APPENDIX D

BEST ENVIRONMENTAL, "FINAL REPORT, ENVIRONMENTAL ASSESSMENT", OCTOBER 1990

BEST

Environmental, Inc.

Final Report

Environmental Assessment

The Torrington Company
Bantam Bearing Division Plant
South Bend, Indiana

October 1990

Prepared For:
Urban Enterprise Association of South Bend, Inc.
South Bend, Indiana

Best Environmental Services & Technology

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FINAL REPORT

ENVIRONMENTAL ASSESSMENT
TORRINGTON SITE
3702 W. SAMPLE STREET
SOUTH BEND, IN

PREPARED FOR
URBAN ENTERPRISE ASSOCIATION OF SOUTH BEND

OCTOBER 1990

BEST ENVIRONMENTAL, INC.

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1.0 INTRODUCTION

BEST Environmental, Inc. was retained by Urban Enterprise Association of South Bend, Inc. to assess potential environmental concerns at the Torrington Company's Bantam Bearing Division plant in South Bend, Indiana. BEST was also requested to recommend remediation deemed necessary and to provide cost estimates for such remediation activities.

1.1 REVIEW

In 1983, the Torrington Company elected to close its South Bend plant located at 3702 W. Sample Street. The site consists of approximately fifteen acres and contains a 352,000 square foot plant and associated outbuildings. Torrington elected to undertake several assessments to determine any environmental problems on the site. An initial assessment was conducted in early 1984 by Environmental Instrument Systems, Inc. (EIS). EIS sampled the two plant production wells, and the water and sediments from the five ponds on the site. Two volatile organic compounds were detected at low levels in the production wells and one volatile organic compound was detected at 70 ppm in the sediments of pond #4.

Canonie Engineers performed a more detailed study in 1984. Canonie sampled the water and sediments of the five ponds as well as the two production wells. In addition, eight monitoring wells were installed and sampled (W1-W5, W-7, W-8, S-3) and soil samples were taken near the southwest corner of the plant. Volatile organic compounds were found in several of the monitoring wells with highest concentrations at W-4 and S-3. Volatile organic compounds were also detected in the sediments of pond #5. The production well contamination was not demonstrated in the Canonie study. Extensive volatile organic contamination was found in most of the soil borings taken near the southwest side of the plant near S-3 and W-4. As a result of these findings, several underground and above ground storage tanks and associated piping were removed. Leaking piping was determined to be the cause of the soil contamination near S-3 and W-4. Remediation was performed in 1986 involving the removal of 1600 yards of contaminated soil from the impacted area.

In 1986 Harza Engineering performed investigations at the site to verify the results of previous sampling programs. Harza sampled several of the monitoring wells as well as sediments from ponds #4 and #5. Harza confirmed volatile organic contamination at similar levels at S-3 and W-4 and also confirmed volatile organic contamination in sediments of ponds #4 and #5.

In October 1989 Torrington and Urban Enterprise Association of South Bend, Inc. (UEA) began negotiations for transfer of ownership of the property to UEA, in conjunction with the Neighborhood Business Development Corporation (NBDC). UEA, as part of its agreement with Torrington, elected to conduct additional investigations of the property in an attempt to define potential liabilities associated with the site. BEST Environmental, Inc. was retained in June, 1990 to conduct additional sampling and analysis as well as to provide remediation recommendations and associated cost estimates.

1.2 PURPOSE AND SCOPE

Based on a review of previous studies at the site, it was decided by UEA to address certain areas within the plant not previously studied and to confirm past analysis results at various groundwater monitoring well locations. This assessment addresses potential environmental contamination at the following locations:

a. Beneath the concrete floor around areas associated with past operation processes in the main building, foundry and solvent still building.

b. Existing pit contents, main building.

c. Paint chips from machine shop and heat treat areas.

d. Groundwater from monitoring wells with evidence of contamination indicated in previous studies.

2.0 SITE INVESTIGATION

The site investigation was conducted August 6 through 10, and September 10, 1990. The investigation was comprised of four parts: corings and soil samples beneath the plant floor at select locations, pit contents sampling, paint chip sampling from two areas in the main building, installation of one monitoring well and sampling of the installed well and three existing wells.

2.1 FLOOR CORINGS

Thirty-one (31) corings were installed through the concrete floor of the main building, foundry and solvent still building . Coring locations were selected on the basis of previous process equipment locations and other indications of potential contamination sources. Soil samples were collected from each coring hole to a depth ~~of 18~~ inches. Each sample was analyzed for RCRA contaminants. (Table 4).

Sources of pollution NOTE

2.2 PIT CONTENTS

Twenty-one (21) individual pits were sampled from the main plant building and composited into 10 samples for RCRA analysis (Table 4). Samples containing all solids were analyzed for toxic characteristics (TCLP) in anticipation of land ban regulations.

Why? contents? TCLP what?

2.3 PAINT CHIPS

Two paint chip composite samples were collected from the main building. One composite each was collected from the machine shop and heat treat areas. Paint chip samples were analyzed for 8 RCRA metals (Table 4).

2.4 GROUNDWATER MONITORING WELLS

Monitoring well S-3, located on the southwest portion of the property (Figure 1), was destroyed during past soil remediation activities. Previous sampling analysis from this well indicated suspect contaminant levels and was deemed necessary for this assessment. BEST reinstalled well (B) S-3 and included it in the sampling plan (See Appendix C).

BEST sampled two (2) wells (W-4 and S-3) with past histories of contamination from the areas described as the primary source of groundwater contamination on the site. Wells W-1 and W8 were also sampled as a means of representing apparent down gradient groundwater. W-1, W4 and S-3 were sampled twice at 30 day intervals (August 9 and September 10, 1990). The well samples were analyzed for priority pollutants (Table 4). Well W-8 was sampled once on October 11, 1990 and was analyzed only for volatiles.

2.5 LABORATORY ANALYSIS

All samples collected during this investigation were analyzed by Environmental Consultants, Inc. (ECI), Clarksville, Indiana. The samples were iced down in coolers for transport by special courier for next day delivery to the lab. Chain-of-custody procedures were utilized to ensure proper quality control of sample handling. ECI is a State of Indiana certified laboratory.

Laboratory data sheets for all analysis performed are contained in Appendix B.

3.0 ENVIRONMENTAL ASSESSMENT

3.1 Plant Floor Corings

The laboratory test results for corings B1 through B31 indicated that no localized subfloor contaminants were detected at any of the coring locations in the main building, foundry and solvent still building (Figure 1). Based on these findings, no remedial action will be required in those areas tested.

3.2 Pit Contents

A data summary of the 10 pit samples is found in Table 1. Laboratory analysis indicated that only one of the pit samples (P3) showed RCRA hazardous characteristics. Barium metal was detected in P3 at 126 ppm (TCLP) * which exceeds the regulatory level of 100 ppm. The contents of P3 will require disposal at a licensed hazardous waste treatment, storage and disposal facility (TSD).

Analysis of pit samples P2, P6 and P8, which represent nine pits and contents, indicated that no RCRA contaminants were detected which characterize the waste as "hazardous". All of these pit contents, however, were visually stained with oils or other process liquids. The visual contamination, together with the association with industrial processes, tend to categorize this waste as non-hazardous "special waste". State of Indiana regulations would therefore stipulate proper disposal.

Results of pits P5, P7 and P10 (5 total pits) also indicated no levels of RCRA contaminants that would characterize the waste as "hazardous". These pits contained water, oils, other liquids and sludges that would also require disposal at a special waste approved facility.

* Toxic Characteristic Leachate Procedure

Pits P1 and P9 contain water only which may have originated from roof leaks and other infiltration. Analysis indicated no RCRA contaminants. The water from these 3 pits may be amenable to discharge to the city sewer. The city wastewater treatment plant should be contacted and respective analyses offered prior to discharge.

Pit P4 (3 pits) appears to contain only sand with no visual contamination. Laboratory analysis indicated no RCRA contaminant levels in this sample. The contents of these pits may be disposed in a sanitary landfill.

3.3 Paint Chips

Metal-containing pigments were often constituents of industrial paints and coatings. The heat treat and machine shop areas of the main building contain large areas of peeling paint from beams, ceilings and walls. Much of this paint has fallen to the floor in these areas. Results of laboratory analysis for PP1 (heat treat) did not indicate levels of the 8 RCRA metals above the regulatory limits (Table 2).

Sample PP2, composited from the machine shop, however, indicated a lead level of 32.2 ppm E.P. Toxic *. The regulatory level for lead is 5 ppm. Based on this analysis, the paint chips from the machine shop may require disposal as a hazardous waste.

3.4 Groundwater Monitoring Wells

Volatile organic compounds were the only priority pollutants found in the monitoring well samples W-1, W-4 and S-3. No other priority pollutants were detected in any of the well samples. Table 3 shows comparison results from monitoring well samples from past assessment studies as well as this investigation. In particular, halogenated organic volatile compounds are the important contaminants that show a history of presence in the wells.

Well W-4: BEST sampling confirmed the presence of 1, 1-Dichloroethane, Chloroethane and particularly 1, 1, 1-Trichloroethane (TCA), which was detected in all three studies at comparable concentrations.

* Extraction Procedure Toxic

Well S-3: BEST found relatively high levels of 1, 1-Dichloroethane, 1, 1, 1-Trichloroethylene, and cis-1, 2-Dichloroethene, the former two at concentrations similar to the 1984 Canonie study. Harza found lower concentrations of these contaminants. BEST samples detected several more halogenated organic compounds at S-3 not detected in either of the previous studies.

Harza found lower

Well W-1: BEST results indicated the presence of 1, 1-Dichloroethane (DCA) and 1, 1, 1-Trichloroethane. Previous studies did not detect any volatile organic compounds at W-1.

Well W-8: BEST results indicated non-detectable levels of volatiles at this location. Canonie study also indicated absence of detectible volatiles at W-8.

4.0 SUMMARY AND CONCLUSIONS

In August and September, 1990, BEST Environmental, Inc. investigated potential contamination from beneath the floor of the main plant building, foundry and solvent still building. Pit contents and paint chip samples from the main building as well as groundwater monitoring well samples were also analyzed. The primary findings of the investigation were:

1. No localized subsurface contamination was found at any of the 31 coring locations sampled.

2. Pit contents analysis indicated one pit sample characterized as a RCRA hazardous waste, 6 pit samples characterized as non-hazardous but requiring "special waste" disposal, and 3 pit samples characterized as non-hazardous and either amenable to city sewer discharge or not requiring disposal as waste.

petro

3. Paint chip analysis indicated no RCRA metals present in sample collected from the heat treat area. The sample collected from the machine shop contained E.P. Toxic lead concentrations exceeding the regulatory level. Paint chips from this area may require disposal as hazardous waste.

4. Volatile organic compounds and particularly halogenated volatiles, were confirmed in monitoring wells W-4 and S-3. Past studies have shown that the southwest corner of the main building near the old waste oil tank to be the most likely source of the groundwater contamination on the site. Data from soil borings and monitoring well analysis confirmed contaminant levels in this area (Canonie, Harza and BEST studies). Analysis of apparent down gradient wells W-1 and W-8 have also indicated the presence of similar volatile contaminants.

5. Previous investigations indicated volatile organic compound contamination in the sediments of ponds #4 and #5. These sediments may require remediation.

Based upon areas sampled, this assessment has shown that there is no evidence that past process operations in the main plant building, foundry and solvent still building have contributed to localized subfloor contamination. ?

Paint chip disposal from the machine shop area may involve considerable cost based on the size of the room, the volume of paint chip waste produced, the difficulty in removal and whether it must be disposed as a hazardous waste. ?

EEK

Contamination from the W-4 and S-3 well locations are sources for concern at the site. In addition, past studies have indicated the presence of chlorinated volatile compounds in the old pond sediments as well as the groundwater downgradient of the ponds, at W-2 and W-5 (Table 3). Past assessment reports have indicated that the ponds were filled in with no remediation activities enacted. Contaminated sediments from these pond areas may still be a potential source of groundwater contamination.

Informal conversations with Indiana Department of Environmental Management (IDEM) indicated that a state-run water quality program will soon be implemented which will enforce both Indiana Interim Ground Water Standards as well as adopting the Federal EPA Drinking Water Regulations (maximum contaminant levels MCLs) as clean up guidelines. Two of the contaminants found on the site, particularly at S-3, exceed the MCLs. 1,1,1-Trichloroethane (MCL=200 ppb) and Trichloroethylene (MCL=5 ppb) were found at S-3 in concentrations exceeding their respective MCL. These concentration levels may be key factors in clean up decisions should IDEM elect to use the Federal Drinking Water Standards as guidelines for remediation. The Canonie Assessment in 1984 noted the Olive Street well field, located approximately 4,000 feet east of the Torrington site, as a source of potable water for the City of South Bend. Although some of the wells in the field were out of service in the past, the City of South Bend Water Treatment Works indicated that at least four wells in the field are presently used as a source of potable water.

Based on the above discussion, it is BEST's opinion that there is potential for considerable groundwater contamination and therefore, environmental liability, at the site.

5.0 RECOMMENDATIONS AND REMEDIATION COST ESTIMATES

5.1 Pit Contents

BEST would recommend remediation in the form of off-site disposal for pit contents as summarized in Table 1. Estimated costs for off-site disposal are as follows:

Pit	Material	Volume	Cost
P2 P6 P8	Oily solids, debris	~15 cu yd	$3,600.00
P3	Oily sludge (hazardous)	1 drum	$1,300.00
P5 P7 P10	Oil, sludge debris (liquid)	~10 drums	$8,700.00
	TOTAL PIT COST ESTIMATE:		$13,600.00

5.2 Paint Chips

Remedial cost are unable to be determined at this time due to difficulty in assessing removal techniques and waste dilution factors.

5.3 Groundwater and Soil Contamination

To adequately assess the extent of groundwater and pond sediment contamination on the site, it is recommended that an extensive subsurface investigation be performed. The investigation would also determine if any contamination is migrating onto the property from off-site, and also if any on-site contamination is migrating off-site. Subsequent to defining the contamination extent, the remediation technology could then be recommended and implemented. The standard for the groundwater remediation is to bring the groundwater into compliance with all relevant federal, state and local environmental statutes, regulations and policies.

An applicable investigation is described below with estimated costs. Also included are applicable remediation alternatives and estimated costs for site remediation.

5.3.1 Subsurface Investigation

	COST
- 20 soil borings to 50'-60' with continuous split spoon sampling and analysis	$30,000.00
- Develope 10 wells and perform analysis	$29,000.00
- Data analysis and report	$ 8,000.00
TOTAL ESTIMATED COST	$67,000.00

This is [illegible]

5.3.2 Site Remediation

Remediation Methods:

- Groundwater pumping and treatment by air stripping and carbon adsorption, or sewer discharge.
- Soil venting/vapor extraction and carbon absorption.
- Excavation/disposal
- Bioremediation - Oxygen and nutrient introduction with biodegradation.

Costs:

As a means of providing cost estimates for remediation activities, past experience has indicated that site investigation costs typically represent 20% of the total remediation costs for the project. Using the $67,000.00 subsurface investigation cost figure, a projected remediation cost estimate may be.....$335,000.00
A 30% contingency margin added.....$100,500.00

TOTAL POTENTIAL REMEDIATION COST: $435,500.00

Discuss with Warren Be specific

TABLE 1.

ANALYSIS RESULTS FOR PIT CONTENTS
AND RECOMMENDED DISPOSAL

PIT	LOCATION	MATERIAL	ANALYSIS RESULT	APPROX. VOLUME	DISPOSITION OF CONTENTS
P1 a,b	Grind	Water	NH	500-1000 Gallons	Apply For Permit To Discharge to City Sewer
P2 a,b,c	Grind	Sludge	NH	1 Drum**	Dispose at Licensed TSD Facility As Special Waste (Landfill)
P3	Grind	Oil Stained Sludge	126 ppm Barium TCLP*	1 Drum	Dispose at Licensed TSD Facility as Hazardous Waste
P4 a,b,c	Grind	Sand	NH	~5 Cu Yds	Disposal Unnecessary
P5 a,b,c	Grind, Shipping	Oil & Sludge	NH	3 Drums	Dispose at Licensed TSD Facility as Special Waste
P6	Machine Shop	Sludge	NH	1 Drum	Combine With P2 & Landfill as Special Waste
P7	Lg Machine	Solvents Oil, Water	NH	3 Drums	Dispose at Licensed TSD Facility
P8 a,b,c,d	Heat Treat	Oily Sand, Oil Dri	NH	10 Cu Yds	Combine With P2 & P6 & Landfill as Special Waste
P9	Heat Treat	Sewage & Water	NH	~200 Gallons	Apply For Permit To Discharge To City Sewer
P10	Heat Treat	Oil, Water	NH	3 Drums	Dispose at License TSD Facility

NOTES: NH = Non-Hazardous

* Hazard Level = 100 ppm TCLP

** 55 Gallon Capacity

TABLE 2.

ANALYSIS RESULTS FOR PAINT CHIP SAMPLES AND RECOMMENDED DISPOSAL

Paint Chip Sample	Location	Result	Disposal
1	Heat Treat	NH	Unnecessary
2	Machine Shop	32.2 ppm EP Toxic Lead*	Disposal at Licensed TSD Facility

NOTES: NH = Non-Hazardous

* Hazardous Level = 5.0 ppm E.P. Toxic

TABLE 3.

