REFERENCE NUMBER 2

0000008

REVISED FINAL REPORT

for

SAMPLING AND ANALYTICAL INVESTIGATIONS

at the

STACK PROPERTY
22ND STREET
CHICAGO, ILLINOIS

Presented to:

Karaganis and White, Ltd.
Chicago, Illinois

Submitted by:

MAECORP Incorporated
Chicago, Illinois

November 13, 1989

Report #IL-A013

EPA Region 5 Records Ctr.
229814

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NOV 14 1989
IEPA/DLPC

INTRODUCTION

INTRODUCTION

MAECORP Incorporated was requested by Karaganis and White, Ltd. to perform environmental sampling of soil and groundwater on the Stack property located in North Chicago on 22nd Street, between Commonwealth Avenue and Tantallum Place.

The purposes of this environmental sampling were to determine what environmental contamination may be present and how the fire started this past year.

BORINGS AND MONITORING WELL INSTALLATION

BORINGS AND MONITORING WELL INSTALLATION

Four borings were installed at the Stack site on January 5 and 6, 1989. Drilling was performed by Fox Drilling under subcontract to MAECORP Incorporated. Boreholes for all wells were drilled with a hollow-stem auger through the glacial material. Drill bits, augers, split spoons and the drill rig were steam-cleaned between boreholes to prevent cross-contamination. MAECORP personnel were on site to determine the exact location of borings.

Split Spoon Sampling

Continuous split-spoon sampling was conducted with a drill rig for all borings. Sampling was conducted with a hardened steel split-spoon containing a basket spring retainer that was held in place by a removable nosepiece. An AW drill rod receptacle-driver head cap was threaded to the top of the 18-inch split-spoon barrel. Lengths of the drill rod were then attached to the assembled split spoon, and the split spoon was driven 18 inches. When the sampler had reached the target depth, the sampler was retrieved, opened, and the contents placed in discrete glass sample jars. Resultant soil cores were evaluated by the geologist on site. Boring logs are included in this report.

Monitoring Well Installation

Each monitoring well was installed upon completion of the borehole. The wells were constructed of 2-inch outside diameter, flush-jointed, Schedule 40 threaded PVC casing. All monitoring

wells were constructed with 5 feet of 2-inch outside diameter, 0.010-inch machine-slotted PVC screen. Five-foot lengths were used to ensure that the potentiometric surface is present in the screen.

The annular space surrounding the screened interval in each well was filled with a filter pack consisting of fine graded silica sand. Formational sands were also used to form the filter pack when caving could not be controlled. The filter pack extends from the bottom of the borehole to 1 foot above the screened-in area.

A 2-foot pelletized bentonite seal was placed above the filter sand, followed by cement grout to the surface. The lockable, flush-mount, steel protective casing was then installed into the cement.

All wells were surveyed for exact location and elevation by a licensed registered surveyor. Boring locations may be found in Figure 1, and detailed installation logs are included in this report for all borings and monitoring wells.

Sampling

Soil samples were collected on February 5 and 6, 1989. Samples were kept in a 40-ml glass VOA vial and a 1-quart glass jar with a teflon lid. Water samples were taken on February 17, 1989. Wells were purged of three volumes of water to ensure a representative sample. Samples were collected using a 24-inch teflon bailer and collected in one brown 1-quart jar, one clear

1-quart jar, and two 40-ml VOA vials. Samples were hand-delivered to Tenco Laboratories. Laboratory analysis reports and chain-of-custody records are attached.

Decontamination

The following procedures were used for all equipment which came in direct or indirect contact with sample materials:

1. Wiped off all visual foreign material with a laboratory wipe.
2. Washed with warm, soapy alconox water.
3. Rinsed with deionized water.
4. Air-dried.

BORINGS AND MONITORING WELLS

BORINGS AND MONITORING WELLS

Boring 1

The first boring was located on the south part of the property next to the stream and 22nd Street. The boring was sampled by split spoon to a depth of 10.5 feet. The boring was sealed with bentonite and concrete to prevent vertical migration of possible contaminants. Seven 18-inch split spoons were taken and analyzed individually in the field. A composite sample was sent to a laboratory for analysis. Composite soil analysis from Boring 1 was found to contain the following contaminants:

Parameter	Concentration (ppm)
Silver	5.08
Barium	53.10
Cadmium	0.677
Chromium	7.22
Mercury	0.417
Lead	221.00

Boring 2

The second boring was located east of the gravel road dividing the property. The boring was sampled to 10.5 feet. Seven 18-inch split spoons were taken and analyzed individually in the field. A composite sample was sent for laboratory analysis. Composite soil analysis from Boring 2 was found to contain the following contaminants:

Parameter	Concentration (ppm)
Silver	2.43
Barium	525.00
Cadmium	9.46
Chromium	12.80
Mercury	0.350
Lead	3881.00
Toluene	0.0429

Boring 3

The third boring was located at the perimeter of the burn area. The boring was sampled to 10.5 feet. Seven 18-inch split spoons were taken and analyzed individually in the field. A composite sample was sent for laboratory analysis. Composite soil analysis from Boring 3 was found to contain the following contaminants:

Parameter	Concentration (ppm)
Silver	16.30
Barium	42.10
Cadmium	0.683
Chromium	10.80
Mercury	0.089
Lead	295.00

Boring 4

The fourth boring was located in the center of the burn area. The boring was sampled to 10.5 feet. Seven 18-inch split spoons were taken and analyzed individually in the field. A composite sample was sent for laboratory analysis. Composite soil analysis from Boring 4 was found to contain the following contaminants:

Parameter	Concentration (ppm)
Silver	4.50
Barium	20.10
Chromium	8.60
Mercury	0.189
Lead	20.70
Methylene Chloride	0.0312
1,1,1-Trichloroethane	0.00512
Trichloroethene	0.0912
PCB, Aroclor 1254	2.25

MONITORING WELLS

MONITORING WELLS

Monitoring Well 1

Monitoring Well 1, located in the second boring, was located east of the gravel road dividing the property. The well consisted of a 5-foot PVC screen connected to a PVC riser. Total depth of the well from the ground surface is 12.5 feet, and depth to groundwater in the well from the top of the casing was 10.33 feet. The top of the casing is at 651.83 feet above mean sea level. The top of the water table was calculated at 641.50 feet above mean sea level.

