	mg/kg		06/04/94	CRT
4-Bromophenyl phenyl ether	<0.2	mg/kg		06/04/94	CRT
Butylbenzylphthalate	<0.2	mg/kg		06/04/94	CRT
Carbazole	<0.4	mg/kg		06/04/94	CRT
4-Chloroaniline	<0.2	mg/kg		06/04/94	CRT
bis(2-Chloroethoxy)methane	<0.2	mg/kg		06/04/94	CRT
bis(2-Chloroethyl)ether	<0.2	mg/kg		06/04/94	CRT
2-Chloronaphthalene	<0.2	mg/kg		06/04/94	CRT
4-Chlorophenyl phenyl ether	<0.2	mg/kg		06/04/94	CRT
Chrysene	<0.2	mg/kg		06/04/94	CRT
Dibenz(a,h)anthracene	<0.2	mg/kg		06/04/94	CRT
Dibenzofuran	<0.2	mg/kg		06/04/94	CRT
Dibutylphthalate	0.51	mg/kg		06/04/94	CRT
1,2-Dichlorobenzene	<0.2	mg/kg		06/04/94	CRT
1,3-Dichlorobenzene	<0.2	mg/kg		06/04/94	CRT
1,4-Dichlorobenzene	<0.2	mg/kg		06/04/94	CRT
3,3'-Dichlorobenzidine	<0.4	mg/kg		06/04/94	CRT
Diethylphthalate	<0.2	mg/kg		06/04/94	CRT
Dimethylphthalate	<0.2	mg/kg		06/04/94	CRT
2,4-Dinitrotoluene	<0.2	mg/kg		06/04/94	CRT
2,6-Dinitrotoluene	<0.2	mg/kg		06/04/94	CRT
Di-n-octyl phthalate	<0.2	mg/kg		06/04/94	CRT
bis(2-Ethylhexyl)phthalate	<0.2	mg/kg		06/04/94	CRT
Fluoranthene	<0.2	mg/kg		06/04/94	CRT
Fluorene	<0.2	mg/kg		06/04/94	CRT
Hexachlorobenzene	<0.2	mg/kg		06/04/94	CRT
Hexachlorobutadiene	<0.2	mg/kg		06/04/94	CRT
Hexachlorocyclopentadiene	<0.2	mg/kg		06/04/94	CRT
Hexachloroethane	<0.2	mg/kg		06/04/94	CRT
Indeno(1,2,3-c,d)pyrene	<0.2	mg/kg		06/04/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507490
Customer ID: TP2-S1 - 5/25/94
Matrix: SHW

Project #: L2115 -380
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Isophorone	<0.2	mg/kg		06/04/94	CRT
2-Methylnaphthalene	<0.2	mg/kg		06/04/94	CRT
Naphthalene	<0.2	mg/kg		06/04/94	CRT
2-Nitroaniline	<0.4	mg/kg		06/04/94	CRT
3-Nitroaniline	<0.4	mg/kg		06/04/94	CRT
4-Nitroaniline	<0.4	mg/kg		06/04/94	CRT
Nitrobenzene	<0.2	mg/kg		06/04/94	CRT
N-Nitrosodiphenylamine	<0.2	mg/kg		06/04/94	CRT
N-Nitrosodipropylamine	<0.2	mg/kg		06/04/94	CRT
Phenanthrene	<0.2	mg/kg		06/04/94	CRT
Pyrene	<0.2	mg/kg		06/04/94	CRT
1,2,4-Trichlorobenzene	<0.2	mg/kg		06/04/94	CRT
EPA 8270 Semi-Volatiles (Acids)					
4-Chloro-3-methylphenol	<0.2	mg/kg		06/04/94	CRT
2-Chlorophenol	<0.2	mg/kg		06/04/94	CRT
2,4-Dichlorophenol	<0.2	mg/kg		06/04/94	CRT
2,4-Dimethylphenol	<0.2	mg/kg		06/04/94	CRT
2,4-Dinitrophenol	<0.2	mg/kg		06/04/94	CRT
2-Methyl-4,6-dinitrophenol	<0.4	mg/kg		06/04/94	CRT
2-Methylphenol	<0.2	mg/kg		06/04/94	CRT
2-Nitrophenol	<0.2	mg/kg		06/04/94	CRT
4-Nitrophenol	<0.2	mg/kg		06/04/94	CRT
Pentachlorophenol	<0.4	mg/kg		06/04/94	CRT
Phenol	<0.2	mg/kg		06/04/94	CRT
2,4,5-Trichlorophenol	<0.2	mg/kg		06/04/94	CRT
2,4,6-Trichlorophenol	<0.2	mg/kg		06/04/94	CRT
EPA 8080 TCL Pesticides/PCB's					
alpha-BHC	<0.01	mg/kg	a	06/19/94	KMS
beta-BHC	<0.01	mg/kg		06/19/94	KMS
delta-BHC	<0.01	mg/kg		06/19/94	KMS
gamma-BHC (Lindane)	<0.01	mg/kg		06/19/94	KMS
Heptachlor	<0.01	mg/kg		06/19/94	KMS
Aldrin	<0.01	mg/kg		06/19/94	KMS
Heptachlor epoxide	<0.01	mg/kg		06/19/94	KMS
Endosulfan I	<0.01	mg/kg		06/19/94	KMS
Dieldrin	<0.02	mg/kg		06/19/94	KMS

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507490
Customer ID: TP2-S1 - 5/25/94
Matrix: SHW

Project #: L2115 -380
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
4,4'-DDE	<0.02	mg/kg		06/19/94	KMS
Endrin	<0.02	mg/kg		06/19/94	KMS
Endosulfan 11	<0.04	mg/kg		06/19/94	KMS
4,4'-DDD	<0.04	mg/kg		06/19/94	KMS
Endosulfan sulfate	<0.04	mg/kg		06/19/94	KMS
4,4'-DDT	<0.04	mg/kg		06/19/94	KMS
Methoxychlor	<0.1	mg/kg		06/19/94	KMS
Endrin Ketone	<0.04	mg/kg		06/19/94	KMS
alpha-Chlordane	<0.01	mg/kg		06/19/94	KMS
gamma-Chlordane	<0.01	mg/kg		06/19/94	KMS
Toxaphene	<0.4	mg/kg		06/19/94	KMS
Aroclor-1016	<0.2	mg/kg		06/19/94	KMS
Aroclor-1221	<0.2	mg/kg		06/19/94	KMS
Aroclor-1232	<0.2	mg/kg		06/19/94	KMS
Aroclor-1242	<0.2	mg/kg		06/19/94	KMS
Aroclor-1248	<0.2	mg/kg		06/19/94	KMS
Aroclor-1254	<0.2	mg/kg		06/19/94	KMS
Aroclor-1260	<0.2	mg/kg		06/19/94	KMS
Extraction, EPA 3550A, PCB/Pest				05/31/94	HR
Extraction, EPA 3550A, BNA				05/31/94	HR
Aluminum, EPA 7020	2500	mg/kg	b	06/08/94	KBB
Antimony, EPA 7041	4.8	mg/kg		06/29/94	CRW
Arsenic, EPA 7060	8.4	mg/kg		06/22/94	CRW
Barium, EPA 7080	110	mg/kg		06/07/94	KBB
Beryllium, EPA 7090	<1	mg/kg		06/01/94	KBB
Cadmium, EPA 7130	<1	mg/kg		06/07/94	KBB
Calcium, EPA 7140	7200	mg/kg		06/08/94	JNT
Chromium, EPA 7190	4.8	mg/kg	b	06/06/94	KBB
Cobalt, EPA 7200	1.3	mg/kg		06/08/94	KBB
Copper, EPA 7210	28	mg/kg		06/03/94	JNT
Iron, EPA 7380	15	mg/kg		06/01/94	JNT
Lead, EPA 7421	<20	mg/kg		06/27/94	JNT
Magnesium, EPA 7450	260	mg/kg		06/08/94	JNT
Manganese, EPA 7460	47	mg/kg		06/08/94	KBB
Mercury, EPA 7471	<0.1	mg/kg		06/03/94	KBB
Nickel, EPA 7520	6.6	mg/kg	b	06/06/94	KBB

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
2481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507490
Customer ID: TP2-S1 - 5/25/94
Matrix: SHW

Project #: L2115 -380
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Potassium, EPA 7610	310	mg/kg		06/01/94	KBB
Selenium, EPA 7740	5.2	mg/kg		06/25/94	CRW
Silver, EPA 7760	<1	mg/kg		06/14/94	KBB
Sodium, EPA 7770	<70	mg/kg		06/01/94	JNT
Thallium, EPA 7841	<10	mg/kg		06/23/94	KBB
Vanadium, EPA 7911	<20	mg/kg		06/23/94	KBB
Zinc, EPA 7950	9.9	mg/kg		06/02/94	JNT
Metals Digestion, EPA SW846, c3	batch	741		06/01/94	JEB
Cyanide, Total, EPA 335.2	1.6	mg/kg		05/31/94	JDC
Corrosivity, as pH, EPA 9045	5.2	Std Units		05/31/94	HMP
Ignitability, EPA 1010	>60	Degrees C		06/10/94	JDC
Cyanide Reactivity, SW846, 7.3	<20	mg/kg		05/31/94	JDC
Sulfide Reactivity, SW846, 7.3	<10	mg/kg		06/01/94	HMP
2,4-D, EP Tox, EPA 8150A	<0.02	ug/l		06/14/94	KMS
Silvex, EP Tox, EPA 8150A	<0.02	ug/l		06/14/94	KMS
Lindane, EP Tox	<0.04	ug/l		06/13/94	KMS
Endrin, EP Tox	<0.06	ug/l		06/13/94	KMS
Methoxychlor, EP Tox	<0.4	ug/l		06/13/94	KMS
Toxaphene, EP Tox	<1	ug/l		06/13/94	KMS
Extraction, EPA 3510A, EPTox Herb				06/07/94	HR
Extraction, EPA 3510A, EPTox Pest				06/07/94	HR
Extraction, EP Toxicity				06/02/94	TER
Arsenic, EP Tox, EPA 206.2	<0.1	mg/l		06/14/94	CRW
Barium, EP Tox, EPA 208.1	<2	mg/l		06/15/94	KBB
Cadmium, EP Tox, EPA 213.1	<0.1	mg/l		06/13/94	KBB
Chromium, Total, EP Tox, EPA 218.	0.12	mg/l		06/13/94	KBB
Lead, EP Tox, EPA 239.1	<0.5	mg/l		06/10/94	KBB
Mercury, EP Tox, EPA 245.1	<0.002	mg/l		06/10/94	KBB
Selenium, EP Tox, EPA 270.2	<0.1	mg/l		06/14/94	CRW
Silver, EP Tox, EPA 272.1	<0.1	mg/l		06/14/94	KBB
Metals Digestion, EP Tox	batch	757		06/08/94	JEB

a- Elevated detection limit due to matrix interference

b- Result should be considered to be an estimate due to matrix interferences.

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507491
Customer ID: TP1-S1 - 5/25/94
Matrix: SHW

Project #: L2115 -380

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<10	ug/kg		05/29/94	CRT
Benzene	<5	ug/kg		05/29/94	CRT
Bromodichloromethane	<5	ug/kg		05/29/94	CRT
Bromoform	<5	ug/kg		05/29/94	CRT
Bromomethane	<10	ug/kg		05/29/94	CRT
2-Butanone	<10	ug/kg		05/29/94	CRT
Carbon disulfide	<5	ug/kg		05/29/94	CRT
Carbon tetrachloride	<5	ug/kg		05/29/94	CRT
Chlorobenzene	<5	ug/kg		05/29/94	CRT
Chloroethane	<10	ug/kg		05/29/94	CRT
Chloroform	<5	ug/kg		05/29/94	CRT
Chloromethane	<10	ug/kg		05/29/94	CRT
Dibromochloromethane	<5	ug/kg		05/29/94	CRT
1,1-Dichloroethane	<5	ug/kg		05/29/94	CRT
1,2-Dichloroethane	<5	ug/kg		05/29/94	CRT
1,1-Dichloroethene	<5	ug/kg		05/29/94	CRT
1,2-Dichloroethene, Total	<5	ug/kg		05/29/94	CRT
1,2-Dichloropropane	<5	ug/kg		05/29/94	CRT
cis-1,3-Dichloropropene	<5	ug/kg		05/29/94	CRT
trans-1,3-Dichloropropene	<5	ug/kg		05/29/94	CRT
Ethylbenzene	<5	ug/kg		05/29/94	CRT
2-Hexanone	<10	ug/kg		05/29/94	CRT
Methylene chloride	47	ug/kg	a	05/29/94	CRT
4-Methyl-2-pentanone	<10	ug/kg		05/29/94	CRT
Styrene	<5	ug/kg		05/29/94	CRT
1,1,2,2,-Tetrachloroethane	<5	ug/kg		05/29/94	CRT
Tetrachloroethene	<5	ug/kg		05/29/94	CRT
Toluene	6.9	ug/kg		05/29/94	CRT
1,1,1-Trichloroethane	<5	ug/kg		05/29/94	CRT
1,1,2-Trichloroethane	<5	ug/kg		05/29/94	CRT
Trichloroethene	<5	ug/kg		05/29/94	CRT
Vinyl acetate	<10	ug/kg		05/29/94	CRT
Vinyl chloride	<10	ug/kg		05/29/94	CRT
p-Xylene	<5	ug/kg		05/29/94	CRT
m-Xylene	<5	ug/kg		05/29/94	CRT
p-Xylene	<5	ug/kg		05/29/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507491
Customer ID: TP1-S1 - 5/25/94
Matrix: SHW

Project #: L2115 -380
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8270 Semi-Volatiles (B/N)					
Acenaphthene	<8	mg/kg	b	06/04/94	CRT
Acenaphthylene	<8	mg/kg		06/04/94	CRT
Anthracene	<8	mg/kg		06/04/94	CRT
Benzo(a)anthracene	<8	mg/kg		06/04/94	CRT
Benzo(b)fluoranthene	<8	mg/kg		06/04/94	CRT
Benzo(k)fluoranthene	<8	mg/kg		06/04/94	CRT
Benzo(g,h,i)perylene	<8	mg/kg		06/04/94	CRT
Benzo(a)pyrene	<8	mg/kg		06/04/94	CRT
4-Bromophenyl phenyl ether	<8	mg/kg		06/04/94	CRT
Butylbenzylphthalate	<8	mg/kg		06/04/94	CRT
Carbazole	<20	mg/kg		06/04/94	CRT
4-Chloroaniline	<8	mg/kg		06/04/94	CRT
bis(2-Chloroethoxy)methane	<8	mg/kg		06/04/94	CRT
bis(2-Chloroethyl)ether	<8	mg/kg		06/04/94	CRT
2-Chloronaphthalene	<8	mg/kg		06/04/94	CRT
4-Chlorophenyl phenyl ether	<8	mg/kg		06/04/94	CRT
Chrysene	<8	mg/kg		06/04/94	CRT
Dibenz(a,h)anthracene	<8	mg/kg		06/04/94	CRT
Dibenzofuran	<8	mg/kg		06/04/94	CRT
Dibutylphthalate	<8	mg/kg		06/04/94	CRT
1,2-Dichlorobenzene	<8	mg/kg		06/04/94	CRT
1,3-Dichlorobenzene	<8	mg/kg		06/04/94	CRT
1,4-Dichlorobenzene	<8	mg/kg		06/04/94	CRT
3,3'-Dichlorobenzidine	<20	mg/kg		06/04/94	CRT
Diethylphthalate	<8	mg/kg		06/04/94	CRT
Dimethylphthalate	<8	mg/kg		06/04/94	CRT
2,4-Dinitrotoluene	<8	mg/kg		06/04/94	CRT
2,6-Dinitrotoluene	<8	mg/kg		06/04/94	CRT
Di-n-octyl phthalate	<8	mg/kg		06/04/94	CRT
bis(2-Ethylhexyl)phthalate	<8	mg/kg		06/04/94	CRT
Fluoranthene	<8	mg/kg		06/04/94	CRT
Fluorene	<8	mg/kg		06/04/94	CRT
Hexachlorobenzene	<8	mg/kg		06/04/94	CRT
Hexachlorobutadiene	<8	mg/kg		06/04/94	CRT
Hexachlorocyclopentadiene	<8	mg/kg		06/04/94	CRT
Hexachloroethane	<8	mg/kg		06/04/94	CRT
Indeno(1,2,3-c,d)pyrene	<8	mg/kg		06/04/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507491
Customer ID: TP1-S1 - 5/25/94
Matrix: SHW

Project #: L2115 -380
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Isophorone	<8	mg/kg		06/04/94	CRT
2-Methylnaphthalene	<8	mg/kg		06/04/94	CRT
Naphthalene	<8	mg/kg		06/04/94	CRT
2-Nitroaniline	<20	mg/kg		06/04/94	CRT
3-Nitroaniline	<20	mg/kg		06/04/94	CRT
4-Nitroaniline	<20	mg/kg		06/04/94	CRT
Nitrobenzene	<8	mg/kg		06/04/94	CRT
N-Nitrosodiphenylamine	<8	mg/kg		06/04/94	CRT
N-Nitrosodipropylamine	<8	mg/kg		06/04/94	CRT
Phenanthrene	<8	mg/kg		06/04/94	CRT
Pyrene	<8	mg/kg		06/04/94	CRT
1,2,4-Trichlorobenzene	<8	mg/kg		06/04/94	CRT
EPA 8270 Semi-Volatiles (Acids)					
4-Chloro-3-methylphenol	<8	mg/kg	b	06/04/94	CRT
2-Chlorophenol	<8	mg/kg		06/04/94	CRT
2,4-Dichlorophenol	<8	mg/kg		06/04/94	CRT
2,4-Dimethylphenol	<8	mg/kg		06/04/94	CRT
2,4-Dinitrophenol	<8	mg/kg		06/04/94	CRT
3-Methyl-4,6-dinitrophenol	<20	mg/kg		06/04/94	CRT
3-Methylphenol	<8	mg/kg		06/04/94	CRT
2-Nitrophenol	<8	mg/kg		06/04/94	CRT
4-Nitrophenol	<8	mg/kg		06/04/94	CRT
Pentachlorophenol	<20	mg/kg		06/04/94	CRT
Phenol	<8	mg/kg		06/04/94	CRT
2,4,5-Trichlorophenol	<8	mg/kg		06/04/94	CRT
2,4,6-Trichlorophenol	<8	mg/kg		06/04/94	CRT
EPA 8080 TCL Pesticides/PCB's					
alpha-BHC	<0.1	mg/kg	b	06/19/94	KMS
beta-BHC	<0.1	mg/kg		06/19/94	KMS
Delta-BHC	<0.1	mg/kg		06/19/94	KMS
gamma-BHC (Lindane)	<0.1	mg/kg		06/19/94	KMS
Heptachlor	<0.1	mg/kg		06/19/94	KMS
Aldrin	<0.1	mg/kg		06/19/94	KMS
Heptachlor epoxide	<0.1	mg/kg		06/19/94	KMS
Endosulfan 1	<0.1	mg/kg		06/19/94	KMS
Dieldrin	<0.2	mg/kg		06/19/94	KMS

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507491
Customer ID: TP1-S1 - 5/25/94
Matrix: SHW

Project #: L2115 -380

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
4,4'-DDE	<0.2	mg/kg		06/19/94	KMS
Endrin	<0.2	mg/kg		06/19/94	KMS
Endosulfan 11	<0.4	mg/kg		06/19/94	KMS
4,4'-DDD	<0.4	mg/kg		06/19/94	KMS
Endosulfan sulfate	<0.4	mg/kg		06/19/94	KMS
4,4'-DDT	<0.4	mg/kg		06/19/94	KMS
Methoxychlor	<1	mg/kg		06/19/94	KMS
Endrin Ketone	<0.4	mg/kg		06/19/94	KMS
alpha-Chlordane	<0.1	mg/kg		06/19/94	KMS
gamma-Chlordane	<0.1	mg/kg		06/19/94	KMS
Toxaphene	<4	mg/kg		06/19/94	KMS
Aroclor-1016	<2	mg/kg		06/19/94	KMS
Aroclor-1221	<2	mg/kg		06/19/94	KMS
Aroclor-1232	<2	mg/kg		06/19/94	KMS
Aroclor-1242	<2	mg/kg		06/19/94	KMS
Aroclor-1248	<2	mg/kg		06/19/94	KMS
Aroclor-1254	<2	mg/kg		06/19/94	KMS
Aroclor-1260	<2	mg/kg		06/19/94	KMS
Extraction, EPA 3550A, PCB/Pest				05/31/94	HR
Extraction, EPA 3550A, BNA				05/31/94	HR
Aluminum, EPA 7020	4300	mg/kg		06/08/94	KBB
Antimony, EPA 7041	1.3	mg/kg	C	06/29/94	CRW
Arsenic, EPA 7060	9.4	mg/kg		06/22/94	CRW
Barium, EPA 7080	100	mg/kg		06/07/94	KBB
Beryllium, EPA 7090	<1	mg/kg		06/01/94	KBB
Calcium, EPA 7140	22000	mg/kg		06/08/94	JNT
Chromium, EPA 7190	9.3	mg/kg		06/06/94	KBB
Cobalt, EPA 7200	6.2	mg/kg	C	06/08/94	KBB
Copper, EPA 7210	54	mg/kg		06/03/94	JNT
Iron, EPA 7380	88	mg/kg		06/01/94	JNT
Lead, EPA 7421	280	mg/kg		06/27/94	JNT
Magnesium, EPA 7450	3200	mg/kg		06/08/94	JNT
Manganese, EPA 7460	440	mg/kg		06/08/94	KBB
Mercury, EPA 7471	0.19	mg/kg		06/03/94	KBB
Nickel, EPA 7520	12	mg/kg		06/06/94	KBB
Potassium, EPA 7610	460	mg/kg	C	06/01/94	KBB

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507491

Project #: L2115 -380

Customer ID: TP1-S1 - 5/25/94

Matrix: SHW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Selenium, EPA 7740	<1	mg/kg		06/27/94	CRW
Silver, EPA 7760	110	mg/kg		06/14/94	KBB
Sodium, EPA 7770	<70	mg/kg		06/01/94	JNT
Thallium, EPA 7841	<10	mg/kg		06/23/94	KBB
Vanadium, EPA 7911	<20	mg/kg		06/23/94	KBB
Zinc, EPA 7950	130	mg/kg		06/02/94	JNT
Metals Digestion, EPA SW846, c3	batch	741		06/01/94	JEB
Cyanide, Total, EPA 335.2	0.11	mg/kg		05/31/94	JDC
Corrosivity, as pH, EPA 9045	8.6	Std Units		05/31/94	HMP
Ignitability, EPA 1010	>60	Degrees C		06/10/94	JDC
Cyanide Reactivity, SW846, 7.3	<20	mg/kg		05/31/94	JDC
Sulfide Reactivity, SW846, 7.3	<10	mg/kg		06/01/94	HMP
2,4-D, EP Tox, EPA 8150A	<0.02	ug/l		06/14/94	KMS
Silvex, EP Tox, EPA 8150A	<0.02	ug/l		06/14/94	KMS
Cadmium, EPA 7130	<1	mg/kg		06/07/94	KBB
Endrin, EP Tox	<0.05	ug/l		06/13/94	KMS
Lindane, EP Tox	<0.03	ug/l		06/13/94	KMS
Methoxychlor, EP Tox	<0.3	ug/l		06/13/94	KMS
Toxaphene, EP Tox	<1	ug/l		06/13/94	KMS
Extraction, EPA 3510A, EPTox Herb				06/07/94	HR
Extraction, EPA 3510A, EPTox Pest				06/07/94	HR
Extraction, EP Toxicity				06/02/94	TER
Arsenic, EP Tox, EPA 206.2	<0.1	mg/l		06/14/94	CRW
Barium, EP Tox, EPA 208.1	<2	mg/l		06/15/94	KBB
Cadmium, EP Tox, EPA 213.1	<0.1	mg/l		06/13/94	KBB
Chromium, Total, EP Tox, EPA 218.	0.14	mg/l		06/13/94	KBB
Lead, EP Tox, EPA 239.1	<0.5	mg/l		06/10/94	KBB
Mercury, EP Tox, EPA 245.1	<0.002	mg/l		06/10/94	KBB
Selenium, EP Tox, EPA 270.2	<0.1	mg/l		06/14/94	CRW
Silver, EP Tox, EPA 272.1	<0.1	mg/l		06/14/94	KBB
Metals Digestion, EP Tox	batch	757		06/08/94	JEB

a- Blank corrected.

b- Elevated detection limit due to matrix interference

c- Result should be considered to be an estimate due to matrix interferences.

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507492
Customer ID: TP1-S2 - 5/25/94
Matrix: SHW

Project #: L2115 -380

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
-----	-----	-----	-----	-----	-----
EPA 8240 Volatiles					
Acetone	<10	ug/kg		05/29/94	CRT
Benzene	<5	ug/kg		05/29/94	CRT
Bromodichloromethane	<5	ug/kg		05/29/94	CRT
Bromoform	<5	ug/kg		05/29/94	CRT
Bromomethane	<10	ug/kg		05/29/94	CRT
2-Butanone	<10	ug/kg		05/29/94	CRT
Carbon disulfide	<5	ug/kg		05/29/94	CRT
Carbon tetrachloride	<5	ug/kg		05/29/94	CRT
Chlorobenzene	<5	ug/kg		05/29/94	CRT
Chloroethane	<10	ug/kg		05/29/94	CRT
Chloroform	<5	ug/kg		05/29/94	CRT
Chloromethane	<10	ug/kg		05/29/94	CRT
Dibromochloromethane	<5	ug/kg		05/29/94	CRT
1,1-Dichloroethane	<5	ug/kg		05/29/94	CRT
1,2-Dichloroethane	<5	ug/kg		05/29/94	CRT
1,1-Dichloroethene	<5	ug/kg		05/29/94	CRT
1,2-Dichloroethene, Total	<5	ug/kg		05/29/94	CRT
1,2-Dichloropropane	<5	ug/kg		05/29/94	CRT
cis-1,3-Dichloropropene	<5	ug/kg		05/29/94	CRT
trans-1,3-Dichloropropene	<5	ug/kg		05/29/94	CRT
Ethylbenzene	<5	ug/kg		05/29/94	CRT
2-Hexanone	<10	ug/kg		05/29/94	CRT
Methylene chloride	53	ug/kg	a	05/29/94	CRT
4-Methyl-2-pentanone	<10	ug/kg		05/29/94	CRT
Styrene	<5	ug/kg		05/29/94	CRT
1,1,2,2,-Tetrachloroethane	<5	ug/kg		05/29/94	CRT
Tetrachloroethene	<5	ug/kg		05/29/94	CRT
Toluene	12	ug/kg		05/29/94	CRT
1,1,1-Trichloroethane	<5	ug/kg		05/29/94	CRT
1,1,2-Trichloroethane	<5	ug/kg		05/29/94	CRT
Trichloroethene	<5	ug/kg		05/29/94	CRT
Vinyl acetate	<10	ug/kg		05/29/94	CRT
Vinyl chloride	<10	ug/kg		05/29/94	CRT
o-Xylene	<5	ug/kg		05/29/94	CRT
m-Xylene	<5	ug/kg		05/29/94	CRT
p-Xylene	<5	ug/kg		05/29/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507492
Customer ID: TP1-S2 - 5/25/94
Matrix: SHW

Project #: L2115 -380

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8270 Semi-Volatiles (B/N)					
Acenaphthene	<8	mg/kg	b	06/04/94	CRT
Acenaphthylene	<8	mg/kg		06/04/94	CRT
Anthracene	<8	mg/kg		06/04/94	CRT
Benzo(a)anthracene	<8	mg/kg		06/04/94	CRT
Benzo(b)fluoranthene	<8	mg/kg		06/04/94	CRT
Benzo(k)fluoranthene	<8	mg/kg		06/04/94	CRT
Benzo(g,h,i)perylene	<8	mg/kg		06/04/94	CRT
Benzo(a)pyrene	<8	mg/kg		06/04/94	CRT
4-Bromophenyl phenyl ether	<8	mg/kg		06/04/94	CRT
Butylbenzylphthalate	<8	mg/kg		06/04/94	CRT
Carbazole	<20	mg/kg		06/04/94	CRT
4-Chloroaniline	<8	mg/kg		06/04/94	CRT
bis(2-Chloroethoxy)methane	<8	mg/kg		06/04/94	CRT
bis(2-Chloroethyl)ether	<8	mg/kg		06/04/94	CRT
2-Chloronaphthalene	<8	mg/kg		06/04/94	CRT
4-Chlorophenyl phenyl ether	<8	mg/kg		06/04/94	CRT
Chrysene	<8	mg/kg		06/04/94	CRT
Dibenz(a,h)anthracene	<8	mg/kg		06/04/94	CRT
Dibenzofuran	<8	mg/kg		06/04/94	CRT
Dibutylphthalate	<8	mg/kg		06/04/94	CRT
1,2-Dichlorobenzene	<8	mg/kg		06/04/94	CRT
1,3-Dichlorobenzene	<8	mg/kg		06/04/94	CRT
1,4-Dichlorobenzene	<8	mg/kg		06/04/94	CRT
3,3'-Dichlorobenzidine	<20	mg/kg		06/04/94	CRT
Diethylphthalate	<8	mg/kg		06/04/94	CRT
Dimethylphthalate	<8	mg/kg		06/04/94	CRT
2,4-Dinitrotoluene	<8	mg/kg		06/04/94	CRT
2,6-Dinitrotoluene	<8	mg/kg		06/04/94	CRT
Di-n-octyl phthalate	<8	mg/kg		06/04/94	CRT
bis(2-Ethylhexyl)phthalate	<8	mg/kg		06/04/94	CRT
Fluoranthene	<8	mg/kg		06/04/94	CRT
Fluorene	<8	mg/kg		06/04/94	CRT
Hexachlorobenzene	<8	mg/kg		06/04/94	CRT
Hexachlorobutadiene	<8	mg/kg		06/04/94	CRT
Hexachlorocyclopentadiene	<8	mg/kg		06/04/94	CRT
Hexachloroethane	<8	mg/kg		06/04/94	CRT
Indeno(1,2,3-c,d)pyrene	<8	mg/kg		06/04/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507492
Customer ID: TP1-S2 - 5/25/94
Matrix: SHW

Project #: L2115 -380
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Isophorone	<8	mg/kg		06/04/94	CRT
2-Methylnaphthalene	<8	mg/kg		06/04/94	CRT
Naphthalene	<8	mg/kg		06/04/94	CRT
2-Nitroaniline	<20	mg/kg		06/04/94	CRT
4-Nitroaniline	<20	mg/kg		06/04/94	CRT
3-Nitroaniline	<20	mg/kg		06/04/94	CRT
Toluene	<8	mg/kg		06/04/94	CRT
N-Nitrosodiphenylamine	<8	mg/kg		06/04/94	CRT
N-Nitrosodipropylamine	<8	mg/kg		06/04/94	CRT
Phenanthrene	<8	mg/kg		06/04/94	CRT
Pyrene	<8	mg/kg		06/04/94	CRT
1,2,4-Trichlorobenzene	<8	mg/kg		06/04/94	CRT
EPA 8270 Semi-Volatiles (Acids)					
4-Chloro-3-methylphenol	<8	mg/kg	b	06/04/94	CRT
2-Chlorophenol	<8	mg/kg		06/04/94	CRT
2,4-Dichlorophenol	<8	mg/kg		06/04/94	CRT
2,4-Dimethylphenol	<8	mg/kg		06/04/94	CRT
2,4-Dinitrophenol	<8	mg/kg		06/04/94	CRT
2-Methyl-4,6-dinitrophenol	<20	mg/kg		06/04/94	CRT
2-Methylphenol	<8	mg/kg		06/04/94	CRT
2-Nitrophenol	<8	mg/kg		06/04/94	CRT
4-Nitrophenol	<8	mg/kg		06/04/94	CRT
Pentachlorophenol	<20	mg/kg		06/04/94	CRT
Phenol	<8	mg/kg		06/04/94	CRT
2,4,5-Trichlorophenol	<8	mg/kg		06/04/94	CRT
2,4,6-Trichlorophenol	<8	mg/kg		06/04/94	CRT
EPA 8080 TCL Pesticides/PCB's					
alpha-BHC	<0.1	mg/kg	b	06/19/94	KMS
beta-BHC	<0.1	mg/kg		06/19/94	KMS
delta-BHC	<0.1	mg/kg		06/19/94	KMS
gamma-BHC (Lindane)	<0.1	mg/kg		06/19/94	KMS
Heptachlor	<0.1	mg/kg		06/19/94	KMS
Aldrin	<0.1	mg/kg		06/19/94	KMS
Heptachlor epoxide	<0.1	mg/kg		06/19/94	KMS
Endosulfan 1	<0.1	mg/kg		06/19/94	KMS
Dieldrin	<0.2	mg/kg		06/19/94	KMS

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507492
Customer ID: TP1-S2 - 5/25/94
Matrix: SHW

Project #: L2115 -380

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
4,4'-DDE	<0.2	mg/kg		06/19/94	KMS
Endrin	<0.2	mg/kg		06/19/94	KMS
Endosulfan 11	<0.4	mg/kg		06/19/94	KMS
4,4'-DDD	<0.4	mg/kg		06/19/94	KMS
Endosulfan sulfate	<0.4	mg/kg		06/19/94	KMS
4,4'-DDT	<0.4	mg/kg		06/19/94	KMS
Methoxychlor	<1	mg/kg		06/19/94	KMS
Endrin Ketone	<0.4	mg/kg		06/19/94	KMS
alpha-Chlordane	<0.1	mg/kg		06/19/94	KMS
gamma-Chlordane	<0.1	mg/kg		06/19/94	KMS
Toxaphene	<4	mg/kg		06/19/94	KMS
Aroclor-1016	<2	mg/kg		06/19/94	KMS
Aroclor-1221	<2	mg/kg		06/19/94	KMS
Aroclor-1232	<2	mg/kg		06/19/94	KMS
Aroclor-1242	<2	mg/kg		06/19/94	KMS
Aroclor-1248	<2	mg/kg		06/19/94	KMS
Aroclor-1254	<2	mg/kg		06/19/94	KMS
Aroclor-1260	<2	mg/kg		06/19/94	KMS
Extraction, EPA 3550A, BNA				05/31/94	HR
Extraction, EPA 3550A, PCB/Pest				05/31/94	HR
Aluminum, EPA 7020	4000	mg/kg		06/08/94	KBB
Antimony, EPA 7041	2.1	mg/kg	C	06/29/94	CRW
Arsenic, EPA 7060	6.1	mg/kg		06/22/94	CRW
Barium, EPA 7080	160	mg/kg		06/07/94	KBB
Beryllium, EPA 7090	<1	mg/kg		06/01/94	KBB
Cadmium, EPA 7130	8.2	mg/kg		06/07/94	KBB
Calcium, EPA 7140	31000	mg/kg		06/08/94	JNT
Chromium, EPA 7190	17	mg/kg		06/06/94	KBB
Cobalt, EPA 7200	4.3	mg/kg	C	06/08/94	KBB
Copper, EPA 7210	100	mg/kg		06/03/94	JNT
Iron, EPA 7380	110	mg/kg		06/01/94	JNT
Lead, EPA 7421	140	mg/kg		06/27/94	JNT
Magnesium, EPA 7450	3500	mg/kg		06/08/94	JNT
Manganese, EPA 7460	350	mg/kg		06/08/94	KBB
Mercury, EPA 7471	0.21	mg/kg		06/03/94	KBB
Nickel, EPA 7520	27	mg/kg	C	06/06/94	KBB

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507492
Customer ID: TP1-S2 - 5/25/94
Matrix: SHW

Project #: L2115 -380

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Potassium, EPA 7610	420	mg/kg		06/01/94	KBB
Selenium, EPA 7740	<1	mg/kg		06/27/94	CRW
Silver, EPA 7760	130	mg/kg		06/14/94	KBB
Sodium, EPA 7770	<70	mg/kg		06/01/94	JNT
Thallium, EPA 7841	<10	mg/kg		06/23/94	KBB
Vanadium, EPA 7911	<20	mg/kg		06/23/94	KBB
Zinc, EPA 7950	1500	mg/kg		06/02/94	JNT
Metals Digestion, EPA SW846, c3	batch	741		06/01/94	JEB
Cyanide, Total, EPA 335.2	0.11	mg/kg		05/31/94	JDC
Corrosivity, as pH, EPA 9045	9.2	Std Units		05/31/94	HMP
Ignitability, EPA 1010	>60	Degrees C		06/10/94	JDC
Cyanide Reactivity, SW846, 7.3	<20	mg/kg		05/31/94	JDC
Sulfide Reactivity, SW846, 7.3	<10	mg/kg		06/01/94	HMP
2,4-D, EP Tox, EPA 8150A	<0.02	ug/l		06/14/94	KMS
Silvex, EP Tox, EPA 8150A	<0.02	ug/l		06/14/94	KMS
Lindane, EP Tox	<0.03	ug/l		06/13/94	KMS
Endrin, EP Tox	<0.05	ug/l		06/13/94	KMS
Methoxychlor, EP Tox	<0.3	ug/l		06/13/94	KMS
Toxaphene, EP Tox	<1	ug/l		06/13/94	KMS
Extraction, EPA 3510A, EPTox Herb				06/07/94	HR
Extraction, EPA 3510A, EPTox Pest				06/07/94	HR
Extraction, EP Toxicity				06/07/94	JEB
Arsenic, EP Tox, EPA 206.2	<0.1	mg/l		06/14/94	CRW
Barium, EP Tox, EPA 208.1	<2	mg/l		06/15/94	KBB
Cadmium, EP Tox, EPA 213.1	<0.1	mg/l		06/13/94	KBB
Chromium, Total, EP Tox, EPA 218.	0.14	mg/l		06/13/94	KBB
Lead, EP Tox, EPA 239.1	<0.5	mg/l		06/10/94	KBB
Mercury, EP Tox, EPA 245.1	<0.002	mg/l		06/10/94	KBB
Selenium, EP Tox, EPA 270.2	<0.1	mg/l		06/14/94	CRW
Silver, EP Tox, EPA 272.1	<0.1	mg/l		06/14/94	KBB
Metals Digestion, EP Tox	batch	757		06/08/94	JEB

a- Blank corrected.

b- Elevated detection limit due to matrix interference

c- Result should be considered to be an estimate due to matrix interferences.