COMPARISON OF RESULTS FOR MONITORING WELLS W-2, W-4
W-5, S-3, W-7 AND W-8, CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L) (ppm)

WELL	CONTAMINANT	1 CANONIE	2 HARZA	3 BEST	4 BEST
W-1	1,1-Dichloroethane (DCA)	ND	NT	0.006	ND
	1,1,1-Trichloroethane (TCA)	ND	NT	0.018	ND
W-4	1,1-Dichloroethane (DCA)	0.065	ND	0.160	0.026
	1,1-Dichloroethylene (DCE)	0.020	0.010	ND	ND
	1,1,1-Trichloroethane (TCA)	0.285	0.470	0.190	0.081
	1,2-Dichloroethane DCE	ND	0.094	ND	ND
	Chloroethane CHE	ND	0.011	0.015	ND
	1,1-Dichloroethene	ND	ND	0.006	ND
		.370	.595	.371	
S-3	1,1-Dichloroethane (DCA)	3.23	ND, ND	1.600	1.200
	1,1-Dichloroethylene (DCE)	0.15	<0.050, <0.050	ND	ND
	1,1,1-Trichloroethane (TCA)	4.90	0.510, 0.580	5.600	3.600
	1,2-Dichloroethane DCE	ND	1.000, 1.200	ND	ND
	Trichloroethylene TCE	ND	ND, ND	0.190	0.580
	Trans-1,2-Dichloroethylene	ND	ND, ND	0.017	0.016
	Chloroethane (CHE)	ND	<0.100, <0.100	0.110	0.140
	Toluene (TOL)	ND	ND, ND	0.038	0.039
	1,1-Dichloroethene	ND	ND, ND	0.058	0.029
	CIS-1/2-Dichloroethene	ND	ND, ND	3.400	5.500
	Trans-1,2-Dichloroethene	ND	0.220, 0.260	ND	ND
		8.25	1.91	11.01	11.1
W-2	1,1-Dichloroethane DCA	0.030	<0.005	NT	NT
	1,1,1-Trichloroethane TCA	0.030	<0.005	NT	NT
W-5	1,1-Dichloroethane DCA	0.014	<0.005	NT	NT
	1,1,1-Trichloroethane TCA	0.055	<0.005	NT	NT
W-7	1,1-Dichloroethane DCA	97.00	ND, ND	NT	NT
	1,1,1-Trichloroethane TCA	72.00	0.033, 0.026	NT	NT
	1,1-Dichloroethylene DCE	28.00	ND, ND	NT	NT
	1,2-Dichloroethane DCE	ND	0.005, <0.005	NT	NT
	Acetone	NT	0.092, 0.062	NT	NT
	1,4-Dimethyl trans - Cyclooctane	NT	0.003, 0.003	NT	NT
		197			
W-8		ND	NT	NT	ND*

NOTES: NT = Not Tested
ND = Not Detected

1 Canonie Environmental Assessment, 1984
2 Harza Environmental Assessment, 1986
3 BEST Environmental Assessment, August, 1990
4 BEST Environmental Assessment, September, 1990

* Sampling Date October 11, 1990

TABLE 4

Analysis Parameters, Torrington Environmental Assessment, August - September 1990.

MONITORING WELL SAMPLES

Priority Pollutants:

- Volatiles
- Semi volatiles
- Phenols
- Cyanides
- Metals
- Pesticides
- PCB

SOIL CORING SAMPLES

RCRA Contaminants:

- Flash Point
- PH
- Paint Filter
- Reactive Sulfide
- Reactive Cyanide
- F-List Solvents
- Metals (E.P. Toxic)
- PCB

PAINT CHIP SAMPLES

E.P. Toxic Metals (8)

- Arsenic
- Barium
- Cadmium
- Chromium
- Lead
- Mercury
- Silver
- Selenium

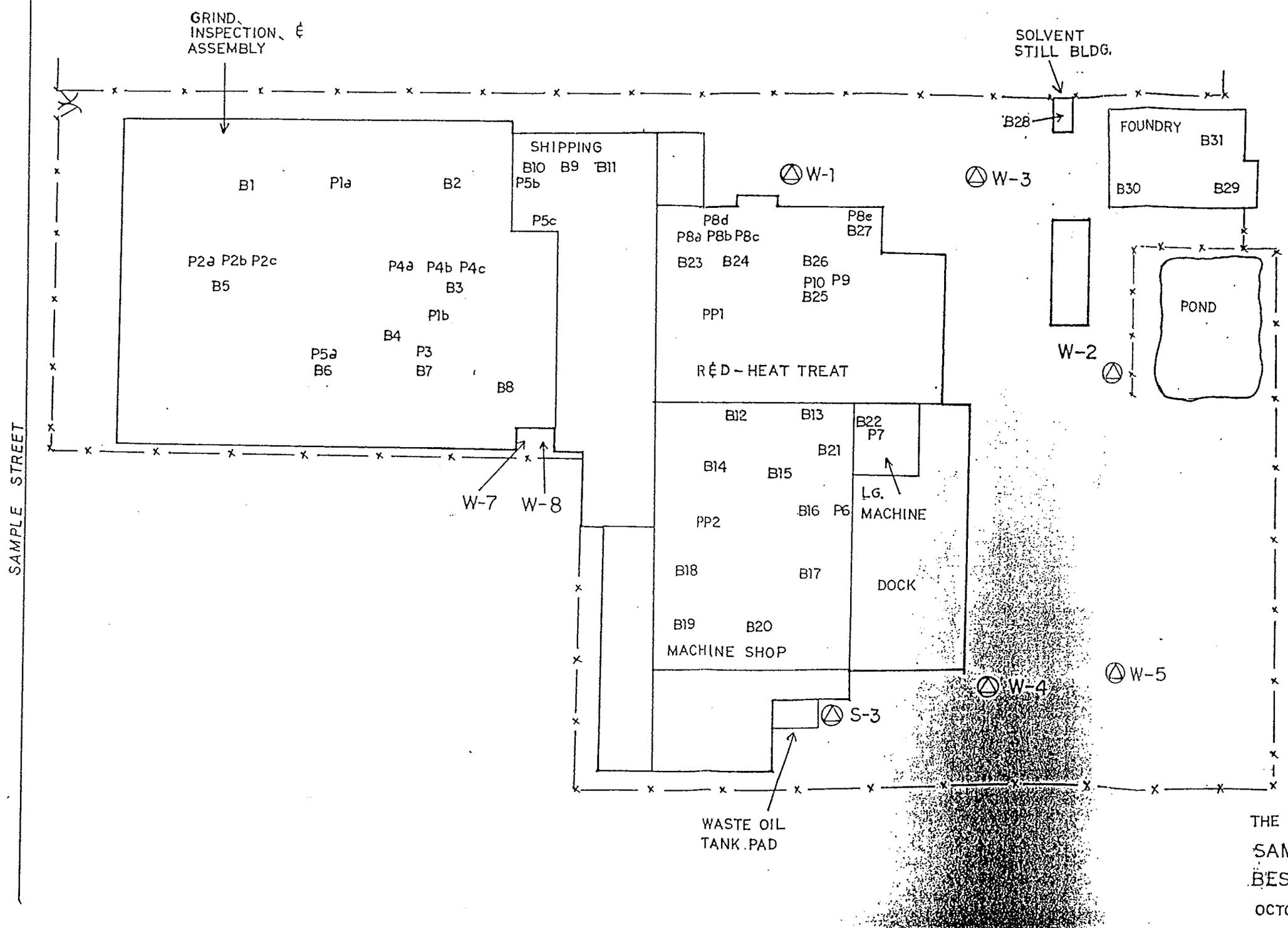
PIT CONTENTS SAMPLES

RCRA Contaminants:

- Flash Point
- PH
- Paint Filter
- Reactive Sulfide
- Reactive Cyanide
- F-List Solvents
- * Metals
- PCB
- * TCLP For Solids Samples

BEST

FIGURE 1



LEGEND

B1 SOIL CORING

P1 PIT SAMPLE

PP1 PAINT CHIP SA

MONITORING WE

FENCE LINE

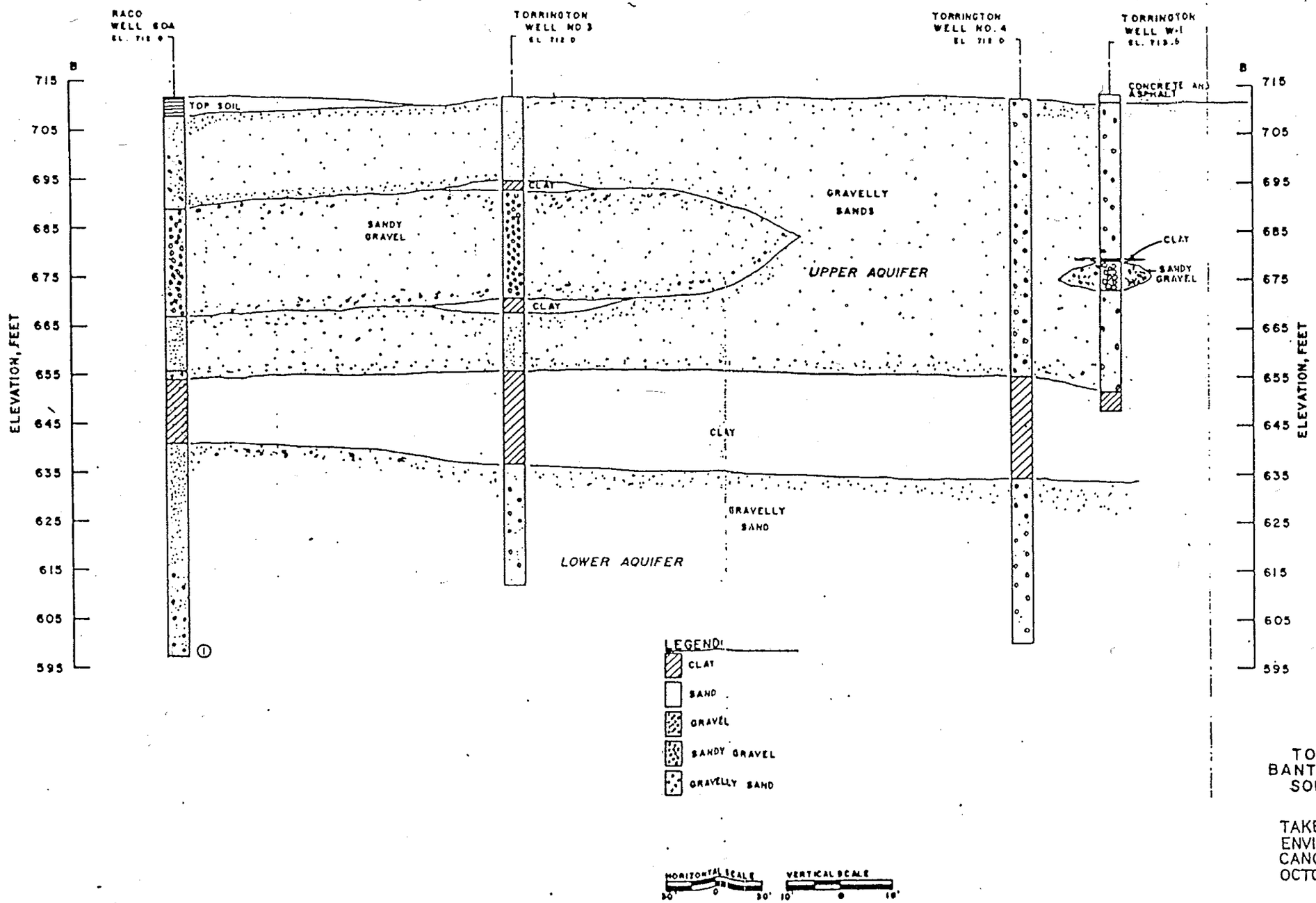
THE TORRINGTON COMPANY

SAMPLING PLAN

BEST ENVIRONMENTAL, IN

OCTOBER 1990

FIGURE . 2



NOTES

1. BORING CONTINUES AS GRAVELLY SAND TO ELEVATION OF 588.

SOIL PROFILE B-B
TORRINGTON COMPANY
BANTAM BEARING DIVISION
SOUTH BEND, INDIANA

TAKEN FROM:
ENVIRONMENTAL ASSESSMENT
CANONIE ENGINEERS
OCTOBER 1984

INFORMATION SOURCES

1. Canonie Engineers, "Environmental Assessment", 1984

2. HARZA Engineering, "Environmental Assessment", 1986

3. U.S.E.P.A., Office of Drinking Water, "Drinking Water Regulations and Health Advissaries", Washington, D.C., April, 1990.

4. U.S.E.P.A., Office of Solid Waste and Emergency Response, "Test Methods For Evaluating Solid Waste". Washington, D.C., November 1986. Third Edition.

APPENDIX A

APPENDIX A

Methodology

Soil Corings

The coring locations were marked on the concrete floor with paint to facilitate future reference (Figure 1). The 31 concrete coring holes were made utilizing rotary coring machines. When the concrete floor at each sampling location was penetrated, the core and all cuttings were removed from the hole. The subfloor soil was then sampled to a depth of 18" using a stainless steel trowel or auger. The sample was placed in a stainless steel pan and thoroughly mixed to ensure homogeneity prior to filling sample containers. Three sample containers were filled at each location. Soil coring samples were analyzed for RCRA contaminants (Appendix B). All sampling equipment was decontaminated with a detergent wash and deionized water rinse prior to proceeding to the next location. Field log sheets were completed for each coring location.

Pit Samples

Representative samples were collected from each pit with either stainless steel trowel or glass sampling container depending on whether the material was liquid or solid. Composites were made of pits containing similar materials. A total of 10 composites were analyzed representing 20 total pits. Four sample containers were filled at location and analyzed for RCRA contaminants (Appendix B). All sampling equipment was thoroughly decontaminated between locations with a detergent wash and deionized water rinse. Pits sampled were indicated by painting a number on the floor next to each pit for future reference (Figure 1). Field log sheets were completed for each pit location.

Paint Chips

Paint chips were collected from representative areas in both the heat treat and machine shop rooms of the main plant. Two sample containers were filled at each location and analyzed or the 8 RCRA metals (Appendix B). Field log sheets were completed for each location.

Groundwater Monitoring Wells

Well S-3 was destroyed during past remediation activities. BEST reinstalled the well during this investigation for inclusion

Were samples screened for S-3?

in the sampling plan. A B-40 truck-mounted drill rig was used to install the well. The rig was equipped with a rotary head and hollow-stem augers. All augers and well components were thoroughly cleaned with a trisodium phosphate (TSP) solution and a high pressure water rinse prior to installation. The well materials consisted of 2 inch stainless steel flush joint riser and factory slotted (#10) screen. The well screen was positioned at the bottom of the auger hole at the same level as previously installed. The borehole annulus was filled with native formation backfill to a depth of 5 feet below the surface. A 2 foot bentonite seal was placed in the annulus above the backfill. Finally, concrete was placed in the annulus above the bentonite seal to surface and an 8 inch flush mount cover installed. A locking cap was provided for the well. The well log is provided in Appendix C.

Does not seem to be sufficient

A peristaltic pump and teflon tubing were used to develop the wells prior to sampling. The wells were considered developed when 3 casing volumes were removed from the well and the extracted water was free of "fines". Eight (8) sample containers were filled at each well location. Each well sample was analyzed for priority pollutants (Appendix B). All sampling equipment was decontaminated between locations with a trisodium phosphate/hexane/deionized water rinse to avoid cross contamination. A field log sheet was completed for each location.

Shipping and Chain-of-Custody

Environmental Consultants, Inc. (ECI) provided all sampling containers and shipping coolers. All sample containers were labeled prior to filling. After collection, samples were immediately placed in a cooler with "blue ice" for shipment. Prior to shipment a chain-of-custody record was completed and signed by the field technician and the courier. The form was then placed inside the cooler for transport. A synopsis of analysis to be performed also accompanied each shipment. Federal Express "Priority #1" service was utilized to ensure next day delivery to the laboratory.

Quality Assurance/Quality Control

ECI provided all sample containers for this investigation. As part of the sampling protocol, field blanks and rinsate blanks were collected and analyzed along with the project samples. A field blank and rinsate blank was collected and analyzed for every 10 soil corings and pit samples. A field blank and a rinsate blank also accompanied each set of groundwater samples. ECI performed in-house quality assurance/quality control procedures as part of standard laboratory protocol.

ANALYTICAL METHODS, TORRINGTON ASSESSMENT

	SW-846 Method *
MONITORING WELL SAMPLES	
Priority Pollutants:	
Volatiles	8240
Semi Volitiles	8270
PH, Total	9065
Cyanide, Total	9010
Metals	1310/various
Pesticides/PCB	8080
SOIL CORING SAMPLES	
RCRA Contaminants:	
Flash Point	1010
PH	9040
Paint Filter	9095
Reactive Sulfide	Sec. 7.3.4.1
Reactive Cyanide	Sec. 7.3.3.2
F-List Solvents	8010/8020
Metals (E.P. Toxic)	1310/various
PCB	8080
PAINT CHIP SAMPLES	
E.P. Toxic Metals (8)	1310/various
PIT CONTENT SAMPLES	
(Same as soil corings except TCLP metals)	8240/1310

* See References

APPENDIX B

ENVIRONMENTAL CONSULTANTS INC.
391 Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date: 09/05/90 Page 1

Lab Control No: 10,372

P.O. Number: 0609

Job No.: 0073

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Report To:
As above

Sample Description: Soil

Sample Type: GRAB

Location: Sample B-1

Date Collected: 08-07-90

Date Received: 08/08/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.166 mg/kg	08/16/90	Rogers	Distillation Chloroform extract
Total React. Cyanide	<0.02 mg/kg	08/13/90	Hoover	Colorimetric
Total React. Sulfide	0.99 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/08/90	Cariel	Visual
pH(w)	8.60	08/10/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/13/90	Davis	
F-List Solvent Scan (2)	None Detected	08/20/90	Peyton	Gas chromatograph PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/14/90	Peyton	Gas chromatograph Electron capture

Remarks
(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: [signature]

:IRONMENTAL CONSULTANTS, INC
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Environment Consultants

Professional Laboratory Services

Laboratory Report

Date 09/05/90 Page 2

Lab Control No 10,372

P.O. Number 0609 Job No. 00735

ple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To: As above

Sample Description: Soil
Sample Type: GRAB
Location: Sample B-1
e Collected: 08-07-90
Date Received: 08/08/90
Collected By: Client
Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/24/90	Vick	SW-846 Test Methods Evaluating Solid Wa
Arsenic (leachate)	0.005 mg/l	08/30/90	Isler	Atomic absorption Graphite furnace
arium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.007 mg/l	08/31/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/31/90	Isler	Flame atomic abs.
Mercury (leachate)	0.0003 mg/l	08/30/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.003 mg/l	08/29/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.015 mg/l	08/31/90	Isler	Flame atomic abs.