Groundwater from Monitoring Well 1 (MW-1) was found to contain the following contaminants:

Parameter	Concentration (ppm)
Silver	0.018
Barium	0.558
Cadmium	0.006
Chromium	0.212
Mercury	0.0043
Lead	1.56
Selenium	0.016

Monitoring Well 2

Monitoring Well 2 was located at the perimeter of the burn area. The well consisted of a 5-foot PVC screen connected to a PVC riser. Total depth of the well from the ground surface is 12.5 feet, and depth to groundwater in the well from the top of the casing was 9.92 feet. The top of the casing is at 650.55 feet above mean sea level. The top of the water table was calculated at 640.63 feet above mean sea level.

Groundwater from Monitoring Well 2 (MW-2) was found to contain the following contaminants:

Parameter	Concentration (ppm)
Silver	0.015
Barium	0.451
Cadmium	0.004
Chromium	0.157
Mercury	0.0222
Lead	2.01
Selenium	0.02

Monitoring Well 3

Monitoring Well 3 was located in the center of the burn area. The well consisted of a 5-foot PVC screen connected to a PVC riser. Total depth of the well from the ground surface is 12.5 feet, and depth to groundwater in the well from the top of the casing was 8.92 feet. The top of the casing is at 651.38 feet above mean sea level. The top of the water table was calculated at 642.46 feet above mean sea level.

Groundwater from Monitoring Well 3 (MW-3) was found to contain the following contaminants:

Parameter	Concentration (ppm)
Silver	0.003
Barium	0.125
Chromium	0.019
Mercury	0.0001
Lead	0.019
Selenium	0.015

LABORATORY RESULTS

LABORATORY RESULTS

Off-site laboratory analysis of the soil samples was performed by Tenco Laboratories, subcontracted to MAECORP Incorporated. Each composite soil sample was analyzed for: volatile organics, polynuclear aromatic hydrocarbons, PCB's, and RCRA metals (see Tables 3, 4, and 5).

CONCLUSION

CONCLUSION

Investigations performed on site included visual observations, soil sampling, soil borings, and the installation and sampling of three PVC monitoring wells. Causes for the previous site fire and contamination identified in the soil samples appear to be the result of cinders which were disposed by an unknown party. Visual contaminants in the storm sewer discharge may originate from EMCO Chemical Distributors. Discolored effluent was witnessed by MAECORP personnel.

Soil boring 4 in the burn area contained burnt rubber, brick pieces, and burnt soil in the top 18 inches to 2 feet below grade. Combining this and previous evidence, it is very likely that the fire was not of a chemical nature and was limited to surficial vegetation and their root systems.

Groundwater at this site is contaminated by metals from an unknown source. Since the area is surrounded by metal processing facilities, an outside source is suspected.