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507493

Project #: L2115 -380

Customer ID: TP3-S1 - 5/25/94

Matrix: SHW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
-----	-----	-----	-----	-----	-----
EPA 8240 Volatiles					
Acetone	<1	mg/kg	a	05/29/94	CRT
Benzene	<0.5	mg/kg		05/29/94	CRT
Bromodichloromethane	<0.5	mg/kg		05/29/94	CRT
Bromoform	<0.5	mg/kg		05/29/94	CRT
Bromomethane	<1	mg/kg		05/29/94	CRT
2-Butanone	<1	mg/kg		05/29/94	CRT
Carbon disulfide	<0.5	mg/kg		05/29/94	CRT
Carbon tetrachloride	<0.5	mg/kg		05/29/94	CRT
Chlorobenzene	<0.5	mg/kg		05/29/94	CRT
Chloroethane	<1	mg/kg		05/29/94	CRT
Chloroform	<0.5	mg/kg		05/29/94	CRT
Chloromethane	<1	mg/kg		05/29/94	CRT
Dibromochloromethane	<0.5	mg/kg		05/29/94	CRT
1,1-Dichloroethane	<0.5	mg/kg		05/29/94	CRT
1,2-Dichloroethane	<0.5	mg/kg		05/29/94	CRT
1,1-Dichloroethene	<0.5	mg/kg		05/29/94	CRT
1,2-Dichloroethene, Total	<0.5	mg/kg		05/29/94	CRT
1,2-Dichloropropane	<0.5	mg/kg		05/29/94	CRT
cis-1,3-Dichloropropene	<0.5	mg/kg		05/29/94	CRT
trans-1,3-Dichloropropene	<0.5	mg/kg		05/29/94	CRT
Ethylbenzene	<0.5	mg/kg		05/29/94	CRT
2-Hexanone	<1	mg/kg		05/29/94	CRT
Methylene chloride	<0.5	mg/kg		05/29/94	CRT
4-Methyl-2-pentanone	<1	mg/kg		05/29/94	CRT
Styrene	<0.5	mg/kg		05/29/94	CRT
1,1,2,2,-Tetrachloroethane	<0.5	mg/kg		05/29/94	CRT
Tetrachloroethene	<0.5	mg/kg		05/29/94	CRT
Toluene	1.0	mg/kg		05/29/94	CRT
1,1,1-Trichloroethane	<0.5	mg/kg		05/29/94	CRT
1,1,2-Trichloroethane	<0.5	mg/kg		05/29/94	CRT
Trichloroethene	<0.5	mg/kg		05/29/94	CRT
Vinyl acetate	<1	mg/kg		05/29/94	CRT
Vinyl chloride	<1	mg/kg		05/29/94	CRT
o-Xylene	<0.5	mg/kg		05/29/94	CRT
m-Xylene	<0.5	mg/kg		05/29/94	CRT
p-Xylene	<0.5	mg/kg		05/29/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507493
Customer ID: TP3-S1 - 5/25/94
Matrix: SHW

Project #: L2115 -380
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8270 Semi-Volatiles (B/N)					
Acenaphthene	<0.2	mg/kg		06/04/94	CRT
Acenaphthylene	<0.2	mg/kg		06/04/94	CRT
Anthracene	<0.2	mg/kg		06/04/94	CRT
Benzo(a)anthracene	<0.2	mg/kg		06/04/94	CRT
Benzo(b)fluoranthene	<0.2	mg/kg		06/04/94	CRT
Benzo(k)fluoranthene	<0.2	mg/kg		06/04/94	CRT
Benzo(g,h,i)perylene	<0.2	mg/kg		06/04/94	CRT
Benzo(a)pyrene	<0.2	mg/kg		06/04/94	CRT
4-Bromophenyl phenyl ether	<0.2	mg/kg		06/04/94	CRT
Butylbenzylphthalate	0.52	mg/kg		06/04/94	CRT
Carbazole	<0.4	mg/kg		06/04/94	CRT
4-Chloroaniline	<0.2	mg/kg		06/04/94	CRT
bis(2-Chloroethoxy)methane	<0.2	mg/kg		06/04/94	CRT
bis(2-Chloroethyl)ether	<0.2	mg/kg		06/04/94	CRT
2-Chloronaphthalene	<0.2	mg/kg		06/04/94	CRT
4-Chlorophenyl phenyl ether	<0.2	mg/kg		06/04/94	CRT
Chrysene	<0.2	mg/kg		06/04/94	CRT
Dibenz(a,h)anthracene	<0.2	mg/kg		06/04/94	CRT
Dibenzofuran	<0.2	mg/kg		06/04/94	CRT
Dibutylphthalate	0.44	mg/kg		06/04/94	CRT
1,2-Dichlorobenzene	<0.2	mg/kg		06/04/94	CRT
1,3-Dichlorobenzene	<0.2	mg/kg		06/04/94	CRT
1,4-Dichlorobenzene	<0.2	mg/kg		06/04/94	CRT
3,3'-Dichlorobenzidine	<0.4	mg/kg		06/04/94	CRT
Diethylphthalate	<0.2	mg/kg		06/04/94	CRT
Dimethylphthalate	<0.2	mg/kg		06/04/94	CRT
2,4-Dinitrotoluene	<0.2	mg/kg		06/04/94	CRT
2,6-Dinitrotoluene	<0.2	mg/kg		06/04/94	CRT
Di-n-octyl phthalate	<0.2	mg/kg		06/04/94	CRT
bis(2-Ethylhexyl)phthalate	<0.2	mg/kg		06/04/94	CRT
Fluoranthene	<0.2	mg/kg		06/04/94	CRT
Fluorene	<0.2	mg/kg		06/04/94	CRT
Hexachlorobenzene	<0.2	mg/kg		06/04/94	CRT
Hexachlorobutadiene	<0.2	mg/kg		06/04/94	CRT
Hexachlorocyclopentadiene	<0.2	mg/kg		06/04/94	CRT
Hexachloroethane	<0.2	mg/kg		06/04/94	CRT
Indeno(1,2,3-c,d)pyrene	<0.2	mg/kg		06/04/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507493
Customer ID: TP3-S1 - 5/25/94
Matrix: SHW

Project #: L2115 -380

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Isophorone	<0.2	mg/kg		06/04/94	CRT
2-Methylnaphthalene	<0.2	mg/kg		06/04/94	CRT
Naphthalene	<0.2	mg/kg		06/04/94	CRT
2-Nitroaniline	<0.4	mg/kg		06/04/94	CRT
3-Nitroaniline	<0.4	mg/kg		06/04/94	CRT
4-Nitroaniline	<0.4	mg/kg		06/04/94	CRT
Nitrobenzene	<0.2	mg/kg		06/04/94	CRT
N-Nitrosodiphenylamine	<0.2	mg/kg		06/04/94	CRT
N-Nitrosodipropylamine	<0.2	mg/kg		06/04/94	CRT
Phenanthrene	<0.2	mg/kg		06/04/94	CRT
Pyrene	<0.2	mg/kg		06/04/94	CRT
1,2,4-Trichlorobenzene	<0.2	mg/kg		06/04/94	CRT
EPA 8270 Semi-Volatiles (Acids)					
4-Chloro-3-methylphenol	<0.2	mg/kg		06/04/94	CRT
2-Chlorophenol	<0.2	mg/kg		06/04/94	CRT
2,4-Dichlorophenol	<0.2	mg/kg		06/04/94	CRT
2,4-Dimethylphenol	<0.2	mg/kg		06/04/94	CRT
2,4-Dinitrophenol	<0.2	mg/kg		06/04/94	CRT
2-Methyl-4,6-dinitrophenol	<0.4	mg/kg		06/04/94	CRT
2-Methylphenol	<0.2	mg/kg		06/04/94	CRT
2-Nitrophenol	<0.2	mg/kg		06/04/94	CRT
4-Nitrophenol	<0.2	mg/kg		06/04/94	CRT
Pentachlorophenol	<0.4	mg/kg		06/04/94	CRT
Phenol	<0.2	mg/kg		06/04/94	CRT
2,4,5-Trichlorophenol	<0.2	mg/kg		06/04/94	CRT
2,4,6-Trichlorophenol	<0.2	mg/kg		06/04/94	CRT
EPA 8080 TCL Pesticides/PCB's					
alpha-BHC	<0.05	mg/kg	a	06/19/94	KMS
beta-BHC	<0.05	mg/kg		06/19/94	KMS
Delta-BHC	<0.05	mg/kg		06/19/94	KMS
gamma-BHC (Lindane)	<0.05	mg/kg		06/19/94	KMS
Heptachlor	<0.05	mg/kg		06/19/94	KMS
Aldrin	<0.05	mg/kg		06/19/94	KMS
Heptachlor epoxide	<0.05	mg/kg		06/19/94	KMS
Endosulfan 1	<0.05	mg/kg		06/19/94	KMS
Dieldrin	<0.08	mg/kg		06/19/94	KMS

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507493
Customer ID: TP3-S1 - 5/25/94
Matrix: SHW

Project #: L2115 -380
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
4,4'-DDE	<0.08	mg/kg		06/19/94	KMS
Endrin	<0.08	mg/kg		06/19/94	KMS
Endosulfan 11	<0.2	mg/kg		06/19/94	KMS
4,4'-DDD	<0.2	mg/kg		06/19/94	KMS
Endosulfan sulfate	<0.2	mg/kg		06/19/94	KMS
4,4'-DDT	<0.2	mg/kg		06/19/94	KMS
Methoxychlor	<0.5	mg/kg		06/19/94	KMS
Endrin Ketone	<0.2	mg/kg		06/19/94	KMS
alpha-Chlordane	<0.05	mg/kg		06/19/94	KMS
gamma-Chlordane	<0.05	mg/kg		06/19/94	KMS
Toxaphene	<2	mg/kg		06/19/94	KMS
Aroclor-1016	<0.8	mg/kg		06/19/94	KMS
Aroclor-1221	<0.8	mg/kg		06/19/94	KMS
Aroclor-1232	<0.8	mg/kg		06/19/94	KMS
Aroclor-1242	<0.8	mg/kg		06/19/94	KMS
Aroclor-1248	<0.8	mg/kg		06/19/94	KMS
Aroclor-1254	<0.8	mg/kg		06/19/94	KMS
Aroclor-1260	<0.8	mg/kg		06/19/94	KMS
Extraction, EPA 3550A, BNA				05/31/94	HR
Extraction, EPA 3550A, PCB/Pest				05/31/94	HR
Aluminum, EPA 7020	580	mg/kg	b	06/08/94	KBB
Antimony, EPA 7041	3.9	mg/kg		06/29/94	CRW
Arsenic, EPA 7060	<1	mg/kg		06/22/94	CRW
Barium, EPA 7080	22	mg/kg		06/07/94	KBB
Beryllium, EPA 7090	<1	mg/kg		06/01/94	KBB
Cadmium, EPA 7130	<1	mg/kg		06/07/94	KBB
Calcium, EPA 7140	140000	mg/kg		06/08/94	JNT
Chromium, EPA 7190	5.9	mg/kg	b	06/06/94	KBB
Cobalt, EPA 7200	<1	mg/kg		06/08/94	KBB
Copper, EPA 7210	4.6	mg/kg		06/03/94	JNT
Iron, EPA 7380	5.9	mg/kg		06/01/94	JNT
Lead, EPA 7421	39	mg/kg		06/27/94	JNT
Magnesium, EPA 7450	5100	mg/kg		06/08/94	JNT
Manganese, EPA 7460	68	mg/kg		06/08/94	KBB
Mercury, EPA 7471	4.7	mg/kg		06/03/94	KBB
Nickel, EPA 7520	<2	mg/kg	b	06/06/94	KBB

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507493

Project #: L2115 -380

Customer ID: TP3-S1 - 5/25/94

Matrix: SHW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Potassium, EPA 7610	340	mg/kg		06/01/94	KBB
Selenium, EPA 7740	<1	mg/kg		06/25/94	CRW
Silver, EPA 7760	15	mg/kg		06/14/94	KBB
Sodium, EPA 7770	<70	mg/kg		06/01/94	JNT
Thallium, EPA 7841	<10	mg/kg		06/23/94	KBB
Vanadium, EPA 7911	<20	mg/kg		06/23/94	KBB
Zinc, EPA 7950	90	mg/kg		06/02/94	JNT
Metals Digestion, EPA SW846, c3	batch	741		06/01/94	JEB
Cyanide, Total, EPA 335.2	0.28	mg/kg		05/31/94	JDC
Corrosivity, as pH, EPA 9045	7.6	Std Units		05/31/94	HMP
Ignitability, EPA 1010	>60	Degrees C		06/10/94	JDC
Cyanide Reactivity, SW846, 7.3	<20	mg/kg		05/31/94	JDC
Sulfide Reactivity, SW846, 7.3	<10	mg/kg		06/01/94	HMP
2,4-D, EP Tox, EPA 8150A		ug/l		06/14/94	KMS
Silvex, EP Tox, EPA 8150A	<0.02	ug/l		06/14/94	KMS
Lindane, EP Tox	<0.03	ug/l		06/13/94	KMS
Endrin, EP Tox	<0.05	ug/l		06/13/94	KMS
Methoxychlor, EP Tox	<0.3	ug/l		06/13/94	KMS
Toxaphene, EP Tox	<1	ug/l		06/13/94	KMS
Extraction, EPA 3510A, EPTox Herb				06/07/94	HR
Extraction, EPA 3510A, EPTox Pest				06/07/94	HR
Extraction, EP Toxicity				06/07/94	JEB
Arsenic, EP Tox, EPA 206.2	<0.1	mg/l		06/14/94	CRW
Barium, EP Tox, EPA 208.1	<2	mg/l		06/15/94	KBB
Cadmium, EP Tox, EPA 213.1	<0.1	mg/l		06/13/94	KBB
Chromium, Total, EP Tox, EPA 218.	0.14	mg/l		06/13/94	KBB
Lead, EP Tox, EPA 239.1	<0.5	mg/l		06/10/94	KBB
Mercury, EP Tox, EPA 245.1	0.0028	mg/l		06/10/94	KBB
Selenium, EP Tox, EPA 270.2	<0.1	mg/l		06/27/94	CRW
Silver, EP Tox, EPA 272.1	<0.1	mg/l		06/14/94	KBB
Metals Digestion, EP Tox	batch	757		06/08/94	JEB

- Elevated detection limit due to matrix interference
- Result should be considered to be an estimate due to matrix interferences.

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507494
Customer ID: TP3-S2 - 5/25/94
Matrix: SHW

Project #: L2115 -380
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<1	mg/kg	a	05/31/94	CRT
Benzene	<0.5	mg/kg		05/31/94	CRT
Bromodichloromethane	<0.5	mg/kg		05/31/94	CRT
Bromoform	<0.5	mg/kg		05/31/94	CRT
Bromomethane	<1	mg/kg		05/31/94	CRT
2-Butanone	<1	mg/kg		05/31/94	CRT
Carbon disulfide	<0.5	mg/kg		05/31/94	CRT
Carbon tetrachloride	<0.5	mg/kg		05/31/94	CRT
Chlorobenzene	<0.5	mg/kg		05/31/94	CRT
Chloroethane	<1	mg/kg		05/31/94	CRT
Chloroform	<0.5	mg/kg		05/31/94	CRT
Chloromethane	<1	mg/kg		05/31/94	CRT
Dibromochloromethane	<0.5	mg/kg		05/31/94	CRT
1,1-Dichloroethane	<0.5	mg/kg		05/31/94	CRT
1,2-Dichloroethane	<0.5	mg/kg		05/31/94	CRT
1,1-Dichloroethene	<0.5	mg/kg		05/31/94	CRT
1,2-Dichloroethene, Total	<0.5	mg/kg		05/31/94	CRT
1,2-Dichloropropane	1.6	mg/kg		05/31/94	CRT
cis-1,3-Dichloropropene	<0.5	mg/kg		05/31/94	CRT
trans-1,3-Dichloropropene	<0.5	mg/kg		05/31/94	CRT
Ethylbenzene	<0.5	mg/kg		05/31/94	CRT
2-Hexanone	<1	mg/kg		05/31/94	CRT
Methylene chloride	<0.5	mg/kg		05/31/94	CRT
4-Methyl-2-pentanone	<1	mg/kg		05/31/94	CRT
Styrene	<0.5	mg/kg		05/31/94	CRT
1,1,2,2,-Tetrachloroethane	3.3	mg/kg		05/31/94	CRT
Tetrachloroethene	<0.5	mg/kg		05/31/94	CRT
Toluene	<0.5	mg/kg		05/31/94	CRT
1,1,1-Trichloroethane	<0.5	mg/kg		05/31/94	CRT
1,1,2-Trichloroethane	<0.5	mg/kg		05/31/94	CRT
Trichloroethene	3.2	mg/kg		05/31/94	CRT
Vinyl acetate	<1	mg/kg		05/31/94	CRT
Vinyl chloride	<1	mg/kg		05/31/94	CRT
o-Xylene	<0.5	mg/kg		05/31/94	CRT
m-Xylene	<0.5	mg/kg		05/31/94	CRT
p-Xylene	<0.5	mg/kg		05/31/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507494

Project #: L2115 -380

Customer ID: TP3-S2 - 5/25/94

Matrix: SHW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
-----	-----	-----	-----	-----	-----
EPA 8270 Semi-Volatiles (B/N)					
Acenaphthene	<8	mg/kg	a	06/04/94	CRT
Acenaphthylene	<8	mg/kg		06/04/94	CRT
Anthracene	<8	mg/kg		06/04/94	CRT
Benzo(a)anthracene	<8	mg/kg		06/04/94	CRT
Benzo(b)fluoranthene	<8	mg/kg		06/04/94	CRT
Benzo(k)fluoranthene	<8	mg/kg		06/04/94	CRT
Benzo(g,h,i)perylene	<8	mg/kg		06/04/94	CRT
Benzo(a)pyrene	<8	mg/kg		06/04/94	CRT
4-Bromophenyl phenyl ether	<8	mg/kg		06/04/94	CRT
Butylbenzylphthalate	<8	mg/kg		06/04/94	CRT
Carbazole	<20	mg/kg		06/04/94	CRT
4-Chloroaniline	<8	mg/kg		06/04/94	CRT
bis(2-Chloroethoxy)methane	<8	mg/kg		06/04/94	CRT
bis(2-Chloroethyl)ether	<8	mg/kg		06/04/94	CRT
2-Chloronaphthalene	<8	mg/kg		06/04/94	CRT
4-Chlorophenyl phenyl ether	<8	mg/kg		06/04/94	CRT
Chrysene	<8	mg/kg		06/04/94	CRT
Dibenz(a,h)anthracene	<8	mg/kg		06/04/94	CRT
Dibenzofuran	<8	mg/kg		06/04/94	CRT
Dibutylphthalate	<8	mg/kg		06/04/94	CRT
1,2-Dichlorobenzene	<8	mg/kg		06/04/94	CRT
1,3-Dichlorobenzene	<8	mg/kg		06/04/94	CRT
1,4-Dichlorobenzene	<8	mg/kg		06/04/94	CRT
3,3'-Dichlorobenzidine	<20	mg/kg		06/04/94	CRT
Diethylphthalate	<8	mg/kg		06/04/94	CRT
Dimethylphthalate	<8	mg/kg		06/04/94	CRT
2,4-Dinitrotoluene	<8	mg/kg		06/04/94	CRT
2,6-Dinitrotoluene	<8	mg/kg		06/04/94	CRT
Di-n-octyl phthalate	<8	mg/kg		06/04/94	CRT
bis(2-Ethylhexyl)phthalate	<8	mg/kg		06/04/94	CRT
Fluoranthene	<8	mg/kg		06/04/94	CRT
Fluorene	<8	mg/kg		06/04/94	CRT
Hexachlorobenzene	<8	mg/kg		06/04/94	CRT
Hexachlorobutadiene	<8	mg/kg		06/04/94	CRT
Hexachlorocyclopentadiene	<8	mg/kg		06/04/94	CRT
Hexachloroethane	<8	mg/kg		06/04/94	CRT
Indeno(1,2,3-c,d)pyrene	<8	mg/kg		06/04/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507494

Project #: L2115 -380

Customer ID: TP3-S2 - 5/25/94

Matrix: SHW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Isophorone	<8	mg/kg		06/04/94	CRT
2-Methylnaphthalene	<8	mg/kg		06/04/94	CRT
Naphthalene	<8	mg/kg		06/04/94	CRT
2-Nitroaniline	<20	mg/kg		06/04/94	CRT
3-Nitroaniline	<20	mg/kg		06/04/94	CRT
4-Nitroaniline	<20	mg/kg		06/04/94	CRT
Nitrobenzene	<8	mg/kg		06/04/94	CRT
N-Nitrosodiphenylamine	<8	mg/kg		06/04/94	CRT
N-Nitrosodipropylamine	<8	mg/kg		06/04/94	CRT
Phenanthrene	<8	mg/kg		06/04/94	CRT
Pyrene	<8	mg/kg		06/04/94	CRT
1,2,4-Trichlorobenzene	<8	mg/kg		06/04/94	CRT
EPA 8270 Semi-Volatiles (Acids)					
4-Chloro-3-methylphenol	<8	mg/kg	a	06/04/94	CRT
2-Chlorophenol	<8	mg/kg		06/04/94	CRT
2,4-Dichlorophenol	<8	mg/kg		06/04/94	CRT
2,4-Dimethylphenol	<8	mg/kg		06/04/94	CRT
2,4-Dinitrophenol	<8	mg/kg		06/04/94	CRT
2-Methyl-4,6-dinitrophenol	<20	mg/kg		06/04/94	CRT
2-Methylphenol	<8	mg/kg		06/04/94	CRT
2-Nitrophenol	<8	mg/kg		06/04/94	CRT
4-Nitrophenol	<8	mg/kg		06/04/94	CRT
Pentachlorophenol	<20	mg/kg		06/04/94	CRT
Phenol	<8	mg/kg		06/04/94	CRT
2,4,5-Trichlorophenol	<8	mg/kg		06/04/94	CRT
2,4,6-Trichlorophenol	<8	mg/kg		06/04/94	CRT
EPA 8080 TCL Pesticides/PCB's					
alpha-BHC	<0.1	mg/kg	a	06/19/94	KMS
beta-BHC	<0.1	mg/kg		06/19/94	KMS
Delta-BHC	<0.1	mg/kg		06/19/94	KMS
gamma-BHC (Lindane)	<0.1	mg/kg		06/19/94	KMS
Heptachlor	<0.1	mg/kg		06/19/94	KMS
Aldrin	<0.1	mg/kg		06/19/94	KMS
Heptachlor epoxide	<0.1	mg/kg		06/19/94	KMS
Endosulfan 1	<0.1	mg/kg		06/19/94	KMS
Dieldrin	<0.2	mg/kg		06/19/94	KMS

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507494
Customer ID: TP3-S2 - 5/25/94
Matrix: SHW

Project #: L2115 -380

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
4,4'-DDE	<0.2	mg/kg		06/19/94	KMS
Endrin	<0.2	mg/kg		06/19/94	KMS
Endosulfan 11	<0.4	mg/kg		06/19/94	KMS
4,4'-DDD	<0.4	mg/kg		06/19/94	KMS
Endosulfan sulfate	<0.4	mg/kg		06/19/94	KMS
4,4'-DDT	<0.4	mg/kg		06/19/94	KMS
Methoxychlor	<1	mg/kg		06/19/94	KMS
Endrin Ketone	<0.4	mg/kg		06/19/94	KMS
alpha-Chlordane	<0.1	mg/kg		06/19/94	KMS
gamma-Chlordane	<0.1	mg/kg		06/19/94	KMS
Toxaphene	<4	mg/kg		06/19/94	KMS
Aroclor-1016	<2	mg/kg		06/19/94	KMS
Aroclor-1221	<2	mg/kg		06/19/94	KMS
Aroclor-1232	<2	mg/kg		06/19/94	KMS
Aroclor-1242	<2	mg/kg		06/19/94	KMS
Aroclor-1248	<2	mg/kg		06/19/94	KMS
Aroclor-1254	<2	mg/kg		06/19/94	KMS
Aroclor-1260	<2	mg/kg		06/19/94	KMS
Extraction, EPA 3550A, BNA				05/31/94	HR
Extraction, EPA 3550A, PCB/Pest				05/31/94	HR
Aluminum, EPA 7020	3700	mg/kg	b	06/08/94	KBB
Antimony, EPA 7041	<2	mg/kg		06/29/94	CRW
Arsenic, EPA 7060	8.9	mg/kg		06/22/94	CRW
Barium, EPA 7080	100	mg/kg		06/07/94	KBB
Beryllium, EPA 7090	<1	mg/kg		06/01/94	KBB
Cadmium, EPA 7130	<1	mg/kg		06/07/94	KBB
Calcium, EPA 7140	16000	mg/kg		06/08/94	JNT
Chromium, EPA 7190	10	mg/kg	b	06/06/94	KBB
Cobalt, EPA 7200	2.5	mg/kg		06/08/94	KBB
Copper, EPA 7210	320	mg/kg		06/03/94	JNT
Iron, EPA 7380	69	mg/kg		06/01/94	JNT
Lead, EPA 7421	87	mg/kg		06/27/94	JNT
Magnesium, EPA 7450	260	mg/kg		06/08/94	JNT
Manganese, EPA 7460	310	mg/kg		06/08/94	KBB
Mercury, EPA 7471	<0.1	mg/kg		06/03/94	KBB
Nickel, EPA 7520	14	mg/kg	b	06/06/94	KBB

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507494
Customer ID: TP3-S2 - 5/25/94
Matrix: SHW

Project #: L2115 -380
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Potassium, EPA 7610	360	mg/kg		06/01/94	KBB
Selenium, EPA 7740	<1	mg/kg		06/25/94	CRW
Silver, EPA 7760	83	mg/kg		06/14/94	KBB
Sodium, EPA 7770	<70	mg/kg		06/01/94	JNT
Thallium, EPA 7841	<10	mg/kg		06/23/94	KBB
Vanadium, EPA 7911	<20	mg/kg		06/23/94	KBB
Zinc, EPA 7950	430	mg/kg		06/02/94	JNT
Metals Digestion, EPA SW846, c3	batch	741		06/01/94	JEB
Cyanide, Total, EPA 335.2	0.34	mg/kg		06/08/94	JDC
Corrosivity, as pH, EPA 9045	8.6	Std Units		05/31/94	HMP
Ignitability, EPA 1010	>60	Degrees C		06/10/94	JDC
Cyanide Reactivity, SW846, 7.3	<20	mg/kg		05/31/94	JDC
Sulfide Reactivity, SW846, 7.3	<10	mg/kg		06/01/94	HMP
2,4-D, EP Tox, EPA 8150A	<0.02	ug/l		06/14/94	KMS
Silvex, EP Tox, EPA 8150A	<0.02	ug/l		06/14/94	KMS
Endrin, EP Tox	<0.05	ug/l		06/13/94	KMS
Lindane, EP Tox	<0.03	ug/l		06/13/94	KMS
Methoxychlor, EP Tox	<0.3	ug/l		06/13/94	KMS
Toxaphene, EP Tox	<1	ug/l		06/13/94	KMS
Extraction, EPA 3510A, EPTox Herb				06/07/94	HR
Extraction, EPA 3510A, EPTox Pest				06/07/94	HR
Extraction, EP Toxicity				06/07/94	JEB
Arsenic, EP Tox, EPA 206.2	<0.1	mg/l		06/14/94	CRW
Barium, EP Tox, EPA 208.1	<2	mg/l		06/15/94	KBB
Cadmium, EP Tox, EPA 213.1	<0.1	mg/l		06/14/94	KBB
Chromium, Total, EP Tox, EPA 218.	<0.1	mg/l		06/14/94	KBB
Lead, EP Tox, EPA 239.1	<0.5	mg/l		06/10/94	KBB
Mercury, EP Tox, EPA 245.1	<0.002	mg/l		06/10/94	KBB
Selenium, EP Tox, EPA 270.2	<0.1	mg/l		06/14/94	CRW
Silver, EP Tox, EPA 272.1	<0.1	mg/l		06/14/94	KBB
Metals Digestion, EP Tox	batch	757		06/08/94	JEB

a- Elevated detection limit due to matrix interference

b- Result should be considered to be an estimate due to matrix interferences.

(315) 457-4105

MPI Contact: Karen Balbierer

ANALYTICAL LABORATORY:

7481 HENRY CLAY BLVD.
LIVERPOOL, NY 13088

[illegible]



REVISED SAMPLE ANALYSIS REPORT

L2115 - 381

LSL Project No.

Jack Mancuso PhD

Reviewed By

7/8/94

Date

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C: KJR
MDW

07/11/94

LIFE SCIENCE LABORATORIES, INC.

5854 Butternut Drive, East Syracuse, New York 13057 Telephone: (315) 445 1105 Fax: (315) 445 1301

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507618

Project #: L2115 -381

Customer ID: TP3-S3 - 5/26/94

Matrix: SHW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<10	ug/kg		06/01/94	KMG
Benzene	<5	ug/kg		06/01/94	KMG
Bromodichloromethane	<5	ug/kg		06/01/94	KMG
Bromoform	<5	ug/kg		06/01/94	KMG
Bromomethane	<10	ug/kg		06/01/94	KMG
2-Butanone	<10	ug/kg		06/01/94	KMG
Carbon disulfide	<5	ug/kg		06/01/94	KMG
Carbon tetrachloride	<5	ug/kg		06/01/94	KMG
Chlorobenzene	<5	ug/kg		06/01/94	KMG
Chloroethane	<10	ug/kg		06/01/94	KMG
Chloroform	12	ug/kg		06/01/94	KMG
Chloromethane	<10	ug/kg		06/01/94	KMG
Dibromochloromethane	<5	ug/kg		06/01/94	KMG
1,1-Dichloroethane	<5	ug/kg		06/01/94	KMG
1,2-Dichloroethane	<5	ug/kg		06/01/94	KMG
1,1-Dichloroethene	<5	ug/kg		06/01/94	KMG
1,2-Dichloroethene, Total	<5	ug/kg		06/01/94	KMG
1,2-Dichloropropane	8.6	ug/kg		06/01/94	KMG
cis-1,3-Dichloropropene	<5	ug/kg		06/01/94	KMG
trans-1,3-Dichloropropene	<5	ug/kg		06/01/94	KMG
Ethylbenzene	<5	ug/kg		06/01/94	KMG
2-Hexanone	<10	ug/kg		06/01/94	KMG
Methylene chloride	10	ug/kg		06/01/94	KMG
4-Methyl-2-pentanone	<10	ug/kg		06/01/94	KMG
Styrene	<5	ug/kg		06/01/94	KMG
1,1,2,2,-Tetrachloroethane	35	ug/kg		06/01/94	KMG
Tetrachloroethene	<5	ug/kg		06/01/94	KMG
Toluene	8.0	ug/kg		06/01/94	KMG
1,1,1-Trichloroethane	<5	ug/kg		06/01/94	KMG
1,1,2-Trichloroethane	<5	ug/kg		06/01/94	KMG
Trichloroethene	24	ug/kg		06/01/94	KMG
Vinyl acetate	<10	ug/kg		06/01/94	KMG
Vinyl chloride	<10	ug/kg		06/01/94	KMG
o-Xylene	<5	ug/kg		06/01/94	KMG
m-Xylene	<5	ug/kg		06/01/94	KMG
p-Xylene	<5	ug/kg		06/01/94	KMG

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507618
Customer ID: TP3-S3 - 5/26/94
Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8270 Semi-Volatiles (B/N)					
Acenaphthene	<8	mg/kg	a	06/10/94	CRT
Acenaphthylene	<8	mg/kg		06/10/94	CRT
Anthracene	<8	mg/kg		06/10/94	CRT
Benzo(a)anthracene	<8	mg/kg		06/10/94	CRT
Benzo(b)fluoranthene	<8	mg/kg		06/10/94	CRT
Benzo(k)fluoranthene	<8	mg/kg		06/10/94	CRT
Benzo(g,h,i)perylene	<8	mg/kg		06/10/94	CRT
Benzo(a)pyrene	<8	mg/kg		06/10/94	CRT
4-Bromophenyl phenyl ether	<8	mg/kg		06/10/94	CRT
Butylbenzylphthalate	<8	mg/kg		06/10/94	CRT
Carbazole	<20	mg/kg		06/10/94	CRT
4-Chloroaniline	<8	mg/kg		06/10/94	CRT
bis(2-Chloroethoxy)methane	<8	mg/kg		06/10/94	CRT
bis(2-Chloroethyl)ether	<8	mg/kg		06/10/94	CRT
2-Chloronaphthalene	<8	mg/kg		06/10/94	CRT
4-Chlorophenyl phenyl ether	<8	mg/kg		06/10/94	CRT
Chrysene	<8	mg/kg		06/10/94	CRT
Dibenz(a,h)anthracene	<8	mg/kg		06/10/94	CRT
Dibenzofuran	<8	mg/kg		06/10/94	CRT
Dibutylphthalate	<8	mg/kg		06/10/94	CRT
1,2-Dichlorobenzene	<8	mg/kg		06/10/94	CRT
1,3-Dichlorobenzene	<8	mg/kg		06/10/94	CRT
1,4-Dichlorobenzene	<8	mg/kg		06/10/94	CRT
3,3'-Dichlorobenzidine	<20	mg/kg		06/10/94	CRT
Diethylphthalate	<8	mg/kg		06/10/94	CRT
Dimethylphthalate	<8	mg/kg		06/10/94	CRT
2,4-Dinitrotoluene	<8	mg/kg		06/10/94	CRT
2,6-Dinitrotoluene	<8	mg/kg		06/10/94	CRT
Di-n-octyl phthalate	<8	mg/kg		06/10/94	CRT
bis(2-Ethylhexyl)phthalate	<8	mg/kg		06/10/94	CRT
Fluoranthene	<8	mg/kg		06/10/94	CRT
Fluorene	<8	mg/kg		06/10/94	CRT
Hexachlorobenzene	<8	mg/kg		06/10/94	CRT
Hexachlorobutadiene	<8	mg/kg		06/10/94	CRT
Hexachlorocyclopentadiene	<8	mg/kg		06/10/94	CRT
Hexachloroethane	<8	mg/kg		06/10/94	CRT
Indeno(1,2,3-c,d)pyrene	<8	mg/kg		06/10/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
2481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507618
Customer ID: TP3-S3 - 5/26/94
Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
-----	-----	-----	-----	-----	-----
Isophorone	<8	mg/kg		06/10/94	CRT
2-Methylnaphthalene	<8	mg/kg		06/10/94	CRT
Naphthalene	<8	mg/kg		06/10/94	CRT
2-Nitroaniline	<20	mg/kg		06/10/94	CRT
3-Nitroaniline	<20	mg/kg		06/10/94	CRT
4-Nitroaniline	<20	mg/kg		06/10/94	CRT
Nitrobenzene	<8	mg/kg		06/10/94	CRT
4-Nitrosodiphenylamine	<8	mg/kg		06/10/94	CRT
4-Nitrosodipropylamine	<8	mg/kg		06/10/94	CRT
Phenanthrene	<8	mg/kg		06/10/94	CRT
Pyrene	<8	mg/kg		06/10/94	CRT
1,2,4-Trichlorobenzene	<8	mg/kg		06/10/94	CRT
EPA 8270 Semi-Volatiles (Acids)					
2-Chloro-3-methylphenol	<8	mg/kg	a	06/10/94	CRT
2-Chlorophenol	<8	mg/kg		06/10/94	CRT
2,4-Dichlorophenol	<8	mg/kg		06/10/94	CRT
2,4-Dimethylphenol	<8	mg/kg		06/10/94	CRT
2,4-Dinitrophenol	<8	mg/kg		06/10/94	CRT
2-Methyl-4,6-dinitrophenol	<20	mg/kg		06/10/94	CRT
2-Methylphenol	<8	mg/kg		06/10/94	CRT
2-Nitrophenol	<8	mg/kg		06/10/94	CRT
3-Nitrophenol	<8	mg/kg		06/10/94	CRT
2,4,6-Trichlorophenol	<20	mg/kg		06/10/94	CRT
2,4,5-Trichlorophenol	<8	mg/kg		06/10/94	CRT
2,4,6-Trichlorophenol	<8	mg/kg		06/10/94	CRT
EPA 8080 TCL Pesticides/PCB's					
alpha-BHC	<0.05	mg/kg	a	06/19/94	KMS
beta-BHC	<0.05	mg/kg		06/19/94	KMS
delta-BHC	<0.05	mg/kg		06/19/94	KMS
gamma-BHC (Lindane)	<0.05	mg/kg		06/19/94	KMS
heptachlor	<0.05	mg/kg		06/19/94	KMS
lindrin	<0.05	mg/kg		06/19/94	KMS
heptachlor epoxide	<0.05	mg/kg		06/19/94	KMS
endosulfan 1	<0.05	mg/kg		06/19/94	KMS
dieldrin	<0.08	mg/kg		06/19/94	KMS

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507618

Customer ID: TP3-S3 - 5/26/94

Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
1,4'-DDE	<0.08	mg/kg		06/19/94	KMS
Endrin	<0.08	mg/kg		06/19/94	KMS
Endosulfan 11	<0.2	mg/kg		06/19/94	KMS
1,4'-DDD	<0.2	mg/kg		06/19/94	KMS
Endosulfan sulfate	<0.2	mg/kg		06/19/94	KMS
1,4'-DDT	<0.2	mg/kg		06/19/94	KMS
Methoxychlor	<0.5	mg/kg		06/19/94	KMS
Endrin Ketone	<0.2	mg/kg		06/19/94	KMS
Alpha-Chlordane	<0.05	mg/kg		06/19/94	KMS
Gamma-Chlordane	<0.05	mg/kg		06/19/94	KMS
Dioxaphene	<2	mg/kg		06/19/94	KMS
Prochlor-1016	<0.8	mg/kg		06/19/94	KMS
Prochlor-1221	<0.8	mg/kg		06/19/94	KMS
Prochlor-1232	<0.8	mg/kg		06/19/94	KMS
Prochlor-1242	<0.8	mg/kg		06/19/94	KMS
Prochlor-1248	<0.8	mg/kg		06/19/94	KMS
Prochlor-1254	<0.8	mg/kg		06/19/94	KMS
Prochlor-1260	<0.8	mg/kg		06/19/94	KMS
Extraction, EPA 3550A, BNA				06/01/94	HR
Extraction, EPA 3550A, PCB/Pest				06/16/94	HR
Aluminum, EPA 7020	4200	mg/kg		06/08/94	KBB
Antimony, EPA 7041	3.4	mg/kg	b	06/29/94	CRW
Arsenic, EPA 7060	8.2	mg/kg		06/22/94	CRW
Barium, EPA 7080	100	mg/kg		06/07/94	KBB
Beryllium, EPA 7090	<1	mg/kg		06/01/94	KBB
Cadmium, EPA 7130	<1	mg/kg		06/07/94	KBB
Calcium, EPA 7140	21000	mg/kg		06/08/94	JNT
Bromine, EPA 7190	7.3	mg/kg		06/06/94	KBB
Cobalt, EPA 7200	5.7	mg/kg	b	06/08/94	KBB
Copper, EPA 7210	1800	mg/kg		06/03/94	JNT
Iron, EPA 7380	130	mg/kg		06/01/94	JNT
Lead, EPA 7421	220	mg/kg		06/27/94	JNT
Magnesium, EPA 7450	3500	mg/kg		06/08/94	JNT
Manganese, EPA 7460	340	mg/kg		06/08/94	KBB
Mercury, EPA 7471	<0.1	mg/kg		06/07/94	KBB
Nickel, EPA 7520	29	mg/kg	b	06/06/94	KBB

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507618

Customer ID: TP3-S3 - 5/26/94

Project #: L2115 -381

Matrix: SHW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Potassium, EPA 7610	470	mg/kg		06/01/94	KBB
Selenium, EPA 7740	<1	mg/kg		06/27/94	CRW
Silver, EPA 7760	35	mg/kg		06/14/94	KBB
Sodium, EPA 7770	<70	mg/kg		06/01/94	JNT
Gallium, EPA 7841	<10	mg/kg		06/23/94	KBB
Niobium, EPA 7911	<20	mg/kg		06/23/94	KBB
Vanadium, EPA 7950	1200	mg/kg		06/02/94	JNT
Metals Digestion, EPA SW846, c3	batch	741		06/01/94	JEB
Cyanide, Total, EPA 335.2	0.13	mg/kg		05/31/94	JDC
Corrosivity, as pH, EPA 9045	8.4	Std Units		05/31/94	HMP
Ignitability, EPA 1010	>60	Degrees C		06/10/94	JDC
Cyanide Reactivity, SW846, 7.3	<20	mg/kg		05/31/94	JDC
Sulfide Reactivity, SW846, 7.3	<10	mg/kg		06/01/94	HMP
4-D, EP Tox, EPA 8150A	<0.02	ug/l		06/18/94	KMS
Alvex, EP Tox, EPA 8150A	<0.02	ug/l		06/18/94	KMS
Endane, EP Tox	<0.03	ug/l		06/16/94	KMS
Drin, EP Tox	<0.05	ug/l		06/16/94	KMS
Choxychlor, EP Tox	<0.3	ug/l		06/16/94	KMS
Xaphene, EP Tox	<1	ug/l		06/16/94	KMS
Extraction, EPA 3510A, EPTox Herb				06/07/94	HR
Extraction, EPA 3510A, EPTox Pest				06/07/94	HR
Extraction, EP Toxicity				06/07/94	JEB
Benic, EP Tox, EPA 206.2	<0.1	mg/l		06/14/94	CRW
rium, EP Tox, EPA 208.1	<2	mg/l		06/ 5/94	KBB
imium, EP Tox, EPA 213.1	<0.1	mg/l		06/ 5/94	KBB
romium, Total, EP Tox, EPA 218.	<0.1	mg/l		06/ 5/94	KBB
ad, EP Tox, EPA 239.1	<0.5	mg/l		06/ 5/94	KBB
cury, EP Tox, EPA 245.1	<0.002	mg/l		06/10/94	KBB
enium, EP Tox, EPA 270.2	<0.1	mg/l		06/10/94	KBB
ver, EP Tox, EPA 272.1	<0.1	mg/l		06/14/94	CRW
als Digesiton, EP Tox	batch	757		06/14/94	KBB
				06/08/94	JEB

Elevated detection limit due to matrix interference
Result should be considered to be an estimate due to matrix interferences.