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tate Certification No. M-10-1

Analysis Reviewed

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Environmental Consultants

Laboratory Report

Date: 08/31/90 Page 1

Lab Control No: 10,440

P.O. Number: 0609 Job No. 00735

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description: Soil

Sample Type: GRAB

Location: Boring B-2

Date Collected: 08-08-90

Date Received: 08/09/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.25 mg/kg	08/11/90	Rogers	Distillation Chloroform extracti
Total React. Cyanide	<0.02 mg/kg	08/13/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	08/30/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	8.10	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED.	08/13/90	Davis	
F-List Solvent Scan (2)	None Detected	08/20/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/14/90	Peyton	Gas chromatography Electron capture

Remarks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

ORIGINAL

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Report

Date: 08/31/90

Lab Control No: 10,440

P.O. Number: 0609

Job No: 00735

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Report To

As above

Sample Description: Soil

Sample Type: GRAB

Location: Boring B-2

Date Collected: 08-08-90

Date Received: 08/09/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/14/90	Vick	SW-846 Test Methods Evaluating Solid Wa
Arsenic (leachate)	0.006 mg/l	08/17/90	Hostettler	Atomic absorption Graphite furnace
Barium (leachate)	0.24 mg/l	08/16/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.004 mg/l	08/17/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/16/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/20/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/15/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.004 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.013 mg/l	08/20/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

Analysis Reviewed By: [signature]

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Environment Consultants

Laboratory Report

Date: 08/31/90

Lab Control No: 10,441

P.O. Number: 0609

Job No.: 00735

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To

As above

Sample Description	Sample Type	Location
Soil	GRAB	Boring B-3

Date Collected	Date Received	Collected By	Time of Collection
08-08-90	08/09/90	Client	00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.25 mg/kg	08/11/90	Rogers	Distillation Chloroform extract
Total React. Cyanide	<0.02 mg/kg	08/13/90	Hoover	
Total React. Sulfide	<0.49 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	08/27/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	7.95	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/14/90	Davis	
F-List Solvent Scan (2)	None Detected	08/21/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/14/90	Peyton	Gas chromatography Electron capture

Remarks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

ORIGINAL

391 Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 287-8481

Environm
Consultan

Laboratory R

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Date: 08/31/90

Lab Control No: 10,441

P.O. Number: 0609

Bill To: As above

Sample Description: Soil

Sample Type: GRAB

Location: Boring B-3

Date Collected: 08-08-90

Date Received: 08/09/90

Collected By: Client

Time of Collection: 00:00 :

	Parameter	Results	Date Analyzed	Analyst	Method of An
	EPA EXTRACTION PROCEDURE	COMPLETED	08/21/90	Vick	SW-846 T Evaluati
5	Arsenic (leachate)	0.004 mg/l	08/27/90	Isler	Atomic a Graphite
100	Barium (leachate)	0.08 mg/l	08/28/90	Isler	Flame at
1	Cadmium (leachate)	<0.002 mg/l	08/28/90	Isler	Flame at
5	Chromium (leachate)	<0.01 mg/l	08/28/90	Isler	Flame at
5	Lead (leachate)	<0.03 mg/l	08/24/90	Isler	Flame a
0.2	Mercury (leachate)	<0.0002 mg/l	08/24/90	Hostettler	Atomic Cold va
1.0	Selenium (leachate)	0.005 mg/l	08/27/90	Isler	Atomic Graphit
5.0	Silver (leachate)	<0.002 mg/l	08/28/90	Isler	Flame a

Remarks

State Certification No. M-10-1

Analysis Reviewed By

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Environmental Consultants

Laboratory Report

Date: 08/31/90

Page 1 of 2

Lab Control No: 10,442

P.O. Number: 0609

Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description	Sample Type	Location
Soil	GRAB	Boring B-4

Date Collected	Date Received	Collected By	Time of Collection
08-08-90	08/09/90	Client	00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.156 mg/kg	08/16/90	Rogers	Distillation Chloroform extraction
Total React. Cyanide	0.03 mg/kg	08/13/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F.	08/27/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	7.68	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/14/90	Davis	
F-List Solvent Scan (2)	None Detected	08/21/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/14/90	Peyton	Gas chromatography Electron capture

Remarks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: [signature]

ORIGINAL

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

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Laboratory Report

Date: 08/31/90 Page 1 of

Lab Control No: 10,442

P.O. Number: 0609 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description: Soil | Sample Type: GRAB | Location: Boring B-4

Date Collected: 08-08-90 | Date Received: 08/09/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.156 mg/kg	08/16/90	Rogers	Distillation Chloroform extractio
Total React. Cyanide	0.03 mg/kg	08/13/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	08/27/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	7.68	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/14/90	Davis	
F-List Solvent Scan (2)	None Detected	08/21/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/14/90	Peyton	Gas chromatography Electron capture

Remarks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: [signature]

ORIGINAL

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Report

Date: 08/31/90

Lab Control No: 10,442

P.O. Number: 0609

Job No.: 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To

As above

Sample Description: Soil

Sample Type: GRAB

Location: Boring B-4

Date Collected: 08-08-90

Date Received: 08/09/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/21/90	Vick	SW-846 Test Methods Evaluating Solid Was
Arsenic (leachate)	0.005 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Barium (leachate)	0.08 mg/l	08/28/90	Isler	Flame atomic abs.
Cadmium (leachate)	<0.002 mg/l	08/28/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/28/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/24/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/24/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.006 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	<0.002 mg/l	08/28/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

Analysis Reviewed By

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Environmental Consultants

Laboratory Report

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Date: 08/31/90

Lab Control No: 10,442

P.O. Number: 0609

Job No: 007357

Sent To: As above

Sample Description: Soil

Sample Type: GRAB

Location: Boring B-4

Date Collected: 08-08-90

Date Received: 08/09/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/21/90	Vick	SW-846 Test Methods Evaluating Solid Wa
Arsenic (leachate)	0.005 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Barium (leachate)	0.08 mg/l	08/28/90	Isler	Flame atomic abs.
Cadmium (leachate)	<0.002 mg/l	08/28/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/28/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/24/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/24/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.006 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	<0.002 mg/l	08/28/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

Analysis Reviewed By

ORIGINAL

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Report

Date: 08/31/90 Page 2 of

Lab Control No: 10,442

P.O. Number: 0609 Job No. 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Sent To:
As above

Sample Description: Soil | Sample Type: GRAB | Location: Boring B-4

Date Collected: 08-08-90 | Date Received: 08/09/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/21/90	Vick	SW-846 Test Methods Evaluating Solid Was
Arsenic (leachate)	0.005 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
arium (leachate)	0.08 mg/l	08/28/90	Isler	Flame atomic abs.
Cadmium (leachate)	<0.002 mg/l	08/28/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/28/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/24/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/24/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.006 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	<0.002 mg/l	08/28/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

Analysis Reviewed By

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Report

Date: 08/31/90

Lab Control No: 10,443

P.O. Number: 0609

Job No.: 007357

Sample Source:

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

Sample Description	Sample Type	Location
Soil	GRAB	Boring B-5

Date Collected	Date Received	Collected By	Time of Collection
08-08-90	08/09/90	Client	00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	0.35 mg/kg	08/11/90	Rogers	Distillation Chloroform extraction
Total React. Cyanide	<0.02 mg/kg	08/13/90	Hoover	Colorimetric
Total React. Sulfide	0.49 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	08/27/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	7.35	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/14/90	Davis	
F-List Solvent Scan (2)	None Detected	08/21/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/15/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Report

Date: 08/31/90

Lab Control No: 10,443

P.O. Number: 0609

Job No.: 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To

As above

Sample Description: Soil

Sample Type: GRAB

Location: Boring B-5

Date Collected: 08-08-90

Date Received: 08/09/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	0.35 mg/kg	08/11/90	Rogers	Distillation Chloroform extraction
Total React. Cyanide	<0.02 mg/kg	08/13/90	Hoover	Colorimetric
tal React. Sulfide	0.49 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	08/27/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	7.35	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/14/90	Davis	
F-List Solvent Scan (2)	None Detected	08/21/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/15/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

Environmental Consultants
Laboratory Services
501 Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Laboratory Report

Date: 08/31/90 Page 1 of 2

Lab Control No: 10,444

P.O. Number: 0609 Job No. 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:
As above

Sample Description: Soil
Sample Type: GRAB
Location: Boring B-6
Date Collected: 08-08-90
Date Received: 08/09/90
Collected By: Client
Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.23 mg/kg	08/11/90	Rogers	Distillation Chloroform extraction
Total React. Cyanide	<0.02 mg/kg	08/13/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	08/27/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	8.25	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/14/90	Davis	
F-List Solvent Scan (2)	None Detected	08/21/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/14/90	Peyton	Gas chromatography Electron capture

Remarks
(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: Brad Carrigan

ORIGINAL

Environmental Consultants, Inc.
Laboratory Services
[illegible] Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Laboratory Report

Date: 08/31/90 Page 1 of 2

Lab Control No: 10,444

P.O. Number: 0609 Job No. 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:
As above

Sample Description: Soil
Sample Type: GRAB
Location: Boring B-6
Date Collected: 08-08-90
Date Received: 08/09/90
Collected By: Client
Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.23 mg/kg	08/11/90	Rogers	Distillation Chloroform extraction
Total React. Cyanide	<0.02 mg/kg	08/13/90	Hoover	Colorimetric
tal React. Sulfide	<0.49 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	08/27/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	8.25	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/14/90	Davis	
F-List Solvent Scan (2)	None Detected	08/21/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/14/90	Peyton	Gas chromatography Electron capture

Remarks
(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: [signature]

[illegible]
[illegible] Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

[illegible]

Laboratory Report

Date: 08/31/90

Lab Control No: 10,444

P.O. Number: 0609

Job No.: 007357

mple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

l To:

As above

mple Description: Soil

Sample Type: GRAB

Location: Boring B-6

ate Collected: 08-08-90

Date Received: 08/09/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/14/90	Vick	SW-846 Test Methods Evaluating Solid Waste
Arsenic (leachate)	0.004 mg/l	08/17/90	Hostettler	Atomic absorption Graphite furnace
rium (leachate)	0.25 mg/l	08/16/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.004 mg/l	08/17/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/16/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/20/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/15/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.005 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.003 mg/l	08/20/90	Isler	Flame atomic abs.

emarks

State Certification No. M-10-1

Analysis Reviewed By: [illegible]

ORIGINAL

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Environmental Consultants

Laboratory Report

Date: 08/31/90 Page 1 of 2

Lab Control No: 10,445

P.O. Number: 0609 Job No.: 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To: As above

Sample Description: Soil | Sample Type: GRAB | Location: Boring B-7

Date Collected: 08-08-90 | Date Received: 08/09/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.25 mg/kg	08/11/90	Rogers	Distillation Chloroform extraction
Total React. Cyanide	<0.02 mg/kg	08/13/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	08/27/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	6.77	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/14/90	Davis	
F-List Solvent Scan (2)	None Detected	08/21/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/15/90	Taylor	Gas chromatography Electron capture

Remarks
(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: [signature]

ORIGINAL

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmenta
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Laboratory Report

Date: 08/31/90 Page 2 of 2

Lab Control No: 10,445

P.O. Number: 0609 Job No: 007357

Sample Source:

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

Sample Description: Soil
Sample Type: GRAB
Location: Boring B-7
Date Collected: 08-08-90
Date Received: 08/09/90
Collected By: Client
Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/14/90	Vick	SW-846 Test Methods Evaluating Solid Was
Arsenic (leachate)	0.003 mg/l	08/17/90	Hostettler	Atomic absorption Graphite furnace
Barium (leachate)	0.14 mg/l	08/16/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.002 mg/l	08/17/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/16/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/20/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/20/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.006 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	<0.002 mg/l	08/20/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

Analysis Reviewed By

ORIGINAL

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Laboratory Report

Date 09/04/90 Page 1 of

Lab Control No 10,451

P.O. Number 0609 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

Sample Description: Soil | Sample Type: GRAB | Location: Boring B-12

Date Collected: 08-08-90 | Date Received: 08/09/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.246 mg/kg	08/16/90	Rogers	Distillation Chloroform extractic
Total React. Cyanide	<0.02 mg/kg	08/20/90	Hoover	Colorimetric
Total React. Sulfide	0.49 mg/kg	08/20/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	8.10	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/14/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/15/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

[illegible]
[illegible] Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

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[illegible]

Laboratory Report

Date 09/04/90 Page 2 of 2

Lab Control No 10,451

P.O. Number 0609 Job No. 007357

mple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

l To:

As above

mple Description: Soil | Sample Type: GRAB | Location: Boring B-12

te Collected: 08-08-90 | Date Received: 08/09/90 | Collected By: Client | Time of Collection: 00:00 :

rameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/21/90	Vick	SW-846 Test Methods Evaluating Solid Waste
Arsenic (leachate)	0.011 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
ium (leachate)	0.14 mg/l	08/28/90	Isler	Flame atomic abs.
Cadmium (leachate)	<0.002 mg/l	08/28/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/28/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/24/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/24/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.005 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.003 mg/l	08/28/90	Isler	Flame atomic abs.

rks

ate Certification No. M-10-1

Analysis Reviewed By [signature]

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Laboratory Report

Date 09/04/90 Page 1 of 2

Lab Control No ▶ 10,446

P.O. Number 0609 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Report To:

As above

Sample Description: Soil | Sample Type: GRAB | Location: Boring B-8

Date Collected: 08-08-90 | Date Received: 08/09/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	0.24 mg/kg	08/11/90	Rogers	Distillation Chloroform extraction
Total React. Cyanide	<0.02 mg/kg	08/13/90	Hoover	Colorimetric
Total React. Sulfide	0.99 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	08/31/90	Taylor	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	7.93	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/14/90	Davis	
F-List Solvent Scan (2)	None Detected	08/21/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/15/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By ▶ [signature]

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Environmental Consultants

Laboratory Report

Date 09/04/90 Page 2 of

Lab Control No 10,446

P.O. Number 0609 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To: As above

Sample Description: Soil | Sample Type: GRAB | Location: Boring B-8

Date Collected: 08-08-90 | Date Received: 08/09/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/14/90	Vick	SW-846 Test Methods Evaluating Solid Was
Arsenic (leachate)	0.002 mg/l	08/17/90	Hostettler	Atomic absorption Graphite furnace
Barium (leachate)	0.14 mg/l	08/16/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.002 mg/l	08/17/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/16/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/20/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/20/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.006 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	<0.002 mg/l	08/20/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

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Laboratory Report

Date 09/04/90 Page 1 of

Lab Control No. 10,447

P.O. Number 0E09 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To: As above

Sample Description: Soil | Sample Type: GRAB | Location: Boring B-9

Date Collected: 08-08-90 | Date Received: 08/09/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.215 mg/kg	08/16/90	Rogers	Distillation Chloroform extractic
Total React. Cyanide	<0.02 mg/kg	08/13/90	Hoover	Colorimetric
Total React. Sulfide	0.99 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	8.85	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/14/90	Davis	
F-List Solvent Scan (2)	None Detected	08/21/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/15/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

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Laboratory Report

Date 09/04/90

Lab Control No 10,447

P.O. Number 0609

Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Send To:

As above

Sample Description: Soil

Sample Type: GRAB

Location: Boring B-9

Date Collected: 08-08-90

Date Received: 08/09/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/14/90	Vick	SW-846 Test Methods Evaluating Solid Was
Arsenic (leachate)	0.003 mg/l	08/17/90	Hostettler	Atomic absorption Graphite furnace
Barium (leachate)	0.36 mg/l	08/16/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.003 mg/l	08/17/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/16/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/20/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/20/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.003 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.012 mg/l	08/20/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

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Laboratory Report

Date: 09/04/90 Page 1 of 2

Lab Control No: 10,448

P.O. Number: 0609 Job No. 007357

Sample Source:

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Report To:

As above

Sample Description: Soil | Sample Type: GRAB | Location: Boring B-10

Date Collected: 08-08-90 | Date Received: 08/09/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.250 mg/kg	08/16/90	Rogers	Distillation Chloroform extractio
Total React. Cyanide	<0.02 mg/kg	08/13/90	Hoover	Colorimetric
otal React. Sulfide	<0.49 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	8.44	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/14/90	Davis	
F-List Solvent Scan (2)	None Detected	08/21/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/15/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

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Laboratory Report

Date 09/04/90 Page 2 of

Lab Control No 10,448

P.O. Number 0609 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Send To

As above

Sample Description: Soil | Sample Type: GRAB | Location: Boring B-10

Date Collected: 08-08-90 | Date Received: 08/09/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/14/90	Vick	SW-846 Test Methods Evaluating Solid Was
Arsenic (leachate)	0.006 mg/l	08/17/90	Hostettler	Atomic absorption Graphite furnace
Barium (leachate)	0.27 mg/l	08/16/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.004 mg/l	08/17/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/16/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/20/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/20/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.007 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.019 mg/l	08/20/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

Analysis Reviewed By

ECI 110449

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Environmental Consultants

Laboratory Report

Date: 08/31/90 Page 1 of 1

Lab Control No: 10,449

P.O. Number: 0609 Job No. 007357

Sample Source:
Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:
As above

Sample Description: Rinse Water
Sample Type: GRAB
Location: Rinsate Blank
Date Collected: 08-08-90
Date Received: 08/09/90
Collected By: Client
Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
F-List Solvent Scan (1)	None Detected	08/21/90	Peyton	Gas chromatography PID, HECD and FID
Arsenic, total	0.002 mg/l	08/13/90	Isler	Atomic absorption Graphite furnace
[illegible]rium, total	<0.01 mg/l	08/16/90	Isler	Flame atomic abs.
Cadmium, total	0.004 mg/l	08/15/90	Isler	Flame atomic abs.
Chromium, total	0.001 mg/l	08/15/90	Isler	Atomic absorption Graphite furnace
Lead, total	0.001 mg/l	08/15/90	Hostettler	Atomic absorption Graphite furnace
Mercury, total	<0.0002 mg/l	08/10/90	Hostettler	Atomic absorption Cold vapor
Selenium, total	0.006 mg/l	08/17/90	Hostettler	Atomic absorption Graphite furnace
Silver, total	<0.002 mg/l	08/15/90	Isler	Flame atomic abs.