DRINKING WATER STANDARDS

DRINKING WATER STANDARDS

WATER

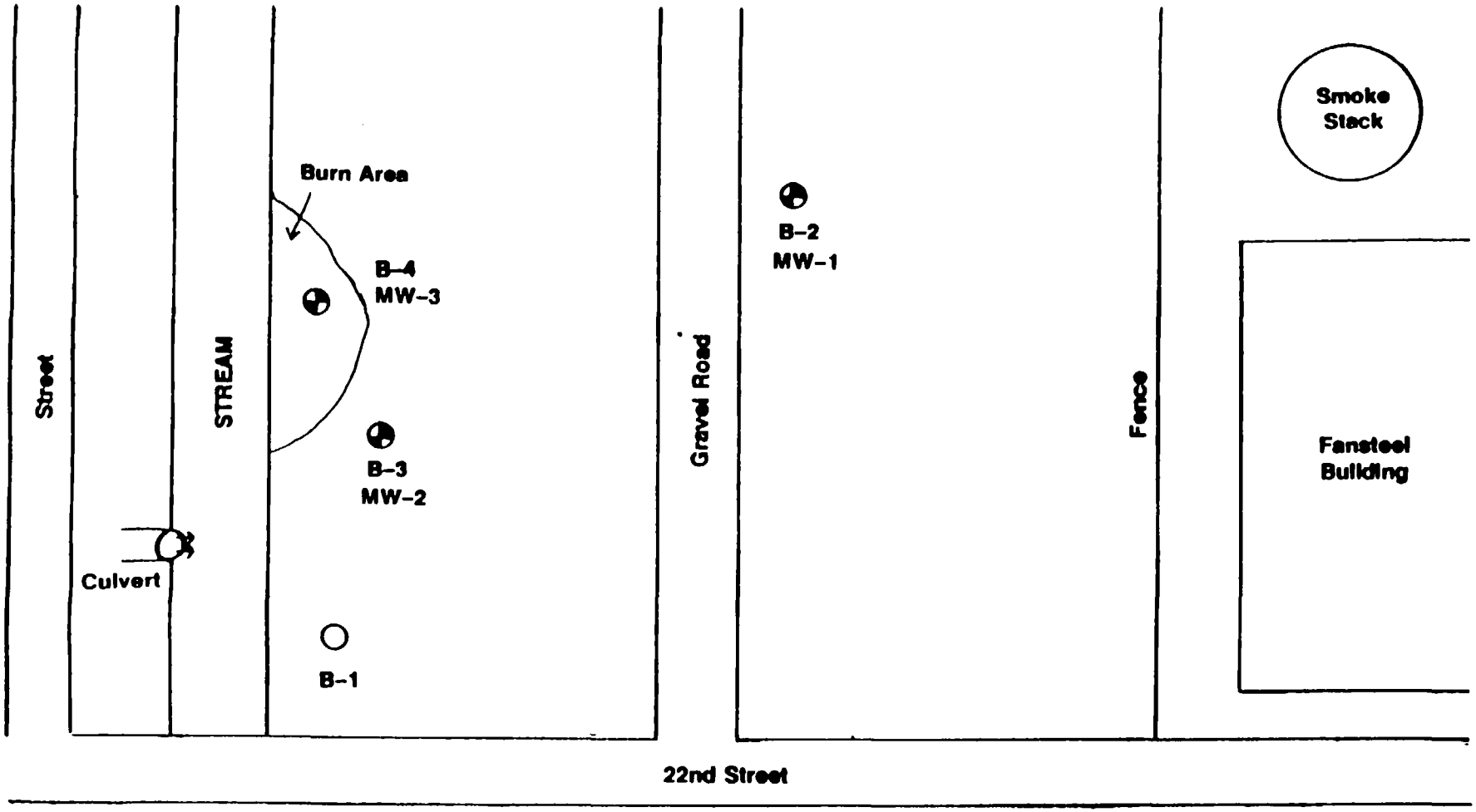
Parameter	Concentration (ppm)			
	Max Level*	MW-1	MW-2	MW-3
Silver	0.005	0.018	0.015	0.003
Barium	5.0	0.558	0.451	0.125
Cadmium	0.05	0.006	0.004	ND
Chromium	0.05	0.212	0.157	0.019
Mercury	0.0005	0.0043	0.0222	0.0001
Lead	0.1	1.56	2.01	0.019
Selenium	1.0	0.016	0.02	0.015

*General standards for the waters of the state of Illinois.

SOIL

Parameter	Concentration (ppm)				
	Max Level	B-1	B-2	B-3	B-4
Silver		5.08	2.43	16.3	4.5
Barium		53.1	525.0	42.1	26.9
Cadmium		0.677	9.46	0.683	ND
Chromium		7.22	12.8	10.8	8.60
Mercury		0.417	0.35	0.089	0.189
Lead		221.0	3881.0	295.0	20.7
Toluene		ND	0.0429	ND	ND
Methylene Chloride		ND	ND	ND	0.0312
1,1,1-Trichloroethane		ND	ND	ND	0.00512
Trichloroethene		ND	ND	ND	0.0912
PCB, Aroclor 1254		ND	ND	ND	2.25

N



KEY

- Monitoring Well Locations
- Boring Locations

MAECORP Incorporated		
SCALE: None	APPROVED BY: RL	DRAWN BY DCK
DATE: 1-20-89		REVISED
Boring and Well Locations		

IAWI JMBI

TABLE 2

COMPATABILITY TESTS

IL-A013

SAMPLE NUMBER	pH	BURNABILITY	HNU READING (ppm)	SOLUBILITIES WATER	HEXANE	METHANOL	ACETONE	OXIDIZER	PEROXIDE	CYANIDE	SULFID
B1-01	8	negative	0.4	S	PS	S	S	negative	negative	negative	negativ
B1-02	7	negative	0.4	S	PS	S	S	negative	negative	negative	negativ
B1-03	7	negative	0.4	S	NS	PS	PS	negative	negative	negative	negativ
B1-04	7	negative	0.0	S	NS	S	S	negative	negative	negative	negativ
B1-05	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B1-06	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B1-07	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B2-01	8	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B2-02	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B2-03	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B2-04	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B2-05	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B2-06	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B2-07	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B3-01	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B3-02	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B3-03	8	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B3-04	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B3-05	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B3-06	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B3-07	7	negative	0.4	S	NS	S	S	negative	negative	negative	negativ
B4-01	7	negative	7.0	PS	PS	PS	PS	negative	negative	negative	negativ
B4-02	7	negative	7.0	S	PS	S	S	negative	negative	negative	negativ
B4-03	7	negative	5.0	PS	NS	NS	NS	negative	negative	negative	negativ
B4-04	7	negative	4.0	PS	NS	PS	PS	negative	negative	negative	negativ
B4-05	7	negative	2.0	S	NS	S	S	negative	negative	negative	negativ
B4-06	7	negative	1.0	S	NS	S	S	negative	negative	negative	negativ
B4-07	7	negative	0.2	S	NS	S	S	negative	negative	negative	negativ

TENCO LABORATORIES

BPM INDUSTRIES
1150 Junction Avenue - Schererville, Indiana 46375
1-219-322-2560 ● 1-800-428-3311