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507619

Customer ID: TP3-S4 - 5/26/94

Project #: L2115 -381

Matrix: SHW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<20	mg/kg	a	06/02/94	CRT
Benzene	<10	mg/kg		06/02/94	CRT
Bromodichloromethane	<10	mg/kg		06/02/94	CRT
Bromoform	<10	mg/kg		06/02/94	CRT
Bromomethane	<20	mg/kg		06/02/94	CRT
Butanone	<20	mg/kg		06/02/94	CRT
Carbon disulfide	<10	mg/kg		06/02/94	CRT
Carbon tetrachloride	<10	mg/kg		06/02/94	CRT
Chlorobenzene	<10	mg/kg		06/02/94	CRT
Chloroethane	<20	mg/kg		06/02/94	CRT
Chloroform	<10	mg/kg		06/02/94	CRT
Chloromethane	<20	mg/kg		06/02/94	CRT
Chloromethane	<10	mg/kg		06/02/94	CRT
1,1-Dichloroethane	<10	mg/kg		06/02/94	CRT
1,2-Dichloroethane	<10	mg/kg		06/02/94	CRT
1,1-Dichloroethene	<10	mg/kg		06/02/94	CRT
1,2-Dichloroethene, Total	<10	mg/kg		06/02/94	CRT
1,2-Dichloropropane	<10	mg/kg		06/02/94	CRT
trans-1,3-Dichloropropene	<10	mg/kg		06/02/94	CRT
cis-1,3-Dichloropropene	<10	mg/kg		06/02/94	CRT
Styrene	<10	mg/kg		06/02/94	CRT
Hexanone	<20	mg/kg		06/02/94	CRT
Ethylene chloride	<10	mg/kg		06/02/94	CRT
Methyl-2-pentanone	<20	mg/kg		06/02/94	CRT
Pyrene	<10	mg/kg		06/02/94	CRT
1,1,2,2-Tetrachloroethane	<10	mg/kg		06/02/94	CRT
1,1,2,2-Tetrachloroethene	<10	mg/kg		06/02/94	CRT
1,1,1-Trichloroethane	<10	mg/kg		06/02/94	CRT
1,1,2-Trichloroethane	<10	mg/kg		06/02/94	CRT
1,1,2-Trichloroethene	<10	mg/kg		06/02/94	CRT
Ethyl acetate	<20	mg/kg		06/02/94	CRT
Ethyl chloride	<20	mg/kg		06/02/94	CRT
Xylene	<10	mg/kg		06/02/94	CRT
Xylene	<10	mg/kg		06/02/94	CRT
Xylene	<10	mg/kg		06/02/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507619
Customer ID: TP3-S4 - 5/26/94
Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
-----	-----	-----	-----	-----	-----
PA 8270 Semi-Volatiles (B/N)					
Benaphthene	<0.2	mg/kg		06/10/94	CRT
Benaphthylene	<0.2	mg/kg		06/10/94	CRT
Anthracene	<0.2	mg/kg		06/10/94	CRT
Benzo(a)anthracene	<0.2	mg/kg		06/10/94	CRT
Benzo(b)fluoranthene	<0.2	mg/kg		06/10/94	CRT
Benzo(k)fluoranthene	<0.2	mg/kg		06/10/94	CRT
Benzo(g,h,i)perylene	<0.2	mg/kg		06/10/94	CRT
Benzo(a)pyrene	<0.2	mg/kg		06/10/94	CRT
Bromophenyl phenyl ether	<0.2	mg/kg		06/10/94	CRT
Stylybenzylphthalate	<0.2	mg/kg		06/10/94	CRT
Carbazole	<0.2	mg/kg		06/10/94	CRT
Chloroaniline	<0.4	mg/kg		06/10/94	CRT
1,2-Dichloroethoxy)methane	<0.2	mg/kg		06/10/94	CRT
1,2-Dichloroethyl)ether	<0.2	mg/kg		06/10/94	CRT
Chloronaphthalene	<0.2	mg/kg		06/10/94	CRT
Chlorophenyl phenyl ether	<0.2	mg/kg		06/10/94	CRT
Crysene	<0.2	mg/kg		06/10/94	CRT
Benzo(a,h)anthracene	<0.2	mg/kg		06/10/94	CRT
Benzo(furan	<0.2	mg/kg		06/10/94	CRT
Butylphthalate	<0.2	mg/kg		06/10/94	CRT
1,2-Dichlorobenzene	<0.2	mg/kg		06/10/94	CRT
1,3-Dichlorobenzene	<0.2	mg/kg		06/10/94	CRT
1,4-Dichlorobenzene	<0.2	mg/kg		06/10/94	CRT
1,2-Dichlorobenzidine	<0.2	mg/kg		06/10/94	CRT
Diethylphthalate	<0.4	mg/kg		06/10/94	CRT
Diethylphthalate	<0.2	mg/kg		06/10/94	CRT
1,2-Dinitrotoluene	<0.2	mg/kg		06/10/94	CRT
1,3-Dinitrotoluene	<0.2	mg/kg		06/10/94	CRT
n-Octyl phthalate	<0.2	mg/kg		06/10/94	CRT
1,2-Ethylhexyl)phthalate	<0.2	mg/kg		06/10/94	CRT
Benanthrene	18	mg/kg		06/10/94	CRT
Benene	<0.2	mg/kg		06/10/94	CRT
1-Chlorobenzene	<0.2	mg/kg		06/10/94	CRT
1-Chlorobutadiene	<0.2	mg/kg		06/10/94	CRT
1-Chlorocyclopentadiene	<0.2	mg/kg		06/10/94	CRT
1-Chloroethane	<0.2	mg/kg		06/10/94	CRT
Benzo(1,2,3-c,d)pyrene	<0.2	mg/kg		06/10/94	CRT
Benorone	<0.2	mg/kg		06/10/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507619

Customer ID: TP3-S4 - 5/26/94

Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Methylnaphthalene	<0.2	mg/kg		06/10/94	CRT
Nitroaniline	<0.2	mg/kg		06/10/94	CRT
Nitroaniline	<0.4	mg/kg		06/10/94	CRT
Nitroaniline	<0.4	mg/kg		06/10/94	CRT
trobenzene	<0.4	mg/kg		06/10/94	CRT
Nitrosodiphenylamine	<0.2	mg/kg		06/10/94	CRT
Nitrosodipropylamine	<0.2	mg/kg		06/10/94	CRT
enanthrene	<0.2	mg/kg		06/10/94	CRT
rene	<0.2	mg/kg		06/10/94	CRT
2,4-Trichlorobenzene	<0.2	mg/kg		06/10/94	CRT
	<0.2	mg/kg		06/10/94	CRT
				06/10/94	CRT
A 8270 Semi-Volatiles (Acids)					
Chloro-3-methylphenol	<0.2	mg/kg		06/10/94	CRT
Chlorophenol	<0.2	mg/kg		06/10/94	CRT
4-Dichlorophenol	<0.2	mg/kg		06/10/94	CRT
4-Dimethylphenol	<0.2	mg/kg		06/10/94	CRT
4-Dinitrophenol	<0.2	mg/kg		06/10/94	CRT
Methyl-4,6-dinitrophenol	<0.2	mg/kg		06/10/94	CRT
Methylphenol	<0.4	mg/kg		06/10/94	CRT
Nitrophenol	<0.2	mg/kg		06/10/94	CRT
Nitrophenol	<0.2	mg/kg		06/10/94	CRT
Trichlorophenol	<0.2	mg/kg		06/10/94	CRT
phenol	<0.4	mg/kg		06/10/94	CRT
2,5-Trichlorophenol	<0.2	mg/kg		06/10/94	CRT
2,6-Trichlorophenol	<0.2	mg/kg		06/10/94	CRT
	<0.2	mg/kg		06/10/94	CRT
A 8080 TCL Pesticides/PCB's					
alpha-BHC	<0.02	mg/kg		06/19/94	KMS
alpha-BHC	<0.02	mg/kg	a	06/19/94	KMS
alpha-BHC (Lindane)	<0.02	mg/kg		06/19/94	KMS
gamma-chlor	<0.02	mg/kg		06/19/94	KMS
gamma-chlor	<0.02	mg/kg		06/19/94	KMS
gamma-chlor epoxide	<0.02	mg/kg		06/19/94	KMS
sulfan 1	<0.02	mg/kg		06/19/94	KMS
gamma-chlor	<0.02	mg/kg		06/19/94	KMS
gamma-DDE	<0.04	mg/kg		06/19/94	KMS
gamma-chlor	<0.04	mg/kg		06/19/94	KMS
	<0.04	mg/kg		06/19/94	KMS

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
 1481 Henry Clay Blvd.
 Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507619
 Customer ID: TP3-S4 - 5/26/94
 Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Endosulfan 11	<0.08	mg/kg		06/19/94	KMS
4'-DDD	<0.08	mg/kg		06/19/94	KMS
Endosulfan sulfate	<0.08	mg/kg		06/19/94	KMS
4'-DDT	<0.08	mg/kg		06/19/94	KMS
ethoxychlor	<0.2	mg/kg		06/19/94	KMS
drin Ketone	<0.08	mg/kg		06/19/94	KMS
alpha-Chlordane	<0.02	mg/kg		06/19/94	KMS
gamma-Chlordane	<0.02	mg/kg		06/19/94	KMS
oxaphene	<0.8	mg/kg		06/19/94	KMS
oclor-1016	<0.4	mg/kg		06/19/94	KMS
oclor-1221	<0.4	mg/kg		06/19/94	KMS
oclor-1232	<0.4	mg/kg		06/19/94	KMS
oclor-1242	<0.4	mg/kg		06/19/94	KMS
oclor-1248	<0.4	mg/kg		06/19/94	KMS
oclor-1254	<0.4	mg/kg		06/19/94	KMS
oclor-1260	<0.4	mg/kg		06/19/94	KMS
traction, EPA 3550A, BNA				06/01/94	HR
traction, EPA 3550A, PCB/Pest				06/16/94	HR
Aluminum, EPA 7020	100	mg/kg		06/08/94	KBB
Antimony, EPA 7041	8.2	mg/kg		06/29/94	CRW
Barium, EPA 7060	<1	mg/kg		06/22/94	CRW
Bismuth, EPA 7080	<20	mg/kg		06/07/94	KBB
Boron, EPA 7090	<1	mg/kg		06/01/94	KBB
Cadmium, EPA 7130	<1	mg/kg		06/07/94	KBB
Chromium, EPA 7140	4400	mg/kg		06/08/94	JNT
Cobalt, EPA 7190	3.9	mg/kg		06/06/94	KBB
Copper, EPA 7200	2.8	mg/kg		06/08/94	KBB
Lead, EPA 7380	6.2	mg/kg		06/03/94	JNT
Lithium, EPA 7421	4.3	mg/kg		06/01/94	JNT
Manganese, EPA 7450	<20	mg/kg		06/27/94	JNT
Nickel, EPA 7460	52000	mg/kg		06/08/94	JNT
Silver, EPA 7471	25	mg/kg		06/08/94	KBB
Zinc, EPA 7520	<0.1	mg/kg		06/07/94	KBB
	40	mg/kg	b	06/06/94	KBB

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507619
Customer ID: TP3-S4 - 5/26/94
Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Potassium, EPA 7610	<100	mg/kg		06/01/94	KBB
Selenium, EPA 7740	<1	mg/kg		06/25/94	CRW
Silver, EPA 7760	<1	mg/kg		06/14/94	KBB
Sodium, EPA 7770	<70	mg/kg		06/01/94	JNT
Barium, EPA 7841	<10	mg/kg		06/23/94	KBB
Vanadium, EPA 7911	<20	mg/kg		06/23/94	KBB
Copper, EPA 7950	22	mg/kg		06/02/94	JNT
Metals Digestion, EPA SW846, c3	batch	741		06/01/94	JEB
Ammonide, Total, EPA 335.2	<0.1	mg/kg		05/31/94	JDC
Acid Reactivity, as pH, EPA 9045	9.0	Std Units		05/31/94	HMP
Stability, EPA 1010	>60	Degrees C		06/10/94	JDC
Ammonide Reactivity, SW846, 7.3	<20	mg/kg		05/31/94	JDC
Sulfide Reactivity, SW846, 7.3	<10	mg/kg		06/01/94	HMP
4-D, EP Tox, EPA 8150A	<0.02	ug/l		06/18/94	KMS
Hexachlorocyclopentadiene, EP Tox, EPA 8150A	<0.02	ug/l		06/18/94	KMS
Heptachlorocyclopentadiene, EP Tox	<0.03	ug/l		06/16/94	KMS
Endrin, EP Tox	<0.05	ug/l		06/16/94	KMS
Chlorobenzene, EP Tox	<0.3	ug/l		06/16/94	KMS
Benzophenone, EP Tox	<1	ug/l		06/16/94	KMS
Extraction, EP Toxicity				06/07/94	JEB
Extraction, EPA 3510A, EPTox Herb				06/07/94	HR
Extraction, EPA 3510A, EPTox Pest				06/07/94	HR
Mercuric, EP Tox, EPA 206.2	<0.1	mg/l		06/14/94	CRW
Mercuric, EP Tox, EPA 208.1	<2	mg/l		06/15/94	KBB
Mercuric, EP Tox, EPA 213.1	<0.1	mg/l		06/13/94	KBB
Mercuric, Total, EP Tox, EPA 218.1	0.13	mg/l		06/13/94	KBB
Mercuric, EP Tox, EPA 239.1	<0.5	mg/l		06/10/94	KBB
Mercuric, EP Tox, EPA 245.1	<0.002	mg/l		06/10/94	KBB
Mercuric, EP Tox, EPA 270.2	<0.1	mg/l		06/14/94	CRW
Mercuric, EP Tox, EPA 272.1	<0.1	mg/l		06/14/94	KBB
Metals Digestion, EP Tox	batch	757		06/08/94	JEB

Elevated detection limit due to matrix interference
Result should be considered to be an estimate due to matrix interferences.

Life Science Laboratories, Inc
5854 Butternut Drive
East Syracuse, New York 13057
(315) 445-1105
NYS DOH ELAP NO. 10248

Page # 11

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507620

Customer ID: TP3-S5 - 5/26/94

Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
PA 8240 Volatiles					
Acetone	76	ug/kg		06/01/94	KMG
Benzene	<5	ug/kg		06/01/94	KMG
Bromodichloromethane	<5	ug/kg		06/01/94	KMG
Bromoform	<5	ug/kg		06/01/94	KMG
Bromomethane	<5	ug/kg		06/01/94	KMG
Butanone	<10	ug/kg		06/01/94	KMG
Carbon disulfide	<10	ug/kg		06/01/94	KMG
Carbon tetrachloride	<5	ug/kg		06/01/94	KMG
Chlorobenzene	<5	ug/kg		06/01/94	KMG
Chloroethane	<5	ug/kg		06/01/94	KMG
Chloroform	<10	ug/kg		06/01/94	KMG
Chloromethane	<5	ug/kg		06/01/94	KMG
Bromochloromethane	<10	ug/kg		06/01/94	KMG
1,1-Dichloroethane	<5	ug/kg		06/01/94	KMG
1,2-Dichloroethane	<5	ug/kg		06/01/94	KMG
1,1-Dichloroethene	<5	ug/kg		06/01/94	KMG
1,2-Dichloroethene, Total	<5	ug/kg		06/01/94	KMG
1,1-Dichloropropane	<5	ug/kg		06/01/94	KMG
1,1,3-Dichloropropene	<5	ug/kg		06/01/94	KMG
trans-1,3-Dichloropropene	<5	ug/kg		06/01/94	KMG
Tolylbenzene	<5	ug/kg		06/01/94	KMG
Hexanone	<5	ug/kg		06/01/94	KMG
Phenylene chloride	<10	ug/kg		06/01/94	KMG
Methyl-2-pentanone	14	ug/kg		06/01/94	KMG
Styrene	230	ug/kg		06/01/94	KMG
1,2,2,2-Tetrachloroethane	<5	ug/kg		06/01/94	KMG
Trichloroethene	37	ug/kg		06/01/94	KMG
Triphenylene	<5	ug/kg		06/01/94	KMG
1,1-Trichloroethane	<5	ug/kg		06/01/94	KMG
1,2-Trichloroethane	<5	ug/kg		06/01/94	KMG
Trichloroethene	<5	ug/kg		06/01/94	KMG
Glacial acetic acid	25	ug/kg		06/01/94	KMG
Mercuric chloride	<10	ug/kg		06/01/94	KMG
Phenylene	<10	ug/kg		06/01/94	KMG
Phenylene	<5	ug/kg		06/01/94	KMG
Phenylene	<5	ug/kg		06/01/94	KMG
Phenylene	<5	ug/kg		06/01/94	KMG

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507620

Customer ID: TP3-S5 - 5/26/94

Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
-----	-----	-----	-----	-----	-----
PA 8270 Semi-Volatiles (B/N)					
Benaphthene	<8	mg/kg			
Benaphthylene	<8	mg/kg	06/10/94		CRT
Anthracene	<8	mg/kg	06/10/94		CRT
Benzo(a)anthracene	<8	mg/kg	06/10/94		CRT
Benzo(b)fluoranthene	<8	mg/kg	06/10/94		CRT
Benzo(k)fluoranthene	<8	mg/kg	06/10/94		CRT
Benzo(g,h,i)perylene	<8	mg/kg	06/10/94		CRT
Benzo(a)pyrene	<8	mg/kg	06/10/94		CRT
Bromophenyl phenyl ether	<8	mg/kg	06/10/94		CRT
Butylbenzylphthalate	<8	mg/kg	06/10/94		CRT
Carbazole	<8	mg/kg	06/10/94		CRT
Chloroaniline	<20	mg/kg	06/10/94		CRT
1,2-Dichloroethoxy)methane	<8	mg/kg	06/10/94		CRT
1,2-Dichloroethyl)ether	<8	mg/kg	06/10/94		CRT
Chloronaphthalene	<8	mg/kg	06/10/94		CRT
Chlorophenyl phenyl ether	<8	mg/kg	06/10/94		CRT
Crysene	<8	mg/kg	06/10/94		CRT
Benzo(a,h)anthracene	<8	mg/kg	06/10/94		CRT
Benzo(furan	<8	mg/kg	06/10/94		CRT
Butylphthalate	<8	mg/kg	06/10/94		CRT
1,2-Dichlorobenzene	<8	mg/kg	06/10/94		CRT
1,3-Dichlorobenzene	<8	mg/kg	06/10/94		CRT
1,4-Dichlorobenzene	<8	mg/kg	06/10/94		CRT
1,2-Dichlorobenzidine	<8	mg/kg	06/10/94		CRT
1-Ethylphthalate	<20	mg/kg	06/10/94		CRT
1-Ethylphthalate	<8	mg/kg	06/10/94		CRT
1,2-Dinitrotoluene	<8	mg/kg	06/10/94		CRT
1,3-Dinitrotoluene	<8	mg/kg	06/10/94		CRT
1,4-Octyl phthalate	<8	mg/kg	06/10/94		CRT
1,2-Ethylhexyl)phthalate	<8	mg/kg	06/10/94		CRT
Benanthrene	<8	mg/kg	06/10/94		CRT
Benorene	<8	mg/kg	06/10/94		CRT
1,2-Dichlorobenzene	14	mg/kg	06/10/94		CRT
1,2-Dichlorobutadiene	<8	mg/kg	06/10/94		CRT
1,2-Dichlorocyclopentadiene	<8	mg/kg	06/10/94		CRT
1,2-Dichloroethane	<8	mg/kg	06/10/94		CRT
Benzo(1,2,3-c,d)pyrene	<8	mg/kg	06/10/94		CRT
	<8	mg/kg	06/10/94		CRT

07/01/94

Phone: (315) 457-4105

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
sophorone	<8	mg/kg		06/10/94	CRT
-Methylnaphthalene	200	mg/kg		06/10/94	CRT
aphthalene	210	mg/kg		06/10/94	CRT
-Nitroaniline	<20	mg/kg		06/10/94	CRT
Nitroaniline	<20	mg/kg		06/10/94	CRT
-Nitroaniline	<20	mg/kg		06/10/94	CRT
trobenzene	<8	mg/kg		06/10/94	CRT
Nitrosodiphenylamine	<8	mg/kg		06/10/94	CRT
Nitrosodipropylamine	<8	mg/kg		06/10/94	CRT
enananthrene	19	mg/kg		06/10/94	CRT
rene	<8	mg/kg		06/10/94	CRT
2,4-Trichlorobenzene	<8	mg/kg		06/10/94	CRT
A 8270 Semi-Volatiles (Acids)	<8	mg/kg		06/10/94	CRT
Chloro-3-methylphenol	<8	mg/kg		06/10/94	CRT
Chlorophenol	<8	mg/kg		06/10/94	CRT
4-Dichlorophenol	<8	mg/kg		06/10/94	CRT
4-Dimethylphenol	<8	mg/kg		06/10/94	CRT
4-Dinitrophenol	<8	mg/kg		06/10/94	CRT
Methyl-4,6-dinitrophenol	<20	mg/kg		06/10/94	CRT
Methylphenol	<8	mg/kg		06/10/94	CRT
Nitrophenol	<8	mg/kg		06/10/94	CRT
Nitrophenol	<8	mg/kg		06/10/94	CRT
ntachlorophenol	<8	mg/kg		06/10/94	CRT
enol	<20	mg/kg		06/10/94	CRT
4,5-Trichlorophenol	<8	mg/kg		06/10/94	CRT
4,6-Trichlorophenol	<8	mg/kg		06/10/94	CRT
A 8080 TCL Pesticides/PCB's				06/10/94	CRT
ha-BHC	<0.05	mg/kg			
a-BHC	<0.05	mg/kg	a	06/19/94	KMS
ta-BHC	<0.05	mg/kg		06/19/94	KMS
ma-BHC (Lindane)	<0.05	mg/kg		06/19/94	KMS
tachlor	<0.05	mg/kg		06/19/94	KMS
rin	<0.05	mg/kg		06/19/94	KMS
tachlor epoxide	<0.05	mg/kg		06/19/94	KMS
osulfan 1	<0.05	mg/kg		06/19/94	KMS
ldrin	<0.05	mg/kg		06/19/94	KMS
-DDE	<0.08	mg/kg		06/19/94	KMS
	<0.08	mg/kg		06/19/94	KMS

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
181 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507620

Customer ID: TP3-S5 - 5/26/94

Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name

Test Name	Results	Units	Comment	Completed	Initials
irin	<0.08	mg/kg		06/19/94	KMS
osulfan 11	<0.2	mg/kg		06/19/94	KMS
'-DDD	<0.2	mg/kg		06/19/94	KMS
osulfan sulfate	<0.2	mg/kg		06/19/94	KMS
'-DDT	<0.2	mg/kg		06/19/94	KMS
hoxychlor	<0.5	mg/kg		06/19/94	KMS
irin Ketone	<0.2	mg/kg		06/19/94	KMS
na-Chlordane	<0.05	mg/kg		06/19/94	KMS
ma-Chlordane	<0.05	mg/kg		06/19/94	KMS
aphene	<2	mg/kg		06/19/94	KMS
lor-1016	<0.8	mg/kg		06/19/94	KMS
lor-1221	<0.8	mg/kg		06/19/94	KMS
lor-1232	<0.8	mg/kg		06/19/94	KMS
lor-1242	<0.8	mg/kg		06/19/94	KMS
lor-1248	<0.8	mg/kg		06/19/94	KMS
lor-1254	<0.8	mg/kg		06/19/94	KMS
lor-1260	<0.8	mg/kg		06/19/94	KMS
action, EPA 3550A, PCB/Pest				06/16/94	HR
action, EPA 3550A, BNA				06/01/94	HR
num, EPA 7020	4800	mg/kg			
rony, EPA 7041	<2	mg/kg			
nic, EPA 7060	5.1	mg/kg	b	06/08/94	KBB
m, EPA 7080	120	mg/kg		06/29/94	CRW
lium, EPA 7090	<1	mg/kg		06/22/94	CRW
um, EPA 7130	1.8	mg/kg		06/07/94	KBB
um, EPA 7140	32000	mg/kg		06/01/94	KBB
ium, EPA 7190	9.7	mg/kg		06/07/94	KBB
e, EPA 7200	4.8	mg/kg		06/08/94	JNT
r, EPA 7210	570	mg/kg	b	06/06/94	KBB
EPA 7380	77	mg/kg		06/08/94	KBB
EPA 7421	270	mg/kg		06/03/94	JNT
ium, EPA 7450	3600	mg/kg		06/01/94	JNT
ese, EPA 7460	400	mg/kg		06/27/94	JNT
Y, EPA 7471	1.2	mg/kg		06/08/94	JNT
EPA 7520	17	mg/kg		06/08/94	KBB
		mg/kg	b	06/07/94	KBB
				06/06/94	KBB

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
 1481 Henry Clay Blvd.
 Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507620
 Customer ID: TP3-S5 - 5/26/94
 Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Potassium, EPA 7610	680	mg/kg		06/01/94	KBB
Selenium, EPA 7740	<1	mg/kg		06/27/94	CRW
Silver, EPA 7760	120	mg/kg		06/14/94	KBB
Sodium, EPA 7770	<70	mg/kg		06/01/94	JNT
Gallium, EPA 7841	<10	mg/kg		06/23/94	KBB
Vanadium, EPA 7911	<20	mg/kg		06/23/94	KBB
Cadmium, EPA 7950	770	mg/kg		06/02/94	JNT
Metals Digestion, EPA SW846, c3	batch	741		06/01/94	JEB
Amide, Total, EPA 335.2	2.0	mg/kg		05/31/94	JDC
Corrosivity, as pH, EPA 9045	8.8	Std Units		05/31/94	HMP
Ignitability, EPA 1010	>60	Degrees C		06/10/94	JDC
Amide Reactivity, SW846, 7.3	<20	mg/kg		05/31/94	JDC
Sulfide Reactivity, SW846, 7.3	<10	mg/kg		06/01/94	HMP
4-D, EP Tox, EPA 8150A	<0.02	ug/l		06/18/94	KMS
Alvex, EP Tox, EPA 8150A	<0.02	ug/l		06/18/94	KMS
Endane, EP Tox	<0.03	ug/l		06/16/94	KMS
Irin, EP Tox	<0.05	ug/l		06/16/94	KMS
Thoxychlor, EP Tox	<0.3	ug/l		06/16/94	KMS
Xaphene, EP Tox	<1	ug/l		06/16/94	KMS
Extraction, EPA 3510A, EPTox Herb				06/07/94	HR
Extraction, EPA 3510A, EPTox Pest				06/07/94	HR
Extraction, EP Toxicity				06/07/94	JEB
Benic, EP Tox, EPA 206.2	<0.1	mg/l		06/14/94	CRW
rium, EP Tox, EPA 208.1	<2	mg/l		06/15/94	KBB
imium, EP Tox, EPA 213.1	<0.1	mg/l		06/13/94	KBB
omium, Total, EP Tox, EPA 218.	0.14	mg/l		06/13/94	KBB
ad, EP Tox, EPA 239.1	<0.5	mg/l		06/10/94	KBB
cury, EP Tox, EPA 245.1	<0.002	mg/l		06/10/94	KBB
enium, EP Tox, EPA 270.2	<0.1	mg/l		06/27/94	CRW
ver, EP Tox, EPA 272.1	<0.1	mg/l		06/14/94	KBB
als Digesiton, EP Tox	batch	757		06/08/94	JEB

Elevated detection limit due to matrix interference
 Result should be considered to be an estimate due to matrix interferences.

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
2481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507621

Customer ID: TP4-S1 - 5/26/94

Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<400	ug/kg	a	06/02/94	KMG
Benzene	<200	ug/kg		06/02/94	KMG
Bromodichloromethane	<200	ug/kg		06/02/94	KMG
Bromoform	<200	ug/kg		06/02/94	KMG
Bromomethane	<400	ug/kg		06/02/94	KMG
-Butanone	<400	ug/kg		06/02/94	KMG
Carbon disulfide	<200	ug/kg		06/02/94	KMG
Carbon tetrachloride	<200	ug/kg		06/02/94	KMG
Chlorobenzene	<200	ug/kg		06/02/94	KMG
Chloroethane	<400	ug/kg		06/02/94	KMG
Chloroform	<200	ug/kg		06/02/94	KMG
Chloromethane	<400	ug/kg		06/02/94	KMG
Dibromochloromethane	<200	ug/kg		06/02/94	KMG
1,1-Dichloroethane	<200	ug/kg		06/02/94	KMG
1,2-Dichloroethane	<200	ug/kg		06/02/94	KMG
1,1-Dichloroethene	<200	ug/kg		06/02/94	KMG
1,2-Dichloroethene, Total	<200	ug/kg		06/02/94	KMG
1,2-Dichloropropane	<200	ug/kg		06/02/94	KMG
trans-1,3-Dichloropropene	<200	ug/kg		06/02/94	KMG
trans-1,3-Dichloropropene	<200	ug/kg		06/02/94	KMG
Ethylbenzene	<200	ug/kg		06/02/94	KMG
-Hexanone	<400	ug/kg		06/02/94	KMG
Ethylene chloride	<200	ug/kg		06/02/94	KMG
-Methyl-2-pentanone	<400	ug/kg		06/02/94	KMG
Ethylene	<200	ug/kg		06/02/94	KMG
1,1,2,2,-Tetrachloroethane	<200	ug/kg		06/02/94	KMG
Tetrachloroethene	<200	ug/kg		06/02/94	KMG
Fluorene	<200	ug/kg		06/02/94	KMG
1,1,1-Trichloroethane	<200	ug/kg		06/02/94	KMG
1,1,2-Trichloroethane	<200	ug/kg		06/02/94	KMG
Trichloroethene	<200	ug/kg		06/02/94	KMG
Ethyl acetate	<400	ug/kg		06/02/94	KMG
Ethyl chloride	<400	ug/kg		06/02/94	KMG
Xylene	<200	ug/kg		06/02/94	KMG
Xylene	<200	ug/kg		06/02/94	KMG
Xylene	<200	ug/kg		06/02/94	KMG
Xylene	<200	ug/kg		06/02/94	KMG

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507621

Customer ID: TP4-S1 - 5/26/94

Project #: L2115 -381

Matrix: SHW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
-----	-----	-----	-----	-----	-----
EPA 8270 Semi-Volatiles (B/N)					
Acenaphthene	<0.8	mg/kg	a	06/10/94	CRT
Acenaphthylene	<0.8	mg/kg		06/10/94	CRT
Anthracene	<0.8	mg/kg		06/10/94	CRT
Benzo(a)anthracene	<0.8	mg/kg		06/10/94	CRT
Benzo(b)fluoranthene	<0.8	mg/kg		06/10/94	CRT
Benzo(k)fluoranthene	<0.8	mg/kg		06/10/94	CRT
Benzo(g,h,i)perylene	<0.8	mg/kg		06/10/94	CRT
Benzo(a)pyrene	<0.8	mg/kg		06/10/94	CRT
2-Bromophenyl phenyl ether	<0.8	mg/kg		06/10/94	CRT
Butylbenzylphthalate	<0.8	mg/kg		06/10/94	CRT
Carbazole	<0.8	mg/kg		06/10/94	CRT
2-Chloroaniline	<2	mg/kg		06/10/94	CRT
1,2-Bis(2-Chloroethoxy)ethane	<0.8	mg/kg		06/10/94	CRT
1,2-Bis(2-Chloroethyl)ether	<0.8	mg/kg		06/10/94	CRT
2-Chloronaphthalene	<0.8	mg/kg		06/10/94	CRT
2-Chlorophenyl phenyl ether	<0.8	mg/kg		06/10/94	CRT
Dibenz(a,h)anthracene	<0.8	mg/kg		06/10/94	CRT
Dibenzofuran	<0.8	mg/kg		06/10/94	CRT
Diethylphthalate	<0.8	mg/kg		06/10/94	CRT
1,2-Dichlorobenzene	<0.8	mg/kg		06/10/94	CRT
1,3-Dichlorobenzene	<0.8	mg/kg		06/10/94	CRT
1,4-Dichlorobenzene	<0.8	mg/kg		06/10/94	CRT
1,3'-Dichlorobenzidine	<0.8	mg/kg		06/10/94	CRT
Diethylphthalate	<2	mg/kg		06/10/94	CRT
Dimethylphthalate	<0.8	mg/kg		06/10/94	CRT
1,4-Dinitrotoluene	<0.8	mg/kg		06/10/94	CRT
1,5-Dinitrotoluene	<0.8	mg/kg		06/10/94	CRT
n-Octyl phthalate	<0.8	mg/kg		06/10/94	CRT
1,2-Bis(2-Ethylhexyl)phthalate	<0.8	mg/kg		06/10/94	CRT
Fluoranthene	<0.8	mg/kg		06/10/94	CRT
Fluorene	<0.8	mg/kg		06/10/94	CRT
1,2,3-Trichlorobenzene	<0.8	mg/kg		06/10/94	CRT
1,2,3-Trichlorobutadiene	<0.8	mg/kg		06/10/94	CRT
1,2,3-Trichlorocyclopentadiene	<0.8	mg/kg		06/10/94	CRT
1,2,3-Trichloroethane	<0.8	mg/kg		06/10/94	CRT
Benzo(1,2,3-c,d)pyrene	<0.8	mg/kg		06/10/94	CRT
Phorone	<0.8	mg/kg		06/10/94	CRT

07/01/94

Phone: (315) 457-4105

Authorization: 2435-002

[illegible]

Chlorophenols (Acids)		a		
Chloro-3-methylphenol	<0.8	mg/kg	06/10/94	CRT
Chlorophenol	<0.8	mg/kg	06/10/94	CRT
4-Dichlorophenol	<0.8	mg/kg	06/10/94	CRT
4-Dimethylphenol	<0.8	mg/kg	06/10/94	CRT
4-Dinitrophenol	<0.8	mg/kg	06/10/94	CRT
Methyl-4,6-dinitrophenol	<2	mg/kg	06/10/94	CRT
Methylphenol	<0.8	mg/kg	06/10/94	CRT
Nitrophenol	<0.8	mg/kg	06/10/94	CRT
Nitrophenol	<0.8	mg/kg	06/10/94	CRT
Orthachlorophenol	<0.8	mg/kg	06/10/94	CRT
Phenol	<2	mg/kg	06/10/94	CRT
2,5-Trichlorophenol	<0.8	mg/kg	06/10/94	CRT
2,6-Trichlorophenol	<0.8	mg/kg	06/10/94	CRT
	<0.8	mg/kg	06/10/94	CRT

Chemical	Concentration	Unit	Location	Date	Analyst
gamma-BHC	<0.05	mg/kg	a	06/19/94	KMS
gamma-BHC	<0.05	mg/kg		06/19/94	KMS
gamma-BHC (Lindane)	<0.05	mg/kg		06/19/94	KMS
Dacthlor	<0.05	mg/kg		06/19/94	KMS
Dieldrin	<0.05	mg/kg		06/19/94	KMS
Dacthlor epoxide	<0.05	mg/kg		06/19/94	KMS
Chlorosulfan 1	<0.05	mg/kg		06/19/94	KMS
Dieldrin	<0.05	mg/kg		06/19/94	KMS
DDE	<0.08	mg/kg		06/19/94	KMS
	<0.08	mg/kg		06/19/94	KMS

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
 1481 Henry Clay Blvd.
 Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507621
 Customer ID: TP4-S1 - 5/26/94
 Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Endrin	<0.08	mg/kg		06/19/94	KMS
Endosulfan 11	<0.2	mg/kg		06/19/94	KMS
4'-DDD	<0.2	mg/kg		06/19/94	KMS
Endosulfan sulfate	<0.2	mg/kg		06/19/94	KMS
4'-DDT	<0.2	mg/kg		06/19/94	KMS
Endothychlor	<0.5	mg/kg		06/19/94	KMS
Endrin Ketone	<0.2	mg/kg		06/19/94	KMS
Gamma-Chlordane	<0.05	mg/kg		06/19/94	KMS
Gamma-Chlordane	<0.05	mg/kg		06/19/94	KMS
Xaphene	<2	mg/kg		06/19/94	KMS
Ochlor-1016	<0.8	mg/kg		06/19/94	KMS
Ochlor-1221	<0.8	mg/kg		06/19/94	KMS
Ochlor-1232	<0.8	mg/kg		06/19/94	KMS
Ochlor-1242	<0.8	mg/kg		06/19/94	KMS
Ochlor-1248	<0.8	mg/kg		06/19/94	KMS
Ochlor-1254	<0.8	mg/kg		06/19/94	KMS
Ochlor-1260	<0.8	mg/kg		06/19/94	KMS
Fraction, EPA 3550A, BNA				06/01/94	HR
Fraction, EPA 3550A, PCB/Pest				06/16/94	HR
Aluminum, EPA 7020	14000	mg/kg			
Antimony, EPA 7041	<2	mg/kg	b	06/08/94	KBB
Barium, EPA 7060	8.5	mg/kg		06/29/94	CRW
Bismuth, EPA 7080	27	mg/kg		06/22/94	CRW
Calcium, EPA 7090	<1	mg/kg		06/07/94	KBB
Cadmium, EPA 7130	1.4	mg/kg		06/01/94	KBB
Chromium, EPA 7140	15000	mg/kg		06/07/94	KBB
Cobalt, EPA 7190	12	mg/kg		06/08/94	JNT
Copper, EPA 7200	2.3	mg/kg	b	06/06/94	KBB
Lead, EPA 7210	27	mg/kg		06/08/94	KBB
Mercury, EPA 7380	53	mg/kg		06/03/94	JNT
Manganese, EPA 7421	<20	mg/kg		06/01/94	JNT
Nickel, EPA 7450	1400	mg/kg		06/27/94	JNT
Selenium, EPA 7460	180	mg/kg		06/08/94	JNT
Silver, EPA 7471	<0.1	mg/kg		06/08/94	KBB
Sodium, EPA 7520	7.4	mg/kg		06/07/94	KBB
Strontium, EPA 7610	300	mg/kg	b	06/06/94	KBB
				06/01/94	KBB

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507621
Customer ID: TP4-S1 - 5/26/94
Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Selenium, EPA 7740	<1	mg/kg		06/25/94	CRW
Silver, EPA 7760	23	mg/kg		06/14/94	KBB
Sodium, EPA 7770	<70	mg/kg		06/01/94	JNT
Thallium, EPA 7841	<10	mg/kg		06/23/94	KBB
Titanium, EPA 7911	<20	mg/kg		06/23/94	KBB
Vanadium, EPA 7950	630	mg/kg		06/02/94	JNT
Metals Digestion, EPA SW846, c3	batch	741		06/01/94	JEB
Cyanide, Total, EPA 335.2	0.18	mg/kg		05/31/94	JDC
Acidity, as pH, EPA 9045	8.0	Std Units		05/31/94	HMP
Stability, EPA 1010	>60	Degrees C		06/10/94	JDC
Cyanide Reactivity, SW846, 7.3	<20	mg/kg		05/31/94	JDC
Sulfide Reactivity, SW846, 7.3	<10	mg/kg		06/01/94	HMP
4-D, EP Tox, EPA 8150A	<0.02	ug/l		06/18/94	KMS
Alvex, EP Tox, EPA 8150A	<0.02	ug/l		06/18/94	KMS
Endane, EP Tox	<0.03	ug/l		06/17/94	KMS
Endrin, EP Tox	<0.05	ug/l		06/17/94	KMS
Endroxychlor, EP Tox	<0.3	ug/l		06/17/94	KMS
Endaphene, EP Tox	<1	ug/l		06/17/94	KMS
Extraction, EPA 3510A, EPTox Herb				06/07/94	HR
Extraction, EPA 3510A, EPTox Pest				06/07/94	HR
Extraction, EP Toxicity				06/07/94	JEB
Genic, EP Tox, EPA 206.2	<0.1	mg/l		06/14/94	CRW
Mercury, EP Tox, EPA 208.1	<2	mg/l		06/15/94	KBB
Mercury, EP Tox, EPA 213.1	<0.1	mg/l		06/13/94	KBB
Mercury, Total, EP Tox, EPA 218.1	<0.1	mg/l		06/13/94	KBB
Mercury, EP Tox, EPA 239.1	1.4	mg/l		06/10/94	KBB
Mercury, EP Tox, EPA 245.1	<0.002	mg/l		06/10/94	KBB
Mercury, EP Tox, EPA 270.2	<0.1	mg/l		06/27/94	CRW
Mercury, EP Tox, EPA 272.1	<0.1	mg/l		06/14/94	KBB
Metals Digestion, EP Tox	batch	757		06/08/94	JEB

Elevated detection limit due to matrix interference
Result should be considered to be an estimate due to matrix interferences.