Remarks
(1) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

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Professional Laboratory Services

Laboratory Report

Date: 09/04/90

Lab Control No: 10,450

P.O. Number: 0609

Job No.: 007357

mple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

ll To:

As above

mple Description: Soil

Sample Type: GRAB

Location: Boring B-11

ate Collected: 08-08-90

Date Received: 08/09/90

Collected By: Client

Time of Collection: 00:00 :

arameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.250 mg/kg	08/16/90	Rogers	Distillation Chloroform extraction
Total React. Cyanide	<0.02 mg/kg	08/20/90	Hoover	Colorimetric
tal React. Sulfide	<0.49 mg/kg	08/20/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	7.70	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/14/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/15/90	Taylor	Gas chromatography Electron capture

marks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

tate Certification No. M-10-1

Analysis Reviewed By: [signature]

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Laboratory Report

Date 09/04/90

Lab Control No 10,450

P.O. Number 0609

Job No 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Report To

As above

Sample Description: Soil

Sample Type: GRAB

Location: Boring B-11

Date Collected: 08-08-90

Date Received: 08/09/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/14/90	Vick	SW-846 Test Methods Evaluating Solid Wast
Arsenic (leachate)	<0.002 mg/l	08/17/90	Hostettler	Atomic absorption Graphite furnace
Barium (leachate)	0.49 mg/l	08/16/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.003 mg/l	08/17/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/16/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/20/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/20/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.003 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.003 mg/l	08/20/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

Analysis Reviewed By

[illegible]
[illegible]1 Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

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[illegible] Laboratory Services

Laboratory Report

Date 09/04/90 Page 2 of 2

Lab Control No ▶ 10,452

P.O. Number 0609 Job No. 007357

[illegible]mple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

[illegible]ll To

As above

[illegible]mple Description: Soil | Sample Type: GRAB | Location: Boring B-13

[illegible]te Collected: 08-08-90 | Date Received: 08/09/90 | Collected By: Client | Time of Collection: 00:00 :

[illegible]rameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/21/90	Vick	SW-846 Test Methods Evaluating Solid Waste
Arsenic (leachate)	0.005 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
[illegible]rium (leachate)	0.15 mg/l	08/28/90	Isler	Flame atomic abs.
Cadmium (leachate)	<0.002 mg/l	08/28/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/28/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/24/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/24/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.004 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.003 mg/l	08/28/90	Isler	Flame atomic abs.

[illegible]marks

[illegible]tate Certification No. M-10-1

▶ Analysis Reviewed By [illegible]

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Laboratory Services

Laboratory Report

Date: 09/04/90 Page 1 of 2

Lab Control No: 10,453

P.O. Number: 0609 Job No. 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Report To:
As above

Sample Description: Soil
Sample Type: GRAB
Location: Boring B-14
Date Collected: 08-08-90
Date Received: 08/09/90
Collected By: Client
Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.244 mg/kg	08/16/90	Rogers	Distillation Chloroform extraction
Total React. Cyanide	<0.02 mg/kg	08/20/90	Hoover	Colorimetric
Total React. Sulfide	4.50 mg/kg	08/20/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	8.73	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/15/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/16/90	Taylor	Gas chromatography Electron capture

Remarks
(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: [signature]

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Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date 09/04/90

Lab Control No 10,453

P.O. Number 0609

Job No. 007357

mple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

ill To:

As above

ample Description: Soil

Sample Type: GRAB

Location: Boring B-14

Date Collected: 08-08-90

Date Received: 08/09/90

Collected By: Client

Time of Collection: 00:00 :

arameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/21/90	Vick	SW-846 Test Methods Evaluating Solid Wast
Arsenic (leachate)	0.006 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
arium (leachate)	0.17 mg/l	08/28/90	Isler	Flame atomic abs.
Cadmium (leachate)	<0.002 mg/l	08/28/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/28/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/24/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/24/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.005 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.003 mg/l	08/28/90	Isler	Flame atomic abs.

emarks

tate Certification No. M-10-1

Analysis Reviewed By

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Report

Date: 09/04/90 Page 1 of 2

Lab Control No: 10,454

P.O. Number: 0609 Job No. 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:
As above

Sample Description: Soil
Sample Type: GRAB
Location: Boring B-15
Date Collected: 08-08-90
Date Received: 08/09/90
Collected By: Client
Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.183 mg/kg	08/16/90	Rogers	Distillation Chloroform extraction
Total React. Cyanide	<0.02 mg/kg	08/20/90	Hoover	Colorimetric
Total React. Sulfide	1.49 mg/kg	08/20/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/09/90	Cariel	Visual
pH(w)	8.36	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/15/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/16/90	Taylor	Gas chromatography Electron capture

Remarks
(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

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Environmental Consultants

Laboratory Services

Laboratory Report

Date 09/04/90

Lab Control No 10,454

P.O. Number 0609

Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

Sample Description: Soil

Sample Type: GRAB

Location: Boring B-15

Date Collected: 08-08-90

Date Received: 08/09/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/21/90	Vick	SW-846 Test Methods Evaluating Solid Wast
Arsenic (leachate)	0.008 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Barium (leachate)	0.15 mg/l	08/28/90	Isler	Flame atomic abs.
Cadmium (leachate)	<0.002 mg/l	08/28/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/28/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/24/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/24/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.006 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.002 mg/l	08/28/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

Analysis Reviewed By

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Laboratory Services

Laboratory Report

Date: 09/11/90 Page 1 of

Lab Control No: 10,455

P.O. Number: 0609 Job No. 007357

Sample Source:

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Report To:

As above

Sample Description: Soil | Sample Type: GRAB | Location: Boring B-16

Date Collected: 08-08-90 | Date Received: 08/09/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.177 mg/kg	08/16/90	Rogers	Distillation Chloroform extractio
Total React. Cyanide	<0.02 mg/kg	08/20/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/20/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/09/90	Cariel	Visual
pH(w)	8.04	08/09/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/15/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/16/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

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Laboratory Report

Date 09/11/90

Lab Control No 10,455

P.O. Number 0609

Job No 007357

Sample Source

Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Report To:

As above

Sample Description: Soil

Sample Type: GRAB

Location: Boring B-16

Date Collected: 08-08-90

Date Received: 08/09/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/21/90	Vick	SW-846 Test Methods Evaluating Solid Was
Arsenic (leachate)	0.008 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Barium (leachate)	0.13 mg/l	08/28/90	Isler	Flame atomic abs.
Cadmium (leachate)	<0.002 mg/l	08/28/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/28/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/24/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/24/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.004 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	<0.002 mg/l	08/28/90	Isler	Flame atomic abs.

Remarks

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Laboratory Report

Date: 09/11/90 Page 3 of 3

Lab Control No: 10,455

P.O. Number: 0609

Job No.: 007357

Sample Source:

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Send To:

As above

Sample Description: Soil

Sample Type: GRAB

Location: Boring B-16

Date Collected: 08-08-90

Date Received: 08/09/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Quality Control Data	See Attached	09/11/90		

Remarks

State Certification No. M-10-1

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P.O. Box 576
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Channahon, IL. 60410-
Attn: Mr. Paul Barding

Date: 09/18/90

Lab Control No: 10,514

P.O. Number: 0609

Job No.: 007357

Bill To:

As above

Sample Description: Soil

Sample Type: GRAB

Location: Sample B-17

Date Collected: 08-10-90

Date Received: 08/11/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.157 mg/kg	09/11/90	Rogers	Distillation Chloroform extraction
Total React. Cyanide	<0.02 mg/kg	08/21/90	Hoover	Colorimetric
Total React. Sulfide	0.99 mg/kg	08/21/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	8.22	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/16/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/16/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquids.
(2) See attached list for target compounds & respective detection limits.

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Channahon, IL 60410-
Attn: Mr. Paul Barding

Date: 09/18/90 Page 2 of

Lab Control No: 10,514

P.O. Number: 0609 Job No.: 007357

Bill To:

As above

Sample Description	Sample Type	Location
Soil	GRAB	Sample B-17

Date Collected	Date Received	Collected By	Time of Collection
08-10-90	08/11/90	Client	00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/24/90	Vick	SW-846 Test Methods Evaluating Solid Wast
Arsenic (leachate)	0.002 mg/l	08/30/90	Isler	Atomic absorption Graphite furnace
Barium (leachate)	0.07 mg/l	08/31/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.004 mg/l	08/31/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/31/90	Isler	Flame atomic abs.
Mercury (leachate)	0.0002 mg/l	08/30/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	0.003 mg/l	08/29/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.002 mg/l	08/31/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

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Date: 09/18/90 Page 1 of 2

Lab Control No: 10,515

P.O. Number: 0609 Job No: 007357

Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:
As above

Sample Description: Soil
Sample Type: GRAB
Location: Sample B-18
Date Collected: 08-10-90
Date Received: 08/11/90
Collected By: Client
Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.164 mg/kg	09/11/90	Rogers	Distillation Chloroform extractio
Total React. Cyanide	<0.02 mg/kg	08/21/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/21/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	8.64	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/16/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/17/90	Taylor	Gas chromatography Electron capture

Remarks
(1) No free liquids.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: [signature]

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Sample Source
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Date
09/18/9

Lab Control No
10,515

P.O. Number
0609

Bill To:
As above

Sample Description
Soil

Sample Type
GRAB

Location
Sample B-18

Date Collected
08-10-90

Date Received
08/11/90

Collected By
Client

Time of Collection
00:00

Parameter	Results	Date Analyzed	Analyst	Method
EPA EXTRACTION PROCEDURE	COMPLETED	08/24/90	Vick	SW-84 Evalu
Arsenic (leachate)	0.002 mg/l	08/30/90	Isler	Atomi Graph
Barium (leachate)	0.08 mg/l	08/31/90	Isler	Flame
Cadmium (leachate)	0.004 mg/l	08/31/90	Isler	Flame
Chromium (leachate)	0.05 mg/l	08/31/90	Isler	Flame
Lead (leachate)	<0.03 mg/l	08/31/90	Isler	Flam
Mercury (leachate)	0.0003 mg/l	08/30/90	Hostettler	Atom Cold
Selenium (leachate)	0.004 mg/l	08/29/90	Isler	Atom Grap
Silver (leachate)	0.003 mg/l	08/31/90	Isler	Flam

Remarks

State Certification No. M-10-1

Analysis Reviewed By

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Laboratory Report

Date: 09/18/90 Page 1 of 2

Lab Control No: 10,516

P.O. Number: 0609 Job No.: 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description	Sample Type	Location
Soil	GRAB	Sample B-19

Date Collected	Date Received	Collected By	Time of Collection
08-10-90	08/11/90	Client	00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.153 mg/kg	09/11/90	Rogers	Distillation Chloroform extraction
Total React. Cyanide	<0.02 mg/kg	08/21/90	Hoover	Colorimetric
Total React. Sulfide	1.49 mg/kg	08/21/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	8.01	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/16/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/17/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquids.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

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Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Date: 09/18/90

Lab Control No: 10,516

P.O. Number: 0609

Bill To:

As above

Sample Description	Sample Type	Location
Soil	GRAB	Sample B-19

Date Collected	Date Received	Collected By	Time of Collection
08-10-90	08/11/90	Client	00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analy
EPA EXTRACTION PROCEDURE	COMPLETED	08/24/90	Vick	SW-846 Te Evaluatin
Arsenic (leachate)	0.003 mg/l	08/30/90	Isler	Atomic ab Graphite
Barium (leachate)	0.04 mg/l	08/31/90	Isler	Flame ato
Cadmium (leachate)	0.002 mg/l	08/31/90	Isler	Flame ato
Chromium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame ato
Lead (leachate)	<0.03 mg/l	08/31/90	Isler	Flame ato
Mercury (leachate)	0.0003 mg/l	08/30/90	Hostettler	Atomic ab Cold vapo
Selenium (leachate)	0.003 mg/l	08/29/90	Isler	Atomic ab Graphite
Silver (leachate)	<0.002 mg/l	08/31/90	Isler	Flame ato

Remarks

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Laboratory Report

Date 09/06/90 Page 1 of 2

Lab Control No 10,517

P.O. Number 0609 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To

As above

Sample Description: Soil | Sample Type: GRAB | Location: Sample B-20

Date Collected: 08-10-90 | Date Received: 08/11/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	(0.222 mg/kg	08/27/90	Rogers	Distillation Chloroform extraction
Total React. Cyanide	(0.02 mg/kg	08/21/90	Hoover	Colorimetric
Total React. Sulfide	(0.49 mg/kg	08/21/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	)210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	8.14	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/16/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/17/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By B. Rod Carrie

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Laboratory Report

Date 09/06/90 Page 2 of 2

Lab Control No 10,517

P.O. Number 0609 Job No. 007357

ple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To.

As above

mple Description: Soil | Sample Type: GRAB | Location: Sample B-20

e Collected: 08-10-90 | Date Received: 08/11/90 | Collected By: Client | Time of Collection: 00:00 :

arameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/28/90	Vick	SW-846 Test Methods Evaluating Solid Wast
Arsenic (leachate)	<0.002 mg/l	08/30/90	Isler	Atomic absorption Graphite furnace
rium (leachate)	0.05 mg/l	08/31/90	Isler	Flame atomic abs.
Cadmium (leachate)	<0.002 mg/l	08/31/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/31/90	Isler	Flame atomic abs.
Mercury (leachate)	0.0003 mg/l	09/04/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	<0.002 mg/l	09/05/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.002 mg/l	08/31/90	Isler	Flame atomic abs.

arks

ate Certification No. M-10-1

Analysis Reviewed By R. Rodcamp

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Laboratory Report

Date: 09/18/90 Page 1

Lab Control No: 10,518

P.O. Number: 0609 Job No. 00735

Sample Source

Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Sample To

As above

Sample Description	Sample Type	Location
Soil	GRAB	Sample B-21

Date Collected	Date Received	Collected By	Time of Collection
08-10-90	08/11/90	Client	00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.165 mg/kg	09/11/90	Rogers	Distillation Chloroform extracti
Total React. Cyanide	<0.02 mg/kg	08/21/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/21/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	8.20	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/17/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/21/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquids.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

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Laboratory Report

Date: 09/18/90 Page 1

Lab Control No: 10,518

P.O. Number: 0609 Job No. 00735

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To

As above

Sample Description: Soil | Sample Type: GRAB | Location: Sample B-21

Date Collected: 08-10-90 | Date Received: 08/11/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.165 mg/kg	09/11/90	Rogers	Distillation Chloroform extract
Total React. Cyanide	<0.02 mg/kg	08/21/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/21/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	8.20	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/17/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography FID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/21/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquids.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

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Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Date
09/18/90

Lab Control No
10,518

P.O Number
0609

Bill To:

As above

Sample Description
Soil

Sample Type
GRAB

Location
Sample B-21

Date Collected
08-10-90

Date Received
08/11/90

Collected By
Client

Time of Collection
00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of
EPA EXTRACTION PROCEDURE	COMPLETED	08/28/90	Vick	SW-846 Evalua
Arsenic (leachate)	<0.002 mg/l	08/30/90	Isler	Atomic Graphi
Barium (leachate)	0.21 mg/l	08/31/90	Isler	Flame
Cadmium (leachate)	<0.002 mg/l	08/31/90	Isler	Flame
Chromium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame
Lead (leachate)	<0.03 mg/l	08/31/90	Isler	Flame
Mercury (leachate)	0.0003 mg/l	07/04/90	Hostettler	Atomic Cold v
Selenium (leachate)	<0.002 mg/l	09/05/90	Isler	Atomic Graphi
Silver (leachate)	<0.002 mg/l	08/31/90	Isler	Flame

Remarks

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I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Date: 09/18

Lab Control No.: 10,51

P.O. Number: 0609

Bill To:

As above

Sample Description	Sample Type	Location
Soil	GRAB	Sample B-22

Date Collected	Date Received	Collected By	Time of Collection
08-10-90	08/11/90	Client	00:00

Parameter	Results	Date Analyzed	Analyst	Metho
Phenols, total	<0.159 mg/kg	09/11/90	Rogers	Dist Chlo
Total React. Cyanide	<0.02 mg/kg	08/21/90	Hoover	Colo
Total React. Sulfide	4.99 mg/kg	08/21/90	Hoover	Titr
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pens Clos
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visu
pH(w)	8.76	08/11/90	Rogers	Elec
PCB Extraction	PERFORMED	08/17/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas PID,
Total PCB[s]	None Detected DL = 1 mg/kg	08/21/90	Taylor	Gas Elec

Remarks

(1) No free liquids.
(2) See attached list for target compounds & respective detection limits

State Certification No. M-10-1

Analysis Reviewed By

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Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Date 09/1

Lab Control No. 10,5

P.O. Number 0609

Bill To:

As above

Sample Description: Soil | Sample Type: GRAB | Location: Sample B-22

Date Collected: 08-10-90 | Date Received: 08/11/90 | Collected By: Client | Time of Collection: 00:0

Parameter	Results	Date Analyzed	Analyst	Met
EPA EXTRACTION PROCEDURE	COMPLETED	08/28/90	Vick	SW- Ev.
Arsenic (leachate)	<0.002 mg/l	08/30/90	Isler	At. Gr.
Barium (leachate)	0.11 mg/l	08/31/90	Isler	Fl
Cadmium (leachate)	<0.002 mg/l	08/31/90	Isler	Fl
Chromium (leachate)	<0.01 mg/l	08/31/90	Isler	Fl
Lead (leachate)	<0.03 mg/l	08/31/90	Isler	Fl
Mercury (leachate)	0.0003 mg/l	09/04/90	Hostettler	At Cc
Selenium (leachate)	<0.002 mg/l	09/05/90	Isler	At Gr
Silver (leachate)	0.002 mg/l	08/31/90	Isler	Fl

Remarks

State Certification No. M-10-1

Analysis Reviewed By

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Laboratory Report

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Date: 09/18/90

Page 1

Lab Control No: 10,520

P.O. Number: 0609

Job No: 007

Bill To:

As above

Sample Description: Soil

Sample Type: GRAB

Location: Sample B-23

Date Collected: 08-10-90

Date Received: 08/11/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	0.433 mg/kg	09/11/90	Rogers	Distillation Chloroform extract
Total React. Cyanide	<0.02 mg/kg	08/21/90	Hoover	Colorimetric
Total React. Sulfide	0.99 mg/kg	08/21/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	7.41	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/17/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/21/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquids.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

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Date: 09/18/90 Page 2

Lab Control No: 10,520

P.O. Number: 0609

Job No.: 00735

Sample Source:

Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description: Soil

Sample Type: GRAB

Location: Sample B-23

Date Collected: 08-10-90

Date Received: 08/11/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/28/90	Vick	SW-846 Test Methods Evaluating Solid Wa
Arsenic (leachate)	<0.002 mg/l	08/30/90	Isler	Atomic absorption Graphite furnace
Barium (leachate)	0.03 mg/l	08/31/90	Isler	Flame atomic abs.
Cadmium (leachate)	<0.002 mg/l	08/31/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/31/90	Isler	Flame atomic abs.
Mercury (leachate)	0.0002 mg/l	09/04/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	<0.002 mg/l	09/05/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.002 mg/l	08/31/90	Isler	Flame atomic abs.