REPORT TO:
Freddie Walker
MAECORP
17450 South Halsted
Homewood, IL 60430

Date: 1/23/89
Recd: 1/09/89
WO #: 21-0830

IL-A013
EPA METHOD 601,602,603

Laboratory Smp ID No.:	3527-9	3528-9	3529-9	3530-9	3531-9		
DESCRIPTION: —> less otherwise noted; ults in parts per lion - ppb] PARAMETERS:	IL-A013-B1-C1 Soil Boring 1	IL-A013-B2-C1 Soil Boring 2	IL-A013-B4-C1 Soil Boring 3	IL-A013-B4-C1 Soil Boring 4	IL-A013-B4-C2 Soil Boring 4		
ROLEIN	ND	ND	ND	ND	ND		
RYLONITRILE	ND	ND	ND	ND	ND		
NZENE	ND	ND	ND	ND	ND		
OMODICHLOROMETHANE	ND	ND	ND	ND	ND		
OMOFORM	ND	ND	ND	ND	ND		
OMOMETHANE	ND	ND	ND	ND	ND		
RBON TETRACHLORIDE	ND	ND	ND	ND	ND		
LOROBENZENE	ND	ND	ND	ND	ND		
LOROETHANE	ND	ND	ND	ND	ND		
-CHLOROETHYLVINYL ETHER	ND	ND	ND	ND	ND		
LOROFORM	ND	ND	ND	ND	ND		
LOROMETHANE	ND	ND	ND	ND	ND		
BROMOCHLOROMETHANE	ND	ND	ND	ND	ND		
,1-DICHLOROETHANE	ND	ND	ND	ND	ND		
,2-DICHLOROETHANE	ND	ND	ND	ND	ND		
,1-DICHLOROETHENE	ND	ND	ND	ND	ND		
rans-1,2-DICHLOROETHENE	ND	ND	ND	ND	ND		

ND=Not Detected at 5 ppb

TENCO LABORATORIES

BPM INDUSTRIES
1150 Junction Avenue - Schererville, Indiana 46375
1-219-322-2560 ● 1-800-428-3311

REPORT TO:

Freddie Walker
MAECORP
17450 South Halsted
Homewood, IL 60430

IL-A013
EPA METHODS 601,602,603

Date: 1/23/89
Recd: 1/09/89
WO #: 21-0830

Laboratory Smp ID No.:	3527-9	3528-9	3529-9	3530-9	3531-9		
DESCRIPTION: —> 'nless otherwise noted; sults in parts per llion - ppb) PARAMETERS: ↓	IL-A013-B1-C1 Soil Boring 1	IL-A013-B2-C1 Soil Boring 2	IL-A013-B4-C1 Soil Boring 3	IL-A013-B4-C1 Soil Boring 4	IL-A013-B4 C2 Soil Boring 4		
,2-DICHLOROPROPANE	ND	ND	ND	ND	ND		
is-1,3-DICHLOROPROPENE	ND	ND	ND	ND	ND		
rans,1,3-DICHLOROPROPENE	ND	ND	ND	ND	ND		
THYL BENZENE	ND	ND	ND	ND	ND		
ETHYLENE CHLORIDE	ND	ND	ND	31.2	ND		
,1,2,2-TETRACHLOROETHANE	ND	ND	ND	ND	ND		
ETRACHLOROETHENE	ND	ND	ND	ND	ND		
OLUENE	ND	42.9	ND	ND	ND		
,1,1-TRICHLOROETHANE	ND	ND	ND	ND	5.12		
,1,2-TRICHLOROETHANE	ND	ND	ND	ND	ND		
RICHLOROETHENE	ND	ND	ND	ND	91.2		
RICHLOROFLUOROMETHANE	ND	ND	ND	ND	ND		
INYL CHLORIDE	ND	ND	ND	ND	ND		

ND=Not Detected at 5 ppb.

TE..SO LABORATORIES
BPM INDUSTRIES
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REPORT TO:
Freddie Walker
MAECORP
17450 South Halsted
Homewood, IL 60430

Date: 1/23/89
Recd: 1/09/89
WO #: 21-0830

IL-A013

EPA METHODS 606,607,609,610,611,612

Laboratory Smp ID No.:	3527-9	3528-9	3529-9	3530-9	3531-9
ample Description Unless otherwise noted, results in ppb	IL-A013-B1-C1 Soil Boring 1	IL-A013-B2-C1 Soil Boring 2	IL-A013-B3-C1 Soil Boring 3	IL-A013-B4-C1 Soil Boring 4	IL-A013-B4-C2 Soil Boring 4
CENAPHTHENE	ND	ND	ND	ND	ND
CENAPHTHYLENE	ND	ND	ND	ND	ND
NTHRACENE	ND	ND	ND	ND	ND
ENZIDINE	ND	ND	ND	ND	ND
ENZO(A)ANTHRACENE	ND	ND	ND	ND	ND
ENZO(A)PYRENE	ND	ND	ND	ND	ND
ENZO(B)FLUORANTHENE	ND	ND	ND	ND	ND
ENZO(K)FLUORANTHENE	ND	ND	ND	ND	ND
ENZO(G,H,I)PERYLENE	ND	ND	ND	ND	ND
ENZYL BUTYL PHTHALATE	ND	ND	ND	ND	ND
IS(2-CHLOROETHYOXY)METHANE	ND	ND	ND	ND	ND
IS(2-CHLOROETHYL)ETHER	ND	ND	ND	ND	ND
IS(2-CHLOROISOPROPYL)ETHER	ND	ND	ND	ND	ND
IS(2-ETHYLHEXYL)PHTHALATE	ND	ND	ND	ND	ND
-BROMOPHENYL PHENYL ETHER	ND	ND	ND	ND	ND
-CHLORONAPHTHALENE	ND	ND	ND	ND	ND
-CHLOROPHENYL PHENYL ETHER	ND	ND	ND	ND	ND
HRYSENE	ND	ND	ND	ND	ND
IBENZO(A,H)ANTHRACENE	ND	ND	ND	ND	ND

ND=Not Detected at 100 ppb.