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
 1481 Henry Clay Blvd.
 Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507622

Project #: L2115 -381

Customer ID: TP4-S2 - 5/26/94

Matrix: SHW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
-----	-----	-----	-----	-----	-----
EPA 8240 Volatiles					
Acetone	<10	ug/kg		06/01/94	KMG
Benzene	<5	ug/kg		06/01/94	KMG
Bromodichloromethane	<5	ug/kg		06/01/94	KMG
Bromoform	<5	ug/kg		06/01/94	KMG
Bromomethane	<10	ug/kg		06/01/94	KMG
n-Butanone	<10	ug/kg		06/01/94	KMG
Carbon disulfide	<5	ug/kg		06/01/94	KMG
Carbon tetrachloride	<5	ug/kg		06/01/94	KMG
Chlorobenzene	<5	ug/kg		06/01/94	KMG
Chloroethane	<10	ug/kg		06/01/94	KMG
Chloroform	<5	ug/kg		06/01/94	KMG
Chloromethane	<10	ug/kg		06/01/94	KMG
Dibromochloromethane	<5	ug/kg		06/01/94	KMG
1,1-Dichloroethane	<5	ug/kg		06/01/94	KMG
1,2-Dichloroethane	<5	ug/kg		06/01/94	KMG
1,1-Dichloroethene	<5	ug/kg		06/01/94	KMG
1,2-Dichloroethene, Total	<5	ug/kg		06/01/94	KMG
1,2-Dichloropropane	<5	ug/kg		06/01/94	KMG
cis-1,3-Dichloropropene	<5	ug/kg		06/01/94	KMG
trans-1,3-Dichloropropene	<5	ug/kg		06/01/94	KMG
Ethylbenzene	<5	ug/kg		06/01/94	KMG
n-Hexanone	<10	ug/kg		06/01/94	KMG
Methylene chloride	<5	ug/kg		06/01/94	KMG
n-Methyl-2-pentanone	<10	ug/kg		06/01/94	KMG
Styrene	<5	ug/kg		06/01/94	KMG
1,1,2,2,-Tetrachloroethane	8.8	ug/kg		06/01/94	KMG
Tetrachloroethene	<5	ug/kg		06/01/94	KMG
Toluene	<5	ug/kg		06/01/94	KMG
1,1,1-Trichloroethane	<5	ug/kg		06/01/94	KMG
1,1,2-Trichloroethane	<5	ug/kg		06/01/94	KMG
Trichloroethene	<5	ug/kg		06/01/94	KMG
Vinyl acetate	<10	ug/kg		06/01/94	KMG
Vinyl chloride	<10	ug/kg		06/01/94	KMG
m-Xylene	<5	ug/kg		06/01/94	KMG
p-Xylene	<5	ug/kg		06/01/94	KMG
o-Xylene	<5	ug/kg		06/01/94	KMG

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507622
Customer ID: TP4-S2 - 5/26/94
Matrix: SHW

Project #: L2115 -381
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
-----	-----	-----	-----	-----	-----
EPA 8270 Semi-Volatiles (B/N)					
Acenaphthene	<8	mg/kg	a	06/10/94	CRT
Acenaphthylene	<8	mg/kg		06/10/94	CRT
Anthracene	<8	mg/kg		06/10/94	CRT
Benzo(a)anthracene	<8	mg/kg		06/10/94	CRT
Benzo(b)fluoranthene	<8	mg/kg		06/10/94	CRT
Benzo(k)fluoranthene	<8	mg/kg		06/10/94	CRT
Benzo(g,h,i)perylene	<8	mg/kg		06/10/94	CRT
Benzo(a)pyrene	<8	mg/kg		06/10/94	CRT
4-Bromophenyl phenyl ether	<8	mg/kg		06/10/94	CRT
Butylbenzylphthalate	<8	mg/kg		06/10/94	CRT
Carbazole	<20	mg/kg		06/10/94	CRT
4-Chloroaniline	<8	mg/kg		06/10/94	CRT
bis(2-Chloroethoxy)methane	<8	mg/kg		06/10/94	CRT
bis(2-Chloroethyl)ether	<8	mg/kg		06/10/94	CRT
2-Chloronaphthalene	<8	mg/kg		06/10/94	CRT
4-Chlorophenyl phenyl ether	<8	mg/kg		06/10/94	CRT
Chrysene	<8	mg/kg		06/10/94	CRT
Fluoranthene	<8	mg/kg		06/10/94	CRT
Fluorene	23	mg/kg		06/10/94	CRT
Hexachlorobenzene	<8	mg/kg		06/10/94	CRT
Hexachlorobutadiene	<8	mg/kg		06/10/94	CRT
Hexachlorocyclopentadiene	<8	mg/kg		06/10/94	CRT
Hexachloroethane	<8	mg/kg		06/10/94	CRT
Indeno(1,2,3-c,d)pyrene	<8	mg/kg		06/10/94	CRT

**** REVISED SAMPLE ANALYSIS REPORT ****

07/01/94

Malcolm Pirnie
 1481 Henry Clay Blvd.
 Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507622

Customer ID: TP4-S2 - 5/26/94

Project #: L2115 -381

Matrix: SHW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Phosphorone	<8	mg/kg		06/10/94	CRT
Methylnaphthalene	<8	mg/kg		06/10/94	CRT
Phthalene	<8	mg/kg		06/10/94	CRT
Nitroaniline	<20	mg/kg		06/10/94	CRT
Nitroaniline	<20	mg/kg		06/10/94	CRT
Nitroaniline	<20	mg/kg		06/10/94	CRT
Probenzene	<8	mg/kg		06/10/94	CRT
Nitrosodiphenylamine	<8	mg/kg		06/10/94	CRT
Nitrosodipropylamine	<8	mg/kg		06/10/94	CRT
Benanthrene	20	mg/kg		06/10/94	CRT
Gene	15	mg/kg		06/10/94	CRT
2,4-Trichlorobenzene	<8	mg/kg		06/10/94	CRT
A 8270 Semi-Volatiles (Acids)					
Chloro-3-methylphenol	<8	mg/kg		06/10/94	CRT
Chlorophenol	<8	mg/kg	a	06/10/94	CRT
4-Dichlorophenol	<8	mg/kg		06/10/94	CRT
4-Dimethylphenol	<8	mg/kg		06/10/94	CRT
4-Dinitrophenol	<8	mg/kg		06/10/94	CRT
Methyl-4,6-dinitrophenol	<20	mg/kg		06/10/94	CRT
Methylphenol	<8	mg/kg		06/10/94	CRT
Phenol	<8	mg/kg		06/10/94	CRT
Phenol	<8	mg/kg		06/10/94	CRT
Trichlorophenol	<20	mg/kg		06/10/94	CRT
2,4,6-Trichlorophenol	<8	mg/kg		06/10/94	CRT
2,6-Trichlorophenol	<8	mg/kg		06/10/94	CRT
2,4,6-Trichlorophenol	<8	mg/kg		06/10/94	CRT
B 8080 TCL Pesticides/PCB's					
alpha-BHC	<0.05	mg/kg		06/19/94	KMS
gamma-BHC	<0.05	mg/kg	a	06/19/94	KMS
delta-BHC	<0.05	mg/kg		06/19/94	KMS
gamma-BHC (Lindane)	<0.05	mg/kg		06/19/94	KMS
Chlorobenzene	<0.05	mg/kg		06/19/94	KMS
Chlorobenzene	<0.05	mg/kg		06/19/94	KMS
Chlorobenzene epoxide	<0.05	mg/kg		06/19/94	KMS
Sulfanilic acid	<0.05	mg/kg		06/19/94	KMS
Trin	<0.05	mg/kg		06/19/94	KMS
DDE	<0.05	mg/kg		06/19/94	KMS
	<0.08	mg/kg		06/19/94	KMS

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507622
Customer ID: TP4-S2 - 5/26/94
Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name

Results

Units

Comment Completed Initials

Test Name	Results	Units	Comment	Completed	Initials
Endrin	<0.08	mg/kg		06/19/94	KMS
Endosulfan 11	<0.08	mg/kg		06/19/94	KMS
4'-DDD	<0.2	mg/kg		06/19/94	KMS
Endosulfan sulfate	<0.2	mg/kg		06/19/94	KMS
4'-DDT	<0.2	mg/kg		06/19/94	KMS
Permethrin	<0.5	mg/kg		06/19/94	KMS
Endrin Ketone	<0.2	mg/kg		06/19/94	KMS
Alpha-Chlordane	<0.05	mg/kg		06/19/94	KMS
Gamma-Chlordane	<0.05	mg/kg		06/19/94	KMS
Dioxaphene	<2	mg/kg		06/19/94	KMS
Dieldrin-1016	<0.8	mg/kg		06/19/94	KMS
Dieldrin-1221	<0.8	mg/kg		06/19/94	KMS
Dieldrin-1232	<0.8	mg/kg		06/19/94	KMS
Dieldrin-1242	<0.8	mg/kg		06/19/94	KMS
Dieldrin-1248	<0.8	mg/kg		06/19/94	KMS
Dieldrin-1254	<0.8	mg/kg		06/19/94	KMS
Dieldrin-1260	<0.8	mg/kg		06/19/94	KMS
Fraction, EPA 3550A, BNA				06/01/94	HR
Fraction, EPA 3550A, PCB/Pest				06/16/94	HR
Aluminum, EPA 7020	4000	mg/kg			
Antimony, EPA 7041	<2	mg/kg	b	06/08/94	KBB
Arsenic, EPA 7060	4.1	mg/kg		06/29/94	CRW
Bismuth, EPA 7080	160	mg/kg		06/22/94	CRW
Barium, EPA 7090	<1	mg/kg		06/07/94	KBB
Bromine, EPA 7130	2.5	mg/kg		06/01/94	KBB
Calcium, EPA 7140	23000	mg/kg		06/07/94	KBB
Cadmium, EPA 7190	14	mg/kg		06/08/94	JNT
Chlorine, EPA 7200	4.2	mg/kg	b	06/06/94	KBB
Copper, EPA 7210	110	mg/kg		06/08/94	KBB
Chromium, EPA 7380	67	mg/kg		06/03/94	JNT
Cobalt, EPA 7421	59	mg/kg		06/01/94	JNT
Lead, EPA 7450	2500	mg/kg		06/27/94	JNT
Manganese, EPA 7460	280	mg/kg		06/08/94	JNT
Mercury, EPA 7471	0.10	mg/kg		06/08/94	KBB
Nickel, EPA 7520	24	mg/kg	b	06/07/94	KBB
				06/06/94	KBB

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
181 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507622
Customer ID: TP4-S2 - 5/26/94
Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Potassium, EPA 7610	530	mg/kg		06/01/94	KBB
Selenium, EPA 7740	<1	mg/kg		06/27/94	CRW
Copper, EPA 7760	150	mg/kg		06/14/94	KBB
Strontium, EPA 7770	<70	mg/kg		06/01/94	JNT
Barium, EPA 7841	<10	mg/kg		06/23/94	KBB
Radium, EPA 7911	<20	mg/kg		06/23/94	KBB
Lead, EPA 7950	210	mg/kg		06/02/94	JNT
Acids Digestion, EPA SW846, c3	batch	741		06/01/94	JEB
Amide, Total, EPA 335.2	0.40	mg/kg		05/31/94	JDC
Acidity, as pH, EPA 9045	8.0	Std Units		05/31/94	HMP
Stability, EPA 1010	>60	Degrees C		06/10/94	JDC
Amide Reactivity, SW846, 7.3	<20	mg/kg		05/31/94	JDC
Amide Reactivity, SW846, 7.3	32	mg/kg		06/01/94	HMP
Chlordane, EP Tox, EPA 8150A	<0.02	ug/l		06/19/94	KMS
DDT, EP Tox, EPA 8150A	<0.02	ug/l		06/18/94	KMS
Endrin, EP Tox	<0.03	ug/l		06/17/94	KMS
Heptachlor, EP Tox	<0.05	ug/l		06/17/94	KMS
Heptachlor Epoxide, EP Tox	<0.3	ug/l		06/17/94	KMS
Heptachlor Epoxide, EP Tox	<1	ug/l		06/17/94	KMS
Heptachlor Epoxide, EP Tox				06/17/94	KMS
Heptachlor Epoxide, EP Tox				06/08/94	HR
Heptachlor Epoxide, EP Tox				06/08/94	HR
Heptachlor Epoxide, EP Tox				06/07/94	JEB
Heptachlor Epoxide, EP Tox	<0.1	mg/l		06/14/94	CRW
Heptachlor Epoxide, EP Tox	<2	mg/l		06/15/94	KBB
Heptachlor Epoxide, EP Tox	<0.1	mg/l		06/13/94	KBB
Heptachlor Epoxide, EP Tox	<0.1	mg/l		06/13/94	KBB
Heptachlor Epoxide, EP Tox	<0.5	mg/l		06/10/94	KBB
Heptachlor Epoxide, EP Tox	<0.002	mg/l		06/10/94	KBB
Heptachlor Epoxide, EP Tox	<0.1	mg/l		06/14/94	CRW
Heptachlor Epoxide, EP Tox	<0.1	mg/l		06/14/94	KBB
Heptachlor Epoxide, EP Tox	batch	757		06/08/94	JEB

Elevated detection limit due to matrix interference
Result should be considered to be an estimate due to matrix interferences.

07/01/94

Contacts: Ms. Karen Balbierer

Sample # 40507623

Project #: L2115 -381

Authorization: 2435-002

Test Name

PA 8240 Volatiles	Results	Units	Comment	Completed	Initials
Acetone	<2	mg/kg			
Benzene	<1	mg/kg	a	06/02/94	CRT
1,1-Dichloroethane	<1	mg/kg		06/02/94	CRT
1,2-Dichloroethane	<1	mg/kg		06/02/94	CRT
1,3-Dichloroethane	<1	mg/kg		06/02/94	CRT
1,4-Dichloroethane	<2	mg/kg		06/02/94	CRT
1,1,1-Trichloroethane	<2	mg/kg		06/02/94	CRT
1,1,2-Trichloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2-Tetrachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3-Pentachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3-Hexachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4-Heptachloroethane	<2	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4-Octachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5-Nonachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6-Decachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7-Undecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8-Dodecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9-Tridecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10-Tetradecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11-Pentadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12-Hexadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13-Heptadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14-Octadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15-Nonadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16-Eicadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17-Tricadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18-Tetradecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19-Pentadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20-Hexadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21-Heptadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22-Octadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23-Nonadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24-Eicadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25-Tricadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26-Tetradecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27-Pentadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28-Hexadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29-Heptadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30-Octadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31-Nonadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32-Eicadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33-Tricadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34-Tetradecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35-Pentadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36-Hexadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37-Heptadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38-Octadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39-Nonadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40-Eicadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41-Tricadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42-Tetradecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43-Pentadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44-Hexadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45-Heptadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46-Octadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47-Nonadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48-Eicadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49-Tricadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50-Tetradecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51-Pentadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52-Hexadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53-Heptadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54-Octadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55-Nonadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56-Eicadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57-Tricadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58-Tetradecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59-Pentadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60-Hexadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61-Heptadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62-Octadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63-Nonadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64-Eicadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65-Tricadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66-Tetradecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67-Pentadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68-Hexadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69-Heptadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70-Octadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71-Nonadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72-Eicadecachloroethane	<1	mg/kg		06/02/94	CRT
1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17					

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507623
Customer ID: TP4-S3 - 5/26/94
Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
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PA 8270 Semi-Volatiles (B/N)					
Acenaphthene	<8	mg/kg	a	06/14/94	CRT
Acenaphthylene	<8	mg/kg		06/14/94	CRT
Anthracene	<8	mg/kg		06/14/94	CRT
Benzo(a)anthracene	<8	mg/kg		06/14/94	CRT
Benzo(b)fluoranthene	<8	mg/kg		06/14/94	CRT
Benzo(k)fluoranthene	<8	mg/kg		06/14/94	CRT
Benzo(g,h,i)perylene	<8	mg/kg		06/14/94	CRT
Benzo(a)pyrene	<8	mg/kg		06/14/94	CRT
Bromophenyl phenyl ether	<8	mg/kg		06/14/94	CRT
Butylbenzylphthalate	<8	mg/kg		06/14/94	CRT
Carbazole	<8	mg/kg		06/14/94	CRT
Chloroaniline	<20	mg/kg		06/14/94	CRT
Di(2-Chloroethoxy)methane	<8	mg/kg		06/14/94	CRT
Di(2-Chloroethyl)ether	<8	mg/kg		06/14/94	CRT
Chloronaphthalene	<8	mg/kg		06/14/94	CRT
Chlorophenyl phenyl ether	<8	mg/kg		06/14/94	CRT
Crysene	<8	mg/kg		06/14/94	CRT
Benzo(a,h)anthracene	<8	mg/kg		06/14/94	CRT
Benzo(furan)	<8	mg/kg		06/14/94	CRT
Butylphthalate	<8	mg/kg		06/14/94	CRT
1,2-Dichlorobenzene	85	mg/kg		06/14/94	CRT
1,3-Dichlorobenzene	<8	mg/kg		06/14/94	CRT
1,4-Dichlorobenzene	<8	mg/kg		06/14/94	CRT
1,3'-Dichlorobenzidine	<8	mg/kg		06/14/94	CRT
Diethylphthalate	<20	mg/kg		06/14/94	CRT
Dimethylphthalate	320	mg/kg		06/14/94	CRT
1,4-Dinitrotoluene	<8	mg/kg		06/14/94	CRT
1,5-Dinitrotoluene	<8	mg/kg		06/14/94	CRT
Di-n-octyl phthalate	<8	mg/kg		06/14/94	CRT
Di(2-Ethylhexyl)phthalate	<8	mg/kg		06/14/94	CRT
Fluoranthene	<8	mg/kg		06/14/94	CRT
Fluorene	<8	mg/kg		06/14/94	CRT
1,2,3-Trichlorobenzene	<8	mg/kg		06/14/94	CRT
1,2,3-Trichlorobutadiene	<8	mg/kg		06/14/94	CRT
1,2,3-Trichlorocyclopentadiene	<8	mg/kg		06/14/94	CRT
1,2,3-Trichloroethane	<8	mg/kg		06/14/94	CRT
Benzo(1,2,3-c,d)pyrene	<8	mg/kg		06/14/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507623

Customer ID: TP4-S3 - 5/26/94

Project #: L2115 -381

Matrix: SHW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
sophorone	<8	mg/kg		06/14/94	CRT
-Methylnaphthalene	<8	mg/kg		06/14/94	CRT
-Naphthalene	<8	mg/kg		06/14/94	CRT
-Nitroaniline	<20	mg/kg		06/14/94	CRT
-Nitroaniline	<20	mg/kg		06/14/94	CRT
-Nitroaniline	<20	mg/kg		06/14/94	CRT
-Nitrobenzene	<8	mg/kg		06/14/94	CRT
-Nitrosodiphenylamine	<8	mg/kg		06/14/94	CRT
-Nitrosodipropylamine	<8	mg/kg		06/14/94	CRT
phenanthrene	<8	mg/kg		06/14/94	CRT
pyrene	<8	mg/kg		06/14/94	CRT
2,4-Trichlorobenzene	<8	mg/kg		06/14/94	CRT
PA 8270 Semi-Volatiles (Acids)					
-Chloro-3-methylphenol	<8	mg/kg	a	06/14/94	CRT
-Chlorophenol	<8	mg/kg		06/14/94	CRT
4-Dichlorophenol	<8	mg/kg		06/14/94	CRT
4-Dimethylphenol	<8	mg/kg		06/14/94	CRT
4-Dinitrophenol	<8	mg/kg		06/14/94	CRT
Methyl-4,6-dinitrophenol	<20	mg/kg		06/14/94	CRT
Methylphenol	<8	mg/kg		06/14/94	CRT
Nitrophenol	<8	mg/kg		06/14/94	CRT
Nitrophenol	<8	mg/kg		06/14/94	CRT
pentachlorophenol	<20	mg/kg		06/14/94	CRT
phenol	27	mg/kg		06/14/94	CRT
4,5-Trichlorophenol	<8	mg/kg		06/14/94	CRT
4,6-Trichlorophenol	<8	mg/kg		06/14/94	CRT
A 8080 TCL Pesticides/PCB's					
pha-BHC	<0.05	mg/kg	a	06/19/94	KMS
ta-BHC	<0.05	mg/kg		06/19/94	KMS
lta-BHC	<0.05	mg/kg		06/19/94	KMS
mma-BHC (Lindane)	<0.05	mg/kg		06/19/94	KMS
ptachlor	<0.05	mg/kg		06/19/94	KMS
drin	<0.05	mg/kg		06/19/94	KMS
ptachlor epoxide	<0.05	mg/kg		06/19/94	KMS
iosulfan 1	<0.05	mg/kg		06/19/94	KMS
eldrin	<0.08	mg/kg		06/19/94	KMS
l-DDE	<0.08	mg/kg		06/19/94	KMS

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507623
Customer ID: TP4-S3 - 5/26/94
Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
-----	-----	-----	-----	-----	-----
ndrin	<0.08	mg/kg		06/19/94	KMS
ndosulfan 11	<0.2	mg/kg		06/19/94	KMS
4'-DDD	<0.2	mg/kg		06/19/94	KMS
ndosulfan sulfate	<0.2	mg/kg		06/19/94	KMS
4'-DDT	<0.2	mg/kg		06/19/94	KMS
ethoxychlor	<0.2	mg/kg		06/19/94	KMS
ndrin Ketone	<0.5	mg/kg		06/19/94	KMS
pha-Chlordane	<0.2	mg/kg		06/19/94	KMS
mma-Chlordane	<0.05	mg/kg		06/19/94	KMS
xaphene	<0.05	mg/kg		06/19/94	KMS
oclor-1016	<2	mg/kg		06/19/94	KMS
oclor-1221	<0.8	mg/kg		06/19/94	KMS
oclor-1232	<0.8	mg/kg		06/19/94	KMS
oclor-1242	<0.8	mg/kg		06/19/94	KMS
oclor-1248	<0.8	mg/kg		06/19/94	KMS
oclor-1254	<0.8	mg/kg		06/19/94	KMS
oclor-1260	<0.8	mg/kg		06/19/94	KMS
raction, EPA 3550A, BNA				06/01/94	HR
raction, EPA 3550A, PCB/Pest				06/16/94	HR
uminum, EPA 7020	21	mg/kg			
imony, EPA 7041	2.5	mg/kg	b	06/08/94	KBB
enic, EPA 7060	<1	mg/kg		06/29/94	CRW
ium, EPA 7080	<20	mg/kg		06/22/94	CRW
yllium, EPA 7090	<1	mg/kg		06/07/94	KBB
imium, EPA 7130	<1	mg/kg		06/01/94	KBB
ocium, EPA 7140	<1	mg/kg		06/07/94	KBB
omium, EPA 7190	1000	mg/kg		06/08/94	JNT
alt, EPA 7200	5.6	mg/kg	b	06/06/94	KBB
per, EPA 7210	<1	mg/kg		06/08/94	KBB
n, EPA 7380	<2	mg/kg		06/03/94	JNT
d, EPA 7421	16	mg/kg		06/01/94	JNT
nesium, EPA 7450	39	mg/kg		06/27/94	JNT
ganese, EPA 7460	59	mg/kg		06/08/94	JNT
cury, EPA 7471	38	mg/kg		06/08/94	KBB
kel, EPA 7520	<0.1	mg/kg		06/07/94	KBB
	7.9	mg/kg	b	06/06/94	KBB

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507623

Customer ID: TP4-S3 - 5/26/94

Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name

Test Name	Results	Units	Comment	Completed	Initials
Potassium, EPA 7610	<100	mg/kg		06/01/94	KBB
Selenium, EPA 7740	<1	mg/kg		06/25/94	CRW
Silver, EPA 7760	<1	mg/kg		06/14/94	KBB
Sodium, EPA 7770	310	mg/kg		06/01/94	JNT
Strontium, EPA 7841	<10	mg/kg		06/23/94	KBB
Vanadium, EPA 7911	<20	mg/kg		06/23/94	KBB
Zinc, EPA 7950	29	mg/kg		06/02/94	JNT
Acids Digestion, EPA SW846, c3	batch	741		06/01/94	JEB
Amide, Total, EPA 335.2	0.57	mg/kg		05/31/94	JDC
Acidity, as pH, EPA 9045	4.2	Std Units		05/31/94	HMP
Alkalinity, EPA 1010	>60	Degrees C		06/10/94	JDC
Amide Reactivity, SW846, 7.3	<20	mg/kg		05/31/94	JDC
Amide Reactivity, SW846, 7.3	<10	mg/kg		06/01/94	HMP
Aroclor, EP Tox, EPA 8150A	<0.06	ug/l		06/18/94	KMS
Hexachlor, EP Tox, EPA 8150A	<0.06	ug/l		06/17/94	KMS
Dieldrin, EP Tox	<0.1	ug/l		06/17/94	KMS
Endosulfan, EP Tox	<0.2	ug/l		06/17/94	KMS
Heptachlor, EP Tox	<1	ug/l		06/17/94	KMS
Heptachlor Epoxide, EP Tox	<4	ug/l		06/17/94	KMS
Heptachlor Epoxide, EPA 3510A, EPTox Herb				06/08/94	HR
Heptachlor Epoxide, EPA 3510A, EPTox Pest				06/08/94	HR
Heptachlor Epoxide, EP Toxicity				06/07/94	JEB
Mercury, EP Tox, EPA 206.2	<0.1	mg/l		06/14/94	CRW
Mercury, EP Tox, EPA 208.1	<2	mg/l		06/15/94	KBB
Mercury, EP Tox, EPA 213.1	<0.1	mg/l		06/13/94	KBB
Mercury, Total, EP Tox, EPA 218.1	<0.1	mg/l		06/13/94	KBB
Mercury, EP Tox, EPA 239.1	1.4	mg/l		06/10/94	KBB
Mercury, EP Tox, EPA 245.1	<0.002	mg/l		06/10/94	KBB
Mercury, EP Tox, EPA 270.2	<0.1	mg/l		06/27/94	CRW
Mercury, EP Tox, EPA 272.1	<0.1	mg/l		06/14/94	KBB
Mercury Digestion, EP Tox	batch	757		06/08/94	JEB

Elevated detection limit due to matrix interference
Result should be considered to be an estimate due to matrix interferences.

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507624
Customer ID: TP4-S4 - 5/26/94
Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
-----	-----	-----	-----	-----	-----
EPA 8240 Volatiles					
Acetone	<400	ug/kg	a	06/02/94	KMG
Benzene	<200	ug/kg		06/02/94	KMG
Bromodichloromethane	<200	ug/kg		06/02/94	KMG
Bromoform	<200	ug/kg		06/02/94	KMG
Bromomethane	<400	ug/kg		06/02/94	KMG
n-Butanone	<400	ug/kg		06/02/94	KMG
Carbon disulfide	<200	ug/kg		06/02/94	KMG
Carbon tetrachloride	<200	ug/kg		06/02/94	KMG
Chlorobenzene	<200	ug/kg		06/02/94	KMG
Chloroethane	<400	ug/kg		06/02/94	KMG
Chloroform	<200	ug/kg		06/02/94	KMG
Chloromethane	<400	ug/kg		06/02/94	KMG
Dibromochloromethane	<200	ug/kg		06/02/94	KMG
1,1-Dichloroethane	<200	ug/kg		06/02/94	KMG
1,2-Dichloroethane	<200	ug/kg		06/02/94	KMG
1,1-Dichloroethene	<200	ug/kg		06/02/94	KMG
1,2-Dichloroethene, Total	<200	ug/kg		06/02/94	KMG
1,2-Dichloropropane	<200	ug/kg		06/02/94	KMG
trans-1,3-Dichloropropene	<200	ug/kg		06/02/94	KMG
trans-1,3-Dichloropropene	<200	ug/kg		06/02/94	KMG
Phylbenzene	<200	ug/kg		06/02/94	KMG
n-Hexanone	<400	ug/kg		06/02/94	KMG
Ethylene chloride	<200	ug/kg		06/02/94	KMG
n-Methyl-2-pentanone	<400	ug/kg		06/02/94	KMG
Styrene	<200	ug/kg		06/02/94	KMG
1,1,2,2,-Tetrachloroethane	<200	ug/kg		06/02/94	KMG
Tetrachloroethene	<200	ug/kg		06/02/94	KMG
Toluene	<200	ug/kg		06/02/94	KMG
1,1,1-Trichloroethane	<200	ug/kg		06/02/94	KMG
1,1,2-Trichloroethane	<200	ug/kg		06/02/94	KMG
Trichloroethene	<200	ug/kg		06/02/94	KMG
Ethyl acetate	<400	ug/kg		06/02/94	KMG
Ethyl chloride	<400	ug/kg		06/02/94	KMG
Xylene	<200	ug/kg		06/02/94	KMG
Xylene	<200	ug/kg		06/02/94	KMG
Xylene	<200	ug/kg		06/02/94	KMG

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507624

Customer ID: TP4-S4 - 5/26/94

Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name

Results

Units

Comment Completed Initials

EPA 8270 Semi-Volatiles (B/N)

Test Name	Results	Units	Comment	Completed	Initials
Acenaphthene	<8	mg/kg	a	06/14/94	CRT
Acenaphthylene	<8	mg/kg		06/14/94	CRT
Anthracene	<8	mg/kg		06/14/94	CRT
Benzo(a)anthracene	15	mg/kg		06/14/94	CRT
Benzo(b)fluoranthene	12	mg/kg		06/14/94	CRT
Benzo(k)fluoranthene	10	mg/kg		06/14/94	CRT
Benzo(g,h,i)perylene	<8	mg/kg		06/14/94	CRT
Benzo(a)pyrene	9.7	mg/kg		06/14/94	CRT
1-Bromophenyl phenyl ether	<8	mg/kg		06/14/94	CRT
n-Butylbenzylphthalate	<8	mg/kg		06/14/94	CRT
Carbazole	<8	mg/kg		06/14/94	CRT
2-Chloroaniline	<20	mg/kg		06/14/94	CRT
1,2-Dichloroethoxy)methane	<8	mg/kg		06/14/94	CRT
1,2-Dichloroethyl)ether	<8	mg/kg		06/14/94	CRT
1-Chloronaphthalene	<8	mg/kg		06/14/94	CRT
1-Chlorophenyl phenyl ether	<8	mg/kg		06/14/94	CRT
Chrysene	<8	mg/kg		06/14/94	CRT
1-Benz(a,h)anthracene	20	mg/kg		06/14/94	CRT
1-Benzofuran	<8	mg/kg		06/14/94	CRT
1-Butylphthalate	<8	mg/kg		06/14/94	CRT
1,2-Dichlorobenzene	<8	mg/kg		06/14/94	CRT
1,3-Dichlorobenzene	<8	mg/kg		06/14/94	CRT
1,4-Dichlorobenzene	<8	mg/kg		06/14/94	CRT
1,3'-Dichlorobenzidine	<8	mg/kg		06/14/94	CRT
1-Ethylphthalate	<20	mg/kg		06/14/94	CRT
1-Methylphthalate	<8	mg/kg		06/14/94	CRT
1,4-Dinitrotoluene	<8	mg/kg		06/14/94	CRT
1,6-Dinitrotoluene	<8	mg/kg		06/14/94	CRT
1-n-octyl phthalate	<8	mg/kg		06/14/94	CRT
1,2-(2-Ethylhexyl)phthalate	<8	mg/kg		06/14/94	CRT
Fluoranthene	<8	mg/kg		06/14/94	CRT
Fluorene	41	mg/kg		06/14/94	CRT
1-Hachlorobenzene	<8	mg/kg		06/14/94	CRT
1-Hachlorobutadiene	<8	mg/kg		06/14/94	CRT
1-Hachlorocyclopentadiene	<8	mg/kg		06/14/94	CRT
1-Hachloroethane	<8	mg/kg		06/14/94	CRT
1-Hachloro(1,2,3-c,d)pyrene	<8	mg/kg		06/14/94	CRT
1-Hachlorophorone	<8	mg/kg		06/14/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507624