Remarks

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Date: 09/18/90 Page 1

Lab Control No: 10,521

P.O. Number: 0609 Job No: 00735

nple Source

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Channahon, IL 60410-
Attn: Mr. Paul Barding

t To:

As above

mple Description: Soil | Sample Type: GRAB | Location: Sample B-24

Date Collected: 08-10-90 | Date Received: 08/11/90 | Collected By: Client | Time of Collection: 00:00 :

ameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.142 mg/kg	09/11/90	Rogers	Distillation: Chloroform extract
Total React. Cyanide	<0.02 mg/kg	08/21/90	Hoover	Colorimetric
Total React. Sulfide	0.99 mg/kg	08/21/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	8.06	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/17/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography FID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/21/90	Taylor	Gas chromatography Electron capture

marks

(1) No free liquids.
(2) See attached list for target compounds & respective detection limits.

tate Certification No. M-10-1

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Laboratory Report

Date: 09/18/90 Page 2 of

Lab Control No: 10,521

P.O. Number: 0609 Job No. 007357

Sample Source:
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Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:
As above

Sample Description: Soil | Sample Type: GRAB | Location: Sample B-24

Date Collected: 08-10-90 | Date Received: 08/11/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/28/90	Vick	SW-846 Test Methods Evaluating Solid Was
Arsenic (leachate)	0.004 mg/l	08/30/90	Isler	Atomic absorption Graphite furnace
Barium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.003 mg/l	08/31/90	Isler	Flame atomic abs.
Chromium (leachate)	0.02 mg/l	08/31/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/31/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	09/04/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	<0.002 mg/l	09/05/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.008 mg/l	08/31/90	Isler	Flame atomic abs.

Remarks

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Date: 09/18/90 Page 1

Lab Control No: 10,522

P.O. Number: 0609 Job No.: 00735

Sample Source:
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P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:
As above

Sample Description	Sample Type	Location
Soil	GRAB	Sample B-25

Date Collected	Date Received	Collected By	Time of Collection
08-10-90	08/11/90	Client	00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	0.573 mg/kg	09/11/90	Rogers	Distillation Chloroform extracti
Total React. Cyanide	<0.02 mg/kg	08/21/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/21/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	7.43	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/17/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/21/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquids.
(2) See attached list for target compounds & respective detection limits.

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Date 09/18/90 Page 2 of

Lab Control No 10,522

P.O. Number 0609 Job No. 007357

ple Source

Best Environmental
P.O. Box 576
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Channahon, IL 60410-
Attn: Mr. Paul Barding

To

As above

mple Description: Soil | Sample Type: GRAB | Location: Sample B-25

te Collected: 08-10-90 | Date Received: 08/11/90 | Collected By: Client | Time of Collection: 00:00 :

ameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/28/90	Vick	SW-846 Test Methods Evaluating Solid Was
Arsenic (leachate)	0.003 mg/l	08/30/90	Isler	Atomic absorption Graphite furnace
rium (leachate)	0.18 mg/l	08/31/90	Isler	Flame atomic abs.
Cadmium (leachate)	<0.002 mg/l	08/31/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/31/90	Isler	Flame atomic abs.
Mercury (leachate)	0.0002 mg/l	09/04/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	<0.002 mg/l	09/05/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.017 mg/l	08/31/90	Isler	Flame atomic abs.

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Date: 09/18/90 Page 1 of

Lab Control No: 10,523

P.O. Number: 0609

Job No.: 007357

ple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description	Sample Type	Location
Soil	GRAB	Sample B-26

Date Collected	Date Received	Collected By	Time of Collection
08-10-90	08/11/90	Client	00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.158 mg/kg	09/11/90	Rogers	Distillation Chloroform extractic
Total React. Cyanide	<0.02 mg/kg	08/21/90	Hoover	Colorimetric
tal React. Sulfide	2.49 mg/kg	08/21/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	7.72	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/17/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/21/90	Taylor	Gas chromatography Electron capture

arks

(1) No free liquids.
(2) See attached list for target compounds & respective detection limits.

ate Certification No. M-10-1

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Date 09/18/90 Page 2

Lab Control No 10,523

P.O. Number 0609 Job No. 00735

Sample Source

Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To

As above

Sample Description: Soil | Sample Type: GRAB | Location: Sample B-26

Date Collected: 08-10-90 | Date Received: 08/11/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/28/90	Vick	SW-846 Test Methods Evaluating Solid Wa
Arsenic (leachate)	0.003 mg/l	08/30/90	Isler	Atomic absorption Graphite furnace
Barium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.002 mg/l	08/31/90	Isler	Flame atomic abs.
Chromium (leachate)	0.05 mg/l	08/31/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/31/90	Isler	Flame atomic abs.
Mercury (leachate)	0.0002 mg/l	09/04/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	<0.002 mg/l	09/05/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.012 mg/l	08/31/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

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Date: 09/18/90 Page 1 of

Lab Control No: 10,524

P.O. Number: 0609 Job No.: 00735

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:
As above

Sample Description: Soil
Sample Type: GRAB
Location: Sample B-27
Date Collected: 08-10-90
Date Received: 08/11/90
Collected By: Client
Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	0.852 mg/kg	09/11/90	Rogers	Distillation Chloroform extracti
Total React. Cyanide	<0.02 mg/kg	08/21/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/21/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	6.06	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/17/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB(s)	None Detected DL = 1 mg/kg	08/21/90	Taylor	Gas chromatography Electron capture

Remarks
(1) No free liquids.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

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Laboratory Report

Date 09/18/90 Page 2 of 2

Lab Control No 10,524

P.O. Number 0609 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

Sample Description: Soil | Sample Type: GRAB | Location: Sample B-27

Date Collected: 08-10-90 | Date Received: 08/11/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/28/90	Vick	SW-846 Test Methods Evaluating Solid Was
Arsenic (leachate)	0.003 mg/l	08/30/90	Isler	Atomic absorption Graphite furnace
arium (leachate)	0.13 mg/l	08/31/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.006 mg/l	08/31/90	Isler	Flame atomic abs.
Chromium (leachate)	0.06 mg/l	08/31/90	Isler	Flame atomic abs.
Lead (leachate)	0.04 mg/l	08/31/90	Isler	Flame atomic abs.
Mercury (leachate)	0.0003 mg/l	09/04/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	(0.002 mg/l	09/05/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.009 mg/l	08/31/90	Isler	Flame atomic abs.

Remarks

ate Certification No. M-10-1

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Laboratory Report

Date: 09/18/90 Page 1 of

Lab Control No: 10,525

P.O. Number: 0609 Job No.: 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:
As above

Sample Description: Soil
Sample Type: GRAB
Location: Sample B-28
Date Collected: 08-10-90
Date Received: 08/11/90
Collected By: Client
Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total :	<0.157 mg/kg	09/11/90	Rogers	Distillation Chloroform extractic
Total React. Cyanide	<0.02 mg/kg	08/21/90	Hoover	Colorimetric
Total React. Sulfide	0.99 mg/kg	08/21/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	7.42	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/17/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/23/90	Taylor	Gas chromatography Electron capture

Remarks
(1) No free liquids.
(2) See attached list for target compounds & respective detection limits.

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Date 09/18/90 Page 2 of

Lab Control No 10,525

P.O. Number 0609 Job No. 007357

Sample Source
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To: As above

Sample Description: Soil
Sample Type: GRAB
Location: Sample B-28
Date Collected: 08-10-90
Date Received: 08/11/90
Collected By: Client
Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/29/90	Vick	SW-846 Test Methods Evaluating Solid Was
Arsenic (leachate)	0.013 mg/l	09/05/90	Isler	Atomic absorption Graphite furnace
Barium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.004 mg/l	09/07/90	Isler	Flame atomic abs.
Chromium (leachate)	0.02 mg/l	08/31/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	09/07/90	Isler	Flame atomic abs.
Mercury (leachate)	0.0003 mg/l	09/04/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	<0.002 mg/l	09/05/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.011 mg/l	09/07/90	Isler	Flame atomic abs.

Remarks

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Date: 09/18/90 Page 1 of

Lab Control No: 10,526

P.O. Number: 0609 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To

As above

Sample Description: Soil

Sample Type: GRAB

Location: Sample B-29

Date Collected: 08-10-90

Date Received: 08/11/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.152 mg/kg	09/11/90	Rogers	Distillation : Chloroform extractic
Total React. Cyanide	<0.02 mg/kg	08/21/90	Hoover	Colorimetric
Total React. Sulfide	1.99 mg/kg	08/21/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	8.06	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/17/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/23/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquids.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

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Date: 09/18/90

Lab Control No: 10,526

P.O. Number: 0609

Job No.: 007357

Sample Source:

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Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

Sample Description: Soil

Sample Type: GRAB

Location: Sample B-29

Date Collected: 08-10-90

Date Received: 08/11/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/29/90	Vick	SW-846 Test Methods Evaluating Solid Wast
Arsenic (leachate)	0.002 mg/l	09/05/90	Isler	Atomic absorption Graphite furnace
Barium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Cadmium (leachate)	<0.002 mg/l	08/31/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/31/90	Isler	Flame atomic abs.
Mercury (leachate)	0.0002 mg/l	09/04/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	<0.002 mg/l	09/05/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.008 mg/l	08/31/90	Isler	Flame atomic abs.

Remarks

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Laboratory Report

Date: 09/18/90 Page 1 of

Lab Control No: 10,527

P.O. Number: 0609

Job No.: 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description	Sample Type	Location
Soil	GRAB	Sample B-30

Date Collected	Date Received	Collected By	Time of Collection
08-10-90	08/11/90	Client	00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.154 mg/kg	09/11/90	Rogers	Distillation Chloroform extractio
Total React. Cyanide	<0.02 mg/kg	08/21/90	Hoover	Colorimetric
otal React. Sulfide	1.49 mg/kg	08/21/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	8.36	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/17/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/23/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquids.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

Environmental Consultants, Inc.
30. Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environment Consultants

Professional Laboratory Services

Laboratory Report

Date: 09/18/90 Page 2

Lab Control No: 10,527

P.O. Number: 0609 Job No: 0073

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Report To:
As above

Sample Description: Soil
Sample Type: GRAB
Location: Sample B-30
Date Collected: 08-10-90
Date Received: 08/11/90
Collected By: Client
Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/29/90	Vick	SW-846 Test Method Evaluating Solid W
Arsenic (leachate)	0.002 mg/l	09/05/90	Isler	Atomic absorption Graphite furnace
Barium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.002 mg/l	08/31/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	08/31/90	Isler	Flame atomic abs.
Mercury (leachate)	0.0005 mg/l	09/04/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	<0.002 mg/l	09/05/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.007 mg/l	08/31/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

Analysis Reviewed By

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Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

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Professional Laboratory Services

Laboratory Report

Date: 09/19/90 Page 1

Lab Control No: 10,528

P.O. Number: 0609 Job No. 00735

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description: Soil

Sample Type: GRAB

Location: Sample B-31

Date Collected: 08-10-90

Date Received: 08/11/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.150 mg/kg	09/11/90	Rogers	Distillation Chloroform extracti
Total React. Cyanide	<0.02 mg/kg	08/22/90	Hoover	Colorimetric
Total React. Sulfide	2.99 mg/kg	08/22/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	Passed	08/11/90	Cariel	Visual
pH(w)	8.19	08/11/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/17/90	Davis	
F-List Solvent Scan (2)	None Detected	08/24/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/23/90	Taylor	Gas chromatography Electron capture

Remarks

(1) No free liquids.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: [signature]

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Environmental Consultants

Laboratory Report

Date 09/19/90 Page 2 of 2

Lab Control No 10,528

P.O. Number 0609 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

Sample Description: Soil | Sample Type: GRAB | Location: Sample B-31

Date Collected: 08-10-90 | Date Received: 08/11/90 | Collected By: Client | Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/29/90	Vick	SW-846 Test Methods Evaluating Solid Wast
Arsenic (leachate)	0.003 mg/l	09/05/90	Isler	Atomic absorption Graphite furnace
Barium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Cadmium (leachate)	<0.002 mg/l	09/07/90	Isler	Flame atomic abs.
Chromium (leachate)	<0.01 mg/l	08/31/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	09/07/90	Isler	Flame atomic abs.
Mercury (leachate)	0.0002 mg/l	09/04/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	<0.002 mg/l	09/05/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.010 mg/l	09/07/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

Analysis Reviewed By

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Professional Laboratory Services

Laboratory Report

Date: 09/05/90

Lab Control No: 10,360

P.O. Number: 0609

Job No.: 00735

Sample Source:
Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:
As above

Sample Description: Water

Sample Type: GRAB

Location: Sample P-1

Date Collected: 08-07-90

Date Received: 08/08/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
pH	8.38	08/10/90	Rogers	Electrometric
Phenols, total	0.006 mg/l	08/09/90	Rogers	Distillation Chloroform extracti
Flash point	>210. deg. F.	09/03/90	Mattingly	Pensky-Martens Closed Cup
Total React. Cyanide	<0.02 mg/l	08/14/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/l	08/14/90	Hoover	Titrimetric
Paint Filter Test	Failed	08/30/90	Vick	Gravimetric
PCB Extraction	PERFORMED	08/16/90	Davis	
F-List Solvent Scan (1)	None Detected	08/20/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 10 ug/l	08/20/90	Taylor	Gas chromatography Electron capture

Remarks

(1) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed

ENVIRONMENTAL CONSULTANTS, INC
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Laboratory Report

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Date: 08/31/90

Lab Control No: 10,361

P.O. Number: 0609

Job No.: 007357

Bill To:

As above

Sample Description: Soil

Sample Type: GRAB

Location: Sample P-2

Date Collected: 08-07-90

Date Received: 08/08/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.237 mg/kg	08/16/90	Rogers	Distillation Chloroform extractic
Total React. Cyanide	<0.02 mg/kg	08/14/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/14/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	08/30/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/08/90	Cariel	Visual
pH(w)	8.73	08/10/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/13/90	Davis	
F-List Solvent Scan (2)	None Detected	08/20/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/14/90	Peyton	Gas chromatography Electron capture

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed

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Laboratory Report

Date: 08/31/90 Page 2 of

Lab Control No: 10,361

P.O. Number: 0609 Job No. 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:
As above

Sample Description: Soil
Sample Type: GRAB
Location: Sample P-2
Date Collected: 08-07-90
Date Received: 08/08/90
Collected By: Client
Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
TCLP Extraction Procedure	COMPLETED	08/15/90	Young	
Arsenic (TCLP)	0.018 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
rium (TCLP)	0.79 mg/l	08/20/90	Isler	Flame atomic abs.
Cadmium (TCLP)	0.020 mg/l	08/23/90	Isler	Flame atomic abs.
Chromium (TCLP)	3.46 mg/l	08/20/90	Isler	Flame atomic abs.
Lead (TCLP)	<0.03 mg/l	08/20/90	Isler	Flame atomic abs.
Mercury (TCLP)	0.0003 mg/l	08/20/90	Hostettler	Atomic absorption Cold vapor
Selenium (TCLP)	<0.01 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Silver (TCLP)	0.010 mg/l	08/20/90	Isler	Flame atomic abs.

State Certification No. M-10-1

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Laboratory Report

Date 08/31/90 Page 1 of

Lab Control No 10,362

P.O. Number 0609 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

Sample Description: Soil

Sample Type: GRAB

Location: Sample P-3

Date Collected: 08-07-90

Date Received: 08/08/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	2.598 mg/kg	08/16/90	Rogers	Distillation Chloroform extractic
Total React. Cyanide	<0.02 mg/kg	08/13/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	08/30/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/08/90	Cariel	Visual
pH(w)	7.34	08/10/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/13/90	Davis	
F-List Solvent Scan (2)	None Detected	08/20/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 2 mg/kg	08/14/90	Peyton	Gas chromatography Electron capture

Remarks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

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Professional Laboratory Services

Laboratory Report

Date: 08/31/90 Page 2

Lab Control No: 10,362

P.O. Number: 0609 Job No. 00735

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:
As above

Sample Description: Soil
Sample Type: GRAB
Location: Sample P-3
Date Collected: 08-07-90
Date Received: 08/08/90
Collected By: Client
Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
TCLP Extraction Procedure	COMPLETED	08/15/90	Young	
Arsenic (TCLP)	0.008 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
rium (TCLP) (1)	126. mg/l	08/28/90	Isler	Flame atomic abs.
Cadmium (TCLP)	0.047 mg/l	08/28/90	Isler	Flame atomic abs.
Chromium (TCLP)	<0.01 mg/l	08/28/90	Isler	Flame atomic abs.
Lead (TCLP)	0.06 mg/l	08/28/90	Isler	Flame atomic abs.
Mercury (TCLP)	<0.0002 mg/l	08/20/90	Hostettler	Atomic absorption Cold vapor
Selenium (TCLP)	0.005 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Silver (TCLP)	0.007 mg/l	08/28/90	Isler	Flame atomic abs.

Remarks

(1) Exceeds the regulatory limit for Barium.