Certified by: [signature]

TENCO LABORATORIES

BPM INDUSTRIES
1150 Junction Avenue - Schererville, Indiana 46375
1-219-322-2560 ● 1-800-428-3311

REPORT TO:
Freddie Walker
MAECORP
17450 South Halsted
Homewood, IL 60430

IL-A013

Date: 1/23/89
Recd: 1/09/89
WO #: 21-0830

EPA METHODS 606,607,609,610,611,612

Laboratory Smp ID No.:	3527-9	3528-9	3529-9	3530-9	3531-9
Sample Description Unless otherwise noted, results in ppb	IL-A013-B1-C1 Soil Boring 1	IL-A013-B2-C1 Soil Boring 2	IL-A013-B3-C1 Soil Boring 3	IL-A013-B4-C1 Soil Boring 4	IL-A013-B4-C2 Soil Boring 4
,2-DICHLOROBENZENE	ND	ND	ND	ND	ND
,3-DICHLOROBENZENE	ND	ND	ND	ND	ND
,4-DICHLOROBENZENE	ND	ND	ND	ND	ND
,3-DICHLOROBENZIDINE	ND	ND	ND	ND	ND
IETHYLPHTHALATE	ND	ND	ND	ND	ND
IMETHYLPHTHALATE	ND	ND	ND	ND	ND
I-N-BUTYLPHTHALATE	ND	ND	ND	ND	ND
,4-DINITROTOLUENE	ND	ND	ND	ND	ND
,6-DINITROTOLUENE	ND	ND	ND	ND	ND
I-N-OCTYLPHTHALATE	ND	ND	ND	ND	ND
LUORANTHENE	ND	ND	ND	ND	ND
LUORENE	ND	ND	ND	ND	ND
EXACHLOROBENZENE	ND	ND	ND	ND	ND
EXACHLOROBUTADIENE	ND	ND	ND	ND	ND
EXACHLOROCYCLOPENTADIENE	ND	ND	ND	ND	ND
EXACHLOROETHANE	ND	ND	ND	ND	ND
NDENO (1,2,3-CD)PYRENE	ND	ND	ND	ND	ND

ND=not Detected at 100 ppb.

Certified by: [signature]

BPM INDUSTRIES
1150 Junction Avenue - Schererville, Indiana 46375
1-219-322-2560 ● 1-800-428-3311

REPORT TO:

Freddie Walker
MAECORP
17450 South Halsted
Homewood, IL 60430

Date: 1/23/89
Recd: 1/09/89
WO #: 21-0830

IL-A013

Laboratory Smp ID No.:	3527-9	3528-9	3529-9	3530-9	3531-9		
DESCRIPTION: --> (Unless otherwise noted; results in parts per million - ppm) PARAMETERS: ↓	IL-A013-B1-C1 Soil Boring 1	IL-A013-B2-C1 Soil Boring 2	IL-A013-B3-C1 Soil Boring 3	IL-A013-B4-C1 Soil Boring 4	IL-A013-B4-C2 Soil Boring4		
Arsenic	<0.01	<0.01	<0.01	<0.01	<0.01		
Silver	5.08	2.43	16.3	1.75	4.50		
Mercury	0.417	0.350	0.089	0.189	0.023		
Lead	221	3881	295	20.7	<0.01		
Selenium	<0.01	<0.01	<0.01	<0.01	<0.01		
Chromium	7.22	12.8	10.8	5.35	8.60		
Cadmium	0.677	9.46	0.683	<0.002	<0.002		
Barium	53.1	525	42.1	20.1	26.9		

Certified by: [signature]

.ENC.. L..OF..TOR..S
BPM INDUSTRIES
1150 Junction Avenue - Schererville, Indiana 46375
1-219-322-2560 ● 1-800-428-3311

REPORT TO:
Freddie Walker
MAECORP
17450 South Halsted
Homewood, IL 60430

IL-A013

EPA METHOD SW 846-8080

Date: 1/23/89
Recd: 1/09/89
WO #: 21-0830

Laboratory Smp ID No.:	3527-9	3528-9	3529-9	3530-9	3531-9		
DESCRIPTION: (Unless otherwise noted, results in milligram/kilogram - mg/kg) PARAMETERS	IL-A013-B1-C1 Soil Boring 1	IL-A013-B2-C1 Soil Boring 2	IL-A013-B3-C1 Soil Boring 3	IL-A013-B4 C1 Soil Boring 4	IL-A013-B4-C2 Soil Boring 4		
PCB's as:							
AROCHLOR 1016	ND	ND	ND	ND	ND		
AROCHLOR 1221	ND	ND	ND	ND	ND		
AROCHLOR 1232	ND	ND	ND	ND	ND		
AROCHLOR 1242	ND	ND	ND	ND	ND		
AROCHLOR 1248	ND	ND	ND	ND	ND		
AROCHLOR 1254	ND	ND	ND	0.238	2.25		
AROCHLOR 1260	ND	ND	ND	ND	ND		

ND=Not Detected at 0.10 mg/kg.