Customer ID: TP4-S4 - 5/26/94

Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
-Methylnaphthalene	<8	mg/kg		06/14/94	CRT
Naphthalene	<8	mg/kg		06/14/94	CRT
-Nitroaniline	<20	mg/kg		06/14/94	CRT
-Nitroaniline	<20	mg/kg		06/14/94	CRT
-Nitroaniline	<20	mg/kg		06/14/94	CRT
Nitrobenzene	<8	mg/kg		06/14/94	CRT
-Nitrosodiphenylamine	<8	mg/kg		06/14/94	CRT
-Nitrosodipropylamine	<8	mg/kg		06/14/94	CRT
Benanthrene	34	mg/kg		06/14/94	CRT
Pyrene	32	mg/kg		06/14/94	CRT
2,4-Trichlorobenzene	<8	mg/kg		06/14/94	CRT
PA 8270 Semi-Volatiles (Acids)					
Chloro-3-methylphenol	<8	mg/kg	a	06/14/94	CRT
Chlorophenol	<8	mg/kg		06/14/94	CRT
4-Dichlorophenol	<8	mg/kg		06/14/94	CRT
4-Dimethylphenol	<8	mg/kg		06/14/94	CRT
4-Dinitrophenol	<8	mg/kg		06/14/94	CRT
Methyl-4,6-dinitrophenol	<20	mg/kg		06/14/94	CRT
Methylphenol	<8	mg/kg		06/14/94	CRT
Nitrophenol	<8	mg/kg		06/14/94	CRT
Nitrophenol	<8	mg/kg		06/14/94	CRT
ntachlorophenol	<8	mg/kg		06/14/94	CRT
enol	<20	mg/kg		06/14/94	CRT
4,5-Trichlorophenol	<8	mg/kg		06/14/94	CRT
4,6-Trichlorophenol	<8	mg/kg		06/14/94	CRT
PA 8080 TCL Pesticides/PCB's					
pha-BHC	<0.05	mg/kg	a	06/19/94	KMS
ta-BHC	<0.05	mg/kg		06/19/94	KMS
ta-BHC	<0.05	mg/kg		06/19/94	KMS
ma-BHC (Lindane)	<0.05	mg/kg		06/19/94	KMS
tachlor	<0.05	mg/kg		06/19/94	KMS
rin	<0.05	mg/kg		06/19/94	KMS
tachlor epoxide	<0.05	mg/kg		06/19/94	KMS
osulfan l	<0.05	mg/kg		06/19/94	KMS
ldrin	<0.05	mg/kg		06/19/94	KMS
-DDE	<0.08	mg/kg		06/19/94	KMS
rin	<0.08	mg/kg		06/19/94	KMS
	<0.08	mg/kg		06/19/94	KMS

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Calcolm Pirnie
481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507624

Customer ID: TP4-S4 - 5/26/94

Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name

Test Name	Results	Units	Comment	Completed	Initials
dosulfan 11					
4'-DDD	<0.2	mg/kg		06/19/94	KMS
dosulfan sulfate	<0.2	mg/kg		06/19/94	KMS
4'-DDT	<0.2	mg/kg		06/19/94	KMS
thoxychlor	<0.2	mg/kg		06/19/94	KMS
irin Ketone	<0.5	mg/kg		06/19/94	KMS
pha-Chlordane	<0.2	mg/kg		06/19/94	KMS
mma-Chlordane	<0.05	mg/kg		06/19/94	KMS
kaphene	<0.05	mg/kg		06/19/94	KMS
oclor-1016	<2	mg/kg		06/19/94	KMS
oclor-1221	<0.8	mg/kg		06/19/94	KMS
oclor-1232	<0.8	mg/kg		06/19/94	KMS
oclor-1242	<0.8	mg/kg		06/19/94	KMS
oclor-1248	<0.8	mg/kg		06/19/94	KMS
oclor-1254	<0.8	mg/kg		06/19/94	KMS
oclor-1260	<0.8	mg/kg		06/19/94	KMS
raction, EPA 3550A, BNA				06/19/94	KMS
raction, EPA 3550A, PCB/Pest				06/01/94	HR
minum, EPA 7020				06/16/94	HR
imony, EPA 7041	2800	mg/kg			
enic, EPA 7060	<2	mg/kg	b	06/08/94	KBB
um, EPA 7080	<1	mg/kg		06/29/94	CRW
llium, EPA 7090	130	mg/kg		06/22/94	CRW
ium, EPA 7130	<1	mg/kg		06/07/94	KBB
ium, EPA 7140	1.4	mg/kg		06/01/94	KBB
mium, EPA 7190	54000	mg/kg		06/07/94	KBB
lt, EPA 7200	53	mg/kg		06/08/94	JNT
er, EPA 7210	5.0	mg/kg	b	06/06/94	KBB
, EPA 7380	110	mg/kg		06/08/94	KBB
, EPA 7421	120	mg/kg		06/03/94	JNT
esium, EPA 7450	110	mg/kg		06/01/94	JNT
anese, EPA 7460	4400	mg/kg		06/27/94	JNT
ry, EPA 7471	260	mg/kg		06/08/94	JNT
el, EPA 7520	<0.1	mg/kg		06/08/94	KBB
	65	mg/kg	b	06/07/94	KBB
				06/06/94	KBB

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
181 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507624

Customer ID: TP4-S4 - 5/26/94

Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Potassium, EPA 7610	470	mg/kg		06/01/94	KBB
Selenium, EPA 7740	<1	mg/kg		06/27/94	CRW
Copper, EPA 7760	130	mg/kg		06/14/94	KBB
Barium, EPA 7770	<70	mg/kg		06/01/94	JNT
Strontium, EPA 7841	<10	mg/kg		06/23/94	KBB
Calcium, EPA 7911	<20	mg/kg		06/23/94	KBB
Chlorine, EPA 7950	540	mg/kg		06/02/94	JNT
Acids Digestion, EPA SW846, c3	batch	741		06/01/94	JEB
Ammonide, Total, EPA 335.2	2.9	mg/kg		05/31/94	JDC
Acidity, as pH, EPA 9045	8.9	Std Units		05/31/94	HMP
Stability, EPA 1010	>60	Degrees C		06/10/94	JDC
Acid Reactivity, SW846, 7.3	<20	mg/kg		05/31/94	JDC
Base Reactivity, SW846, 7.3	<10	mg/kg		06/01/94	HMP
Lead, EP Tox, EPA 8150A	<0.03	ug/l		06/18/94	KMS
Cadmium, EP Tox, EPA 8150A	<0.03	ug/l		06/18/94	KMS
Mercury, EP Tox	<0.03	ug/l		06/17/94	KMS
Chromium, EP Tox	<0.05	ug/l		06/17/94	KMS
Polychlor, EP Tox	<0.3	ug/l		06/17/94	KMS
Benzene, EP Tox	<1	ug/l		06/17/94	KMS
Acid, EPA 3510A, EPTox Herb				06/08/94	HR
Acid, EPA 3510A, EPTox Pest				06/08/94	HR
Acid, EP Toxicity				06/07/94	JEB
Lead, EP Tox, EPA 206.2	<0.1	mg/l		06/14/94	CRW
Cadmium, EP Tox, EPA 208.1	<2	mg/l		06/15/94	KBB
Barium, EP Tox, EPA 213.1	<0.1	mg/l		06/13/94	KBB
Strontium, Total, EP Tox, EPA 218.1	<0.1	mg/l		06/13/94	KBB
Lead, EP Tox, EPA 239.1	0.50	mg/l		06/10/94	KBB
Mercury, EP Tox, EPA 245.1	<0.002	mg/l		06/10/94	KBB
Barium, EP Tox, EPA 270.2	<0.1	mg/l		06/27/94	CRW
Strontium, EP Tox, EPA 272.1	<0.1	mg/l		06/14/94	KBB
Acids Digestion, EP Tox	batch	757		06/08/94	JEB

Estimated detection limit due to matrix interference
Result should be considered to be an estimate due to matrix interferences.

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507625
Customer ID: TP4-SX - 5/26/94
Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<10	ug/kg		06/01/94	KMG
Benzene	<5	ug/kg		06/01/94	KMG
Bromodichloromethane	<5	ug/kg		06/01/94	KMG
Bromoform	<5	ug/kg		06/01/94	KMG
Bromomethane	<10	ug/kg		06/01/94	KMG
n-Butanone	<10	ug/kg		06/01/94	KMG
Carbon disulfide	<5	ug/kg		06/01/94	KMG
Carbon tetrachloride	<5	ug/kg		06/01/94	KMG
Chlorobenzene	<5	ug/kg		06/01/94	KMG
Chloroethane	<10	ug/kg		06/01/94	KMG
Chloroform	<5	ug/kg		06/01/94	KMG
Chloromethane	<10	ug/kg		06/01/94	KMG
Dibromochloromethane	<5	ug/kg		06/01/94	KMG
1,1-Dichloroethane	<5	ug/kg		06/01/94	KMG
1,2-Dichloroethane	<5	ug/kg		06/01/94	KMG
1,1-Dichloroethene	<5	ug/kg		06/01/94	KMG
1,2-Dichloroethene, Total	<5	ug/kg		06/01/94	KMG
1,2-Dichloropropane	<5	ug/kg		06/01/94	KMG
trans-1,3-Dichloropropene	<5	ug/kg		06/01/94	KMG
trans-1,3-Dichloropropene	<5	ug/kg		06/01/94	KMG
Ethylbenzene	<5	ug/kg		06/01/94	KMG
n-Hexanone	<10	ug/kg		06/01/94	KMG
Methylene chloride	10	ug/kg		06/01/94	KMG
n-Methyl-2-pentanone	<10	ug/kg		06/01/94	KMG
Styrene	<5	ug/kg		06/01/94	KMG
1,1,2,2,-Tetrachloroethane	42	ug/kg		06/01/94	KMG
Tetrachloroethene	<5	ug/kg		06/01/94	KMG
Toluene	<5	ug/kg		06/01/94	KMG
1,1,1-Trichloroethane	<5	ug/kg		06/01/94	KMG
1,1,2-Trichloroethane	<5	ug/kg		06/01/94	KMG
Trichloroethene	<5	ug/kg		06/01/94	KMG
Vinyl acetate	<10	ug/kg		06/01/94	KMG
Vinyl chloride	<10	ug/kg		06/01/94	KMG
m-Xylene	<5	ug/kg		06/01/94	KMG
p-Xylene	<5	ug/kg		06/01/94	KMG
o-Xylene	<5	ug/kg		06/01/94	KMG

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507625
Customer ID: TP4-SX - 5/26/94
Matrix: SHW

Project #: L2115 -381
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
-----	-----	-----	-----	-----	-----
EPA 8270 Semi-Volatiles (B/N)					
Acenaphthene	<8	mg/kg	a	06/14/94	CRT
Acenaphthylene	<8	mg/kg		06/14/94	CRT
Anthracene	<8	mg/kg		06/14/94	CRT
Benzo(a)anthracene	<8	mg/kg		06/14/94	CRT
Benzo(b)fluoranthene	<8	mg/kg		06/14/94	CRT
Benzo(k)fluoranthene	<8	mg/kg		06/14/94	CRT
Benzo(g,h,i)perylene	<8	mg/kg		06/14/94	CRT
Benzo(a)pyrene	<8	mg/kg		06/14/94	CRT
4-Bromophenyl phenyl ether	<8	mg/kg		06/14/94	CRT
Butylbenzylphthalate	<8	mg/kg		06/14/94	CRT
Carbazole	<20	mg/kg		06/14/94	CRT
4-Chloroaniline	<8	mg/kg		06/14/94	CRT
bis(2-Chloroethoxy)methane	<8	mg/kg		06/14/94	CRT
bis(2-Chloroethyl)ether	<8	mg/kg		06/14/94	CRT
2-Chloronaphthalene	<8	mg/kg		06/14/94	CRT
4-Chlorophenyl phenyl ether	<8	mg/kg		06/14/94	CRT
Chrysene	<8	mg/kg		06/14/94	CRT
Dibenz(a,h)anthracene	<8	mg/kg		06/14/94	CRT
Dibenzofuran	<8	mg/kg		06/14/94	CRT
Dibutylphthalate	<8	mg/kg		06/14/94	CRT
1,2-Dichlorobenzene	<8	mg/kg		06/14/94	CRT
1,3-Dichlorobenzene	<8	mg/kg		06/14/94	CRT
1,4-Dichlorobenzene	<8	mg/kg		06/14/94	CRT
3,3'-Dichlorobenzidine	<20	mg/kg		06/14/94	CRT
Diethylphthalate	<8	mg/kg		06/14/94	CRT
Dimethylphthalate	<8	mg/kg		06/14/94	CRT
2,4-Dinitrotoluene	<8	mg/kg		06/14/94	CRT
2,6-Dinitrotoluene	<8	mg/kg		06/14/94	CRT
Di-n-octyl phthalate	<8	mg/kg		06/14/94	CRT
bis(2-Ethylhexyl)phthalate	<8	mg/kg		06/14/94	CRT
Fluoranthene	15	mg/kg		06/14/94	CRT
Fluorene	<8	mg/kg		06/14/94	CRT
Hexachlorobenzene	<8	mg/kg		06/14/94	CRT
Hexachlorobutadiene	<8	mg/kg		06/14/94	CRT
Hexachlorocyclopentadiene	<8	mg/kg		06/14/94	CRT
Hexachloroethane	<8	mg/kg		06/14/94	CRT
Indeno(1,2,3-c,d)pyrene	<8	mg/kg		06/14/94	CRT

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507625

Project #: L2115 -381

Customer ID: TP4-SX - 5/26/94

Matrix: SHW

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Isophorone	<8	mg/kg		06/14/94	CRT
2-Methylnaphthalene	<8	mg/kg		06/14/94	CRT
Naphthalene	<8	mg/kg		06/14/94	CRT
2-Nitroaniline	<20	mg/kg		06/14/94	CRT
3-Nitroaniline	<20	mg/kg		06/14/94	CRT
4-Nitroaniline	<20	mg/kg		06/14/94	CRT
Nitrobenzene	<8	mg/kg		06/14/94	CRT
N-Nitrosodiphenylamine	<8	mg/kg		06/14/94	CRT
N-Nitrosodipropylamine	<8	mg/kg		06/14/94	CRT
Phenanthrene	9.2	mg/kg		06/14/94	CRT
Pyrene	12	mg/kg		06/14/94	CRT
1,2,4-Trichlorobenzene	<8	mg/kg		06/14/94	CRT
EPA 8270 Semi-Volatiles (Acids)					
4-Chloro-3-methylphenol	<8	mg/kg	a	06/14/94	CRT
2-Chlorophenol	<8	mg/kg		06/14/94	CRT
2,4-Dichlorophenol	<8	mg/kg		06/14/94	CRT
2,4-Dimethylphenol	<8	mg/kg		06/14/94	CRT
2,4-Dinitrophenol	<8	mg/kg		06/14/94	CRT
2-Methyl-4,6-dinitrophenol	<8	mg/kg		06/14/94	CRT
2-Methylphenol	<20	mg/kg		06/14/94	CRT
2-Nitrophenol	<8	mg/kg		06/14/94	CRT
4-Nitrophenol	<8	mg/kg		06/14/94	CRT
Pentachlorophenol	<20	mg/kg		06/14/94	CRT
Phenol	<8	mg/kg		06/14/94	CRT
2,4,5-Trichlorophenol	<8	mg/kg		06/14/94	CRT
2,4,6-Trichlorophenol	<8	mg/kg		06/14/94	CRT
EPA 8080 TCL Pesticides/PCB's					
alpha-BHC	<0.05	mg/kg		06/19/94	KMS
beta-BHC	<0.05	mg/kg		06/19/94	KMS
delta-BHC	<0.05	mg/kg		06/19/94	KMS
gamma-BHC (Lindane)	<0.05	mg/kg		06/19/94	KMS
heptachlor	<0.05	mg/kg		06/19/94	KMS
aldrin	<0.05	mg/kg		06/19/94	KMS
heptachlor epoxide	<0.05	mg/kg		06/19/94	KMS
endosulfan 1	<0.05	mg/kg		06/19/94	KMS
dieldrin	<0.08	mg/kg		06/19/94	KMS

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
1481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507625
Customer ID: TP4-SX - 5/26/94
Matrix: SHW

Project #: L2115 -381

Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
4,4'-DDE	<0.08	mg/kg		06/19/94	KMS
Endrin	<0.08	mg/kg		06/19/94	KMS
Endosulfan 11	<0.2	mg/kg		06/19/94	KMS
4,4'-DDD	<0.2	mg/kg		06/19/94	KMS
Endosulfan sulfate	<0.2	mg/kg		06/19/94	KMS
4,4'-DPT	<0.2	mg/kg		06/19/94	KMS
Methoxychlor	<0.5	mg/kg		06/19/94	KMS
Endrin Ketone	<0.05	mg/kg		06/19/94	KMS
alpha-Chlordane	<0.05	mg/kg		06/19/94	KMS
gamma-Chlordane	<0.05	mg/kg		06/19/94	KMS
Toxaphene	<2	mg/kg		06/19/94	KMS
Aroclor-1016	<0.8	mg/kg		06/19/94	KMS
Aroclor-1221	<0.8	mg/kg		06/19/94	KMS
Aroclor-1232	<0.8	mg/kg		06/19/94	KMS
Aroclor-1242	<0.8	mg/kg		06/19/94	KMS
Aroclor-1248	<0.8	mg/kg		06/19/94	KMS
Aroclor-1254	6.5	mg/kg		06/19/94	KMS
Aroclor-1260	<0.8	mg/kg		06/19/94	KMS
Extraction, EPA 3550A, BNA				06/01/94	HR
Extraction, EPA 3550A, PCB/Pest				06/16/94	HR
Aluminum, EPA 7020	4400	mg/kg		06/08/94	KBB
Antimony, EPA 7041	<2	mg/kg		06/29/94	CRW
Arsenic, EPA 7060	1.9	mg/kg		06/22/94	CRW
Barium, EPA 7080	120	mg/kg		06/07/94	KBB
Beryllium, EPA 7090	<1	mg/kg		06/01/94	KBB
Cadmium, EPA 7130	<1	mg/kg		06/07/94	KBB
Calcium, EPA 7140	26000	mg/kg		06/08/94	JNT
Chromium, EPA 7190	25	mg/kg		06/06/94	KBB
Cobalt, EPA 7200	5.5	mg/kg		06/08/94	KBB
Copper, EPA 7210	63	mg/kg		06/03/94	JNT
Iron, EPA 7380	63	mg/kg		06/01/94	JNT
Lead, EPA 7421	46	mg/kg		06/27/94	JNT
Magnesium, EPA 7450	4100	mg/kg		06/08/94	JNT
Manganese, EPA 7460	290	mg/kg		06/08/94	KBB
Mercury, EPA 7471	0.27	mg/kg		06/07/94	KBB
Nickel, EPA 7520	28	mg/kg		06/06/94	KBB

** REVISED SAMPLE ANALYSIS REPORT **

07/01/94

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 40507625
Customer ID: TP4-SX - 5/26/94
Matrix: SHW

Project #: L2115 -381
Authorization: 2435-002

Test Name	Results	Units	Comment	Completed	Initials
Potassium, EPA 7610	470	mg/kg		06/01/94	KBB
Selenium, EPA 7740	<1	mg/kg		06/27/94	CRW
Silver, EPA 7760	120	mg/kg		06/14/94	KBB
Sodium, EPA 7770	110	mg/kg		06/01/94	JNT
Thallium, EPA 7841	<10	mg/kg		06/23/94	KBB
Vanadium, EPA 7911	<20	mg/kg		06/23/94	KBB
Zinc, EPA 7950	140	mg/kg		06/02/94	JNT
Metals Digestion, EPA SW846, c3	batch	741		06/01/94	JEB
Cyanide, Total, EPA 335.2	0.77	mg/kg		05/31/94	JDC
Corrosivity, as pH, EPA 9045	8.0	Std Units		05/31/94	HMP
Ignitability, EPA 1010	>60	Degrees C		06/10/94	JDC
Cyanide Reactivity, SW846, 7.3	<20	mg/kg		05/31/94	JDC
Sulfide Reactivity, SW846, 7.3	<10	mg/kg		06/01/94	HMP
2,4-D, EP Tox, EPA 8150A	<0.02	ug/l		06/18/94	KMS
Silvex, EP Tox, EPA 8150A	<0.02	ug/l		06/18/94	KMS
Lindane, EP Tox	<0.03	ug/l		06/17/94	KMS
Endrin, EP Tox	<0.05	ug/l		06/17/94	KMS
Methoxychlor, EP Tox	<0.3	ug/l		06/17/94	KMS
Toxaphene, EP Tox	<1	ug/l		06/17/94	KMS
Extraction, EPA 3510A, EPTox Herb				06/08/94	HR
Extraction, EPA 3510A, EPTox Pest				06/08/94	HR
Extraction, EP Toxicity				06/07/94	JEB
Arsenic, EP Tox, EPA 206.2	<0.1	mg/l		06/14/94	CRW
Barium, EP Tox, EPA 208.1	<2	mg/l		06/15/94	KBB
Cadmium, EP Tox, EPA 213.1	<0.1	mg/l		06/13/94	KBB
Chromium, Total, EP Tox, EPA 218.	<0.1	mg/l		06/13/94	KBB
Lead, EP Tox, EPA 239.1	<0.5	mg/l		06/10/94	KBB
Mercury, EP Tox, EPA 245.1	<0.002	mg/l		06/10/94	KBB
Selenium, EP Tox, EPA 270.2	<0.1	mg/l		06/14/94	CRW
Silver, EP Tox, EPA 272.1	<0.1	mg/l		06/14/94	KBB
Metals Digesiton, EP Tox	batch	757		06/08/94	JEB

a- Result should be considered to be an estimate due to matrix interferences.

CHAIN OF CUSTODY SUMMARY FORM

L2112-81

**MALCOLM
PIRNIE**

SYRACUSE OFFICE

(315) 457-4105

MPI Contact: Karen Balbierer

ANALYTICAL LABORATORY: _____

7481 HENRY CLAY BLVD.

LIVERPOOL, NY 13088

CLIENT/LOCATION				PROJECT NUMBER			ANALYSIS REQUIRED										DATE ANALYSIS NEEDED	NOTES	
GAF (GAF Parking Lot Site) Binghamton, NY				5435-002			TCL Volatiles	TCL Semi-Volatiles	TCL Pestic + PCB	TCL Metals + Cu	EPTox - Metals	EPTox - Pestic.	EPTox - Herb.	Corrosivity as	Ign. Pot. 1/2	Reactivity			
SAMPLE ID / DESCRIPTION	DATE SAMPLED	TIME SAMPLED	MATRIX	CONTAINERS		PRESERVATIVE													
				NO.	SIZE / TYPE														
TP3-S3	5/26/94	1315	Soil unknown mat.	3	1 - Large Amber 2 - 125ml	4°C	X	X	X	X	X	X	X	X	X	X	X	Per Karen Balbierer	- Soil composite
TP3-S4		1400															- unknown material		
TP3-S5		1545															- Soil composite		
TP4-S1		1330															- Orange/green granular material		
TP4-S2		1345															- Soil composite		
TP4-S3		1440															- unknown material - semi-soil		
TP4-S4		1505															- Orange + other color material - mixed up		
TP4-SX		—															- Soil Composite		

Matrix: W - water O - oil Container: V - VOA vial
 S - soil A - air G - glass
 SE - sediment X - other P - plastic

NOTE: 1. Turnaround time for all volatile analyses, regardless of matrix, is seven days from VTSR
 2. 'Date Analysis Needed' is the date that written results are required by Malcolm Pirnie, Inc
 3. Call the Malcolm Pirnie, Inc contact within 24 hours of sample receipt if the requirements on this sheet cannot be met.

Relinquished by	Received by	Date	Time	Special Instructions
Kelly J. [Signature]	N.D. [Signature]	5/27/94	10:40 AM	Invoice \$ original to MPI * unnatural material mixed with soil - we're interested in the <u>unnatural</u> material

LIFE SCIENCE LABORATORIES

TEST PIT SOIL RESULTS



SAMPLE ANALYSIS REPORT

L2115-413

LSL Project No.


Reviewed By3/15/95

Date

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By Client's acceptance and/or use of this report, Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect Client as regards to the results contained in this report. Client further agrees that the only remedy available to Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to Client.

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LIFE SCIENCE LABORATORIES, INC.

5854 Butternut Drive, East Syracuse, New York 13057 Telephone: (315) 445-1105 Fax: (315) 445-1301

Life Science Laboratories, Inc
5854 Butternut Drive
East Syracuse, New York 13057
(315) 445-1105
NYS DOH ELAP NO. 10248

Page # 1

** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204122
Customer ID: TP-1A - 02/14/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<10	ug/kg		02/17/95	CRT
Benzene	<5	ug/kg		02/17/95	CRT
Bromodichloromethane	<5	ug/kg		02/17/95	CRT
Bromoform	<5	ug/kg		02/17/95	CRT
Bromomethane	<10	ug/kg		02/17/95	CRT
2-Butanone	<10	ug/kg		02/17/95	CRT
Carbon disulfide	<5	ug/kg		02/17/95	CRT
Carbon tetrachloride	<5	ug/kg		02/17/95	CRT
Chlorobenzene	<5	ug/kg		02/17/95	CRT
Chloroethane	<10	ug/kg		02/17/95	CRT
Chloroform	<5	ug/kg		02/17/95	CRT
Chloromethane	<10	ug/kg		02/17/95	CRT
Dibromochloromethane	<5	ug/kg		02/17/95	CRT
1,1-Dichloroethane	<5	ug/kg		02/17/95	CRT
1,2-Dichloroethane	<5	ug/kg		02/17/95	CRT
1,1-Dichloroethene	<5	ug/kg		02/17/95	CRT
1,2-Dichloroethene, Total	<5	ug/kg		02/17/95	CRT
1,2-Dichloropropane	<5	ug/kg		02/17/95	CRT
cis-1,3-Dichloropropene	<5	ug/kg		02/17/95	CRT
trans-1,3-Dichloropropene	<5	ug/kg		02/17/95	CRT
Ethylbenzene	<5	ug/kg		02/17/95	CRT
2-Hexanone	<10	ug/kg		02/17/95	CRT
Methylene chloride	<10	ug/kg		02/17/95	CRT
4-Methyl-2-pentanone	<10	ug/kg		02/17/95	CRT
Styrene	<5	ug/kg		02/17/95	CRT
1,1,2,2,-Tetrachloroethane	<5	ug/kg		02/17/95	CRT
Tetrachloroethene	<5	ug/kg		02/17/95	CRT
Toluene	<5	ug/kg		02/17/95	CRT
1,1,1-Trichloroethane	<5	ug/kg		02/17/95	CRT
1,1,2-Trichloroethane	<5	ug/kg		02/17/95	CRT
Trichloroethene	<5	ug/kg		02/17/95	CRT
Vinyl acetate	<10	ug/kg		02/17/95	CRT

Life Science Laboratories, Inc
5854 Butternut Drive
East Syracuse, New York 13057
(315) 445-1105
NYS DOH ELAP NO. 10248

Page # 2

** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204122

Project #: L2115 -413

Customer ID: TP-1A - 02/14/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Vinyl chloride	<10	ug/kg		02/17/95	CRT
o-Xylene	<5	ug/kg		02/17/95	CRT
m-Xylene	<5	ug/kg		02/17/95	CRT
p-Xylene	<5	ug/kg		02/17/95	CRT
EPA 8270 Semi-Volatiles					
Phenol	<20	mg/kg	a	02/25/95	CRT
bis(2-Chloroethyl) ether	<20	mg/kg		02/25/95	CRT
2-Chlorophenol	<20	mg/kg		02/25/95	CRT
1,3-Dichlorobenzene	<20	mg/kg		02/25/95	CRT
1,4-Dichlorobenzene	<20	mg/kg		02/25/95	CRT
Benzyl alcohol	<20	mg/kg		02/25/95	CRT
1,2-Dichlorobenzene	<20	mg/kg		02/25/95	CRT
2-Methylphenol	<20	mg/kg		02/25/95	CRT
bis(2-Chloroisopropyl) ether	<20	mg/kg		02/25/95	CRT
4-Methylphenol	<20	mg/kg		02/25/95	CRT
N-Nitroso-di-n-propylamine	<20	mg/kg		02/25/95	CRT
Hexachloroethane	<20	mg/kg		02/25/95	CRT
Nitrobenzene	<20	mg/kg		02/25/95	CRT
Isophorone	<20	mg/kg		02/25/95	CRT
2-Nitrophenol	<20	mg/kg		02/25/95	CRT
2,4-Dimethylphenol	<20	mg/kg		02/25/95	CRT
Benzoic acid	<100	mg/kg		02/25/95	CRT
bis(2-Chloroethoxy) methane	<20	mg/kg		02/25/95	CRT
2,4-Dichlorophenol	<20	mg/kg		02/25/95	CRT
1,2,4-Trichlorobenzene	<20	mg/kg		02/25/95	CRT
Naphthalene	<20	mg/kg		02/25/95	CRT
4-Chloroaniline	<20	mg/kg		02/25/95	CRT
Hexachlorobutadiene	<20	mg/kg		02/25/95	CRT
4-Chloro-3-methylphenol	<20	mg/kg		02/25/95	CRT
2-Methylnaphthalene	<20	mg/kg		02/25/95	CRT
Hexachlorocyclopentadiene	<20	mg/kg		02/25/95	CRT
2,4,6-Trichlorophenol	<20	mg/kg		02/25/95	CRT
2,4,5-Trichlorophenol	<20	mg/kg		02/25/95	CRT
2-Chloronaphthalene	<20	mg/kg		02/25/95	CRT
2-Nitroaniline	<40	mg/kg		02/25/95	CRT
Dimethylphthalate	<20	mg/kg		02/25/95	CRT

Life Science Laboratories, Inc
5854 Butternut Drive
East Syracuse, New York 13057
(315) 445-1105
NYS DOH ELAP NO. 10248

Page # 3

** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204122
Customer ID: TP-1A - 02/14/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Acenaphthylene	<20	mg/kg		02/25/95	CRT
2,6-Dinitrotoluene	<20	mg/kg		02/25/95	CRT
3-Nitroaniline	<40	mg/kg		02/25/95	CRT
Acenaphthene	<20	mg/kg		02/25/95	CRT
2,4-Dinitrophenol	<20	mg/kg		02/25/95	CRT
4-Nitrophenol	<20	mg/kg		02/25/95	CRT
Dibenzofuran	<20	mg/kg		02/25/95	CRT
2,4-Dinitrotoluene	<20	mg/kg		02/25/95	CRT
Diethylphthalate	<20	mg/kg		02/25/95	CRT
4-Chlorophenyl phenyl ether	<20	mg/kg		02/25/95	CRT
Fluorene	<20	mg/kg		02/25/95	CRT
4-Nitroaniline	<40	mg/kg		02/25/95	CRT
4,6-Dinitro-2-methylphenol	<40	mg/kg		02/25/95	CRT
N-nitrosodiphenylamine	<20	mg/kg		02/25/95	CRT
4-Bromophenyl phenyl ether	<20	mg/kg		02/25/95	CRT
Hexachlorobenzene	<20	mg/kg		02/25/95	CRT
Pentachlorophenol	<40	mg/kg		02/25/95	CRT
Phenanthrene	<20	mg/kg		02/25/95	CRT
Anthracene	<20	mg/kg		02/25/95	CRT
Di-n-butylphthalate	<20	mg/kg		02/25/95	CRT
Fluoranthene	<20	mg/kg		02/25/95	CRT
Pyrene	<20	mg/kg		02/25/95	CRT
Butyl benzyl phthalate	<20	mg/kg		02/25/95	CRT
3,3'-Dichlorobenzidine	<40	mg/kg		02/25/95	CRT
Benzo(a)anthracene	<20	mg/kg		02/25/95	CRT
Chrysene	<20	mg/kg		02/25/95	CRT
bis(2-ethylhexyl)phthalate	<20	mg/kg		02/25/95	CRT
Di-n-octylphthalate	<20	mg/kg		02/25/95	CRT
Benzo(b)fluoranthene	<20	mg/kg		02/25/95	CRT
Benzo(k)fluoranthene	<20	mg/kg		02/25/95	CRT
Benzo(a)pyrene	<20	mg/kg		02/25/95	CRT
Indeno(1,2,3-cd)pyrene	<20	mg/kg		02/25/95	CRT
Dibenz(a,h)anthracene	<20	mg/kg		02/25/95	CRT
Benzo(g,h,i)perylene	<20	mg/kg		02/25/95	CRT
Extraction, EPA 3550A, BNA				02/21/95	HB
Metals Digestion, EPA SW846, c3	batch	1256		02/17/95	JEB
Aluminum, EPA 7020	8100	mg/kg		03/08/95	KBB

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204122
Customer ID: TP-1A - 02/14/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Antimony, EPA 7041	6.6	mg/kg		03/09/95	CRW
Arsenic, EPA 7060	3.2	mg/kg		03/06/95	CRW
Barium, EPA 7080	310	mg/kg		02/22/95	KBB
Beryllium, EPA 7090	<1	mg/kg		03/01/95	KBB
Cadmium, EPA 7030	170	mg/kg		02/22/95	JNT
Calcium, EPA 7140	26000	mg/kg		02/20/95	KBB
Chromium, EPA 7190	110	mg/kg		02/22/95	JNT
Cobalt, EPA 7200	38	mg/kg		02/23/95	KBB
Copper, EPA 7210	96	mg/kg		02/24/95	JNT
Iron, EPA 7380	71000	mg/kg		02/24/95	KBB
Magnesium, EPA 7450	5400	mg/kg		02/21/95	KBB
Manganese, EPA 7460	690	mg/kg		03/01/95	JNT
Mercury, EPA 7471	2.0	mg/kg		02/24/95	KBB
Nickel, EPA 7520	440	mg/kg		02/21/95	KBB
Potassium, EPA 7610	1000	mg/kg		02/28/95	KBB
Selenium, EPA 7740	<1	mg/kg		02/21/95	CRW
Silver, EPA 7760	270	mg/kg		02/22/95	KBB
Sodium, EPA 7770	340	mg/kg		02/28/95	KBB
Zinc, EPA 7950	540	mg/kg		03/01/95	JNT
Vanadium, EPA 7910	<20	mg/kg		03/08/95	KBB
Thallium, EPA 7840	<10	mg/kg		03/10/95	KBB
Lead, EPA 7420	71	mg/kg		02/22/95	JNT
Cyanide, Total, EPA 335.2	3.2	mg/kg		02/21/95	AUT
Distillation, Total Cyanide				02/20/95	GEI
EPA 8080 PCB's					
Aroclor 1016	<4	mg/kg		03/10/95	KMS
Aroclor 1221	<4	mg/kg		03/10/95	KMS
Aroclor 1232	<4	mg/kg		03/10/95	KMS
Aroclor 1242	190	mg/kg		03/10/95	KMS
Aroclor 1248	<4	mg/kg		03/10/95	KMS
Aroclor 1254	<4	mg/kg		03/10/95	KMS
Aroclor 1260	<4	mg/kg		03/10/95	KMS
EPA 8080 Pesticides					
Aldrin	<0.2	mg/kg		03/10/95	KMS
alpha-BHC	<0.2	mg/kg		03/10/95	KMS

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204122

Project #: L2115 -413

Customer ID: TP-1A - 02/14/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
beta-BHC	<0.2	mg/kg		03/10/95	KMS
delta-BHC	<0.2	mg/kg		03/10/95	KMS
gamma-BHC (Lindane)	<0.2	mg/kg		03/10/95	KMS
alpha-Chlordane	<0.2	mg/kg		03/10/95	KMS
gamma-Chlordane	<0.2	mg/kg		03/10/95	KMS
4,4'-DDD	<0.6	mg/kg		03/10/95	KMS
4,4'-DDE	<0.4	mg/kg		03/10/95	KMS
4,4'-DDT	<0.6	mg/kg		03/10/95	KMS
Dieldrin	<0.4	mg/kg		03/10/95	KMS
Endosulfan I	<0.2	mg/kg		03/10/95	KMS
Endosulfan II	<0.6	mg/kg		03/10/95	KMS
Endosulfan sulfate	<0.6	mg/kg		03/10/95	KMS
Endrin	<0.4	mg/kg		03/10/95	KMS
Endrin aldehyde	<0.6	mg/kg		03/10/95	KMS
Endrin ketone	<0.6	mg/kg		03/10/95	KMS
Heptachlor	<0.2	mg/kg		03/10/95	KMS
Heptachlor epoxide	<0.2	mg/kg		03/10/95	KMS
Methoxychlor	<2	mg/kg		03/10/95	KMS
Toxaphene	<6	mg/kg		03/10/95	KMS
Extraction, EPA 3550A, Pest.				02/21/95	HB
Extraction, EPA 3550A, PCB's				02/21/95	HB
Ignitability, EPA 1010	>60	Degrees C		02/21/95	GEI
pH, EPA 9045	7.2	Std Units		02/17/95	PEP
Reactivity, Cyanide, SW846, 7.3	<50	mg/kg		02/24/95	PEP
Reactivity, Sulfide, SW846, 7.3	<50	mg/kg		02/24/95	PEP
Distillation, Reactivity				02/21/95	SAF

a- Elevated detection limit due to matrix interference

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204127
Customer ID: Drum - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
TCLP Non-Vol. Ext., EPA 1311				02/21/95	SAP
Metals Digestion, TCLP	batch	1260		02/22/95	JEB
Arsenic, TCLP, EPA 206.2	<0.1	mg/l		02/27/95	CRW
Barium, TCLP, EPA 208.1	3.8	mg/l		02/22/95	KBB
Cadmium, TCLP, EPA 213.1	<0.1	mg/l		02/22/95	JNT
Chromium, TCLP, EPA 218.1	<0.2	mg/l		02/22/95	JNT
Lead, TCLP, EPA 239.1	<1	mg/l		02/22/95	JNT
Mercury, TCLP, EPA 245.1	<0.002	mg/l		02/24/95	KBB
Selenium, TCLP, EPA 270.2	<0.1	mg/l		02/24/95	CRW
Silver, TCLP, EPA 272.1	<0.1	mg/l		02/22/95	KBB

Sample # 50204123
Customer ID: TP-2A - 02/14/93
Matrix: SHW

Project #: L2115 -413

Authorization: ISP-GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<10	ug/kg		02/17/95	CRT
Benzene	<5	ug/kg		02/17/95	CRT
Bromodichloromethane	<5	ug/kg		02/17/95	CRT
Bromoform	<5	ug/kg		02/17/95	CRT
Bromomethane	<10	ug/kg		02/17/95	CRT
2-Butanone	<10	ug/kg		02/17/95	CRT
Carbon disulfide	<5	ug/kg		02/17/95	CRT
Carbon tetrachloride	<5	ug/kg		02/17/95	CRT
Chlorobenzene	<5	ug/kg		02/17/95	CRT
Chloroethane	<10	ug/kg		02/17/95	CRT
Chloroform	<5	ug/kg		02/17/95	CRT
Chloromethane	<10	ug/kg		02/17/95	CRT
Dibromochloromethane	<5	ug/kg		02/17/95	CRT
1,1-Dichloroethane	<5	ug/kg		02/17/95	CRT
1,2-Dichloroethane	<5	ug/kg		02/17/95	CRT
1,1-Dichloroethene	<5	ug/kg		02/17/95	CRT
1,2-Dichloroethene, Total	<5	ug/kg		02/17/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204123
Customer ID: TP-2A - 02/14/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
1,2-Dichloropropane	<5	ug/kg		02/17/95	CRT
cis-1,3-Dichloropropene	<5	ug/kg		02/17/95	CRT
trans-1,3-Dichloropropene	<5	ug/kg		02/17/95	CRT
Ethylbenzene	<5	ug/kg		02/17/95	CRT
2-Hexanone	<10	ug/kg		02/17/95	CRT
Methylene chloride	<10	ug/kg		02/17/95	CRT
4-Methyl-2-pentanone	<10	ug/kg		02/17/95	CRT
Styrene	<5	ug/kg		02/17/95	CRT
1,1,2,2,-Tetrachloroethane	<5	ug/kg		02/17/95	CRT
Tetrachloroethene	<5	ug/kg		02/17/95	CRT
Toluene	<5	ug/kg		02/17/95	CRT
1,1,1-Trichloroethane	<5	ug/kg		02/17/95	CRT
1,1,2-Trichloroethane	<5	ug/kg		02/17/95	CRT
Trichloroethene	<5	ug/kg		02/17/95	CRT
Vinyl acetate	<10	ug/kg		02/17/95	CRT
Vinyl chloride	<10	ug/kg		02/17/95	CRT
o-Xylene	<5	ug/kg		02/17/95	CRT
m-Xylene	<5	ug/kg		02/17/95	CRT
p-Xylene	<5	ug/kg		02/17/95	CRT