State Certification No. M-10-1

Analysis Reviewed By: [signature]

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Professional Laboratory Services

Laboratory Report

Date: 08/31/90 Page 1 of

Lab Control No: 10,363

P.O. Number: 0609

Job No.: 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:
As above

Sample Description: Soil

Sample Type: GRAB

Location: Sample P-4

Date Collected: 08-07-90

Date Received: 08/08/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	<0.236 mg/kg	08/16/90	Rogers	Distillation Chloroform extractio
Total React. Cyanide	<0.02 mg/kg	08/14/90	Hoover	Colorimetric
tal React. Sulfide	1.99 mg/kg	08/14/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	08/30/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/08/90	Cariel	Visual
pH(w)	8.47	08/10/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/13/90	Davis	
F-List Solvent Scan (2)	None Detected	08/20/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/14/90	Peyton	Gas chromatography Electron capture

Remarks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: [signature]

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Laboratory Report

Date: 08/31/90 Page 2 of

Lab Control No: 10,363

P.O. Number: 0609

Job No.: 007357

ple Source

Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

ple Description: Soil

Sample Type: GRAB

Location: Sample P-4

te Collected: 08-07-90

Date Received: 08/08/90

Collected By: Client

Time of Collection: 00:00

rameter	Results	Date Analyzed	Analyst	Method of Analysis
TCLP Extraction Procedure	COMPLETED	08/15/90	Young	
Arsenic (TCLP)	0.008 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
rium (TCLP)	<0.01 mg/l	08/20/90	Isler	Flame atomic abs.
Cadmium (TCLP)	<0.002 mg/l	08/23/90	Isler	Flame atomic abs.
Chromium (TCLP)	<0.01 mg/l	08/20/90	Isler	Flame atomic abs.
Lead (TCLP)	<0.03 mg/l	08/20/90	Isler	Flame atomic abs.
Mercury (TCLP)	<0.0002 mg/l	08/20/90	Hostettler	Atomic absorption Cold vapor
Selenium (TCLP)	0.003 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Silver (TCLP)	0.018 mg/l	08/20/90	Isler	Flame atomic abs.

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Analysis Reviewed By

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Laboratory Report

Date: 09/24/90 Page 1 of

Lab Control No: 10,364

P.O. Number: 0609 Job No. 00735

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:
As above

Sample Description: Unknown Oil/Soil
Sample Type: GRAB
Location: Sample P-5
Date Collected: 08-07-90
Date Received: 08/08/90
Collected By: Client
Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
pH	6.74	08/10/90	Rogers	Electrometric
Phenols, total	5.093 mg/kg	08/23/90	Rogers	Distillation Chloroform extracti
ash point	>210. deg. F.	09/03/90	Mattingly	Pensky-Martens Closed Cup
Total React. Cyanide	<0.02 mg/kg	08/14/90	Hoover	Colorimetric
Total React. Sulfide	0.99 mg/kg	08/14/90	Hoover	Titrimetric
Paint Filter Test	Failed	08/30/90	Vick	Gravimetric
F-List Solvent Scan (1)	Detected	08/20/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s] (2)	None Detected DL = 50 ppm	09/06/90	Taylor	Gas chromatography Electron capture
1,1,1-Trichloroethane	5.0 mg/kg	08/20/90	Clark, T.	Gas chromatography HECD, Purge & Trap

Remarks

(1) See attached list for target compounds & respective detection limits.
(2) Performed on oil layer - Detection limit high due to matrix interferences.

State Certification No. M-10-1

Analysis Review

ENVIRONMENTAL CONSULTANTS INC
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Professional Laboratory Services

Laboratory Report

Date 09/24/90 Page 2 of

Lab Control No 10,364

P.O. Number 0609 Job No. 007357

Sample Source
Best Environmental
P.O. Box 576.
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:
As above

Sample Description: Unknown Oil/Soil
Sample Type: GRAB
Location: Sample P-5
Date Collected: 08-07-90
Date Received: 08/08/90
Collected By: Client
Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
EPA EXTRACTION PROCEDURE	COMPLETED	08/21/90	Vick	SW-846 Test Methods Evaluating Solid Was
Arsenic (leachate)	0.004 mg/l	09/19/90	Isler	Atomic absorption Graphite furnace
ium (leachate)	93.7 mg/l	09/21/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.015 mg/l	09/18/90	Isler	Flame atomic abs.
Chromium (leachate)	0.08 mg/l	09/18/90	Isler	Flame atomic abs.
Lead (leachate)	0.15 mg/l	09/20/90	Isler	Flame atomic abs.
Mercury (leachate)	<0.0002 mg/l	08/24/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	<0.002 mg/l	09/24/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	<0.002 mg/l	09/18/90	Isler	Flame atomic abs.

State Certification No. M-10-1

Analysis Reviewed

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Laboratory Report

Date 09/24/90 Page 3 of

Lab Control No 10,364

P.O. Number 0609 Job No. 007357

mple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

l To:

As above

ample Description: Unknown Oil/Soil

Sample Type: GRAB

Location: Sample P-5

te Collected: 08-07-90

Date Received: 08/08/90

Collected By: Client

Time of Collection: 00:00

arameter	Results	Date Analyzed	Analyst	Method of Analysis

ADDITIONAL COMMENTS FOR SAMPLE 110364:

Comment for Paint Filter Test:

This sample contains free liquids as defined and regulated by 40 CFR 264.314 and 265.314.

cs

Analysis Reviewed

ENVIRONMENTAL CONSULTANTS, INC.
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Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date: 09/07/90 Page 1 of

Lab Control No: 10,365

P.O. Number: 0609

Job No.: 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:
As above

Sample Description: Soil

Sample Type: GRAB

Location: Sample P-6

Date Collected: 08-07-90

Date Received: 08/08/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	4.927 mg/kg	08/23/90	Rogers	Distillation Chloroform extractio
Total React. Cyanide	<0.02 mg/kg	08/14/90	Hoover	Colorimetric
Total React. Sulfide	1.99 mg/kg	08/14/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	09/03/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/08/90	Cariel	Visual
pH(w)	7.04	08/10/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/13/90	Davis	
F-List Solvent Scan (2)	None Detected	08/20/90	Clark, T.	Gas chromatography PID, HECD and FID
Total PCB[s] (3)	None Detected DL = 10 mg/kg	09/06/90	Taylor	Gas chromatography Electron capture

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.
(3) Detection limit high due to matrix interferences.

State Certification No. M-10-1

Analysis Reviewed

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Professional Laboratory Services

Laboratory Report

Date 09/07/90 Page 2

Lab Control No 10,365

P.O. Number 0609 Job No. 00735

Sample Source
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To: As above

Sample Description: Soil
Sample Type: GRAB
Location: Sample P-6
Date Collected: 08-07-90
Date Received: 08/08/90
Collected By: Client
Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
TCLP Extraction Procedure	COMPLETED	08/15/90	Young	
Arsenic (TCLP)	0.005 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Barium (TCLP)	0.74 mg/l	08/20/90	Isler	Flame atomic abs.
Cadmium (TCLP)	0.043 mg/l	08/23/90	Isler	Flame atomic abs.
Chromium (TCLP)	<0.01 mg/l	08/20/90	Isler	Flame atomic abs.
Lead (TCLP)	0.12 mg/l	08/20/90	Isler	Flame atomic abs.
Mercury (TCLP)	0.0002 mg/l	08/20/90	Hostettler	Atomic absorptio Cold vapor
Selenium (TCLP)	0.003 mg/l	08/21/90	Isler	Atomic absorptio Graphite furnace
Silver (TCLP)	0.010 mg/l	08/20/90	Isler	Flame atomic abs

Remarks

Analysis Reviewed

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Professional Laboratory Services

Laboratory Report

Date: 09/06/90 Page 1

Lab Control No: 10,366

P.O. Number: 0609 Job No: 0072

Sample Source:
Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To: As above

Sample Description: Oil/Water
Sample Type: GRAB
Location: Sample P-7
Date Collected: 08-07-90
Date Received: 08/08/90
Collected By: Client
Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
pH	8.61	08/10/90	Rogers	Electrometric
Phenols, total	12.500 mg/kg	08/09/90	Rogers	Distillation Chloroform extract
Flash point	>210. deg. F.	09/03/90	Mattingly	Pensky-Martens Closed Cup
Total React. Cyanide	<0.02 mg/kg	08/14/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/14/90	Hoover	Titrimetric
Paint Filter Test	Failed	08/30/90	Vick	Gravimetric
F-List Solvent Scan	Detected	08/20/90	Clark, T.	Gas chromatography PID, HECD and FID
Toluene	205. ug/l	08/20/90	Clark, T.	Gas chromatography PID, Purge and Tra
Total Xylenes	23. ug/l	08/20/90	Clark, T.	Gas chromatography Flame ionization

Remarks

State Certification No. M-10-1

Analysis Reviewed

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Environment Consultants

Professional Laboratory Services

Laboratory Report

Date: 09/06/90 Page 2

Lab Control No: 10,366

P.O. Number: 0609 Job No. 0073

Sample Source:

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description	Sample Type	Location
Oil/Water	GRAB	Sample P-7

Date Collected	Date Received	Collected By	Time of Collection
08-07-90	08/08/90	Client	00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Total PCB[s]	None Detected DL = 5 ppm	09/04/90	Taylor	Gas chromatography Electron capture
Arsenic, total	0.036 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Barium, total	0.52 mg/l	08/23/90	Isler	Flame atomic abs.
Cadmium, total	0.006 mg/l	08/23/90	Isler	Flame atomic abs.
Chromium, total	0.14 mg/l	08/23/90	Isler	Flame atomic abs.
Lead, total	0.18 mg/l	08/24/90	Isler	Flame atomic abs.
Mercury, total	0.0012 mg/l	08/15/90	Hostettler	Atomic absorption Cold vapor
Selenium, total	0.020 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Silver, total	0.018 mg/l	08/23/90	Isler	Flame atomic abs.

Remarks

State Certification No. M 10 1

Analysis Reviewed

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Professional Laboratory Services

Laboratory Report

Date 09/06/90 Page 3

Lab Control No 10,366

P.O. Number 0609 Job No. 00735

ple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description	Sample Type	Location
Oil/Water	GRAB	Sample P-7

e Collected	Date Received	Collected By	Time of Collection
08-07-90	08/08/90	Client	00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
ADDITIONAL COMMENTS FOR SAMPLE 110366:				
Comment for Paint Filter Test:				
This sample contains free liquids as defined and regulated by 40 CFR 264.314 and 265.314.				

rks

ate Certification No. M-10-1

Analysis Reviewed

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Professional Laboratory Services

Laboratory Report

Date: 08/31/90 Page 1 of

Lab Control No: 10,367

P.O. Number: 0609 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

Sample Description: Soil

Sample Type: GRAB

Location: Sample P-8

Date Collected: 08-07-90

Date Received: 08/08/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Phenols, total	4.137 mg/kg	08/23/90	Rogers	Distillation Chloroform extractic
Total React. Cyanide	<0.02 mg/kg	08/13/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/kg	08/13/90	Hoover	Titrimetric
Ignitability (Fl. Pt.)	>210. deg. F	08/30/90	Mattingly	Pensky-Martens Closed Cup
Paint Filter Test (1)	See Comments	08/08/90	Cariel	Visual
pH(w)	8.90	08/10/90	Rogers	Electrometric
PCB Extraction	PERFORMED	08/13/90	Davis	
F-List Solvent Scan (2)	None Detected	08/20/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 1 mg/kg	08/14/90	Peyton	Gas chromatography Electron capture

ks

(1) No free liquid.
(2) See attached list for target compounds & respective detection limits.

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Professional Laboratory Services

Laboratory Report

Date: 08/31/90 Page 2 of

Lab Control No: 10,367

P.O. Number: 0609

Job No.: 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:
As above

Sample Description: Soil

Sample Type: GRAB

Location: Sample P-8

Date Collected: 08-07-90

Date Received: 08/08/90

Collected By: Client

Time of Collection: 00:00 :

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
TCLP Extraction Procedure	COMPLETED	08/15/90	Young	
Arsenic (TCLP)	0.009 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Barium (TCLP)	2.04 mg/l	08/20/90	Isler	Flame atomic abs.
Cadmium (TCLP)	0.092 mg/l	08/17/90	Isler	Flame atomic abs.
Chromium (TCLP)	0.48 mg/l	08/20/90	Isler	Flame atomic abs.
Lead (TCLP)	<0.03 mg/l	08/20/90	Isler	Flame atomic abs.
Mercury (TCLP)	0.0003 mg/l	08/20/90	Hostettler	Atomic absorption Cold vapor
Selenium (TCLP)	<0.002 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Silver (TCLP)	0.015 mg/l	08/20/90	Isler	Flame atomic abs.

Remarks

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Analysis Reviewed By: [signature]

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Professional Laboratory Services

Laboratory Report

Date: 09/05/90 Page 1 of 1

Lab Control No: 10,368

P.O. Number: 0609 Job No. 007357

mple Source

Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

ill To:

As above

mple Description: Sewage and Water | Sample Type: GRAB | Location: Sample P-9

ate Collected: 08-07-90 | Date Received: 08/08/90 | Collected By: Client | Time of Collection: 00:00

rameter	Results	Date Analyzed	Analyst	Method of Analysis
pH	7.89	08/10/90	Rogers	Electrometric
Phenols, total	0.170 mg/l	08/09/90	Rogers	Distillation Chloroform extractior
sh point	>210. deg. F.	09/03/90	Mattingly	Pensky-Martens Closed Cup
Total React. Cyanide	<0.02 mg/l	08/13/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/l	08/13/90	Hoover	Titrimetric
Paint Filter Test	Failed	08/30/90	Vick	Gravimetric
PCB Extraction	PERFORMED	08/14/90	Davis	
F-List Solvent Scan (1)	None Detected	08/20/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s] (2)	None Detected DL = 1 mg/kg	08/15/90	Taylor	Gas chromatography Electron capture

marks

(1) See attached list for target compounds & respective detection limits.
(2) PCB analysis performed on solid layer of sample.

tate Certification No. M-10-1

Analysis Reviewed By: [signature]

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Professional Laboratory Services

Laboratory Report

Date 09/05/90 Page 2 of

Lab Control No 10,368

P.O. Number 0609 Job No. 007357

mple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

l To.

As above

mple Description: Sewage and Water | Sample Type: GRAB | Location: Sample P-9

ate Collected: 08-07-90 | Date Received: 08/08/90 | Collected By: Client | Time of Collection: 00:00

arameter	Results	Date Analyzed	Analyst	Method of Analysis
Arsenic, total	0.011 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Barium, total	0.95 mg/l	08/20/90	Isler	Flame atomic abs.
dmium, total	0.023 mg/l	08/23/90	Isler	Flame atomic abs.
Chromium, total	0.12 mg/l	08/20/90	Isler	Flame atomic abs.
Lead, total	0.008 mg/l	08/20/90	Isler	Flame atomic abs.
Mercury, total	0.0006 mg/l	08/15/90	Hostettler	Atomic absorption Cold vapor
Selenium, total	0.004 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Silver, total	0.005 mg/l	08/23/90	Isler	Flame atomic abs.

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Professional Laboratory Services

Laboratory Report

Date: 09/05/90 Page 3

Lab Control No: 10,368

P.O. Number: 0609 Job No. 00735

Sample Source:
Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:
As above

Sample Description	Sample Type	Location
Sewage and Water	GRAB	Sample P-9

Date Collected	Date Received	Collected By	Time of Collection
08-07-90	08/08/90	Client	00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
ADDITIONAL COMMENTS FOR SAMPLE 110368:				
Comment for Paint Filter Test: This sample contains free liquids as defined and regulated by 40 CFR 264.314 and 265.314.				

Remarks

State Certification No. M-10-1

Analysis Reviewed By: Brad Carrigi

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Laboratory Report

Date
09/24/90 Page 1 of

Lab Control No
10,369

P.O. Number
0609

Job No.
00735

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description
Oil Water

Sample Type
GRAB

Location
Sample P-10

Date Collected
08-07-90

Date Received
08/08/90

Collected By
Client

Time of Collection
00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
pH	6.25	08/10/90	Rogers	Electrometric
Phenols, total	2.238 mg/l	08/23/90	Rogers	Distillation Chloroform extracti
ash point	>210. deg. F.	09/03/90	Mattingly	Pensky-Martens Closed Cup
Total React. Cyanide	<0.02 mg/l	08/14/90	Hoover	Colorimetric
Total React. Sulfide	<0.49 mg/l	08/14/90	Hoover	Titrimetric
Paint Filter Test	Failed	08/30/90	Vick	Gravimetric
F-List Solvent Scan	None Detected	08/20/90	Peyton	Gas chromatography PID, HECD and FID
Total PCB[s]	None Detected DL = 5 ppm	09/04/90	Taylor	Gas chromatography Electron capture
EPA EXTRACTION PROCEDURE	COMPLETED	08/24/90	Vick	SW-846 Test Methods Evaluating Solid Wa

Remarks

State Certification No. M-10-1

Analysis Reviewed

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Laboratory Report

Date: 09/24/90 Page 2 of

Lab Control No: 10,369

P.O. Number: 0609

Job No.: 007357

Sample Source:
Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To: As above

Sample Description: Oil Water

Sample Type: GRAB

Location: Sample P-10

Date Collected: 08-07-90

Date Received: 08/08/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Arsenic (leachate)	<0.002 mg/l	09/19/90	Isler	Atomic absorption Graphite furnace
Barium (leachate)	2.23 mg/l	09/18/90	Isler	Flame atomic abs.
Cadmium (leachate)	0.052 mg/l	09/18/90	Isler	Flame atomic abs.
Chromium (leachate)	0.07 mg/l	09/18/90	Isler	Flame atomic abs.
Lead (leachate)	<0.03 mg/l	09/20/90	Isler	Flame atomic abs.
Mercury (leachate)	0.0003 mg/l	08/30/90	Hostettler	Atomic absorption Cold vapor
Selenium (leachate)	<0.002 mg/l	09/24/90	Isler	Atomic absorption Graphite furnace
Silver (leachate)	0.006 mg/l	09/18/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

Analysis Reviewed By: [signature]

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Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Date: 09/24/90

Lab Control No: 10,369

P.O. Number: 0609

Bill To:

As above

Sample Description	Sample Type	Location
Oil Water	GRAB	Sample P-10

Date Collected	Date Received	Collected By	Time of Collection
08-07-90	08/08/90	Client	00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analys

ADDITIONAL COMMENTS FOR SAMPLE 110369:

Comment for Paint Filter Test:

This sample contains free liquids as defined and regulated by 40 CFR 264.314 and 265.314.