Certified by: [signature]

Sample Number
139455

10
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Laboratory Name: Gulf Coast Laboratories, Inc.
Contract:
Lab Code: WesIL Case No.:
SAS No.: SDG No.:
Matrix: (soil/water) Water
Lab Sample ID:
Sample weight/volume: 880 (g/ml) ML
Lab File ID:
Level: (low/medium)
Date Received:
% Moisture: (Not Dec.) NA dec.
Date Extracted: 9/8/88
Extraction: (SepF/Con/Sonc) SEPF
Date Analyzed: 9/14/88
GPC Cleanup: (Yes/No) NO pH 7
Dilution Factor: 1

CAS #	COMPOUND	CONCENTRATION UNITS ug/l	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.5	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
	Total PCBs	1.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMP

139455

Lab Name: GULF COAST LABORATORIES Contract: 000

Lab Code: WESIL Case No.: ---- SAS No.: ---- SDG No.: ----

Matrix: (soil/water) water Lab Sample ID: 139455

Sample wt/vol: 5 (g/mL) mL Lab File ID: >MAE01

Level: (low/med) low Date Received: 9/06/88

% Moisture: not dec.____ Date Analyzed: 9/14/88

Column: (pack/cap) pack Dilution Factor: 1.000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	54.	
67-64-1	Acetone	25.	
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	52.	
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	19.	
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	
133-02-7	Xylene (total)	5.	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

139455

Lab Name: GULF COAST LABORATORIES Contract: 000

Lab Code: WESIL Case No.: ---- SAS No.: ---- SDG No.: ----

Matrix: (soil/water) water Lab Sample ID: 139455

Sample wt/vol: 5 (g/mL) mL Lab File ID: >MAE01

Level: (low/med) low Date Received: 9/06/88

% Moisture: not dec. Date Analyzed: 9/14/88

Column: (pack/cap) pack Dilution Factor: 1.00000

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
107-02-8	Acrolein	100.	U
107-13-1	Acrylonitrile	100.	U
75-71-8	Dichlorodifluoromethane	20.	U
542-88-1	Bis(chloromethyl)ether	20.	U
75-69-4	Trichlorofluoromethane	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

139455

Lab Name: GULF COAST LABS Contract: -----

Lab Code: WESIL Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 139455

Sample wt/vol: 850 (g/mL) mL Lab File ID: >MAE50

Level: (low/med) LOW Date Received: 09/06/88

% Moisture: not dec.- dec. - Date Extracted: 09/07/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/19/88

GPC Cleanup: (Y/N) NO pH: ---- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)Ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-Di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

139455

Lab Name: GULF COAST LABS Contract: -----

Lab Code: WESIL Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 139455

Sample wt/vol: 850 (g/mL) mL Lab File ID: >MAE50

Level: (low/med) LOW Date Received: 09/06/88

% Moisture: not dec.- dec. - Date Extracted: 09/07/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/19/88

GPC Cleanup: (Y/N) NO pH: ---- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	1.	J
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	11.	B
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenzo(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

139455

ɔ Name: GULF COAST LABS Contract: -----

Code: WESIL Case No.: ----- SAS No.: ----- SDG No.: ------

trix: (soil/water) WATER Lab Sample ID: 139455

...ple wt/vol: 850 (g/mL) ML Lab File ID:)MAE50

: el: (low/med) LOW Date Received: 09/06/88

Moisture: not dec.- dec. - Date Extracted: 09/07/88

: raction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 09/19/88

PC Cleanup: (Y/N) NO pH: ---- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
	N-Nitrosodimethylamine	10.	U
	1,2-Diphenylhydrazine	10.	U
	Benzidine	100.	U
	3-Methylphenol (1)	10.	U
	Dioxin (2)	NA	

(1) Screened by MC4 108,107,79 Ion Search.
(2) Screened by Method 625. Federal Register 49:209.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

139455

Lab Name: GULF COAST LABS Contract: -----

Lab Code: WESIL Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 139455

Sample wt/vol: 850 (g/mL) ML Lab File ID: >MAE50

Level: (low/med) LOW Date Received: 09/06/88

% Moisture: not dec.- dec. - Date Extracted: 09/07/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/19/88

GPC Cleanup: (Y/N) NO pH: ---- Dilution Factor: 1.00000

Number TICs found: 13 CONCENTRATION UNITS: (ug/L OR ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.62	10	J B
2.		1,1,2,2-TETRACHLOROETHANE	8.52	6	J
3.		UNKNOWN	8.66	48	J B
4.		UNKNOWN	8.98	10	J
5.		UNKNOWN	9.43	80	J
6.		UNKNOWN	12.51	7	J
7.		UNKNOWN	17.11	6	J
8.		UNKNOWN	17.40	6	J
9.		UNKNOWN	17.60	6	J
10.		UNKNOWN	24.18	5	J
11.		UNKNOWN	28.84	17	J
12.		UNKNOWN	36.78	6	J
13.		UNKNOWN	37.42	5	J
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1150 Junction Avenue - Schererville, Indiana 46375
1-219-322-2560 ● 1-800-428-3311

REPORT TO:
Freddie Walker
MAECORP
17450 South Halsted
Homewood, IL 60430

Date: 2/28/89
Recd: 2/20/89
WO #: 21-1171

PROJECT IL-A013

Laboratory Smp ID No.:	4360-9	4361-9	4362-9	4363-9			
DESCRIPTION: —> [Unless otherwise noted; results in parts per million - ppm] PARAMETERS: ↓	BLK 1:10 pm 2/17/89	MW1 12:40 pm 2/17/89	MW2 1:45 am 2/17/89	MW3 1:00 pm 2/17/89			
Silver	<0.002	0.018	0.015	0.003			
Arsenic	<0.010	<0.010	<0.010	<0.010			
Barium	<0.050	0.558	0.451	0.125			
Cadmium	<0.002	0.006	0.004	<0.002			
Chromium	<0.004	0.212	0.157	0.019			
Mercury	<0.0001	0.0043	0.0222	0.0001			
Lead	<0.009	1.56	2.01	0.019			
Selenium	<0.01	0.016	0.02	0.015			
TOC	<1	59	39.6	11.3			