EPA 8270 Semi-Volatiles

Phenol	<2	mg/kg		02/25/95	CRT
bis(2-Chloroethyl) ether	<2	mg/kg		02/25/95	CRT
2-Chlorophenol	<2	mg/kg		02/25/95	CRT
1,3-Dichlorobenzene	<2	mg/kg		02/25/95	CRT
1,4-Dichlorobenzene	<2	mg/kg		02/25/95	CRT
Benzyl alcohol	<2	mg/kg		02/25/95	CRT
1,2-Dichlorobenzene	<2	mg/kg		02/25/95	CRT
2-Methylphenol	<2	mg/kg		02/25/95	CRT
bis(2-Chloroisopropyl) ether	<2	mg/kg		02/25/95	CRT
4-Methylphenol	<2	mg/kg		02/25/95	CRT
N-Nitroso-di-n-propylamine	<2	mg/kg		02/25/95	CRT
Hexachloroethane	<2	mg/kg		02/25/95	CRT
Nitrobenzene	<2	mg/kg		02/25/95	CRT
Isophorone	<2	mg/kg		02/25/95	CRT
2-Nitrophenol	<2	mg/kg		02/25/95	CRT
2,4-Dimethylphenol	<2	mg/kg		02/25/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204123
Customer ID: TP-2A - 02/14/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Benzoic acid	<10	mg/kg		02/25/95	CRT
bis(2-Chloroethoxy)methane	<2	mg/kg		02/25/95	CRT
2,4-Dichlorophenol	<2	mg/kg		02/25/95	CRT
1,2,4-Trichlorobenzene	<2	mg/kg		02/25/95	CRT
Naphthalene	<2	mg/kg		02/25/95	CRT
4-Chloroaniline	<2	mg/kg		02/25/95	CRT
Hexachlorobutadiene	<2	mg/kg		02/25/95	CRT
4-Chloro-3-methylphenol	<2	mg/kg		02/25/95	CRT
2-Methylnaphthalene	<2	mg/kg		02/25/95	CRT
Hexachlorocyclopentadiene	<2	mg/kg		02/25/95	CRT
2,4,6-Trichlorophenol	<2	mg/kg		02/25/95	CRT
2,4,5-Trichlorophenol	<2	mg/kg		02/25/95	CRT
2-Chloronaphthalene	<2	mg/kg		02/25/95	CRT
2-Nitroaniline	<4	mg/kg		02/25/95	CRT
Dimethylphthalate	<2	mg/kg		02/25/95	CRT
Acenaphthylene	<2	mg/kg		02/25/95	CRT
2,6-Dinitrotoluene	<2	mg/kg		02/25/95	CRT
3-Nitroaniline	<4	mg/kg		02/25/95	CRT
Acenaphthene	3.2	mg/kg		02/25/95	CRT
2,4-Dinitrophenol	<2	mg/kg		02/25/95	CRT
4-Nitrophenol	<2	mg/kg		02/25/95	CRT
Dibenzofuran	<2	mg/kg		02/25/95	CRT
2,4-Dinitrotoluene	<2	mg/kg		02/25/95	CRT
Diethylphthalate	<2	mg/kg		02/25/95	CRT
4-Chlorophenyl phenyl ether	<2	mg/kg		02/25/95	CRT
Fluorene	3.1	mg/kg		02/25/95	CRT
4-Nitroaniline	<4	mg/kg		02/25/95	CRT
4,6-Dinitro-2-methylphenol	<4	mg/kg		02/25/95	CRT
N-nitrosodiphenylamine	<2	mg/kg		02/25/95	CRT
4-Bromophenyl phenyl ether	<2	mg/kg		02/25/95	CRT
Hexachlorobenzene	<2	mg/kg		02/25/95	CRT
Pentachlorophenol	<4	mg/kg		02/25/95	CRT
Phenanthrene	23	mg/kg		02/25/95	CRT
Anthracene	6.2	mg/kg		02/25/95	CRT
Di-n-butylphthalate	<2	mg/kg		02/25/95	CRT
Fluoranthene	28	mg/kg		02/25/95	CRT
Pyrene	23	mg/kg		02/25/95	CRT
Butyl benzyl phthalate	<2	mg/kg		02/25/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204123

Project #: L2115 -413

Customer ID: TP-2A - 02/14/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initial
3,3'-Dichlorobenzidine	<4	mg/kg		02/25/95	CRT
Benzo(a)anthracene	12	mg/kg		02/25/95	CRT
Chrysene	12	mg/kg		02/25/95	CRT
bis(2-ethylhexyl)phthalate	<2	mg/kg		02/25/95	CRT
Di-n-octylphthalate	<2	mg/kg		02/25/95	CRT
Benzo(b)fluoranthene	12	mg/kg		02/25/95	CRT
Benzo(k)fluoranthene	5.8	mg/kg		02/25/95	CRT
Benzo(a)pyrene	10	mg/kg		02/25/95	CRT
Indeno(1,2,3-cd)pyrene	6.3	mg/kg		02/25/95	CRT
Dibenz(a,h)anthracene	<2	mg/kg		02/25/95	CRT
Benzo(g,h,i)perylene	5.6	mg/kg		02/25/95	CRT

Extraction, EPA 3550A, BNA				02/21/95	HB
Metals Digestion, EPA SW846, c3	batch	1256		02/17/95	JEB
Aluminum, EPA 7020	4100	mg/kg		03/08/95	KBB
Antimony, EPA 7041	13	mg/kg		03/09/95	CRW
Arsenic, EPA 7060	1.8	mg/kg		03/06/95	CRW
Barium, EPA 7080	130	mg/kg		02/22/95	KBB
Beryllium, EPA 7090	<1	mg/kg		03/01/95	KBB
Cadmium, EPA 7030	1.5	mg/kg		02/22/95	JNT
Calcium, EPA 7140	28000	mg/kg		02/20/95	KBB
Chromium, EPA 7190	13	mg/kg		02/22/95	JNT
Cobalt, EPA 7200	3.8	mg/kg		02/23/95	KBB
Copper, EPA 7210	35	mg/kg		02/24/95	JNT
Iron, EPA 7380	12000	mg/kg		02/24/95	KBB
Magnesium, EPA 7450	4200	mg/kg		02/21/95	KBB
Manganese, EPA 7460	210	mg/kg		03/01/95	JNT
Mercury, EPA 7471	0.11	mg/kg		02/24/95	KBB
Nickel, EPA 7520	18	mg/kg		02/21/95	KBB
Potassium, EPA 7610	570	mg/kg		02/28/95	KBB
Selenium, EPA 7740	1.4	mg/kg		02/21/95	CRW
Silver, EPA 7760	65	mg/kg		02/22/95	KBB
Sodium, EPA 7770	170	mg/kg		02/28/95	KBB
Zinc, EPA 7950	140	mg/kg		03/01/95	JNT
Vanadium, EPA 7910	<20	mg/kg		03/08/95	KBB
Thallium, EPA 7840	<10	mg/kg		03/10/95	KBB
Lead, EPA 7420	55	mg/kg		02/22/95	JNT
Cyanide, Total, EPA 335.2	1.0	mg/kg		02/21/95	AUT

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204123
Customer ID: TP-2A - 02/14/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Distillation, Total Cyanide				02/20/95	GEI
EPA 8080 PCB's					
Aroclor 1016	<2	mg/kg	a	03/10/95	KMS
Aroclor 1221	<2	mg/kg		03/10/95	KMS
Aroclor 1232	<2	mg/kg		03/10/95	KMS
Aroclor 1242	<2	mg/kg		03/10/95	KMS
Aroclor 1248	<2	mg/kg		03/10/95	KMS
Aroclor 1254	<2	mg/kg		03/10/95	KMS
Aroclor 1260	<2	mg/kg		03/10/95	KMS
EPA 8080 Pesticides					
Aldrin	<0.1	mg/kg	a	03/10/95	KMS
alpha-BHC	<0.1	mg/kg		03/10/95	KMS
beta-BHC	<0.1	mg/kg		03/10/95	KMS
delta-BHC	<0.1	mg/kg		03/10/95	KMS
gamma-BHC (Lindane)	<0.1	mg/kg		03/10/95	KMS
alpha-Chlordane	<0.1	mg/kg		03/10/95	KMS
gamma-Chlordane	<0.1	mg/kg		03/10/95	KMS
4,4'-DDD	<0.3	mg/kg		03/10/95	KMS
4,4'-DDE	<0.2	mg/kg		03/10/95	KMS
4,4'-DDT	<0.3	mg/kg		03/10/95	KMS
Dieldrin	<0.2	mg/kg		03/10/95	KMS
Endosulfan I	<0.1	mg/kg		03/10/95	KMS
Endosulfan II	<0.3	mg/kg		03/10/95	KMS
Endosulfan sulfate	<0.3	mg/kg		03/10/95	KMS
Endrin	<0.2	mg/kg		03/10/95	KMS
Endrin aldehyde	<0.3	mg/kg		03/10/95	KMS
Endrin ketone	<0.3	mg/kg		03/10/95	KMS
Heptachlor	<0.1	mg/kg		03/10/95	KMS
Heptachlor epoxide	<0.1	mg/kg		03/10/95	KMS
Methoxychlor	<1	mg/kg		03/10/95	KMS
Toxaphene	<3	mg/kg		03/10/95	KMS
Extraction, EPA 3550A, Pest.				02/21/95	HB
Extraction, EPA 3550A, PCB's				02/21/95	HB
Ignitability, EPA 1010	>60	Degrees C		02/21/95	GEI

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204123
Customer ID: TP-2A - 02/14/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
pH, EPA 9045	7.7	Std Units		02/17/95	PEP
Reactivity, Cyanide, SW846, 7.3	<50	mg/kg		02/24/95	PEP
Reactivity, Sulfide, SW846, 7.3	<50	mg/kg		02/24/95	PEP
Distillation, Reactivity				02/21/95	SAF

a- Elevated detection limit due to matrix interference

Sample # 50204124
Customer ID: TP-3A - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: ISP-GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	1900	ug/kg		02/17/95	CRT
Benzene	12	ug/kg		02/17/95	CRT
Bromodichloromethane	<5	ug/kg		02/17/95	CRT
Bromoform	<5	ug/kg		02/17/95	CRT
Bromomethane	<10	ug/kg		02/17/95	CRT
2-Butanone	320	ug/kg		02/17/95	CRT
Carbon disulfide	<5	ug/kg		02/17/95	CRT
Carbon tetrachloride	<5	ug/kg		02/17/95	CRT
Chlorobenzene	<5	ug/kg		02/17/95	CRT
Chloroethane	<10	ug/kg		02/17/95	CRT
Chloroform	<5	ug/kg		02/17/95	CRT
Chloromethane	<10	ug/kg		02/17/95	CRT
Dibromochloromethane	<5	ug/kg		02/17/95	CRT
1,1-Dichloroethane	<5	ug/kg		02/17/95	CRT
1,2-Dichloroethane	<5	ug/kg		02/17/95	CRT
1,1-Dichloroethene	<5	ug/kg		02/17/95	CRT
1,2-Dichloroethene, Total	<5	ug/kg		02/17/95	CRT
1,2-Dichloropropane	<5	ug/kg		02/17/95	CRT
cis-1,3-Dichloropropene	<5	ug/kg		02/17/95	CRT
trans-1,3-Dichloropropene	<5	ug/kg		02/17/95	CRT
Ethylbenzene	<5	ug/kg		02/17/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204124
Customer ID: TP-3A - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
2-Hexanone	<10	ug/kg		02/17/95	CRT
Methylene chloride	11	ug/kg	a	02/17/95	CRT
4-Methyl-2-pentanone	<10	ug/kg		02/17/95	CRT
Styrene	<5	ug/kg		02/17/95	CRT
1,1,2,2,-Tetrachloroethane	<5	ug/kg		02/17/95	CRT
Tetrachloroethane	<5	ug/kg		02/17/95	CRT
Toluene	<5	ug/kg		02/17/95	CRT
1,1,1-Trichloroethane	<5	ug/kg		02/17/95	CRT
1,1,2-Trichloroethane	<5	ug/kg		02/17/95	CRT
Trichloroethane	<5	ug/kg		02/17/95	CRT
Vinyl acetate	<10	ug/kg		02/17/95	CRT
Vinyl chloride	<10	ug/kg		02/17/95	CRT
o-Xylene	<5	ug/kg		02/17/95	CRT
m-Xylene	<5	ug/kg		02/17/95	CRT
p-Xylene	<5	ug/kg		02/17/95	CRT
EPA 8270 Semi-Volatiles					
Phenol	<2	mg/kg	b	02/25/95	CRT
bis(2-Chloroethyl) ether	<2	mg/kg		02/25/95	CRT
2-Chlorophenol	<2	mg/kg		02/25/95	CRT
1,3-Dichlorobenzene	<2	mg/kg		02/25/95	CRT
1,4-Dichlorobenzene	<2	mg/kg		02/25/95	CRT
Benzyl alcohol	<2	mg/kg		02/25/95	CRT
1,2-Dichlorobenzene	<2	mg/kg		02/25/95	CRT
2-Methylphenol	<2	mg/kg		02/25/95	CRT
bis(2-Chloroisopropyl) ether	<2	mg/kg		02/25/95	CRT
4-Methylphenol	<2	mg/kg		02/25/95	CRT
N-Nitroso-di-n-propylamine	<2	mg/kg		02/25/95	CRT
Hexachloroethane	<2	mg/kg		02/25/95	CRT
Nitrobenzene	<2	mg/kg		02/25/95	CRT
Isophorone	<2	mg/kg		02/25/95	CRT
2-Nitrophenol	<2	mg/kg		02/25/95	CRT
2,4-Dimethylphenol	<2	mg/kg		02/25/95	CRT
Benzoic acid	<10	mg/kg		02/25/95	CRT
bis(2-Chloroethoxy) methane	<2	mg/kg		02/25/95	CRT
2,4-Dichlorophenol	<2	mg/kg		02/25/95	CRT
1,2,4-Trichlorobenzene	<2	mg/kg		02/25/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204124

Project #: L2115 -413

Customer ID: TP-3A - 02/15/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Naphthalene	<2	mg/kg		02/25/95	CRT
4-Chloroaniline	<2	mg/kg		02/25/95	CRT
Hexachlorobutadiene	<2	mg/kg		02/25/95	CRT
4-Chloro-3-methylphenol	<2	mg/kg		02/25/95	CRT
2-Methylnaphthalene	<2	mg/kg		02/25/95	CRT
Hexachlorocyclopentadiene	<2	mg/kg		02/25/95	CRT
2,4,6-Trichlorophenol	<2	mg/kg		02/25/95	CRT
2,4,5-Trichlorophenol	<2	mg/kg		02/25/95	CRT
2-Chloronaphthalene	<2	mg/kg		02/25/95	CRT
2-Nitroaniline	<4	mg/kg		02/25/95	CRT
Dimethylphthalate	<2	mg/kg		02/25/95	CRT
Acenaphthylene	<2	mg/kg		02/25/95	CRT
2,6-Dinitrotoluene	<2	mg/kg		02/25/95	CRT
3-Nitroaniline	<4	mg/kg		02/25/95	CRT
Acenaphthene	<2	mg/kg		02/25/95	CRT
2,4-Dinitrophenol	<2	mg/kg		02/25/95	CRT
4-Nitrophenol	<2	mg/kg		02/25/95	CRT
Dibenzofuran	<2	mg/kg		02/25/95	CRT
2,4-Dinitrotoluene	<2	mg/kg		02/25/95	CRT
Diethylphthalate	<2	mg/kg		02/25/95	CRT
4-Chlorophenyl phenyl ether	<2	mg/kg		02/25/95	CRT
Fluorene	<2	mg/kg		02/25/95	CRT
4-Nitroaniline	<4	mg/kg		02/25/95	CRT
4,6-Dinitro-2-methylphenol	<4	mg/kg		02/25/95	CRT
N-nitrosodiphenylamine	<2	mg/kg		02/25/95	CRT
4-Bromophenyl phenyl ether	<2	mg/kg		02/25/95	CRT
Hexachlorobenzene	<2	mg/kg		02/25/95	CRT
Pentachlorophenol	<4	mg/kg		02/25/95	CRT
Phenanthrene	<2	mg/kg		02/25/95	CRT
Anthracene	<2	mg/kg		02/25/95	CRT
Di-n-butylphthalate	<2	mg/kg		02/25/95	CRT
Fluoranthene	<2	mg/kg		02/25/95	CRT
Pyrene	<2	mg/kg		02/25/95	CRT
Butyl benzyl phthalate	<2	mg/kg		02/25/95	CRT
3,3'-Dichlorobenzidine	<4	mg/kg		02/25/95	CRT
Benzo(a)anthracene	<2	mg/kg		02/25/95	CRT
Chrysene	<2	mg/kg		02/25/95	CRT
bis(2-ethylhexyl)phthalate	<2	mg/kg		02/25/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

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Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204124
Customer ID: TP-3A - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Di-n-octylphthalate	<2	mg/kg		02/25/95	CRT
Benzo(b)fluoranthene	<2	mg/kg		02/25/95	CRT
Benzo(k)fluoranthene	<2	mg/kg		02/25/95	CRT
Benzo(a)pyrene	<2	mg/kg		02/25/95	CRT
Indeno(1,2,3-cd)pyrene	<2	mg/kg		02/25/95	CRT
Dibenz(a,h)anthracene	<2	mg/kg		02/25/95	CRT
Benzo(g,h,i)perylene	<2	mg/kg		02/25/95	CRT
Extraction, EPA 3550A, BNA				02/21/95	HB
Metals Digestion, EPA SW846, c3	batch	1256		02/17/95	JEB
Aluminum, EPA 7020	6300	mg/kg		03/08/95	KBB
Antimony, EPA 7041	3.9	mg/kg		03/09/95	CRW
Arsenic, EPA 7060	1.8	mg/kg		03/06/95	CRW
Barium, EPA 7080	80	mg/kg		02/22/95	KBB
Beryllium, EPA 7090	<1	mg/kg		03/01/95	KBB
Cadmium, EPA 7030	<1	mg/kg		02/22/95	JNT
Calcium, EPA 7140	4900	mg/kg		02/20/95	KBB
Chromium, EPA 7190	6.1	mg/kg		02/22/95	JNT
Cobalt, EPA 7200	4.1	mg/kg		02/23/95	KBB
Copper, EPA 7210	19	mg/kg		02/24/95	JNT
Iron, EPA 7380	17000	mg/kg		02/24/95	KBB
Magnesium, EPA 7450	1500	mg/kg		02/21/95	KBB
Manganese, EPA 7460	230	mg/kg		03/01/95	JNT
Mercury, EPA 7471	<0.1	mg/kg		02/24/95	KBB
Nickel, EPA 7520	10	mg/kg		02/21/95	KBB
Potassium, EPA 7610	530	mg/kg		02/28/95	KBB
Selenium, EPA 7740	2.5	mg/kg		02/21/95	CRW
Silver, EPA 7760	7.4	mg/kg		02/22/95	KBB
Sodium, EPA 7770	400	mg/kg		02/28/95	KBB
Zinc, EPA 7950	45	mg/kg		03/01/95	JNT
Vanadium, EPA 7910	<20	mg/kg		03/08/95	KBB
Thallium, EPA 7840	<10	mg/kg		03/10/95	KBB
Lead, EPA 7420	17	mg/kg		02/22/95	JNT
Cyanide, Total, EPA 335.2	<0.5	mg/kg		02/21/95	AUT
Distillation, Total Cyanide				02/20/95	GEI
EPA 8080 PCB's					
Aroclor 1016	<0.2	mg/kg	b	03/10/95	KMS

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204124

Project #: L2115 -413

Customer ID: TP-3A - 02/15/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Aroclor 1221	<0.2	mg/kg		03/10/95	KMS
Aroclor 1232	<0.2	mg/kg		03/10/95	KMS
Aroclor 1242	<0.2	mg/kg		03/10/95	KMS
Aroclor 1248	<0.2	mg/kg		03/10/95	KMS
Aroclor 1254	<0.2	mg/kg		03/10/95	KMS
Aroclor 1260	<0.2	mg/kg		03/10/95	KMS

EPA 8080 Pesticides

Aldrin	<0.01	mg/kg	b	03/10/95	KMS
alpha-BHC	<0.01	mg/kg		03/10/95	KMS
beta-BHC	<0.01	mg/kg		03/10/95	KMS
delta-BHC	<0.01	mg/kg		03/10/95	KMS
gamma-BHC (Lindane)	<0.01	mg/kg		03/10/95	KMS
alpha-Chlordane	<0.01	mg/kg		03/10/95	KMS
gamma-Chlordane	<0.01	mg/kg		03/10/95	KMS
4,4'-DDD	<0.03	mg/kg		03/10/95	KMS
4,4'-DDE	<0.02	mg/kg		03/10/95	KMS
4,4'-DDT	<0.03	mg/kg		03/10/95	KMS
Dieldrin	<0.02	mg/kg		03/10/95	KMS
Endosulfan I	<0.01	mg/kg		03/10/95	KMS
Endosulfan II	<0.03	mg/kg		03/10/95	KMS
Endosulfan sulfate	<0.03	mg/kg		03/10/95	KMS
Endrin	<0.02	mg/kg		03/10/95	KMS
Endrin aldehyde	<0.03	mg/kg		03/10/95	KMS
Endrin ketone	<0.03	mg/kg		03/10/95	KMS
Heptachlor	<0.01	mg/kg		03/10/95	KMS
Heptachlor epoxide	<0.01	mg/kg		03/10/95	KMS
Methoxychlor	<0.1	mg/kg		03/10/95	KMS
Toxaphene	<0.3	mg/kg		03/10/95	KMS

Extraction, EPA 3550A, Pest.

Extraction, EPA 3550A, PCB's

Ignitability, EPA 1010

pH, EPA 9045

Reactivity, Cyanide, SW846, 7.3

Reactivity, Sulfide, SW846, 7.3

Distillation, Reactivity

Degrees C

Std Units

mg/kg

mg/kg

02/21/95

02/21/95

02/21/95

02/17/95

02/24/95

02/24/95

02/22/95

HB

HB

GEI

PEP

PEP

PEP

SAF

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** SAMPLE ANALYSIS REPORT **

03/13/95

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7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204124
Customer ID: TP-3A - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials

a- Suspect lab contamination.

b- Elevated detection limit due to matrix interference

Sample # 50204125
Customer ID: TP-4A - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: ISP-GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials

EPA 8240 Volatiles

Acetone	2000	ug/kg		02/17/95	CRT
Benzene	130	ug/kg		02/17/95	CRT
Bromodichloromethane	<5	ug/kg		02/17/95	CRT
Bromoform	<5	ug/kg		02/17/95	CRT
Bromomethane	<10	ug/kg		02/17/95	CRT
2-Butanone	560	ug/kg		02/17/95	CRT
Carbon disulfide	<5	ug/kg		02/17/95	CRT
Carbon tetrachloride	<5	ug/kg		02/17/95	CRT
Chlorobenzene	<5	ug/kg		02/17/95	CRT
Chloroethane	<10	ug/kg		02/17/95	CRT
Chloroform	<5	ug/kg		02/17/95	CRT
Chloromethane	<10	ug/kg		02/17/95	CRT
Dibromochloromethane	<5	ug/kg		02/17/95	CRT
1,1-Dichloroethane	<5	ug/kg		02/17/95	CRT
1,2-Dichloroethane	<5	ug/kg		02/17/95	CRT
1,1-Dichloroethene	<5	ug/kg		02/17/95	CRT
1,2-Dichloroethene, Total	<5	ug/kg		02/17/95	CRT
1,2-Dichloropropane	<5	ug/kg		02/17/95	CRT
cis-1,3-Dichloropropene	<5	ug/kg		02/17/95	CRT
trans-1,3-Dichloropropene	<5	ug/kg		02/17/95	CRT
Ethylbenzene	<5	ug/kg		02/17/95	CRT
2-Hexanone	<10	ug/kg		02/17/95	CRT
Methylene chloride	16	ug/kg	a	02/17/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

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7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204125
Customer ID: TP-4A - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
4-Methyl-2-pentanone	<10	ug/kg		02/17/95	CRT
Styrene	<5	ug/kg		02/17/95	CRT
1,1,2,2,-Tetrachloroethane	<5	ug/kg		02/17/95	CRT
Tetrachloroethene	<5	ug/kg		02/17/95	CRT
Toluene	11	ug/kg		02/17/95	CRT
1,1,1-Trichloroethane	<5	ug/kg		02/17/95	CRT
1,1,2-Trichloroethane	<5	ug/kg		02/17/95	CRT
Trichloroethene	<5	ug/kg		02/17/95	CRT
Vinyl acetate	<10	ug/kg		02/17/95	CRT
Vinyl chloride	<10	ug/kg		02/17/95	CRT
o-Xylene	<5	ug/kg		02/17/95	CRT
m-Xylene	16*	ug/kg	b	02/17/95	CRT
p-Xylene	*	ug/kg		02/17/95	CRT

EPA 8270 Semi-Volatiles

Phenol	<2	mg/kg	c	02/25/95	CRT
bis(2-Chloroethyl) ether	<2	mg/kg		02/25/95	CRT
2-Chlorophenol	<2	mg/kg		02/25/95	CRT
1,3-Dichlorobenzene	<2	mg/kg		02/25/95	CRT
1,4-Dichlorobenzene	<2	mg/kg		02/25/95	CRT
Benzyl alcohol	<2	mg/kg		02/25/95	CRT
1,2-Dichlorobenzene	<2	mg/kg		02/25/95	CRT
2-Methylphenol	<2	mg/kg		02/25/95	CRT
bis(2-Chloroisopropyl) ether	<2	mg/kg		02/25/95	CRT
4-Methylphenol	<2	mg/kg		02/25/95	CRT
N-Nitroso-di-n-propylamine	<2	mg/kg		02/25/95	CRT
Hexachloroethane	<2	mg/kg		02/25/95	CRT
Nitrobenzene	<2	mg/kg		02/25/95	CRT
Isophorone	<2	mg/kg		02/25/95	CRT
2-Nitrophenol	<2	mg/kg		02/25/95	CRT
2,4-Dimethylphenol	<2	mg/kg		02/25/95	CRT
Benzoic acid	<10	mg/kg		02/25/95	CRT
bis(2-Chloroethoxy) methane	<2	mg/kg		02/25/95	CRT
2,4-Dichlorophenol	<2	mg/kg		02/25/95	CRT
1,2,4-Trichlorobenzene	<2	mg/kg		02/25/95	CRT
Naphthalene	<2	mg/kg		02/25/95	CRT
4-Chloroaniline	<2	mg/kg		02/25/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

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Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204125
Customer ID: TP-4A - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Hexachlorobutadiene	<2	mg/kg		02/25/95	CRT
4-Chloro-3-methylphenol	<2	mg/kg		02/25/95	CRT
2-Methylnaphthalene	<2	mg/kg		02/25/95	CRT
Hexachlorocyclopentadiene	<2	mg/kg		02/25/95	CRT
2,4,6-Trichlorophenol	<2	mg/kg		02/25/95	CRT
2,4,5-Trichlorophenol	<2	mg/kg		02/25/95	CRT
2-Chloronaphthalene	<2	mg/kg		02/25/95	CRT
2-Nitroaniline	<4	mg/kg		02/25/95	CRT
Dimethylphthalate	<2	mg/kg		02/25/95	CRT
Acenaphthylene	<2	mg/kg		02/25/95	CRT
2,6-Dinitrotoluene	<2	mg/kg		02/25/95	CRT
3-Nitroaniline	<4	mg/kg		02/25/95	CRT
Acenaphthene	<2	mg/kg		02/25/95	CRT
2,4-Dinitrophenol	<2	mg/kg		02/25/95	CRT
4-Nitrophenol	<2	mg/kg		02/25/95	CRT
Dibenzofuran	<2	mg/kg		02/25/95	CRT
2,4-Dinitrotoluene	<2	mg/kg		02/25/95	CRT
Diethylphthalate	<2	mg/kg		02/25/95	CRT
4-Chlorophenyl phenyl ether	<2	mg/kg		02/25/95	CRT
Fluorene	<2	mg/kg		02/25/95	CRT
4-Nitroaniline	<4	mg/kg		02/25/95	CRT
4,6-Dinitro-2-methylphenol	<4	mg/kg		02/25/95	CRT
N-nitrosodiphenylamine	<2	mg/kg		02/25/95	CRT
4-Bromophenyl phenyl ether	<2	mg/kg		02/25/95	CRT
Hexachlorobenzene	<2	mg/kg		02/25/95	CRT
Pentachlorophenol	<4	mg/kg		02/25/95	CRT
Phenanthrene	<2	mg/kg		02/25/95	CRT
Anthracene	<2	mg/kg		02/25/95	CRT
Di-n-butylphthalate	<2	mg/kg		02/25/95	CRT
Fluoranthene	<2	mg/kg		02/25/95	CRT
Pyrene	<2	mg/kg		02/25/95	CRT
Butyl benzyl phthalate	<2	mg/kg		02/25/95	CRT
3,3'-Dichlorobenzidine	<4	mg/kg		02/25/95	CRT
Benzo(a)anthracene	<2	mg/kg		02/25/95	CRT
Chrysene	<2	mg/kg		02/25/95	CRT
bis(2-ethylhexyl)phthalate	<2	mg/kg		02/25/95	CRT
Di-n-octylphthalate	<2	mg/kg		02/25/95	CRT
Benzo(b)fluoranthene	<2	mg/kg		02/25/95	CRT

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03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204125

Project #: L2115 -413

Customer ID: TP-4A - 02/15/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Benzo(k)fluoranthene	<2	mg/kg		02/25/95	CRT
Benzo(a)pyrene	<2	mg/kg		02/25/95	CRT
Indeno(1,2,3-cd)pyrene	<2	mg/kg		02/25/95	CRT
Dibenz(a,h)anthracene	<2	mg/kg		02/25/95	CRT
Benzo(g,h,i)perylene	<2	mg/kg		02/25/95	CRT
Extraction, EPA 3550A, BNA				02/21/95	HB
Metals Digestion, EPA SW846, c3 batch		1256		02/17/95	JEB
Aluminum, EPA 7020	8900	mg/kg		03/08/95	KBB
Antimony, EPA 7041	1.9	mg/kg		03/09/95	CRW
Arsenic, EPA 7060	6.7	mg/kg		03/06/95	CRW
Barium, EPA 7080	170	mg/kg		02/22/95	KBB
Beryllium, EPA 7090	<1	mg/kg		03/01/95	KBB
Cadmium, EPA 7030	<1	mg/kg		02/22/95	JNT
Calcium, EPA 7140	6900	mg/kg		02/20/95	KBB
Chromium, EPA 7190	12	mg/kg		02/22/95	JNT
Cobalt, EPA 7200	6.5	mg/kg		02/23/95	KBB
Copper, EPA 7210	310	mg/kg		02/24/95	JNT
Iron, EPA 7380	14000	mg/kg		02/24/95	KBB
Magnesium, EPA 7450	2300	mg/kg		02/21/95	KBB
Manganese, EPA 7460	170	mg/kg		03/01/95	JNT
Mercury, EPA 7471	<0.1	mg/kg		02/24/95	KBB
Nickel, EPA 7520	32	mg/kg		02/21/95	KBB
Potassium, EPA 7610	830	mg/kg		02/28/95	KBB
Selenium, EPA 7740	9.0	mg/kg		02/21/95	CRW
Silver, EPA 7760	58	mg/kg		02/22/95	KBB
Sodium, EPA 7770	200	mg/kg		02/28/95	KBB
Zinc, EPA 7950	1100	mg/kg		03/01/95	JNT
Vanadium, EPA 7910	<20	mg/kg		03/08/95	KBB
Thallium, EPA 7840	<10	mg/kg		03/10/95	KBB
Lead, EPA 7420	120	mg/kg		02/22/95	JNT
Cyanide, Total, EPA 335.2	<0.5	mg/kg		02/21/95	AUT
Distillation, Total Cyanide				02/20/95	GEI
EPA 8080 PCB's					
Aroclor 1016	<0.4	mg/kg	c	03/10/95	KMS
Aroclor 1221	<0.4	mg/kg		03/10/95	KMS
Aroclor 1232	<0.4	mg/kg		03/10/95	KMS

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204125

Project #: L2115 -413

Customer ID: TP-4A - 02/15/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Aroclor 1242	<0.4	mg/kg		03/10/95	KMS
Aroclor 1248	<0.4	mg/kg		03/10/95	KMS
Aroclor 1254	<0.4	mg/kg		03/10/95	KMS
Aroclor 1260	<0.4	mg/kg		03/10/95	KMS
EPA 8080 Pesticides					
Aldrin	<0.02	mg/kg	c	03/10/95	KMS
alpha-BHC	<0.02	mg/kg		03/10/95	KMS
beta-BHC	<0.02	mg/kg		03/10/95	KMS
delta-BHC	<0.02	mg/kg		03/10/95	KMS
gamma-BHC (Lindane)	<0.02	mg/kg		03/10/95	KMS
alpha-Chlordane	<0.02	mg/kg		03/10/95	KMS
gamma-Chlordane	<0.02	mg/kg		03/10/95	KMS
4,4'-DDD	<0.06	mg/kg		03/10/95	KMS
4,4'-DDE	<0.04	mg/kg		03/10/95	KMS
4,4'-DDT	<0.06	mg/kg		03/10/95	KMS
Dieldrin	<0.04	mg/kg		03/10/95	KMS
Endosulfan I	<0.02	mg/kg		03/10/95	KMS
Endosulfan II	<0.06	mg/kg		03/10/95	KMS
Endosulfan sulfate	<0.06	mg/kg		03/10/95	KMS
Endrin	<0.04	mg/kg		03/10/95	KMS
Endrin aldehyde	<0.06	mg/kg		03/10/95	KMS
Endrin ketone	<0.06	mg/kg		03/10/95	KMS
Heptachlor	<0.02	mg/kg		03/10/95	KMS
Heptachlor epoxide	<0.02	mg/kg		03/10/95	KMS
Methoxychlor	<0.2	mg/kg		03/10/95	KMS
Toxaphene	<0.6	mg/kg		03/10/95	KMS
Extraction, EPA 3550A, Pest.				02/21/95	HB
Extraction, EPA 3550A, PCB's				02/21/95	HB
Ignitability, EPA 1010	>60	Degrees C		02/21/95	GEI
pH, EPA 9045	6.5	Std Units		02/17/95	PEP
Reactivity, Cyanide, SW846, 7.3	<50	mg/kg		02/24/95	PEP
Reactivity, Sulfide, SW846, 7.3	<50	mg/kg		02/24/95	PEP
Distillation, Reactivity				02/22/95	SAF

a- Suspect lab contamination.