Remarks

State Certification No. M-10-1

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Laboratory Report

Date 08/27/90 Page 1 of 2

Lab Control No 10,532

P.O. Number 0609 Job No. 007357

ple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To.

As above

mple Description: Paint Chips | Sample Type: GRAB | Location: Paint Reel #1

e Collected: 08-10-90 | Date Received: 08/11/90 | Collected By: Client | Time of Collection: 00:00

rameter	Results	Date Analyzed	Analyst	Method of Analysis
TCLP Extraction Procedure	COMPLETED	08/15/90	Young	
Arsenic (TCLP)	0.019 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
um (TCLP)	<0.01 mg/l	08/20/90	Isler	Flame atomic abs.
Cadmium (TCLP)	0.310 mg/l	08/23/90	Isler	Flame atomic abs.
Chromium (TCLP)	0.15 mg/l	08/20/90	Isler	Flame atomic abs.
Lead (TCLP)	3.59 mg/l	08/20/90	Isler	Flame atomic abs.
Mercury (TCLP)	0.0012 mg/l	08/23/90	Hostettler	Atomic absorption Cold vapor
Selenium (TCLP)	0.008 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Silver (TCLP)	0.040 mg/l	08/23/90	Isler	Flame atomic abs.

arks

ate Certification No. M-10-1

Analysis Reviewed By

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Laboratory Report

Date: 08/27/90 Page 2 of

Lab Control No: 10,532

P.O. Number: 0609

Job No.: 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description	Sample Type	Location
Paint Chips	GRAB	Paint Reel #1

Date Collected	Date Received	Collected By	Time of Collection
08-10-90	08/11/90	Client	00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Quality Control Data	See Attached	08/27/90		

Remarks

State Certification No. M-10-1

Analysis Reviewed By

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Laboratory Report

Date: 08/28/90

Lab Control No: 10,533

P.O. Number: 0609

Job No.: 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To.

As above

Sample Description	Sample Type	Location
Paint Chips	GRAB	Paint Reel #2

Date Collected	Date Received	Collected By	Time of Collection
08-10-90	08/11/90	Client	00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
TCLP Extraction Procedure	COMPLETED	08/16/90	Weldon	
Arsenic (TCLP)	0.010 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
^ium (TCLP)	0.78 mg/l	08/23/90	Isler	Flame atomic abs.
Cadmium (TCLP)	0.177 mg/l	08/23/90	Isler	Flame atomic abs.
Chromium (TCLP)	<0.01 mg/l	08/23/90	Isler	Flame atomic abs.
Lead (TCLP) (1)	32.2 mg/l	08/24/90	Isler	Flame atomic abs.
Mercury (TCLP)	0.0003 mg/l	08/23/90	Hostettler	Atomic absorption Cold vapor
Selenium (TCLP)	<0.01 mg/l	08/27/90	Isler	Atomic absorption Graphite furnace
Silver (TCLP)	0.010 mg/l	08/23/90	Isler	Flame atomic abs.

Remarks

(1) Exceeds the regulatory limit for Lead.

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Professional Laboratory Services

Laboratory Report

Date: 08/28/90

Lab Control No: 10,533

P.O. Number: 0609

Job No.: 007357

...mple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

...To:

As above

Sample Description	Sample Type	Location
Paint Chips	GRAB	Paint Reel #2

...e Collected	Date Received	Collected By	Time of Collection
08-10-90	08/11/90	Client	00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Quality Control Data	See Attached	08/28/90		

...marks

...tate Certification No. M-10-1

Analysis Reviewed By [signature]

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Environmental Consultants

Laboratory Report

Date: 09/13/90

Lab Control No.: 10,493

P.O. Number: 0609

Job No.: 007357

Sample Source:

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description: Well Water

Sample Type: GRAB

Location: Monitering Well BW-1

Date Collected: 08-09-90

Date Received: 08/10/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Cyanide, total (CN)	<0.02 mg/l	08/16/90	Hoover	Distillation/ Colorimetric
Phenols, total	<0.010 mg/l	08/11/90	Rogers	Distillation Chloroform extraction
Acid/Base/Neutral Extract.	PERFORMED	08/14/90	Davis	
Priority Pollutant Vol. (1)	Detected	08/21/90	Wilson	Gas Chromatography Mass Spectrometry
Priority Pollutant Semi-Vol	None Detected	09/04/90	Cropper	Gas chromatography Mass Spectrometry
1,1-Dichloroethane	6. ug/l	08/21/90	Wilson	Gas chromatography Mass spectrometry
1,1,1-Trichloroethane	18. ug/l	08/21/90	Wilson	Gas chromatography Mass spectrometry
Antimony, total	<0.003 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Arsenic, total	0.047 mg/l	08/17/90	Hostettler	Atomic absorption Graphite furnace

Remarks

(1) See attached list for target compounds & respective detection limits.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: [signature]

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Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Report

Date 09/13/90

Lab Control No 10,493

PO Number 0609

Job No 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description: Well Water

Sample Type: GRAB

Location: Monitering Well BW-1

Date Collected: 08-09-90

Date Received: 08/10/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Beryllium, total	<0.005 mg/l	08/16/90	Isler	Flame atomic abs.
Cadmium, total	<0.002 mg/l	08/15/90	Isler	Flame atomic abs.
Chromium, total	0.090 mg/l	08/15/90	Isler	Atomic absorption Graphite furnace
Copper, total	0.12 mg/l	08/16/90	Hostettler	Flame atomic abs.
Lead, total	0.076 mg/l	08/15/90	Hostettler	Atomic absorption Graphite furnace
Mercury, total	0.0003 mg/l	08/14/90	Hostettler	Atomic absorption Cold vapor
Nickel, total	0.07 mg/l	08/16/90	Hostettler	Flame atomic abs.
Selenium, total	0.003 mg/l	08/17/90	Hostettler	Atomic absorption Graphite furnace
Silver, total	0.002 mg/l	08/15/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

Analysis Reviewed By

ORIGINAL

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Report

Date: 09/13/90 Page 3 of

Lab Control No: 10,493

P.O. Number: 0609 Job No. 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Send To:
As above

Sample Description: Well Water
Sample Type: GRAB
Location: Monitering Well BW-1
Date Collected: 08-09-90
Date Received: 08/10/90
Collected By: Client
Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Thallium, total	<0.005 mg/l	08/15/90	Isler	Atomic absorption Graphite furnace
Zinc, total	0.247 mg/l	08/16/90	Hostettler	Flame atomic abs.
Pest./PCB Extraction	PERFORMED	08/14/90	Slider	
Aldrin	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
alpha-BHC	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
beta-BHC	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
gamma-BHC (Lindane)	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
delta-BHC	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Chlordane	None Detected DL = 2.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture

Remarks

State Certification No. M-10-1

Analysis Reviewed By: [signature]

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Laboratory Report

Date 09/13/90 Page 4 of 6

Lab Control No 10,493

P.O. Number 0609 Job No. 007357

ple Source
Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To: As above

Sample Description	Sample Type	Location
Well Water	GRAB	Monitering Well BW-1

e Collected	Date Received	Collected By	Time of Collection
08-09-90	08/10/90	Client	00:00

rameter	Results	Date Analyzed	Analyst	Method of Analysis
4,4'-DDT	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
4,4'-DDE	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
' 4'-DDD	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Dieldrin	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
alpha-Endosulfan	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
beta-Endosulfan	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Endosulfan sulfate	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Endrin	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Endrin aldehyde	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture

arks

ate Certification No. M-10-1

Analysis Reviewed By

ORIGINAL

91 Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Report

Date: 09/13/90

Lab Control No: 10,493

P.O. Number: 0609

Job No.: 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:
As above

Sample Description: Well Water

Sample Type: GRAB

Location: Monitering Well BW-1

Date Collected: 08-09-90

Date Received: 08/10/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Heptachlor	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Heptachlor epoxide	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1242	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1254	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1221	None Detected DL = 25.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1232	None Detected DL = 25.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1248	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1260	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1016	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture

Remarks

State Certification No. M-10-1

Analysis Reviewed By: [signature]

ORIGINAL

391 Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Environmental Laboratory Services

Laboratory Report

Date 09/13/90

Lab Control No 10,493

P.O. Number 0609

Job No 007357

mple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

ill To:

As above

ample Description: Well Water

Sample Type: GRAB

Location: Monitering Well BW-1

ate Collected: 08-09-90

Date Received: 08/10/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Toxaphene	None Detected DL = 25.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture

narks

tate Certification No. M-10-1

Analysis Reviewed By [signature]

ORIGINAL

Environmental Consultants

Sample Number
WELL-BW-1

VOLATILE ORGANICS ANALYSIS DATA SHEET
VOLATILE COMPOUNDS
(Page 1)

Laboratory Name: ENV CONS INC
Lab Sample ID No: 110493
Sample Matrix: WATER
Data Release Authorized By: [illegible]

Case No:
QC Report No:
Contract No:
Date Sample Received: 08/10/90

METHOD 8240

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 08/21/90
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-84-3	Chloromethane	10	U	124-48-1	Dibromochloromethane	5	U
74-83-9	Bromomethane	10	U	79-00-5	1,1,2-Trichloroethane	5	U
75-01-4	Vinyl Chloride	10	U	71-43-2	Benzene	5	U
75-00-3	Chloroethane	10	U	10061-01-5	Cis-1,3-Dichloropropene	5	U
75-09-2	Methylene Chloride	10	BU	75-25-2	Bromoform	5	U
67-64-1	Acetone	10	U	108-10-1	4-Methyl-2-Pentanone	10	U
75-15-0	Carbon Disulfide	5	U	591-78-6	2-Hexanone	10	U
75-35-4	1,1-Dichloroethene	5	U	127-18-4	Tetrachloroethene	5	U
75-35-3	1,1-Dichloroethane	6		108-88-3	Toluene	5	U
156-59-2	Cis 1,2-Dichloroethene	5	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
67-66-3	Chloroform	5	BU	100-41-4	Ethylbenzene	5	U
107-06-2	1,2-Dichloroethane	5	U	100-42-5	Styrene	5	U
78-93-3	2-Butanone	10	U		M & P Xylenes	5	U
71-55-6	1,1,1-Trichloroethane	18		95-47-5	O-Xylene	5	U
56-23-5	Carbon Tetrachloride	5	U	107-02-8	Acrolein	10	U
108-05-4	Vinyl Acetate	10	U	107-13-1	Acrylonitrile	10	U
75-27-4	Bromodichloromethane	5	U	110-75-8	2-Chloroethylvinylether	10	U
78-87-5	1,2-Dichloropropane	5	U	76-13-1	Trichlorofluoromethane	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U	75-71-8	Dichlorodifluoromethane	5	BU
79-01-6	Trichloroethene	5	U				

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable quantitation limit for the sample.

Environmental Consultants

Laboratory Name: ENV CONS INC
Case No:

Sample Number
WELL-BW-1

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS
(Page 2)

METHOD 8270

Concentration: LOW
Date Extracted/Prepared: 08/14/90
Date Analyzed: 09/06/90
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Ye

CAS Number		ug/L		CAS Number		ug/L
108-95-2	Phenol	10	U	100-02-7	4-Nitrophenol	50
111-44-4	bis(2-Chloroethyl)Ether	10	U	132-64-9	Dibenzofuran	10
95-57-8	2-Chlorophenol	10	U	121-14-2	2,4-Dinitrotoluene	10
541-73-1	1,3-Dichlorobenzene	10	U	84-66-2	Diethylphthalate	10
106-46-7	1,4-Dichlorobenzene	10	U	7005-72-3	4-Chlorophenyl-phenylether	10
100-51-6	Benzyl Alcohol	20	U	86-73-7	Fluorene	10
95-50-1	1,2-Dichlorobenzene	10	U	100-10-6	4-Nitroaniline	50
95-48-7	2-Methylphenol	10	U	534-52-1	4,6-Dinitro-2-Methylphenol	50
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U	86-30-6	N-Nitrosodiphenylamine	10
106-44-5	4-Methylphenol	10	U	101-55-3	4-Bromophenyl-phenylether	10
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	118-74-1	Hexachlorobenzene	10
7-72-1	Hexachloroethane	10	U	87-86-5	Pentachlorophenol	50
98-95-3	Nitrobenzene	10	U	85-01-8	Phenanthrene	10
78-59-1	Isophorone	10	U	120-12-7	Anthracene	10
88-75-5	2-Nitrophenol	10	U	84-74-2	Di-n-Butylphthalate	10
105-67-9	2,4-Dimethylphenol	10	U	206-44-0	Fluoranthene	10
65-85-0	Benzoic Acid	50	U	129-00-0	Pyrene	10
111-91-1	Bis (2-Chloroethoxy)Methane	10	U	85-68-7	Butylbenzylphthalate	10
120-83-2	2,4-Dichlorophenol	10	U	91-94-1	3,3'-Dichlorobenzidine	20
120-82-1	1,2,4-Trichlorobenzene	10	U	56-55-3	Benzo(a)Anthracene	10
91-20-3	Naphthalene	10	U	218-01-9	Chrysene	10
106-47-8	4-Chloroaniline	20	U	117-81-7	bis(2-Ethylhexyl)Phthalate	10
87-68-3	Hexachlorobutadiene	10	U	117-84-0	Di-n-Octyl Phthalate	10
59-50-7	4-Chloro-3-Methylphenol	20	U	205-99-2	Benzo(b)Fluoranthene	10
91-57-6	2-Methylnaphthalene	10	U	92-87-5	Benzidine	50
77-47-4	Hexachlorocyclopentadiene	10	U	122-66-7	1,2-Diphenylhydrazine	10
88-06-2	2,4,6-Trichlorophenol	10	U	62-75-9	N-Nitrosodimethylamine	10
95-95-4	2,4,5-Trichlorophenol	50	U	62-53-3	Aniline	10
91-58-7	2-Chloronaphthalene	10	U	109-06-8	2-Picoline	50
88-74-4	2-Nitroaniline	50	U	95-94-3	1,2,4,5-Tetrachlorobenzene	10
131-11-3	Dimethyl Phthalate	10	U	207-08-9	Benzo(k)Fluoranthene	10
208-96-8	Acenaphthylene	10	U	50-32-8	Benzo(a)Pyrene	10
606-20-2	2,6-Dinitrotoluene	10	U	193-39-5	Indeno(1,2,3-cd)Pyrene	10
99-09-2	3-Nitroaniline	50	U	53-70-3	Dibenzo(a,h)Anthracene	10
83-32-9	Acenaphthene	10	U	191-24-2	Benzo(g,h,i)Perylene	10
51-28-5	2,4-Dinitrophenol	50	U			

U - Compound analyzed for but not detected. The reported value is the minimum attainable quantitiation limit for the sample.

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

environmental consultants

Laboratory Report

Date 09/14/90 Page 1 of 6

Lab Control No 10,494

P.O. Number 0609 Job No. 007357

ple Source
Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To: As above

nple Description: Well Water | Sample Type: GRAB | Location: Monitering Well BW-4

ate Collected: 08-09-90 | Date Received: 08/10/90 | Collected By: Client | Time of Collection: 00:00

ameter	Results	Date Analyzed	Analyst	Method of Analysis
Cyanide, total (CN)	<0.02 mg/l	08/16/90	Hoover	Distillation/ Colorimetric
Phenols, total	<0.005 mg/l	08/11/90	Rogers	Distillation Chloroform extraction
Acid/Base/Neutral Extract.	PERFORMED	08/14/90	Davis	
Priority Pollutant Vol.	Detected	08/21/90	Wilson	Gas Chromatography Mass Spectrometry
Priority Pollutant Semi-Vol	None Detected	09/06/90	Wilson	Gas chromotography Mass Spectrometry
Chloroethane	15. ug/l	08/21/90	Wilson	Gas chromatography Mass spectrometry
1,1-Dichloroethane	160. ug/l	08/21/90	Wilson	Gas chromatography Mass spectrometry
1,1,1-Trichloroethane	190. ug/l	08/21/90	Wilson	Gas chromatography Mass spectrometry
1,1-Dichloroethene	6. ug/l	08/21/90	Wilson	Gas Chromatography Mass Spectrometry

marks

See attached lists for target compounds & respective detection limits.

tate Certification No. M-10-1

Analysis Reviewed By

ORIGINAL

ENVIRONMENTAL CONSULTANTS, INC.
391 Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environ Consulta

Laboratory

Date 09/14/90

Lab Control No 10,494

P.O. Number 0609

Sample Source
Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To: As above

Sample Description: Well Water
Sample Type: GRAB
Location: Monitering Well BW-4
Date Collected: 08-09-90
Date Received: 08/10/90
Collected By: Client
Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of
Antimony, total	<0.003 mg/l	08/21/90	Isler	Atomic Graph
Arsenic, total	0.005 mg/l	08/17/90	Hostettler	Atomi Graph
Beryllium, total	<0.005 mg/l	08/16/90	Isler	Flame
Cadmium, total	<0.002 mg/l	08/15/90	Isler	Flame
Chromium, total	0.008 mg/l	08/15/90	Isler	Atom Grap
Copper, total	0.02 mg/l	08/16/90	Hostettler	Flam
Lead, total	0.011 mg/l	08/15/90	Hostettler	Atom Grap
Mercury, total	<0.0002 mg/l	08/14/90	Hostettler	Atom Cal
Nickel, total	<0.01 mg/l	08/16/90	Hostettler	Fla

Remarks

See attached lists for target compounds & respective detection limits.