MAECORP INCORPORATED
QA/QC R... NO
QA/QC A... NO
DATE 03-03-89
SIGNED [signature]

Certified by: [signature]

1-219-322-2560 ● 1-800-428-3311

REPORT TO:
Freddie Walker
MAECORP INC
17450 S Balsted St
Homewood IL 60430

Date: 3/08/89
Recd: 2/20/89
WO #: 21-1171

EPA METHOD 608 PROJECT IL A013

Laboratory Smp ID No.:	4360-9	4361-9	4362-9	4363-9			
DESCRIPTION: —> (Unless otherwise noted; results in parts per billion - ppb) PARAMETERS: ↓	BLK 1:10 pm 2/17/89	MW1 12:40 pm 2/17/89	MW2 1:45 am 2/17/89	MW3 1:00 pm 2/17/89			
PCB's as:							
AROCHLOR 1016	ND	ND	ND	ND			
AROCHLOR 1221	ND	ND	ND	ND			
AROCHLOR 1232	ND	ND	ND	ND			
AROCHLOR 1242	ND	ND	ND	ND			
AROCHLOR 1248	ND	ND	ND	ND			
AROCHLOR 1254	ND	ND	ND	ND			
AROCHLOR 1260	ND	ND	ND	ND			
					NO		
					ND		
					03-08-89		
					Freddie Walker		

ND=Not Detected at 1ppb

Certified by: Sheila St Amour

1150 Junction Avenue - Schererville, Indiana 46375
1-219-322-2560 ● 1-800-428-3311

REPORT TO:
Freddie Walker
MAECORP
17450 South Halsted
Homewood, IL 60430

Date: 2/28/89
Recd: 2/20/89
WO #: 21-1171

PROJECT IL-A013

Laboratory Smp ID No.:	4360-9	4361-9	4362-9	4363-9			
DESCRIPTION: —> [Unless otherwise noted; results in parts per billion - ppb] PARAMETERS: ↓	BLK 1:10 pm 2/17/89	MW1 12:40 pm 2/17/89	MW2 1:45 am 2/17/89	MW3 1:00 pm 2/17/89			Detectio Limits
Acenapthene	ND	ND	ND	ND			18 ppb
Acenapthylene	ND	ND	ND	ND			10 ppb
Anthracene	ND	ND	ND	ND			6.6 ppb
Benzo(a)anthracene	ND	ND	ND	ND			0.13 ppb
Benzo(b)fluoranthene	ND	ND	ND	ND			0.18 ppb
Benzo(a)pyrene	ND	ND	ND	ND			0.23 ppb
Benzo(ghi)perylene	ND	ND	ND	ND			0.76 ppb
Benzo(k)fluoranthene	ND	ND	ND	ND			1.5 ppb
Chrysene	ND	ND	ND	ND			1.5 ppb
Dibenzo(a,h)anthracene	ND	ND	ND	ND			0.3 ppb
Fluoranthene	ND	ND	ND	ND			2.1 ppb
Fluorene	ND	ND	ND	ND			2.1 ppb
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND			0.43 ppb
Napthalene	ND	ND	ND	ND			10 ppb
Phenanthrene	ND	ND	ND	ND			6.4 ppb
Pyrene	ND	ND	ND	ND			2.7 ppb

ND=Not Detected

Certi. by:

TENCO LABORATORIES

BPM INDUSTRIES
1150 Junction Avenue - Schererville, Indiana 46375
1-219-322-2560 ● 1-800-428-3311

REPORT TO:
Freddie Walker
MAECORP
17450 South Halsted
Homewood, IL 60430

PROJECT IL-A013

EPA METHOD 601,602,603

Date: 2/28/89
Recd: 2/20/89
WO #: 21-1171

Laboratory Smp ID No.:	4360-9	4361-9	4362-9	4363-9			
DESCRIPTION: —> (Unless otherwise noted; results in parts per billion - ppb)	BLK	MW1	MW2	MW3			
	1:10 pm	12:40 pm	1:45 am	1:00 pm			
PARAMETERS: ↓	2/17/89	2/17/89	2/17/89	2/17/89			
ACROLEIN	ND	ND	ND	ND			
ACRYLONITRILE	ND	ND	ND	ND			
BENZENE	ND	ND	ND	ND			
BROMODICHLOROMETHANE	ND	ND	ND	ND			
BROMOFORM	ND	ND	ND	ND			
BROMOMETHANE	ND	ND	ND	ND			
CARBON TETRACHLORIDE	ND	ND	ND	ND			
CHLOROBENZENE	ND	ND	ND	ND			
CHLOROETHANE	ND	ND	ND	ND			
2-CHLOROETHYLVINYL ETHER	ND	ND	ND	ND			
CHLOROFORM	ND	ND	ND	ND			
CHLOROMETHANE	ND	ND	ND	ND			
DIBROMOCHLOROMETHANE	ND	ND	ND	ND			
1,1-DICHLOROETHANE	ND	ND	ND	ND			
1,2-DICHLOROETHANE	ND	ND	ND	ND			
1,1-DICHLOROETHENE	ND	ND	ND	ND			
trans-1,2-DICHLOROETHENE	ND	ND	ND	ND			