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** SAMPLE ANALYSIS REPORT **

03/13/95

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7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204125
Customer ID: TP-4A - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials

b- Chromatographically, para and meta Xylene co-elute. The reported value may represent either of these compounds or a combination thereof.

c- Elevated detection limit due to matrix interference

Sample # 50204126
Customer ID: TP-5A - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: ISP-GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials

EPA 8240 Volatiles

Acetone	<50	ug/kg	b	02/17/95	CRT
Benzene	23	ug/kg		02/17/95	CRT
Bromodichloromethane	<5	ug/kg		02/17/95	CRT
Bromoform	<5	ug/kg		02/17/95	CRT
Bromomethane	<10	ug/kg		02/17/95	CRT
2-Butanone	<50	ug/kg	b	02/17/95	CRT
Carbon disulfide	<5	ug/kg		02/17/95	CRT
Carbon tetrachloride	<5	ug/kg		02/17/95	CRT
Chlorobenzene	<5	ug/kg		02/17/95	CRT
Chloroethane	<10	ug/kg		02/17/95	CRT
Chloroform	<5	ug/kg		02/17/95	CRT
Chloromethane	<10	ug/kg		02/17/95	CRT
Dibromochloromethane	<5	ug/kg		02/17/95	CRT
1,1-Dichloroethane	<5	ug/kg		02/17/95	CRT
1,2-Dichloroethane	<5	ug/kg		02/17/95	CRT
1,1-Dichloroethene	<5	ug/kg		02/17/95	CRT
1,2-Dichloroethene, Total	<5	ug/kg		02/17/95	CRT
1,2-Dichloropropane	<5	ug/kg		02/17/95	CRT
cis-1,3-Dichloropropene	<5	ug/kg		02/17/95	CRT
trans-1,3-Dichloropropene	<5	ug/kg		02/17/95	CRT
Ethylbenzene	<5	ug/kg		02/17/95	CRT
2-Hexanone	<10	ug/kg		02/17/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204126

Project #: L2115 -413

Customer ID: TP-5A - 02/15/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Methylene chloride	16	ug/kg	a	02/17/95	CRT
4-Methyl-2-pentanone	<10	ug/kg		02/17/95	CRT
Styrene	<5	ug/kg		02/17/95	CRT
1,1,2,2,-Tetrachloroethane	<5	ug/kg		02/17/95	CRT
Tetrachloroethene	<5	ug/kg		02/17/95	CRT
Toluene	<5	ug/kg		02/17/95	CRT
1,1,1-Trichloroethane	<5	ug/kg		02/17/95	CRT
1,1,2-Trichloroethane	<5	ug/kg		02/17/95	CRT
Trichloroethene	<5	ug/kg		02/17/95	CRT
Vinyl acetate	<10	ug/kg		02/17/95	CRT
Vinyl chloride	<10	ug/kg		02/17/95	CRT
o-Xylene	<5	ug/kg		02/17/95	CRT
m-Xylene	<5	ug/kg		02/17/95	CRT
p-Xylene	<5	ug/kg		02/17/95	CRT
EPA 8270 Semi-Volatiles					
Phenol	<2	mg/kg	b	02/25/95	CRT
bis(2-Chloroethyl) ether	<2	mg/kg		02/25/95	CRT
2-Chlorophenol	<2	mg/kg		02/25/95	CRT
1,3-Dichlorobenzene	<2	mg/kg		02/25/95	CRT
1,4-Dichlorobenzene	<2	mg/kg		02/25/95	CRT
Benzyl alcohol	<2	mg/kg		02/25/95	CRT
1,2-Dichlorobenzene	<2	mg/kg		02/25/95	CRT
2-Methylphenol	<2	mg/kg		02/25/95	CRT
bis(2-Chloroisopropyl) ether	<2	mg/kg		02/25/95	CRT
4-Methylphenol	<2	mg/kg		02/25/95	CRT
N-Nitroso-di-n-propylamine	<2	mg/kg		02/25/95	CRT
Hexachloroethane	<2	mg/kg		02/25/95	CRT
Nitrobenzene	<2	mg/kg		02/25/95	CRT
Isophorone	<2	mg/kg		02/25/95	CRT
2-Nitrophenol	<2	mg/kg		02/25/95	CRT
2,4-Dimethylphenol	<2	mg/kg		02/25/95	CRT
Benzoic acid	<10	mg/kg		02/25/95	CRT
bis(2-Chloroethoxy) methane	<2	mg/kg		02/25/95	CRT
2,4-Dichlorophenol	<2	mg/kg		02/25/95	CRT
1,2,4-Trichlorobenzene	<2	mg/kg		02/25/95	CRT
Naphthalene	<2	mg/kg		02/25/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204126

Project #: L2115 -413

Customer ID: TP-5A - 02/15/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
4-Chloroaniline	<2	mg/kg		02/25/95	CRT
Hexachlorobutadiene	<2	mg/kg		02/25/95	CRT
4-Chloro-3-methylphenol	<2	mg/kg		02/25/95	CRT
2-Methylnaphthalene	<2	mg/kg		02/25/95	CRT
Hexachlorocyclopentadiene	<2	mg/kg		02/25/95	CRT
2,4,6-Trichlorophenol	<2	mg/kg		02/25/95	CRT
2,4,5-Trichlorophenol	<2	mg/kg		02/25/95	CRT
2-Chloronaphthalene	<2	mg/kg		02/25/95	CRT
2-Nitroaniline	<4	mg/kg		02/25/95	CRT
Dimethylphthalate	<2	mg/kg		02/25/95	CRT
Acenaphthylene	<2	mg/kg		02/25/95	CRT
2,6-Dinitrotoluene	<2	mg/kg		02/25/95	CRT
3-Nitroaniline	<4	mg/kg		02/25/95	CRT
Acenaphthene	<2	mg/kg		02/25/95	CRT
2,4-Dinitrophenol	<2	mg/kg		02/25/95	CRT
4-Nitrophenol	<2	mg/kg		02/25/95	CRT
Dibenzofuran	<2	mg/kg		02/25/95	CRT
2,4-Dinitrotoluene	<2	mg/kg		02/25/95	CRT
Diethylphthalate	<2	mg/kg		02/25/95	CRT
4-Chlorophenyl phenyl ether	<2	mg/kg		02/25/95	CRT
Fluorene	<2	mg/kg		02/25/95	CRT
4-Nitroaniline	<4	mg/kg		02/25/95	CRT
4,6-Dinitro-2-methylphenol	<4	mg/kg		02/25/95	CRT
N-nitrosodiphenylamine	<2	mg/kg		02/25/95	CRT
4-Bromophenyl phenyl ether	<2	mg/kg		02/25/95	CRT
Hexachlorobenzene	<2	mg/kg		02/25/95	CRT
Pentachlorophenol	<4	mg/kg		02/25/95	CRT
Phenanthrene	<2	mg/kg		02/25/95	CRT
Anthracene	<2	mg/kg		02/25/95	CRT
Di-n-butylphthalate	<2	mg/kg		02/25/95	CRT
Fluoranthene	<2	mg/kg		02/25/95	CRT
Pyrene	<2	mg/kg		02/25/95	CRT
Butyl benzyl phthalate	<2	mg/kg		02/25/95	CRT
3,3'-Dichlorobenzidine	<4	mg/kg		02/25/95	CRT
Benzo(a)anthracene	<2	mg/kg		02/25/95	CRT
Chrysene	<2	mg/kg		02/25/95	CRT
bis(2-ethylhexyl)phthalate	2.7	mg/kg		02/25/95	CRT
Di-n-octylphthalate	<2	mg/kg		02/25/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204126

Project #: L2115 -413

Customer ID: TP-5A - 02/15/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Benzo(b)fluoranthene	<2	mg/kg		02/25/95	CRT
Benzo(k)fluoranthene	<2	mg/kg		02/25/95	CRT
Benzo(a)pyrene	<2	mg/kg		02/25/95	CRT
Indeno(1,2,3-cd)pyrene	<2	mg/kg		02/25/95	CRT
Dibenz(a,h)anthracene	<2	mg/kg		02/25/95	CRT
Benzo(g,h,i)perylene	<2	mg/kg		02/25/95	CRT
Extraction, EPA 3550A, BNA				02/21/95	HB
Metals Digestion, EPA SW846, c3	batch	1256		02/17/95	JEB
Aluminum, EPA 7020	7100	mg/kg		03/08/95	KBB
Antimony, EPA 7041	7.7	mg/kg		03/09/95	CRW
Arsenic, EPA 7060	2.6	mg/kg		03/06/95	CRW
Barium, EPA 7080	82	mg/kg		02/22/95	KBB
Beryllium, EPA 7090	<1	mg/kg		03/01/95	KBB
Cadmium, EPA 7030	<1	mg/kg		02/22/95	JNT
Calcium, EPA 7140	5400	mg/kg		02/20/95	KBB
Chromium, EPA 7190	8.3	mg/kg		02/22/95	JNT
Cobalt, EPA 7200	5.1	mg/kg		02/23/95	KBB
Copper, EPA 7210	20	mg/kg		02/24/95	JNT
Iron, EPA 7380	15000	mg/kg		02/24/95	KBB
Magnesium, EPA 7450	1700	mg/kg		02/21/95	KBB
Manganese, EPA 7460	230	mg/kg		03/01/95	JNT
Mercury, EPA 7471	<0.1	mg/kg		02/24/95	KBB
Nickel, EPA 7520	12	mg/kg		02/21/95	KBB
Potassium, EPA 7610	400	mg/kg		02/28/95	KBB
Selenium, EPA 7740	<1	mg/kg		02/21/95	CRW
Silver, EPA 7760	12	mg/kg		02/22/95	KBB
Sodium, EPA 7770	310	mg/kg		02/28/95	KBB
Zinc, EPA 7950	60	mg/kg		03/01/95	JNT
Vanadium, EPA 7910	<20	mg/kg		03/08/95	KBB
Thallium, EPA 7840	<10	mg/kg		03/10/95	KBB
Lead, EPA 7420	27	mg/kg		02/22/95	JNT
Cyanide, Total, EPA 335.2	0.42	mg/kg		02/28/95	AUT
Distillation, Total Cyanide				02/27/95	GEI
EPA 8080 PCB's					
Aroclor 1016	<0.2	mg/kg	b	03/10/95	KMS
Aroclor 1221	<0.2	mg/kg		03/10/95	KMS

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** SAMPLE ANALYSIS REPORT **

03/13/95

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7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204126

Project #: L2115 -413

Customer ID: TP-5A - 02/15/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Aroclor 1232	<0.2	mg/kg		03/10/95	KMS
Aroclor 1242	<0.2	mg/kg		03/10/95	KMS
Aroclor 1248	<0.2	mg/kg		03/10/95	KMS
Aroclor 1254	<0.2	mg/kg		03/10/95	KMS
Aroclor 1260	<0.2	mg/kg		03/10/95	KMS

EPA 8080 Pesticides

Aldrin	<0.01	mg/kg	b	03/10/95	KMS
alpha-BHC	<0.01	mg/kg		03/10/95	KMS
beta-BHC	<0.01	mg/kg		03/10/95	KMS
delta-BHC	<0.01	mg/kg		03/10/95	KMS
gamma-BHC (Lindane)	<0.01	mg/kg		03/10/95	KMS
alpha-Chlordane	<0.01	mg/kg		03/10/95	KMS
gamma-Chlordane	<0.01	mg/kg		03/10/95	KMS
4,4'-DDD	<0.03	mg/kg		03/10/95	KMS
4,4'-DDE	<0.02	mg/kg		03/10/95	KMS
4,4'-DDT	<0.03	mg/kg		03/10/95	KMS
Dieldrin	<0.02	mg/kg		03/10/95	KMS
Endosulfan I	<0.01	mg/kg		03/10/95	KMS
Endosulfan II	<0.03	mg/kg		03/10/95	KMS
Endosulfan sulfate	<0.03	mg/kg		03/10/95	KMS
Endrin	<0.02	mg/kg		03/10/95	KMS
Endrin aldehyde	<0.03	mg/kg		03/10/95	KMS
Endrin ketone	<0.03	mg/kg		03/10/95	KMS
Heptachlor	<0.01	mg/kg		03/10/95	KMS
Heptachlor epoxide	<0.01	mg/kg		03/10/95	KMS
Methoxychlor	<0.1	mg/kg		03/10/95	KMS
Toxaphene	<0.3	mg/kg		03/10/95	KMS

Extraction, EPA 3550A, Pest.

02/21/95

HB

Extraction, EPA 3550A, PCB's

02/21/95

HB

Ignitability, EPA 1010

>60

Degrees C

02/21/95

GEI

pH, EPA 9045

6.2

Std Units

02/11/95

PEP

Reactivity, Cyanide, SW846, 7.3

<50

mg/kg

02/24/95

PEP

Reactivity, Sulfide, SW846, 7.3

<50

mg/kg

02/24/95

PEP

Distillation, Reactivity

02/22/95

SAF

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204126
Customer ID: TP-5A - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
a- Suspect lab contamination.					
b- Elevated detection limit due to matrix interference					

Sample # 50204128
Customer ID: Trench - 02/14/95
Matrix: SHW

Project #: L2115 -413

Authorization: ISP-GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
EPA 8240 Volatiles					
Acetone	<400	ug/kg		02/17/95	CRT
Benzene	1900	ug/kg		02/17/95	CRT
Bromodichloromethane	<200	ug/kg		02/17/95	CRT
Bromoform	<200	ug/kg		02/17/95	CRT
Bromomethane	<400	ug/kg		02/17/95	CRT
2-Butanone	<400	ug/kg		02/17/95	CRT
Carbon disulfide	<200	ug/kg		02/17/95	CRT
Carbon tetrachloride	<200	ug/kg		02/17/95	CRT
Chlorobenzene	<200	ug/kg		02/17/95	CRT
Chloroethane	<400	ug/kg		02/17/95	CRT
Chloroform	<200	ug/kg		02/17/95	CRT
Chloromethane	<400	ug/kg		02/17/95	CRT
Dibromochloromethane	<200	ug/kg		02/17/95	CRT
1,1-Dichloroethane	<200	ug/kg		02/17/95	CRT
1,2-Dichloroethane	<200	ug/kg		02/17/95	CRT
1,1-Dichloroethene	<200	ug/kg		02/17/95	CRT
1,2-Dichloroethene, Total	<200	ug/kg		02/17/95	CRT
1,2-Dichloropropane	<200	ug/kg		02/17/95	CRT
cis-1,3-Dichloropropene	<200	ug/kg		02/17/95	CRT
trans-1,3-Dichloropropene	<200	ug/kg		02/17/95	CRT
Ethylbenzene	<200	ug/kg		02/17/95	CRT
2-Hexanone	<400	ug/kg		02/17/95	CRT
Methylene chloride	<400	ug/kg		02/17/95	CRT
4-Methyl-2-pentanone	<400	ug/kg		02/17/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

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Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204128

Project #: L2115 -413

Customer ID: Trench - 02/14/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Styrene	<200	ug/kg		02/17/95	CRT
1,1,2,2,-Tetrachloroethane	<200	ug/kg		02/17/95	CRT
Tetrachloroethene	<200	ug/kg		02/17/95	CRT
Toluene	2900	ug/kg		02/17/95	CRT
1,1,1-Trichloroethane	<200	ug/kg		02/17/95	CRT
1,1,2-Trichloroethane	<200	ug/kg		02/17/95	CRT
Trichloroethene	<200	ug/kg		02/17/95	CRT
Vinyl acetate	<400	ug/kg		02/17/95	CRT
Vinyl chloride	<400	ug/kg		02/17/95	CRT
o-Xylene	<200	ug/kg		02/17/95	CRT
m-Xylene	210*	ug/kg	a	02/17/95	CRT
p-Xylene	*	ug/kg		02/17/95	CRT

EPA 8270 Semi-Volatiles

Phenol	<100	mg/kg		02/25/95	CRT
bis(2-Chloroethyl) ether	<100	mg/kg		02/25/95	CRT
2-Chlorophenol	<100	mg/kg		02/25/95	CRT
1,3-Dichlorobenzene	<100	mg/kg		02/25/95	CRT
1,4-Dichlorobenzene	<100	mg/kg		02/25/95	CRT
Benzyl alcohol	<100	mg/kg		02/25/95	CRT
1,2-Dichlorobenzene	<100	mg/kg		02/25/95	CRT
2-Methylphenol	<100	mg/kg		02/25/95	CRT
bis(2-Chloroisopropyl) ether	<100	mg/kg		02/25/95	CRT
4-Methylphenol	<100	mg/kg		02/25/95	CRT
N-Nitroso-di-n-propylamine	<100	mg/kg		02/25/95	CRT
Hexachloroethane	<100	mg/kg		02/25/95	CRT
Nitrobenzene	<100	mg/kg		02/25/95	CRT
Isophorone	<100	mg/kg		02/25/95	CRT
2-Nitrophenol	<100	mg/kg		02/25/95	CRT
2,4-Dimethylphenol	<100	mg/kg		02/25/95	CRT
Benzoic acid	<500	mg/kg		02/25/95	CRT
bis(2-Chloroethoxy) methane	<100	mg/kg		02/25/95	CRT
2,4-Dichlorophenol	<100	mg/kg		02/25/95	CRT
1,2,4-Trichlorobenzene	<100	mg/kg		02/25/95	CRT
Naphthalene	<100	mg/kg		02/25/95	CRT
4-Chloroaniline	<100	mg/kg		02/25/95	CRT
Hexachlorobutadiene	<100	mg/kg		02/25/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204128

Project #: L2115 -413

Customer ID: Trench - 02/14/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
4-Chloro-3-methylphenol	<100	mg/kg		02/25/95	CRT
2-Methylnaphthalene	<100	mg/kg		02/25/95	CRT
Hexachlorocyclopentadiene	<100	mg/kg		02/25/95	CRT
2,4,6-Trichlorophenol	<100	mg/kg		02/25/95	CRT
2,4,5-Trichlorophenol	<100	mg/kg		02/25/95	CRT
2-Chloronaphthalene	<100	mg/kg		02/25/95	CRT
2-Nitroaniline	<200	mg/kg		02/25/95	CRT
Dimethylphthalate	<100	mg/kg		02/25/95	CRT
Acenaphthylene	<100	mg/kg		02/25/95	CRT
2,6-Dinitrotoluene	<100	mg/kg		02/25/95	CRT
3-Nitroaniline	<200	mg/kg		02/25/95	CRT
Acenaphthene	<100	mg/kg		02/25/95	CRT
2,4-Dinitrophenol	<100	mg/kg		02/25/95	CRT
4-Nitrophenol	<100	mg/kg		02/25/95	CRT
Dibenzofuran	<100	mg/kg		02/25/95	CRT
2,4-Dinitrotoluene	<100	mg/kg		02/25/95	CRT
Diethylphthalate	<100	mg/kg		02/25/95	CRT
4-Chlorophenyl phenyl ether	<100	mg/kg		02/25/95	CRT
Fluorene	<100	mg/kg		02/25/95	CRT
4-Nitroaniline	<200	mg/kg		02/25/95	CRT
4,6-Dinitro-2-methylphenol	<200	mg/kg		02/25/95	CRT
N-nitrosodiphenylamine	<100	mg/kg		02/25/95	CRT
4-Bromophenyl phenyl ether	<100	mg/kg		02/25/95	CRT
Hexachlorobenzene	<100	mg/kg		02/25/95	CRT
Pentachlorophenol	<200	mg/kg		02/25/95	CRT
Phenanthrene	<100	mg/kg		02/25/95	CRT
Anthracene	<100	mg/kg		02/25/95	CRT
Di-n-butylphthalate	<100	mg/kg		02/25/95	CRT
Fluoranthene	<100	mg/kg		02/25/95	CRT
Pyrene	<100	mg/kg		02/25/95	CRT
Butyl benzyl phthalate	510	mg/kg		02/25/95	CRT
3,3'-Dichlorobenzidine	<200	mg/kg		02/25/95	CRT
Benzo(a)anthracene	<100	mg/kg		02/25/95	CRT
Chrysene	<100	mg/kg		02/25/95	CRT
bis(2-ethylhexyl)phthalate	15000	mg/kg		02/25/95	CRT
Di-n-octylphthalate	<100	mg/kg		02/25/95	CRT
Benzo(b)fluoranthene	<100	mg/kg		02/25/95	CRT
Benzo(k)fluoranthene	<100	mg/kg		02/25/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204128

Project #: L2115 ~413

Customer ID: Trench - 02/14/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Benzo(a)pyrene	<100	mg/kg		02/25/95	CRT
Indeno(1,2,3-cd)pyrene	<100	mg/kg		02/25/95	CRT
Dibenz(a,h)anthracene	<100	mg/kg		02/25/95	CRT
Benzo(g,h,i)perylene	<100	mg/kg		02/25/95	CRT
Extraction, EPA 3550A, BNA				02/21/95	HB
Metals Digestion, EPA SW846, c3	batch	1256		02/17/95	JEB
Aluminum, EPA 7020	8500	mg/kg		03/08/95	KBB
Antimony, EPA 7041	1.5	mg/kg		03/09/95	CRW
Arsenic, EPA 7060	4.0	mg/kg		03/06/95	CRW
Barium, EPA 7080	190	mg/kg		02/22/95	KBB
Beryllium, EPA 7090	<1	mg/kg		03/01/95	KBB
Cadmium, EPA 7030	1.5	mg/kg		02/22/95	JNT
Calcium, EPA 7140	32000	mg/kg		02/20/95	KBB
Chromium, EPA 7190	10	mg/kg		02/22/95	JNT
Cobalt, EPA 7200	6.3	mg/kg		02/23/95	KBB
Copper, EPA 7210	730	mg/kg		02/24/95	JNT
Iron, EPA 7380	17000	mg/kg		02/24/95	KBB
Magnesium, EPA 7450	4400	mg/kg		02/21/95	KBB
Manganese, EPA 7460	350	mg/kg		03/01/95	JNT
Mercury, EPA 7471	0.15	mg/kg		02/24/95	KBB
Nickel, EPA 7520	28	mg/kg		02/21/95	KBB
Potassium, EPA 7610	890	mg/kg		02/28/95	KBB
Selenium, EPA 7740	<1	mg/kg		02/21/95	CRW
Silver, EPA 7760	53	mg/kg		02/22/95	KBB
Sodium, EPA 7770	210	mg/kg		02/28/95	KBB
Zinc, EPA 7950	780	mg/kg		03/01/95	JNT
Vanadium, EPA 7910	<20	mg/kg		03/08/95	KBB
Thallium, EPA 7840	<10	mg/kg		03/10/95	KBB
Lead, EPA 7420	120	mg/kg		02/2/95	JNT
Cyanide, Total, EPA 335.2	<0.3	mg/kg		02/ /95	AUT
Distillation, Total Cyanide				02/ /95	GEI
EPA 8080 PCB's					
Aroclor 1016	<0.4	mg/kg	b	03/15/95	KMS
Aroclor 1221	<0.4	mg/kg		03/15/95	KMS
Aroclor 1232	<0.4	mg/kg		03/15/95	KMS
Aroclor 1242	<0.4	mg/kg		03/10/95	KMS

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
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Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204128

Project #: L2115 -413

Customer ID: Trench - 02/14/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Aroclor 1248	<0.4	mg/kg		03/10/95	KMS
Aroclor 1254	<0.4	mg/kg		03/10/95	KMS
Aroclor 1260	<0.4	mg/kg		03/10/95	KMS
EPA 8080 Pesticides					
Aldrin	<0.02	mg/kg	b	03/10/95	KMS
alpha-BHC	<0.02	mg/kg		03/10/95	KMS
beta-BHC	<0.02	mg/kg		03/10/95	KMS
delta-BHC	<0.02	mg/kg		03/10/95	KMS
gamma-BHC (Lindane)	<0.02	mg/kg		03/10/95	KMS
alpha-Chlordane	<0.02	mg/kg		03/10/95	KMS
gamma-Chlordane	<0.02	mg/kg		03/10/95	KMS
4,4'-DDD	<0.06	mg/kg		03/10/95	KMS
4,4'-DDE	<0.04	mg/kg		03/10/95	KMS
4,4'-DDT	<0.06	mg/kg		03/10/95	KMS
Dieldrin	<0.04	mg/kg		03/10/95	KMS
Endosulfan I	<0.02	mg/kg		03/10/95	KMS
Endosulfan II	<0.06	mg/kg		03/10/95	KMS
Endosulfan sulfate	<0.06	mg/kg		03/10/95	KMS
Endrin	<0.04	mg/kg		03/10/95	KMS
Endrin aldehyde	<0.06	mg/kg		03/10/95	KMS
Endrin ketone	<0.06	mg/kg		03/10/95	KMS
Heptachlor	<0.02	mg/kg		03/10/95	KMS
Heptachlor epoxide	<0.02	mg/kg		03/10/95	KMS
Methoxychlor	<0.2	mg/kg		03/10/95	KMS
Toxaphene	<0.6	mg/kg		03/10/95	KMS
Extraction, EPA 3550A, Pest.				02/21/95	HB
Extraction, EPA 3550A, PCB's				02/21/95	HB
Ignitability, EPA 1010	>60	Degrees C		03/09/95	GEI
pH, EPA 9045	6.9	Std Units		02/17/95	PEP
Reactivity, Cyanide, SW846, 7.3	<50	mg/kg		02/24/95	PEP
Reactivity, Sulfide, SW846, 7.3	56	mg/kg		02/24/95	PEP
Distillation, Reactivity				02/21/95	SAF

a- Chromatographically, para and meta Xylene co-elute. The reported value may represent either of these compounds or a combination thereof.

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204128

Project #: L2115 -413

Customer ID: Trench - 02/14/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials

b- Elevated detection limit due to matrix interference

Sample # 50204394

Project #: L2115 -413

Customer ID: TP-1A - 02/14/95

Matrix: SHW

Authorization: ISP-GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
TCLP Non-Vol. Ext., EPA 1311				02/21/95	SAF
TCLP 2.H. Extraction, EPA 1311				02/21/95	SAF
Arsenic, TCLP, EPA 206.2	<0.1	mg/l		02/27/95	CRW
Barium, TCLP, EPA 208.1	5.4	mg/l		02/22/95	KBB
Cadmium, TCLP, EPA 213.1	0.93	mg/l		02/22/95	JNT
Chromium, TCLP, EPA 218.1	<0.2	mg/l		02/22/95	JNT
Lead, TCLP, EPA 239.1	<1	mg/l		02/22/95	JNT
Mercury, TCLP, EPA 245.1	<0.002	mg/l		02/24/95	KBB
Selenium, TCLP, EPA 270.2	<0.1	mg/l		02/24/95	CRW
Silver, TCLP, EPA 272.1	<0.1	mg/l		02/22/95	KBB
Metals Digestion, TCLP	batch	1260		02/22/95	JEB
EPA 624 TCLP Volatiles					
Benzene, TCLP	<0.05	mg/l		02/17/95	CRT
Carbon tetrachloride, TCLP	<0.05	mg/l		02/17/95	CRT
Chlorobenzene, TCLP	<0.05	mg/l		02/17/95	CRT
Chloroform, TCLP	<0.05	mg/l		02/17/95	CRT
1,4-Dichlorobenzene, TCLP	<0.05	mg/l		02/17/95	CRT
1,2-Dichloroethane, TCLP	<0.05	mg/l		02/17/95	CRT
1,1-Dichloroethene, TCLP	<0.05	mg/l		02/17/95	CRT
2-Butanone (MEK), TCLP	<0.1	mg/l		02/17/95	CRT
Tetrachloroethene, TCLP	<0.05	mg/l		02/17/95	CRT
Trichloroethene, TCLP	<0.05	mg/l		02/17/95	CRT
Vinyl chloride, TCLP	<0.1	mg/l		02/17/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204394
Customer ID: TP-1A - 02/14/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
EPA 625 TCLP Semi-Volatiles					
Cresol, Total, TCLP	<0.01	mg/l		02/25/95	CRT
2,4-Dinitrotoluene, TCLP	<0.01	mg/l		02/25/95	CRT
Hexachlorobenzene, TCLP	<0.01	mg/l		02/25/95	CRT
Hexachlorobutadiene, TCLP	<0.01	mg/l		02/25/95	CRT
Hexachloroethane, TCLP	<0.01	mg/l		02/25/95	CRT
Nitrobenzene, TCLP	<0.01	mg/l		02/25/95	CRT
Pentachlorophenol, TCLP	<0.02	mg/l		02/25/95	CRT
Pyridine, TCLP	<0.02	mg/l		02/25/95	CRT
2,4,5-Trichlorophenol, TCLP	<0.01	mg/l		02/25/95	CRT
2,4,6-Trichlorophenol, TCLP	<0.01	mg/l		02/25/95	CRT
EPA 625 TCLP Pesticides					
gamma-BHC (Lindane), TCLP	<0.01	mg/l		02/25/95	CRT
Chlordane, Total, TCLP	<0.02	mg/l		02/25/95	CRT
Endrin, TCLP	<0.01	mg/l		02/25/95	CRT
Heptachlor, TCLP	<0.005	mg/l		02/25/95	CRT
Heptachlor epoxide, TCLP	<0.005	mg/l		02/25/95	CRT
Methoxychlor, TCLP	<0.05	mg/l		02/25/95	CRT
Toxaphene, TCLP	<0.4	mg/l		02/25/95	CRT
EPA 8150 TCLP Herbicides					
2,4-D, TCLP	<0.01	mg/l		03/09/95	KMS
2,4,5-TP (Silvex), TCLP	<0.01	mg/l		03/09/95	KMS
Extraction, EPA 3510A, TCLP Herb				02/28/95	HB
Extraction, EPA 3510A, TCLP S/V				02/23/95	HB
Extraction, EPA 3510A, TCLP Pest				02/23/95	HB

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
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Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204395
Customer ID: TP-2A - 02/14/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
TCLP Non-Vol. Ext., EPA 1311				02/21/95	SAF
TCLP Z.H. Extraction, EPA 1311				02/21/95	SAF
Arsenic, TCLP, EPA 206.2	<0.1	mg/l		02/27/95	CRW
Barium, TCLP, EPA 208.1	4.0	mg/l		02/22/95	KBB
Cadmium, TCLP, EPA 213.1	<0.1	mg/l		02/22/95	JNT
Chromium, TCLP, EPA 218.1	<0.2	mg/l		02/22/95	JNT
Lead, TCLP, EPA 239.1	<1	mg/l		02/22/95	JNT
Mercury, TCLP, EPA 245.1	<0.002	mg/l		02/24/95	KBB
Selenium, TCLP, EPA 270.2	<0.1	mg/l		02/24/95	CRW
Silver, TCLP, EPA 272.1	<0.1	mg/l		02/22/95	KBB
Metals Digestion, TCLP	batch	1260		02/22/95	JEB
EPA 624 TCLP Volatiles					
Benzene, TCLP	<0.05	mg/l		02/17/95	CRT
Carbon tetrachloride, TCLP	<0.05	mg/l		02/17/95	CRT
Chlorobenzene, TCLP	<0.05	mg/l		02/17/95	CRT
Chloroform, TCLP	<0.05	mg/l		02/17/95	CRT
1,4-Dichlorobenzene, TCLP	<0.05	mg/l		02/17/95	CRT
1,2-Dichloroethane, TCLP	<0.05	mg/l		02/17/95	CRT
1,1-Dichloroethene, TCLP	<0.05	mg/l		02/17/95	CRT
2-Butanone (MEK), TCLP	<0.1	mg/l		02/17/95	CRT
Tetrachloroethene, TCLP	<0.05	mg/l		02/17/95	CRT
Trichloroethene, TCLP	<0.05	mg/l		02/17/95	CRT
Vinyl chloride, TCLP	<0.1	mg/l		02/17/95	CRT
EPA 625 TCLP Semi-Volatiles					
Cresol, Total, TCLP	<0.01	mg/l		02/24/95	CRT
2,4-Dinitrotoluene, TCLP	<0.01	mg/l		02/24/95	CRT
Hexachlorobenzene, TCLP	<0.01	mg/l		02/24/95	CRT
Hexachlorobutadiene, TCLP	<0.01	mg/l		02/24/95	CRT
Hexachloroethane, TCLP	<0.01	mg/l		02/24/95	CRT
Nitrobenzene, TCLP	<0.01	mg/l		02/24/95	CRT
Pentachlorophenol, TCLP	<0.02	mg/l		02/24/95	CRT
Pyridine, TCLP	<0.02	mg/l		02/24/95	CRT
2,4,5-Trichlorophenol, TCLP	<0.01	mg/l		02/24/95	CRT
2,4,6-Trichlorophenol, TCLP	<0.01	mg/l		02/24/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204395
Customer ID: TP-2A - 02/14/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
EPA 625 TCLP Pesticides					
gamma-BHC (Lindane), TCLP	<0.01	mg/l		02/24/95	CRT
Chlordane, Total, TCLP	<0.02	mg/l		02/24/95	CRT
Endrin, TCLP	<0.01	mg/l		02/24/95	CRT
Heptachlor, TCLP	<0.005	mg/l		02/24/95	CRT
Heptachlor epoxide, TCLP	<0.005	mg/l		02/24/95	CRT
Methoxychlor, TCLP	<0.05	mg/l		02/24/95	CRT
Toxaphene, TCLP	<0.4	mg/l		02/24/95	CRT
EPA 8150 TCLP Herbicides					
2,4-D, TCLP	<0.01	mg/l		03/09/95	KMS
2,4,5-TP (Silvex), TCLP	<0.01	mg/l		03/09/95	KMS
Extraction, EPA 3510A, TCLP Herb				02/28/95	HB
Extraction, EPA 3510A, TCLP S/V				02/23/95	HB
Extraction, EPA 3510A, TCLP Pest				02/23/95	HB

Sample # 50204396
Customer ID: TP-3A - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: ISP-GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
TCLP Non-Vol. Ext., EPA 1311				02/21/95	SAF
TCLP Z.H. Extraction, EPA 1311				02/21/95	SAF
Arsenic, TCLP, EPA 206.2	<0.1	mg/l		02/27/95	CRW
Barium, TCLP, EPA 208.1	4.0	mg/l		02/22/95	KBB
Cadmium, TCLP, EPA 213.1	<0.1	mg/l		02/22/95	JNT
Chromium, TCLP, EPA 218.1	<0.2	mg/l		02/22/95	JNT
Lead, TCLP, EPA 239.1	<1	mg/l		02/22/95	JNT
Mercury, TCLP, EPA 245.1	<0.002	mg/l		02/24/95	KBB
Selenium, TCLP, EPA 270.2	<0.1	mg/l		02/24/95	CRW
Silver, TCLP, EPA 272.1	0.19	mg/l		02/22/95	KBB
Metals Digestion, TCLP	batch	1260		02/22/95	JEB

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** SAMPLE ANALYSIS REPORT **

03/13/95

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Phone: (315) 457-4105

Sample # 50204396

Project #: L2115 -413

Customer ID: TP-3A - 02/15/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
EPA 624 TCLP Volatiles					
Benzene, TCLP	<0.05	mg/l		02/17/95	CRT
Carbon tetrachloride, TCLP	<0.05	mg/l		02/17/95	CRT
Chlorobenzene, TCLP	<0.05	mg/l		02/17/95	CRT
Chloroform, TCLP	<0.05	mg/l		02/17/95	CRT
1,4-Dichlorobenzene, TCLP	<0.05	mg/l		02/17/95	CRT
1,2-Dichloroethane, TCLP	<0.05	mg/l		02/17/95	CRT
1,1-Dichloroethene, TCLP	<0.05	mg/l		02/17/95	CRT
2-Butanone (MEK), TCLP	<0.1	mg/l		02/17/95	CRT
Tetrachloroethene, TCLP	<0.05	mg/l		02/17/95	CRT
Trichloroethene, TCLP	<0.05	mg/l		02/17/95	CRT
Vinyl chloride, TCLP	<0.1	mg/l		02/17/95	CRT
EPA 625 TCLP Semi-Volatiles					
Cresol, Total, TCLP	<0.01	mg/l		02/24/95	CRT
2,4-Dinitrotoluene, TCLP	<0.01	mg/l		02/24/95	CRT
Hexachlorobenzene, TCLP	<0.01	mg/l		02/24/95	CRT
Hexachlorobutadiene, TCLP	<0.01	mg/l		02/24/95	CRT
Hexachloroethane, TCLP	<0.01	mg/l		02/24/95	CRT
Nitrobenzene, TCLP	<0.01	mg/l		02/24/95	CRT
Pentachlorophenol, TCLP	<0.02	mg/l		02/24/95	CRT
Pyridine, TCLP	<0.02	mg/l		02/24/95	CRT
2,4,5-Trichlorophenol, TCLP	<0.01	mg/l		02/24/95	CRT
2,4,6-Trichlorophenol, TCLP	<0.01	mg/l		02/24/95	CRT
EPA 625 TCLP Pesticides					
gamma-BHC (Lindane), TCLP	<0.01	mg/l		02/24/95	CRT
Chlordane, Total, TCLP	<0.02	mg/l		02/24/95	CRT
Endrin, TCLP	<0.01	mg/l		02/24/95	CRT
Heptachlor, TCLP	<0.005	mg/l		02/24/95	CRT
Heptachlor epoxide, TCLP	<0.005	mg/l		02/24/95	CRT
Methoxychlor, TCLP	<0.05	mg/l		02/24/95	CRT
Toxaphene, TCLP	<0.4	mg/l		02/24/95	CRT

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** SAMPLE ANALYSIS REPORT **

03/13/95

Malcolm Pirnie
7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204396

Project #: L2115 -413

Customer ID: TP-3A - 02/15/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
EPA 8150 TCLP Herbicides					
2,4-D, TCLP	<0.01	mg/l		03/09/95	KMS
2,4,5-TP (Silvex), TCLP	<0.01	mg/l		03/09/95	KMS
Extraction, EPA 3510A, TCLP Herb				02/28/95	HB
Extraction, EPA 3510A, TCLP S/V				02/23/95	HB
Extraction, EPA 3510A, TCLP Pest				02/23/95	HB

Sample # 50204397

Project #: L2115 -413

Customer ID: TP-4A - 02/15/95

Matrix: SHW

Authorization: ISP-GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
TCLP Non-Vol. Ext., EPA 1311				02/21/95	SAF
TCLP Z.H. Extraction, EPA 1311				02/21/95	SAF
Arsenic, TCLP, EPA 206.2	<0.1	mg/l		02/27/95	CRW
Barium, TCLP, EPA 208.1	3.3	mg/l		02/22/95	KBB
Cadmium, TCLP, EPA 213.1	<0.1	mg/l		02/22/95	JNT
Chromium, TCLP, EPA 218.1	<0.2	mg/l		02/22/95	JNT
Lead, TCLP, EPA 239.1	<1	mg/l		02/22/95	JNT
Mercury, TCLP, EPA 245.1	<0.002	mg/l		02/24/95	KBB
Selenium, TCLP, EPA 270.2	<0.1	mg/l		02/24/95	CRW
Silver, TCLP, EPA 272.1	<0.1	mg/l		02/22/95	KBB
Metals Digestion, TCLP	batch	1260		02/22/95	JEB
EPA 624 TCLP Volatiles					
Benzene, TCLP	<0.05	mg/l		02/22/95	CRT
Carbon tetrachloride, TCLP	<0.05	mg/l		02/22/95	CRT
Chlorobenzene, TCLP	<0.05	mg/l		02/22/95	CRT
Chloroform, TCLP	<0.05	mg/l		02/22/95	CRT
1,4-Dichlorobenzene, TCLP	<0.05	mg/l		02/22/95	CRT
1,2-Dichloroethane, TCLP	<0.05	mg/l		02/22/95	CRT
1,1-Dichloroethene, TCLP	<0.05	mg/l		02/22/95	CRT
2-Butanone (MEK), TCLP	<0.1	mg/l		02/22/95	CRT
Tetrachloroethene, TCLP	<0.05	mg/l		02/22/95	CRT

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Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204397
Customer ID: TP-4A - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
Trichloroethene, TCLP	<0.05	mg/l		02/22/95	CRT
Vinyl chloride, TCLP	<0.1	mg/l		02/22/95	CRT
EPA 625 TCLP Semi-Volatiles					
Cresol, Total, TCLP	<0.01	mg/l		02/25/95	CRT
2,4-Dinitrotoluene, TCLP	<0.01	mg/l		02/25/95	CRT
Hexachlorobenzene, TCLP	<0.01	mg/l		02/25/95	CRT
Hexachlorobutadiene, TCLP	<0.01	mg/l		02/25/95	CRT
Hexachloroethane, TCLP	<0.01	mg/l		02/25/95	CRT
Nitrobenzene, TCLP	<0.01	mg/l		02/25/95	CRT
Pentachlorophenol, TCLP	<0.02	mg/l		02/25/95	CRT
Pyridine, TCLP	<0.02	mg/l		02/25/95	CRT
2,4,5-Trichlorophenol, TCLP	<0.01	mg/l		02/25/95	CRT
2,4,6-Trichlorophenol, TCLP	<0.01	mg/l		02/25/95	CRT
EPA 625 TCLP Pesticides					
gamma-BHC (Lindane), TCLP	<0.01	mg/l		02/25/95	CRT
Chlordane, Total, TCLP	<0.02	mg/l		02/25/95	CRT
Endrin, TCLP	<0.01	mg/l		02/25/95	CRT
Heptachlor, TCLP	<0.005	mg/l		02/25/95	CRT
Heptachlor epoxide, TCLP	<0.005	mg/l		02/25/95	CRT
Methoxychlor, TCLP	<0.05	mg/l		02/25/95	CRT
Toxaphene, TCLP	<0.4	mg/l		02/25/95	CRT
EPA 8150 TCLP Herbicides					
2,4-D, TCLP	<0.01	mg/l		03/09/95	KMS
2,4,5-TP (Silvex), TCLP	<0.01	mg/l		03/09/95	KMS
Extraction, EPA 3510A, TCLP Herb				02/28/95	HB
Extraction, EPA 3510A, TCLP S/V				02/23/95	HB
Extraction, EPA 3510A, TCLP Pest				02/23/95	HB

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Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204398
Customer ID: TP-5A - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
TCLP Non-Vol. Ext., EPA 1311				02/21/95	SAF
TCLP Z.H. Extraction, EPA 1311				02/21/95	SAF
Arsenic, TCLP, EPA 206.2	<0.1	mg/l		02/27/95	CRW
Barium, TCLP, EPA 208.1	4.5	mg/l		02/22/95	KBB
Cadmium, TCLP, EPA 213.1	<0.1	mg/l		02/22/95	JNT
Chromium, TCLP, EPA 218.1	<0.2	mg/l		02/22/95	JNT
Lead, TCLP, EPA 239.1	<1	mg/l		02/22/95	JNT
Mercury, TCLP, EPA 245.1	<0.002	mg/l		02/24/95	KBB
Selenium, TCLP, EPA 270.2	<0.1	mg/l		02/24/95	CRW
Silver, TCLP, EPA 272.1	<0.1	mg/l		02/22/95	KBB
Metals Digestion, TCLP	batch	1260		02/22/95	JEB
EPA 624 TCLP Volatiles					
Benzene, TCLP	<0.05	mg/l		02/22/95	CRT
Carbon tetrachloride, TCLP	<0.05	mg/l		02/22/95	CRT
Chlorobenzene, TCLP	<0.05	mg/l		02/22/95	CRT
Chloroform, TCLP	<0.05	mg/l		02/22/95	CRT
1,4-Dichlorobenzene, TCLP	<0.05	mg/l		02/22/95	CRT
1,2-Dichloroethane, TCLP	<0.05	mg/l		02/22/95	CRT
1,1-Dichloroethane, TCLP	<0.05	mg/l		02/22/95	CRT
2-Butanone (MEK), TCLP	<0.1	mg/l		02/22/95	CRT
Tetrachloroethene, TCLP	<0.05	mg/l		02/22/95	CRT
Trichloroethene, TCLP	<0.05	mg/l		02/22/95	CRT
Vinyl chloride, TCLP	<0.1	mg/l		02/22/95	CRT
EPA 625 TCLP Semi-Volatiles					
Cresol, Total, TCLP	<0.01	mg/l		02/25/95	CRT
2,4-Dinitrotoluene, TCLP	<0.01	mg/l		02/25/95	CRT
Hexachlorobenzene, TCLP	<0.01	mg/l		02/25/95	CRT
Hexachlorobutadiene, TCLP	<0.01	mg/l		02/25/95	CRT
Hexachloroethane, TCLP	<0.01	mg/l		02/25/95	CRT
Nitrobenzene, TCLP	<0.01	mg/l		02/25/95	CRT
Pentachlorophenol, TCLP	<0.02	mg/l		02/25/95	CRT
Pyridine, TCLP	<0.02	mg/l		02/25/95	CRT
2,4,5-Trichlorophenol, TCLP	<0.01	mg/l		02/25/95	CRT
2,4,6-Trichlorophenol, TCLP	<0.01	mg/l		02/25/95	CRT

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Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204398
Customer ID: TP-5A - 02/15/95
Matrix: SHW

Project #: L2115 -413

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
EPA 625 TCLP Pesticides					
gamma-BHC (Lindane), TCLP	<0.01	mg/l		02/25/95	CRT
Chlordane, Total, TCLP	<0.02	mg/l		02/25/95	CRT
Endrin, TCLP	<0.01	mg/l		02/25/95	CRT
Heptachlor, TCLP	<0.005	mg/l		02/25/95	CRT
Heptachlor epoxide, TCLP	<0.005	mg/l		02/25/95	CRT
Methoxychlor, TCLP	<0.05	mg/l		02/25/95	CRT
Toxaphene, TCLP	<0.4	mg/l		02/25/95	CRT

EPA 8150 TCLP Herbicides
2,4-D, TCLP
2,4,5-TP (Silvex), TCLP

<0.01	mg/l	03/09/95	KMS
<0.01	mg/l	03/09/95	KMS

Extraction, EPA 3510A, TCLP Herb
Extraction, EPA 3510A, TCLP S/V
Extraction, EPA 3510A, TCLP Pest

02/28/95	HB
02/23/95	HB
02/23/95	HB

Sample # 50204399
Customer ID: Trench - 02/14/95
Matrix: SHW

Project #: L2115 -413

Authorization: ISP-GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
TCLP Non-Vol. Ext., EPA 1311				02/21/95	SAF
TCLP Z.H. Extraction, EPA 1311				02/21/95	SAF
Arsenic, TCLP, EPA 206.2	<0.1	mg/l		02/27/95	CRW
Barium, TCLP, EPA 208.1	4.5	mg/l		02/22/95	KBB
Cadmium, TCLP, EPA 213.1	<0.1	mg/l		02/22/95	JNT
Chromium, TCLP, EPA 218.1	<0.2	mg/l		02/22/95	JNT
Lead, TCLP, EPA 239.1	<1	mg/l		02/22/95	JNT
Mercury, TCLP, EPA 245.1	<0.002	mg/l		02/24/95	KBB
Selenium, TCLP, EPA 270.2	<0.1	mg/l		02/24/95	CRW
Silver, TCLP, EPA 272.1	<0.1	mg/l		02/22/95	KBB
Metals Digestion, TCLP	batch	1260		02/22/95	JEB

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Phone: (315) 457-4105

Sample # 50204399

Project #: L2115 -413

Customer ID: Trench - 02/14/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
EPA 624 TCLP Volatiles					
Benzene, TCLP	<0.05	mg/l		02/22/95	CRT
Carbon tetrachloride, TCLP	<0.05	mg/l		02/22/95	CRT
Chlorobenzene, TCLP	<0.05	mg/l		02/22/95	CRT
Chloroform, TCLP	<0.05	mg/l		02/22/95	CRT
1,4-Dichlorobenzene, TCLP	<0.05	mg/l		02/22/95	CRT
1,2-Dichloroethane, TCLP	<0.05	mg/l		02/22/95	CRT
1,1-Dichloroethene, TCLP	<0.05	mg/l		02/22/95	CRT
2-Butanone (MEK), TCLP	<0.1	mg/l		02/22/95	CRT
Tetrachloroethene, TCLP	<0.05	mg/l		02/22/95	CRT
Trichloroethene, TCLP	<0.05	mg/l		02/22/95	CRT
Vinyl chloride, TCLP	<0.1	mg/l		02/22/95	CRT
EPA 625 TCLP Semi-Volatiles					
Cresol, Total, TCLP	<0.01	mg/l		02/25/95	CRT
2,4-Dinitrotoluene, TCLP	<0.01	mg/l		02/25/95	CRT
Hexachlorobenzene, TCLP	<0.01	mg/l		02/25/95	CRT
Hexachlorobutadiene, TCLP	<0.01	mg/l		02/25/95	CRT
Hexachloroethane, TCLP	<0.01	mg/l		02/25/95	CRT
Nitrobenzene, TCLP	<0.01	mg/l		02/25/95	CRT
Pentachlorophenol, TCLP	<0.02	mg/l		02/25/95	CRT
Pyridine, TCLP	<0.02	mg/l		02/25/95	CRT
2,4,5-Trichlorophenol, TCLP	<0.01	mg/l		02/25/95	CRT
2,4,6-Trichlorophenol, TCLP	<0.01	mg/l		02/25/95	CRT
EPA 625 TCLP Pesticides					
gamma-BHC (Lindane), TCLP	<0.01	mg/l		02/25/95	CRT
Chlordane, Total, TCLP	<0.02	mg/l		02/25/95	CRT
Endrin, TCLP	<0.01	mg/l		02/25/95	CRT
Heptachlor, TCLP	<0.005	mg/l		02/25/95	CRT
Heptachlor epoxide, TCLP	<0.005	mg/l		02/25/95	CRT
Methoxychlor, TCLP	<0.05	mg/l		02/25/95	CRT
Toxaphene, TCLP	<0.4	mg/l		02/25/95	CRT

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03/13/95

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7481 Henry Clay Blvd.
Liverpool, NY 13088

Contacts: Ms. Karen Balbierer

Phone: (315) 457-4105

Sample # 50204399

Project #: L2115 -413

Customer ID: Trench - 02/14/95

Matrix: SHW

Authorization: GAF/Bing.

Test Name	Results	Units	Comment	Completed	Initials
EPA 8150 TCLP Herbicides					
2,4-D, TCLP	<0.01	mg/l		03/09/95	KMS
2,4,5-TP (Silvex), TCLP	<0.01	mg/l		03/09/95	KMS
Extraction, EPA 3510A, -TCLP Herb				02/28/95	HB
Extraction, EPA 3510A, TCLP S/V				02/23/95	HB
Extraction, EPA 3510A, TCLP Pest				02/23/95	HB

APPENDIX D

MONITORING WELLS

SAMPLE COLLECTION PROCEDURES

Groundwater Sampling Procedures

Special precautions were taken to ensure that groundwater samples were representative of the groundwater quality at each sampling location and that the sample was neither altered nor contaminated by the sampling and handling procedure. The following subsections detail the well sampling procedures followed by Malcolm Pirnie field crews.

Groundwater Well Purging

Water standing in a well prior to sampling may not be representative of in-situ groundwater quality; therefore, each well was purged to allow formation water to replace the stagnant water. Wells were purged to dryness using a dedicated bailer.

Prior to purging, the following steps were completed:

- The necessary personal protective equipment and a new pair of disposable gloves were donned.
- All sampling and monitoring equipment was properly decontaminated prior to use.
- The depth to water was measured (to the nearest 0.01 foot) using a pre-cleaned electric well depth probe and recorded.

Purged water was returned to the ground near each well.

Sample Collection

Each well was sampled, using a bailer, as soon as it had recovered sufficiently. Bailers are tall narrow tubes equipped with a check valve on the bottom. This valve allows water to enter from the bottom as the bailer is lowered, then prevents its release as the bailer is raised. Bailers were constructed of polyvinylchloride and attached to braided polypropylene rope.

Bailers are particularly useful when samples must be recovered from depths greater than the range (or capability) of suction lift pumps, when volatile stripping is of concern, or when well casing diameters are too narrow to accept submersible pumps. It is the method of choice for the collection of samples which are susceptible to volatile component stripping or degradation due to the aeration associated with most other recovery systems. Samples can be recovered with a minimum of aeration if care is taken to gradually lower the bailer until it contacts the water surface and is then allowed to sink as it fills.

Procedures Followed For Sampling Groundwater:

- The necessary personal protective equipment and a new pair of disposable gloves were donned

- All sampling and monitoring equipment was properly decontaminated prior to use
- The depth to water was measured (to the nearest 0.01 foot) using a pre-cleaned electric well depth probe and recorded.
- The bailer was slowly lowered until it contacted the water surface.
- The bailer was allowed to sink and fill with a minimum of surface disturbance.
- The bailer was slowly raised to the surface; the bailer line was not allowed to contact the ground.
- The bailer was tipped to allow slow discharge from the top to flow gently down the side of the sample bottle with minimum entry turbulence; the first bailer retrieved was used to provide sample *only* for field measurements of pH, conductivity, temperature, and turbidity. Water contained in subsequent bailers was used to fill the required sample jars.
- Liquid that contacted the gloves (and/or any external surface of the sample container) was not allowed to contaminate the sample.
- A check was made to insure that a Teflon® liner was present in the cap, and no air bubbles were present.
- The sample bottle was labelled, and the sample placed on ice for shipment to the laboratory.

APPENDIX E

***TEST PIT AND
BOREHOLE LOGS***

TEST PIT LOGS

GAF Parking Lot Site
Binghamton, New York

Test Pit TP-1:

Site Elevation¹: 499.42

- 0-8 ft.: Moderate brown silt, sand and rounded gravel, glass and brick fragments, loose, dry (fill). There was a small amount (about half a cubic yard) of reddish-purple-stained material at a depth of three ft. in the southeast corner of the pit. This material was segregated on poly sheeting and sampled. The sample designation was TP-1A. Water rapidly entered the pit, resulting in a water level of 7.6 ft. below grade.
- 8-8.5 ft.: Moderate brown silt, sand and rounded gravel, moderately dense, saturated; no evidence of fill. Pit becomes very unstable and is backfilled.

Test Pit TP-2:

Site Elevation: 504.00

- 0-2.5 ft.: Moderate brown silt, sand, and rounded gravels and cobbles, loose, dry (fill).
- 2.5-8 ft.: Construction and demolition (C & D) debris in a gravelly, silty sand matrix. Debris consists of wood beams, pipe, wire, bricks, cinderblocks, firebrick, and polystyrene insulation.
- 8-8.5 ft.: Primarily ash and fine cinders, loose, moist. About half a cubic yard of this material is segregated for sampling (sample designation = TP-2A).
- 8.5-11.5 ft.: C & D debris, as in the 2.5-8 ft interval above. Water begins to enter the pit at 10.5 ft.
- 11.5-11.7 ft.: Black peat, rootlets, decaying vegetation, saturated. Original land surface @ 11.5.
- 11.7-12.4 ft.: Moderate brown silt and clay, trace fine sand, rootlets present, dense, saturated.

Test Pit TP-3:

Site Elevation: 503.50

- 0-4.9 ft.: C & D debris in a gravelly, silty sand matrix, loose, dry. There is a thin, discontinuous layer of dark-colored silty fill exposed in the southeast corner of the pit at about three to four feet below grade. Sample TP-3A is collected from this interval.
- 4.9-7.2 ft.: Gray and black mottled silt and clay, wood fragments, glass shards; looks like "reworked" or disturbed swamp deposit. Original land surface @ 7.2 ft.

7.2-8.2 ft.: Grayish brown silt, fine sand, and clay, abundant rootlets, moderately dense, moist to wet.

Test Pit TP-4:

Site Elevation: 501.35

0-7.3 ft.: C & D debris (bricks and concrete slabs and blocks) in a sand, silt, and gravel matrix; loose; dry to moist (fill). Sample TP-4A collected from 7-7.3 feet (base of fill).

7.3-8.1 ft.: Brownish black and gray mottled silty clay, many rootlets and organic fragments present, moderately dense, moist. (original land surface @ 7.3 ft.).

8.1-8.4 ft.: Gray silt and fine sand, little clay, dense to very dense, moist.

Completion of "Trench"²; eastern half:

Site Elevation: 502.61

0-3 ft.: C & D debris consisting of bricks, concrete, and cinder blocks (fill).

3-9 ft.: Fill becomes "cleaner", consisting primarily of moderate brown gravelly silt and sand with occasional pieces of assorted C & D debris. Original land surface @ nine ft.

A white disk of hardened resin (about two feet in diameter and 0.2 feet thick) is unearthed at about 8 ft. A fresh break in the material yields an HNu response of 180 ppm.

The fill becomes black-stained and moist to wet at about 8.5 to 9 ft. There is a sheen on the wet material. A bucket of this material is excavated and produces an HNu response of 70 ppm. The material is sampled and designated "Trench".

9-10 ft.: Moderate brown silt and fine sand, little clay, trace fine rounded gravel, abundant rootlets, dense, moist to wet.

Completion of "Trench"; western half:

0-9 ft.: C & D debris in a moderate brown, gravelly silt and sand matrix. Original land surface at nine ft. The same black-staining and sheen as in the eastern portion of the trench are present from about 8.5-9 ft.

9-10 ft.: Moderate brown fine sand and silt, little clay, trace fine rounded gravel, abundant rootlets, dense, moist to wet.

10-10.5 ft.: Grayish brown silt and fine sand, little clay, trace fine rounded gravel, dense, moist to wet.

Notes:

1. Elevations are based on the arbitrary site datum of 500.00' established during the NYSDEC Phase II investigation.
2. The remaining 30 feet of a test-pit trench begun during a previous investigation were excavated during this investigation.

BOREHOLE SUMMARY SHEET

PROJECT: GAF Corporation Parking Lot Site-Additional Test Pits, Binghamton, NY

DEPTH (FEET)	SAMPLES	SAMPLE #	BLOWS	SOIL OR ROCK DESCRIPTION	γ _s pcf (11.7eV)	NOTES
5	S-1	14		Moderate brown and black mottled silty sand, occasional gravels, brick fragments, and glass, loose, dry to moist, (fill).		Recovery = 12'
		14				
		10				
		10				
	S-2	4		Brownish black silt, fine to medium sand, coal fragments, cinders, layer of wood 1/2" thick, moist, loose (fill).		Recovery = 1.1'
		6				
		7				
		8				
	S-3	10		Moderate brown to brownish black fine sand and fine rounded gravel, little to some medium sand and silt, occasional brick fragment, firmer than above, moist (fill).		Recovery = 1.1' 5
		8				
		8				
		7				
	S-4	17		6-7': As above. 7-7.2': Black silt, gravel, and glass fragments, loose (fill). 7.2-7.8': olive gray silt and fine sand, wood fragments (fill). 7.8-8.0': Black loose fine cinders and coal fragments, moist to wet (fill).		Recovery = 1.8'
		8				
		18				
		11				
10	S-5	4		8-9.7': Cinders/ash, as above, loose, saturated (fill). 9.7-10': Black fine sand, loose, slight sheen evident, saturated (fill).		Recovery = 2.0' 10
		3				
		2				
		4				
	S-6	4		No recovery; sample washed out of spoon.		No Recovery
		8				
		5				
		5				
	S-7	4		Black cinders, slag, and silt, little rounded gravel, loose, sheen evident, saturated, (fill).		No response on HNu. Recovery = 1.8'
		3				
		2				
		2				
15	S-8	3		15.1-16': Moderate brown peat, rootlets, moist, compact (original land surface).		Recovery = 12' 15
		3				
		4				
		8				
	S-9	4		Peat, as above.		Recovery = 2.0'
		6				
		6				
		6				
	S-10	2		18-19': Peat, as above.		Recovery = 2.0'
		2				
		3				
		3				
20	S-11	2		Olive gray fine sand and silt, little clay, frequent organic fragments (peat), few clay partings, wet.		20
		2				
		2				
		4				
		4		Olive gray silt, little fine sand and clay, occasional clay parting, wet to saturated.		Recovery = 1.7'
		4				
		4				
		3				
	S-12	3		Olive gray to gray interbedded silt, silty fine sand, and silty clay partings and seams, soft, saturated (glaciolacustrine).		Recovery = 1.5' Elevation based on site datum of 500.00'.
		3				
		4				
		3				
25						25

Surface Elevation 503.93 Classified By KEITH A. WHITE
 Date Drilled 02/15/95 MPI Inspector KEITH A. WHITE
 Driller EMPIRE SOILS, INC., GROTON, NY Job No. 2435-003
 Method 2 1/4" HOLLOW-STEM AUGERS

LOCATION NO. B-1
 SHEET 1 OF 1

**MALCOLM
PIRNIE**

BOREHOLE SUMMARY SHEET

PROJECT: GAF Corporation Parking Lot Site-Additional Test Pits, Binghamton, NY

DEPTH (FEET)	SAMPLES	SAMPLE #	BLOWS	SOIL OR ROCK DESCRIPTION	γ _s (g/cm ³) (11.7eV)	NOTES
5	S-1	5		Moderate brown to brownish black silt, sand, gravel, brick fragments, asphalt chips, loose, dry, (fill).		Recovery = 18'
		9				
		14				
		13				
	S-2	21		Olive brown and brownish black mottled silt, gravel, cinders, and brick fragments, moderately loose, moist, (fill).		Recovery = 18'
		10				
		8				
		13				
	S-3	17		No recovery. Cobble in spoon end.		No Recovery 5
		13				
		10				
		7				
S-4	6		Fire brick and cinder block chunks wedged in spoon end.		Recovery = 02'	
	5					
	4					
	2					
S-5	2		Moderate brown to gray brown fine to coarse sand, little silt, brick fragments, occasional cinder/slag, loose, moist, (fill).		Recovery = 05'	
	2					
	3					
	4					
S-6	3		Brownish black silt, sand, and gravel, fire brick, cinders, loose, saturated, (fill).		Recovery = 08'	
	3					
	3					
	3					
S-7	3		As above.		Recovery = 08'	
	4					
	3					
	2					
S-8	2		14-14.3': Brownish black silt and fine sand, little clay, rootlets, saturated, (original land surface). 14.3-15.8': Olive gray to olive brown silt, little fine sand and clay, frequent organics, moderately dense, saturated.		Recovery = 20' 15	
	3					
	3					
	5					
S-9	4		15.8-16': Olive gray to gray silt and silty clay seams, saturated, (glaciolacustrine). Olive gray to gray interbedded silt and silty clay seams, soft, saturated. One 1/4"-thick fine sand seam present.		Recovery = 20'	
	4					
	4					
	4					
S-10	3		As above. Fine sand seam from 19.8 to 20'.		Recovery = 18'	
	2					
	3					
	4					
S-11	1		As above.		Recovery = 20'	
	1					
	2					
	2					
S-12	2		As above. Medium sand seam from 23.7 to 24.0.		Recovery = 18'	
	3					
	2					
	3					
25						

Surface Elevation 500.93 Classified By KEITH A. WHITE

Date Drilled 02/15/95 MPI Inspector KEITH A. WHITE

Driller EMPIRE SOILS, INC., GROTON, NY Job No. 2435-003

Method 2 1/4" HOLLOW-STEM AUGERS

LOCATION NO. B-2

SHEET 1 OF 1

**MALCOLM
PIRNIE**

APPENDIX F

***HRS PRELIMINARY ASSESSMENT
(PA) SCORESHEETS***

PA-Score

PA SCORESHEETS

Site Name: GAF PARKING LOT SITE
CERCLIS ID No.:
Street Address: CHARLES STREET AND SEYMOUR STREET
City/State/Zip: BINGHAMTON, NY

Investigator:
Agency/Organization:
Street Address:
City/State: ,

Date:

WASTE CHARACTERISTICS

Waste Characteristics (WC) Calculations:

1 CONTAMINATED SOIL	Contaminated soil	WQ value	maximum
Area	2.80E+00 acres	3.59E+00	3.59E+00

Ground Water Pathway Criteria List
Suspected Release

Are sources poorly contained? (y/n/u)	Y
Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	N
Is precipitation heavy? (y/n/u)	U
Is the infiltration rate high? (y/n/u)	U
Is the site located in an area of karst terrain? (y/n)	N
Is the subsurface highly permeable or conductive? (y/n/u)	U
Is drinking water drawn from a shallow aquifer? (y/n/u)	U
Are suspected contaminants highly mobile in ground water? (y/n/u)	Y
Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u)	Y

Other criteria? (y/n) N

SUSPECTED RELEASE? (y/n) Y

Summarize the rationale for Suspected Release:

Ground Water Pathway Criteria List
Primary Targets

Is any drinking water well nearby? (y/n/u)

Has any nearby drinking water well been closed? (y/n/u)

Has any nearby drinking water well user reported
foul-testing or foul-smelling water? (y/n/u)

Does any nearby well have a large drawdown/high production rate? (y/n/u)

Is any drinking water well located between the site and other wells
that are suspected to be exposed to a hazardous substance? (y/n/u)

Does analytical or circumstantial evidence suggest contamination
at a drinking water well? (y/n/u)

Does any drinking water well warrant sampling? (y/n/u)

Other criteria? (y/n)

PRIMARY TARGET(S) IDENTIFIED? (y/n)

Summarize the rationale for Primary Targets:

GROUND WATER PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do you suspect a release? (y/n)	Yes	☐
Is the site located in karst terrain? (y/n)	No	☐
Depth to aquifer (feet):	8	☐
Distance to the nearest drinking water well (feet):	4752	☐

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550	☐	☐
2. NO SUSPECTED RELEASE	☐	0	
LR =	550	0	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0	☐	☐
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N	295	0	
5. NEAREST WELL	9	0	
6. WELLHEAD PROTECTION AREA Underlies Site	20	0	
7. RESOURCES	5	0	
T =	329	0	☐

WASTE CHARACTERISTICS

WC =

18	0

GROUND WATER PATHWAY SCORE:

39

PA-Score 2.1 Scoresheets
GAF PARKING LOT SITE - 03/29/95

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Ground Water Target Populations

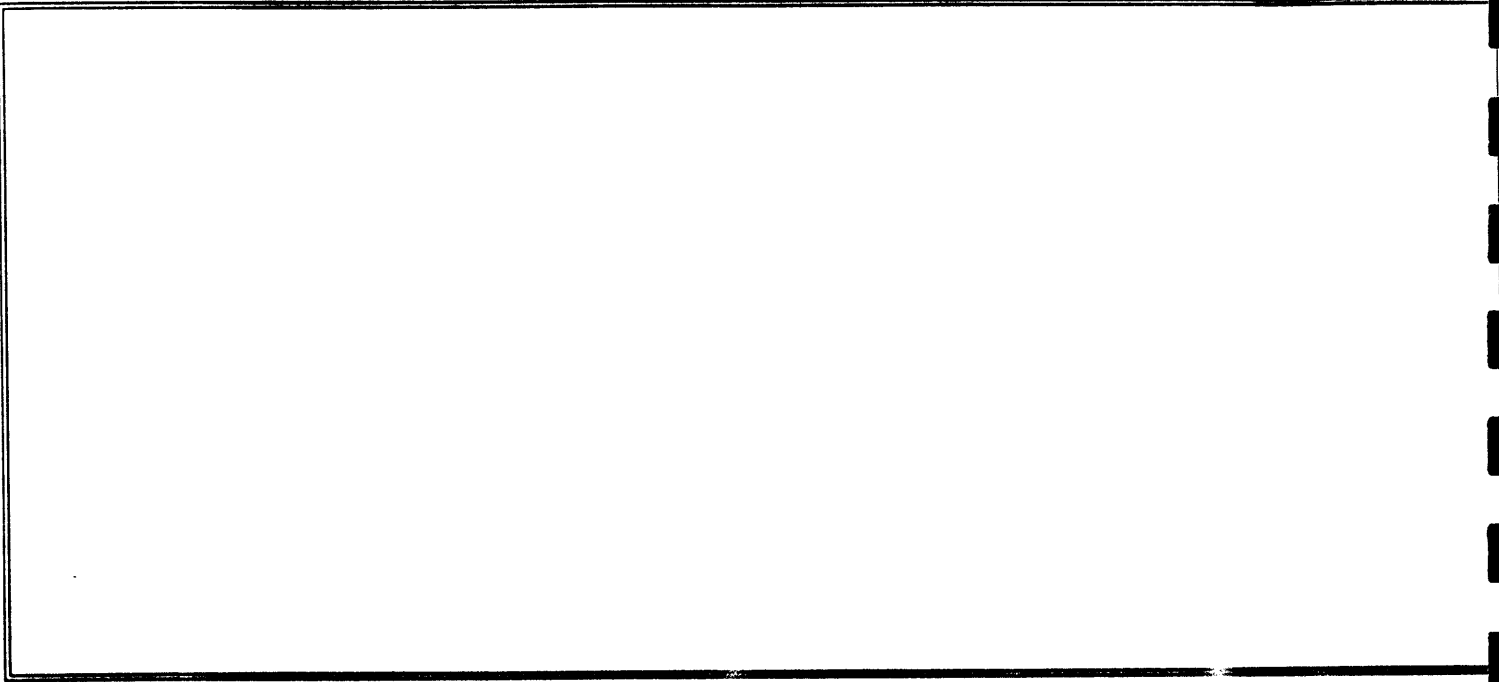
Primary Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
None				
*** Note : Maximum of 5 Wells Are Printed ***				Total

Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	0		0
Greater than 1/4 to 1/2 mile	0		0
Greater than 1/2 to 1 mile	36		2
Greater than 1 to 2 miles	7335		94
Greater than 2 to 3 miles	6720		68
Greater than 3 to 4 miles	10001		131
Total			295

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GAF PARKING LOT SITE - 03/29/95

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Apportionment Documentation for a Blended System



Surface Water Pathway Criteria List
Suspected Release

Is surface water nearby? (y/n/u)	N
Is waste quantity particularly large? (y/n/u)	N
Is the drainage area large? (y/n/u)	N
Is rainfall heavy? (y/n/u)	U
Is the infiltration rate low? (y/n/u)	U
Are sources poorly contained or prone to runoff or flooding? (y/n/u)	Y
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u)	Y
Is vegetation stressed along the probable runoff path? (y/n/u)	U
Are sediments or water unnaturally discolored? (y/n/u)	U
Is wildlife unnaturally absent? (y/n/u)	U
Has deposition of waste into surface water been observed? (y/n/u)	U
Is ground water discharge to surface water likely? (y/n/u)	U
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)	U

Other criteria? (y/n) N

SUSPECTED RELEASE? (y/n) N

Summarize the rationale for Suspected Release:

Surface Water Pathway Criteria List
Primary Targets

Is any target nearby? (y/n/u)	If yes:	N
Drinking water intake		
N Fishery		
N Sensitive environment		
Has any intake, fishery, or recreational area been closed? (y/n/u)		N
Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a target? (y/n/u)		N
Does any target warrant sampling? (y/n/u)	If yes:	N
Drinking water intake		
N Fishery		
N Sensitive environment		

Other criteria? (y/n) N

PRIMARY INTAKE(S) IDENTIFIED? (y/n)

Summarize the rationale for Primary Intakes:

continued -----

continued -----

Other criteria? (y/n) N

PRIMARY FISHERY(IES) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Fisheries:

Other criteria? (y/n) N

PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Sensitive Environments:

SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics

Do you suspect a release? (y/n)	No	Ref.
Distance to surface water (feet):	0	
Flood frequency (years):	1-10	
What is the downstream distance (miles) to:		
a. the nearest drinking water intake?	0.0	
b. the nearest fishery?	0.0	
c. the nearest sensitive environment?	0.0	

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

Drinking Water Threat Targets

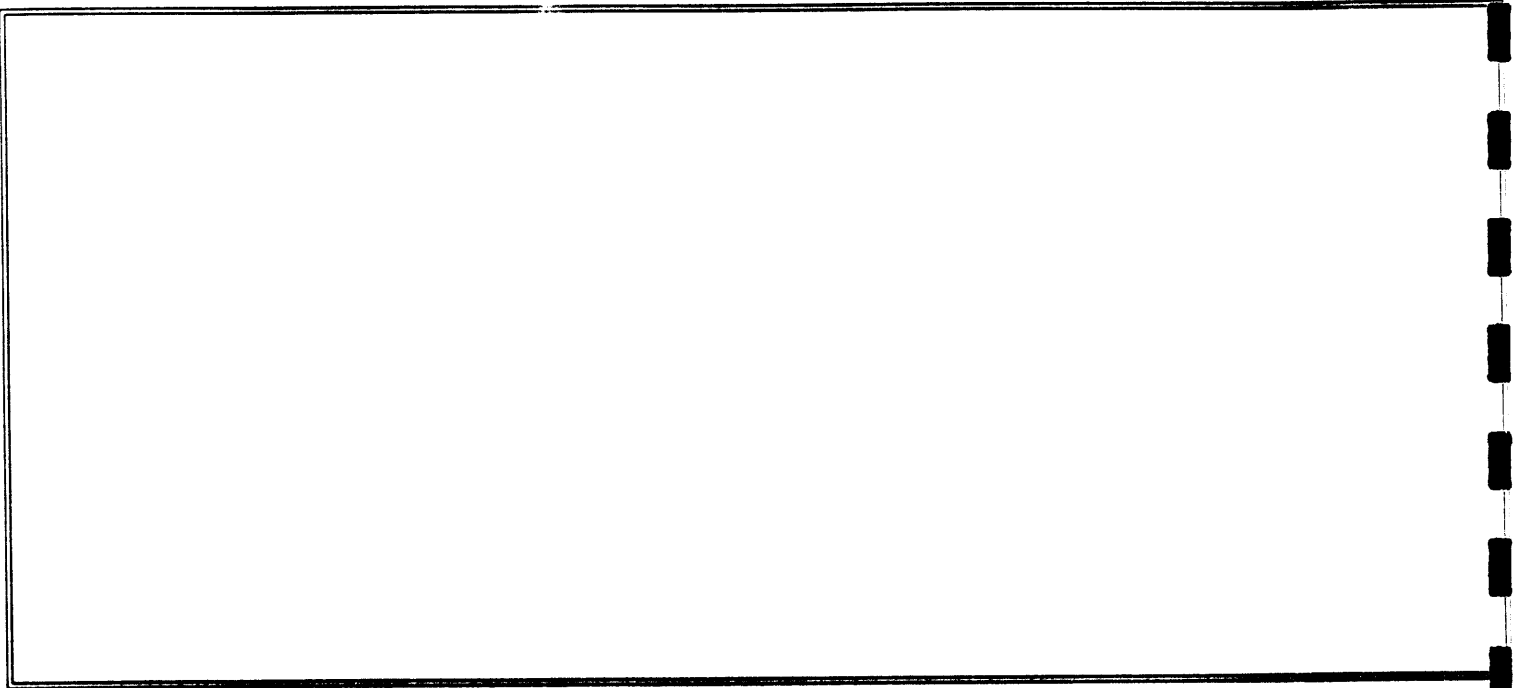
TARGETS	Suspected Release	No Suspected Release	References
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	0	0	
6. NEAREST INTAKE	0	0	
7. RESOURCES	0	5	
T =	0	5	

Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
None					
Total Primary Target Population Value					0
Total Secondary Target Population Value					0

*** Note : Maximum of 6 Intakes Are Printed ***

Apportionment Documentation for a Blended System



Human Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	0		
10. SECONDARY FISHERIES	0	12	
T =	0	12	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 CHENANGO RIVER	N	>1000-10000 cfs		12
2 SUSQUEHANNA RIVER	N	>1000-10000 cfs		12
Total Primary Fisheries Value				0
Total Secondary Fisheries Value				0

*** Note : Maximum of 6 Fisheries Are Printed ***

Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	0		
13. SECONDARY SENSITIVE ENVIRONS.	0	10	
T =	0	10	

Environmental Threat Targets

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 WETLANDS	N	>1000-10000 cfs		0
2 WETLANDS	N	>1000-10000 cfs		0

Total Primary Sensitive Environments Value

Total Secondary Sensitive Environments Value

*** Note: Maximum of 6 Sensitive Environments Are Printed ***

0
0

Surface Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score	Targets(T) Score	Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	500	5	18	1
Human Food Chain	500	12	18	1
Environmental	500	10	18	1

SURFACE WATER PATHWAY SCORE:

3

Soil Exposure Pathway Criteria List
Resident Population

Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? (y/n/u)	Y
Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? (y/n/u)	N
Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? (y/n/u)	U
Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? (y/n/u)	U
Does any neighboring property warrant sampling? (y/n/u)	U

Other criteria? (y/n) N

RESIDENT POPULATION IDENTIFIED? (y/n) N

Summarize the rationale for Resident Population:

SOIL EXPOSURE PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do any people live on or within 200 ft of areas of suspected contamination? (y/n)	No	
Do any people attend school or daycare on or within 200 ft of areas of suspected contamination? (y/n)	No	
Is the facility active? (y/n):	No	

LIKELIHOOD OF EXPOSURE	Suspected Contamination	References
1. SUSPECTED CONTAMINATION LE =	550	

Targets

2. RESIDENT POPULATION 0 resident(s) 0 school/daycare student(s)	0	
3. RESIDENT INDIVIDUAL	0	
4. WORKERS None	0	
5. TERRES. SENSITIVE ENVIRONMENTS	0	
6. RESOURCES	0	
T =	0	

WASTE CHARACTERISTICS

WC =

18

RESIDENT POPULATION THREAT SCORE:

1

NEARBY POPULATION THREAT SCORE:

2

Population Within 1 Mile: 10,001 - 50,000

SOIL EXPOSURE PATHWAY SCORE:

3

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GAF PARKING LOT SITE - 03/29/95

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Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
None		
Total Terrestrial Sensitive Environments Value		

*** Note : Maximum of 7 Sensitive Environments Are Printed ***

Air Pathway Criteria List
Suspected Release

Are odors currently reported? (y/n/u) U

Has release of a hazardous substance to the air
been directly observed? (y/n/u) U

Are there reports of adverse health effects (e.g., headaches,
nausea, dizziness) potentially resulting from migration
of hazardous substances through the air? (y/n/u) U

Does analytical/circumstantial evidence suggest release to air? (y/n/u) N

Other criteria? (y/n) N

SUSPECTED RELEASE? (y/n) N

Summarize the rationale for Suspected Release:

AIR PATHWAY SCORESHEETS

Pathway Characteristics

Do you suspect a release? (y/n)			No	Ref.
Distance to the nearest individual (feet):			200	
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References	
1. SUSPECTED RELEASE	0			
2. NO SUSPECTED RELEASE		500		
LR =	0	500		

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION	0	211	
5. NEAREST INDIVIDUAL	0	20	
6. PRIMARY SENSITIVE ENVIRONS.	0		
7. SECONDARY SENSITIVE ENVIRONS.	0	3	
8. RESOURCES	0	5	
T =	0	239	

WASTE CHARACTERISTICS

WC =

0	18

AIR PATHWAY SCORE:

26

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Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	0		0
Greater than 0 to 1/4 mile	3001		130
Greater than 1/4 to 1/2 mile	3001		28
Greater than 1/2 to 1 mile	10001		26
Greater than 1 to 2 miles	22291		8
Greater than 2 to 3 miles	32861		12
Greater than 3 to 4 miles	34880		7
Total Secondary Population Value			211

Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
None		

Total Primary Sensitive Environments Value

*** Note : Maximum of 7 Sensitive Environments Are Printed***

Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
1 WETLANDS	0 - 1/4		2.5
2 WETLANDS	>1/4-1/2		0.1

Total Secondary Sensitive Environments Value

3

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GAF PARKING LOT SITE - 03/29/95

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SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	39
SURFACE WATER PATHWAY SCORE:	3
SOIL EXPOSURE PATHWAY SCORE:	3
AIR PATHWAY SCORE:	26
SITE SCORE:	24

SUMMARY

1. Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water? No

If yes, identify the well(s).

If yes, how many people are served by the threatened well(s)? 0

2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?
- A. Drinking water intake No
 - B. Fishery No
 - C. Sensitive environment (wetland, critical habitat, others) No

If yes, identify the target(s).

3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? No

If yes, identify the properties and estimate the associated population(s)

4. Are there public health concerns at this site that are not addressed by PA scoring considerations? No

If yes, explain:

PA-Score 2.1 Scoresheets
GAF PARKING LOT SITE - 03/29/95

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REFERENCE LIST