ND

BPM INDUSTRIES
1150 Junction Avenue - Schererville, Indiana 46375
1-219-322-2560 ● 1-800-428-3311

REPORT TO:
Freddie Walker
MAECORP
17450 South Halsted
Homewood, IL 60430

PROJECT IL-A013
EPA METHODS 601,602,603

Date: 2/28/89
Recd: 2/20/89
WO #: 21-1171

Laboratory Smp ID No.:	4360-9	4361-9	4362-9	4363-9			
DESCRIPTION: ——> (Unless otherwise noted; results in parts per billion - ppb)	BLK 1:10 pm	MW1 12:40 pm	MW2 1:45 am	MW3 1:00 pm			
PARAMETERS: ↓	2/17/89	2/17/89	2/17/89	2/17/89			
1,2-DICHLOROPROPANE	ND	ND	ND	ND			
cis-1,3-DICHLOROPROPENE	ND	ND	ND	ND			
trans,1,3-DICHLOROPROPENE	ND	ND	ND	ND			
ETHYL BENZENE	ND	ND	ND	ND			
METHYLENE CHLORIDE	ND	ND	ND	ND			
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	ND			
TETRACHLOROETHENE	ND	ND	ND	ND			
TOLUENE	ND	ND	ND	ND			
1,1,1-TRICHLOROETHANE	ND	ND	ND	ND			
1,1,2-TRICHLOROETHANE	ND	ND	ND	ND			
TRICHLOROETHENE	ND	ND	ND	ND			
TRICHLOROFLUOROMETHANE	ND	ND	ND	ND			
VINYL CHLORIDE	ND	ND	ND	ND			

ND=Not Detected at 1 ppb.

MAECORP INCORPORATED
17450 S. Halsted Street
Homewood, IL 60430

CHAIN-OF-CUSTODY RECORD

CHAIN-OF-CUSTODY № 003668

RECEIVING ENTITY Tenco

ENTITY CONTACT/PHONE _____ / _____

MAECORP JOB SITE PHONE _____

PROJECT LOCATION	NAME OF CLIENT	PROJECT TELEPHONE NUMBER	PROJECT NUMBER
North Chicago	Northern Trust Bank		IL-A013

ITEM NUMBER	SAMPLE NUMBER	NUMBER & SIZE OF CONTAINERS	DESCRIPTION	TRANSFER NUMBER & CHECK 1	2	3	4	5	6	7
1	IL-A013-B1-C1	1-Qt Jar 1-250ml Amber Jar 7-VOA Vials 1-250ml Jar	Soil Composite from Boring 1 7 VOA vials w/ sample # IL-A013-B1-01 to 07 make up IL-A013-B1-C1 (Please composite them)	✓						
2	IL-A013-B2-C1	"	Soil Composite from Boring 2 7 VOA vials w/ sample # IL-A013-B2-01 to 07 make up IL-A013-B2-C1 (Please composite them)	✓						
3	IL-A013-B3-C1	"	Soil Composite from Boring 3 7 VOA vials w/ sample # IL-A013-B3-01 to 07 make up IL-A013-B3-C1 (Please composite them)	✓						
4	IL-A013-B4-C1	"	Soil Composite from Boring 4 7 VOA vials w/ sample # IL-A013-B4-01 to 07 make up IL-A013-B4-C1 (Please composite them)	✓						
5	IL-A013-B4-C2	1-Qt Jar 1-250ml Amber Jar 1-250ml Jar	Soil Composite from Boring 4	✓						

Send results to
Freddie Walker
c/o MAECORP
PO# 25919-ILA013

Person Responsible for Sample	Affiliation	Date	Time
Katie Dignan	MAECORP	1/2/89	1:30PM

Purpose of analysis (use back of front sheet if necessary)

VOC's PCB's
PNA's
8 RCRA Metals (tot)

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	1-5	Katie Dignan			
2					
3					
4					
5					
6					
7					

MAECORP INCORPORATED
17450 S. Halsted Street
Homewood, IL 60430

CHAIN-OF-CUSTODY RECORD

CHAIN-OF-CUSTODY № 004793

RECEIVING ENTITY [illegible]

ENTITY CONTACT/PHONE _____ / _____ MAECORP JOB SITE PHONE _____

PROJECT LOCATION	NAME OF CLIENT	PROJECT TELEPHONE NUMBER	PROJECT NUMBER
[illegible] Chicago	Northern Trust Bank		[illegible]

ITEM NUMBER	SAMPLE NUMBER	NUMBER & SIZE OF CONTAINERS	DESCRIPTION	TRANSFER NUMBER & CHECK 1	2	3	4	5	6	7
1	[illegible]	2 [illegible] 1 lgt [illegible] 1 lgt Amber	water							
3	[illegible]	2 [illegible] 1 lgt glass 1 lgt Amber	"							
5	[illegible]	2 [illegible] 1 lgt glass 1 lgt Amber								
4	[illegible]	1 qt Jar 1 [illegible]	[illegible] Blank							
5	[illegible]	[illegible]	[illegible]							

MAECORP INCORPORATED
DATE RECEIVED _____
DATE CHECKED _____

Person Responsible for Sample	Affiliation	Date	Time
[illegible]	[illegible]	[illegible]	[illegible]

Purpose of analysis (use back of front sheet if necessary)
PNA (610)
[illegible]
[illegible]
[illegible] metals
[illegible] (601, 602, 603, 604, 605, 607, 611, 612)

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2					
3					
4					
5					
6					
7					