Analysis Reviewed By

State Certification No. M-10-1

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Services

Laboratory Report

Date: 09/14/90 Page 3 of

Lab Control No: 10,494

P.O. Number: 0609 Job No. 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Report To:
As above

Sample Description: Well Water | Sample Type: GRAB | Location: Monitering Well BW-4

Date Collected: 08-09-90 | Date Received: 08/10/90 | Collected By: Client | Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Selenium, total	0.003 mg/l	08/17/90	Hostettler	Atomic absorption Graphite furnace
Silver, total	0.003 mg/l	08/15/90	Isler	Flame atomic abs.
Thallium, total	<0.005 mg/l	08/15/90	Isler	Atomic absorption Graphite furnace
Zinc, total	0.045 mg/l	08/16/90	Hostettler	Flame atomic abs.
Pest./PCB Extraction	PERFORMED	08/14/90	Slider	
Aldrin	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
alpha-BHC	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
beta-BHC	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
gamma-BHC (Lindane)	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture

Remarks

See attached lists for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: Sarah Rogers

ORIGINAL

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Services

Laboratory Report

Date: 09/14/90 Page 3

Lab Control No: 10,494

P.O. Number: 0609 Job No. 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:
As above

Sample Description: Well Water
Sample Type: GRAB
Location: Monitering Well BW-4
Date Collected: 08-09-90
Date Received: 08/10/90
Collected By: Client
Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Selenium, total	0.003 mg/l	08/17/90	Hostettler	Atomic absorption Graphite furnace
Silver, total	0.003 mg/l	08/15/90	Isler	Flame atomic abs.
Thallium, total	<0.005 mg/l	08/15/90	Isler	Atomic absorption Graphite furnace
Zinc, total	0.045 mg/l	08/16/90	Hostettler	Flame atomic abs.
Pest./PCB Extraction	PERFORMED	08/14/90	Slider	
Aldrin	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
alpha-BHC	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
beta-BHC	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
gamma-BHC (Lindane)	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture

Remarks

See attached lists for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

ORIGINAL

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282 8481

Environmental Consultants

Laboratory Report

Date: 09/14/90 Page 4

Lab Control No: 10,494

P.O. Number: 0609

Job No.: 00735

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Report To:
As above

Sample Description: Well Water

Sample Type: GRAB

Location: Monitering Well BW-4

Date Collected: 08-09-90

Date Received: 08/10/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
delta-BHC	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Chlordane	None Detected DL = 2.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
4,4'-DDT	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
4,4'-DDE	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
4,4'-DDD	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Dieldrin	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
alpha-Endosulfan	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
beta-Endosulfan	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Endosulfan sulfate	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture

Remarks

See attached lists for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

ORIGINAL

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmenta Consultants

Laboratory Report

Date 09/14/90 Page 5

Lab Control No 10,494

P.O. Number 0609 Job No. 00735

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Send To:

As above

Sample Description: Well Water | Sample Type: GRAB | Location: Monitering Well BW-4

Date Collected: 08-09-90 | Date Received: 08/10/90 | Collected By: Client | Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Endrin	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Endrin aldehyde	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Heptachlor	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Heptachlor epoxide	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1242	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1254	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1221	None Detected DL = 25.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1232	None Detected DL = 25.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1248	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture

Remarks

See attached lists for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

ORIGINAL

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Report

Date: 09/14/90 Page 6 o

Lab Control No: 10,494

P.O. Number: 0609 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Send To:

As above

Sample Description	Sample Type	Location
Well Water	GRAB	Monitering Well BW-4

Date Collected	Date Received	Collected By	Time of Collection
08-09-90	08/10/90	Client	00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
PCB-1260	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1016	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Toxaphene	None Detected DL = 25.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture

Remarks

See attached lists for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: Frank R. Rogers

ORIGINAL

Environmental Consultants

| Sample Number
| WELL-BW-4

VOLATILE ORGANICS ANALYSIS DATA SHEET
VOLATILE COMPOUNDS
(Page 1)

Laboratory Name: ENV CONS INC
Lab Sample ID No: 110494
Sample Matrix: WATER
Data Release Authorized By: _____

Case No: _____
QC Report No: _____
Contract No: _____
Date Sample Received: 08/10/90

METHOD 8240

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 08/21/90
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) _____

CAS Number		ug/L		CAS Number		ug/L	
74-84-3	Chloromethane	10	U	124-48-1	Dibromochloromethane	5	U
74-83-9	Bromomethane	10	U	79-00-5	1,1,2-Trichloroethane	5	U
75-01-4	Vinyl Chloride	10	U	71-43-2	Benzene	5	U
75-00-3	Chloroethane	15		10061-01-5	Cis-1,3-Dichloropropene	5	U
75-09-2	Methylene Chloride	10	BU	75-25-2	Bromoform	5	U
67-64-1	Acetone	10	U	108-10-1	4-Methyl-2-Pentanone	10	U
75-15-0	Carbon Disulfide	5	U	591-78-6	2-Hexanone	10	U
75-35-4	1,1-Dichloroethene	6		127-18-4	Tetrachloroethene	5	U
75-35-3	1,1-Dichloroethane	160		108-88-3	Toluene	5	U
156-59-2	Cis 1,2-Dichloroethene	5	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
67-66-3	Chloroform	5	BU	100-41-4	Ethylbenzene	5	U
107-06-2	1,2-Dichloroethane	5	U	100-42-5	Styrene	5	U
78-93-3	2-Butanone	10	U		M & P Xylenes	5	U
71-55-6	1,1,1-Trichloroethane	190		95-47-5	O-Xylene	5	U
56-23-5	Carbon Tetrachloride	5	U	107-02-8	Acrolein	10	U
108-05-4	Vinyl Acetate	10	U	107-13-1	Acrylonitrile	10	U
75-27-4	Bromodichloromethane	5	U	110-75-8	2-Chloroethylvinylether	10	U
78-87-5	1,2-Dichloropropane	5	U	76-13-1	Trichlorofluoromethane	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U	75-71-8	Dichlorodifluoromethane	5	U
79-01-6	Trichloroethene	5	U				

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable quantitation limit for the sample.

Environmental Consultants

aboratory Name: ENV CONS INC

ase No:

Sample Number
WELL-BW-4

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS
(Page 2)

METHOD 8270

Concentration: LOW
Date Extracted/Prepared: 08/14/90
Date Analyzed: 09/06/90
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Ye

CAS Number		ug/L		CAS Number		ug/L
108-95-2	Phenol	10	U	100-02-7	4-Nitrophenol	50
111-44-4	bis(2-Chloroethyl)Ether	10	U	132-64-9	Dibenzofuran	10
95-57-8	2-Chlorophenol	10	U	121-14-2	2,4-Dinitrotoluene	10
541-73-1	1,3-Dichlorobenzene	10	U	84-66-2	Diethylphthalate	10
106-46-7	1,4-Dichlorobenzene	10	U	7005-72-3	4-Chlorophenyl-phenylether	10
100-51-6	Benzyl Alcohol	20	U	86-73-7	Fluorene	10
95-50-1	1,2-Dichlorobenzene	10	U	100-10-6	4-Nitroaniline	50
95-48-7	2-Methylphenol	10	U	534-52-1	4,6-Dinitro-2-Methylphenol	50
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U	86-30-6	N-Nitrosodiphenylamine	10
106-44-5	4-Methylphenol	10	U	101-55-3	4-Bromophenyl-phenylether	10
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	118-74-1	Hexachlorobenzene	10
67-72-1	Hexachloroethane	10	U	87-86-5	Pentachlorophenol	50
98-95-3	Nitrobenzene	10	U	85-01-8	Phenanthrene	10
78-59-1	Isophorone	10	U	120-12-7	Anthracene	10
88-75-5	2-Nitrophenol	10	U	84-74-2	Di-n-Butylphthalate	10
105-67-9	2,4-Dimethylphenol	10	U	206-44-0	Fluoranthene	10
65-85-0	Benzoic Acid	50	U	129-00-0	Pyrene	10
111-91-1	Bis (2-Chloroethoxy)Methane	10	U	85-68-7	Butylbenzylphthalate	10
120-83-2	2,4-Dichlorophenol	10	U	91-94-1	3,3'-Dichlorobenzidine	20
120-82-1	1,2,4-Trichlorobenzene	10	U	56-55-3	Benzo(a)Anthracene	10
91-20-3	Naphthalene	10	U	218-01-9	Chrysene	10
106-47-8	4-Chloroaniline	20	U	117-81-7	bis(2-Ethylhexyl)Phthalate	10
87-68-3	Hexachlorobutadiene	10	U	117-84-0	Di-n-Octyl Phthalate	10
59-50-7	4-Chloro-3-Methylphenol	20	U	205-99-2	Benzo(b)Fluoranthene	10
91-57-6	2-Methylnaphthalene	10	U	92-87-5	Benzidine	50
77-47-4	Hexachlorocyclopentadiene	10	U	122-66-7	1,2-Diphenylhydrazine	10
88-06-2	2,4,6-Trichlorophenol	10	U	62-75-9	N-Nitrosodimethylamine	10
95-95-4	2,4,5-Trichlorophenol	50	U	62-53-3	Aniline	10
91-58-7	2-Chloronaphthalene	10	U	109-06-8	2-Picoline	50
88-74-4	2-Nitroaniline	50	U	95-94-3	1,2,4,5-Tetrachlorobenzene	10
131-11-3	Dimethyl Phthalate	10	U	207-08-9	Benzo(k)Fluoranthene	10
208-96-8	Acenaphthylene	10	U	50-32-8	Benzo(a)Pyrene	10
606-20-2	2,6-Dinitrotoluene	10	U	193-39-5	Indeno(1,2,3-cd)Pyrene	10
99-09-2	3-Nitroaniline	50	U	53-70-3	Dibenzo(a,h)Anthracene	10
83-32-9	Acenaphthene	10	U	191-24-2	Benzo(g,h,i)Perylene	10
51-28-5	2,4-Dinitrophenol	50	U			

U - Compound analyzed for but not detected. The reported value is the minimum attainable quantitation limit for the sample.

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmenta
Consultants

Laboratory Report

Date 09/14/90 Page 1

Lab Control No 10,495

P.O. Number 0609 Job No 00735

ple Source
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:
As above

mple Description: Well Water
Sample Type: GRAB
Location: Monitering Well BS-3
Date Collected: 08-09-90
Date Received: 08/10/90
Collected By: Client
Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Cyanide, total (CN)	<0.02 mg/l	08/17/90	Hoover	Distillation/ Colorimetric
Phenols, total	<0.005 mg/l	08/16/90	Rogers	Distillation Chloroform extractic
Acid/Base/Neutral Extract.	PERFORMED	08/14/90	Davis	
Priority Pollutant Vol.	Detected	08/21/90	Wilson	Gas Chromatography Mass Spectrometry
Priority Pollutant Semi-Vol	None Detected	09/06/90	Cropper	Gas chromotography Mass Spectrometry
Chloroethane	110. ug/l	08/21/90	Wilson	Gas chromatography Mass spectrometry
1,1-Dichloroethane	1,600. ug/l	08/21/90	Wilson	Gas chromatography Mass spectrometry
Toluene	38. ug/l	08/21/90	Wilson	Gas chromatography Mass spectrometry
trans-1,2-Dichloroethylene	17. ug/l	08/21/90	Wilson	Gas chromatography Mass spectrometry

arks

See attached lists for target compounds & respective detection limits.

ate Certification No. M-10-1

Analysis Reviewed By: Sarah P. Rogers

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Report

Date: 09/14/90 Page 2

Lab Control No: 10,495

P.O. Number: 0609 Job No. 00735

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:
As above

Sample Description: Well Water
Sample Type: GRAB
Location: Monitering Well BS-3
Date Collected: 08-09-90
Date Received: 08/10/90
Collected By: Client
Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
1,1,1-Trichloroethane	5,600. ug/l	08/21/90	Wilson	Gas chromatography Mass spectrometry
Trichloroethylene	190. ug/l	08/21/90	Wilson	Gas chromatography Mass spectrometry
1,1-Dichloroethene	58. ug/l	08/21/90	Wilson	Gas Chromatography Mass Spectrometry
cis-1,2-Dichloroethene	3,400. ug/l	08/21/90	Wilson	Gas chromatography Mass spectrometry
Antimony, total	0.005 mg/l	08/21/90	Isler	Atomic absorption Graphite furnace
Arsenic, total	0.120 mg/l	08/16/90	Hostettler	Atomic absorption Graphite furnace
Beryllium, total	(0.005 mg/l	08/16/90	Isler	Flame atomic abs.
Cadmium, total	0.003 mg/l	08/15/90	Isler	Flame atomic abs.
Chromium, total	0.120 mg/l	08/15/90	Isler	Atomic absorption Graphite furnace

Remarks

See attached lists for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: Laurie D. Rogers

ORIGINAL

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Report

Date 09/14/90 Page 3

Lab Control No 10,495

P.O. Number 0609 Job No. 00735

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

Sample Description: Well Water | Sample Type: GRAB | Location: Monitering Well BS-3

Date Collected: 08-09-90 | Date Received: 08/10/90 | Collected By: Client | Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Copper, total	0.47 mg/l	08/16/90	Hostettler	Flame atomic abs.
Lead, total	0.25 mg/l	08/16/90	Isler	Flame atomic abs.
Mercury, total	0.0005 mg/l	08/14/90	Hostettler	Atomic absorption Cold vapor
Nickel, total	0.14 mg/l	08/16/90	Hostettler	Flame atomic abs.
Selenium, total	<0.002 mg/l	08/17/90	Hostettler	Atomic absorption Graphite furnace
Silver, total	0.007 mg/l	08/15/90	Isler	Flame atomic abs.
Thallium, total	<0.005 mg/l	08/15/90	Isler	Atomic absorption Graphite furnace
Zinc, total	0.814 mg/l	08/16/90	Hostettler	Flame atomic abs.
Pest./PCB Extraction	PERFORMED	08/14/90	Slider	

Remarks

See attached lists for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By:

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmenta
Consultants

Laboratory Report

Date
09/14/90 Page 4 of

Lab Control No
10,495

P.O. Number
0609

Job No.
007357

ple Source
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

l To
As above

mple Description
Well Water

Sample Type
GRAB

Location
Monitering Well BS-3

Date Collected
08-09-90

Date Received
08/10/90

Collected By
Client

Time of Collection
00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Aldrin	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
alpha-BHC	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
eta-BHC	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
gamma-BHC (Lindane)	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
delta-BHC	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Chlordane	None Detected DL = 2.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
4,4'-DDT	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
4,4'-DDE	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
4,4'-DDD	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture

arks

See attached lists for target compounds & respective detection limits.

tate Certification No. M-10-1

Analysis Reviewed By

Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmenta Consultants

Laboratory Report

Date 09/14/90 Page 5 of 6

Lab Control No 10,495

P.O. Number 0609 Job No 007357

Sample Source
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:
As above

Sample Description: Well Water
Sample Type: GRAB
Location: Monitering Well BS-3
Date Collected: 08-09-90
Date Received: 08/10/90
Collected By: Client
Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Dieldrin	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
alpha-Endosulfan	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
beta-Endosulfan	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Endosulfan sulfate	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Endrin	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Endrin aldehyde	None Detected DL = 0.5 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Heptachlor	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Heptachlor epoxide	None Detected DL = 0.25 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1242	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture

Remarks

See attached lists for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

CONSULTANTS, INC.
Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Laboratory Report

Date: 09/14/90

Lab Control No: 10,495

P.O. Number: 0609

Job No: 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To: As above

Sample Description: Well Water

Sample Type: GRAB

Location: Monitering Well BS-3

Date Collected: 08-09-90

Date Received: 08/10/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
PCB-1254	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1221	None Detected DL = 25.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
-1232	None Detected DL = 25.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1248	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1260	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
PCB-1016	None Detected DL = 5.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture
Toxaphene	None Detected DL = 25.0 ug/l	08/15/90	Peyton	Gas chromatography Electron capture

Remarks

See attached lists for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

Environmental Consultants

| Sample Number
| WELL-BS-3

VOLATILE ORGANICS ANALYSIS DATA SHEET
VOLATILE COMPOUNDS
(Page 1)

Laboratory Name: ENV CONS INC
Lab Sample ID No: 110495
Sample Matrix: WATER
Data Release Authorized By: [illegible]

Case No:
QC Report No:
Contract No:
Date Sample Received: 08/10/90

METHOD 8240

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 08/21/90
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/L		CAS Number		ug/L	
74-84-3	Chloromethane	10	U	124-48-1	Dibromochloromethane	5	U
74-83-9	Bromomethane	10	U	79-00-5	1,1,2-Trichloroethane	5	U
75-01-4	Vinyl Chloride	10	U	71-43-2	Benzene	5	U
75-00-3	Chloroethane	110		10061-01-5	Cis-1,3-Dichloropropene	5	U
75-09-2	Methylene Chloride	7	BJ	75-25-2	Bromoform	5	U
7-64-1	Acetone	10	U	108-10-1	4-Methyl-2-Pentanone	10	U
-15-0	Carbon Disulfide	5	U	591-78-6	2-Hexanone	10	U
5-35-4	1,1-Dichloroethene	58		127-18-4	Tetrachloroethene	5	U
75-35-3	1,1-Dichloroethane	1600		108-88-3	Toluene	38	
156-59-2	Cis 1,2-Dichloroethene	3400		79-34-5	1,1,2,2-Tetrachloroethane	5	U
156-60-5	Trans-1,2-Dichloroethene	17		108-90-7	Chlorobenzene	5	U
67-66-3	Chloroform	5	BU	100-41-4	Ethylbenzene	5	U
107-06-2	1,2-Dichloroethane	5	U	100-42-5	Styrene	5	U
78-93-3	2-Butanone	10	U		M & P Xylenes	5	U
71-55-6	1,1,1-Trichloroethane	5600		95-47-5	O-Xylene	5	U
56-23-5	Carbon Tetrachloride	5	U	107-02-8	Acrolein	10	U
108-05-4	Vinyl Acetate	10	U	107-13-1	Acrylonitrile	10	U
75-27-4	Bromodichloromethane	5	U	110-75-8	2-Chloroethylvinylether	10	U
78-87-5	1,2-Dichloropropane	5	U	76-13-1	Trichlorofluoromethane	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U	75-71-8	Dichlorodifluoromethane	5	U
79-01-6	Trichloroethene	190					

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable quantitation limit for the sample.

Environmental Consultants

boratory Name: ENV CONS INC
se No:

| Sample Number
| WELL-BS-3

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS
(Page 2)

METHOD 8270

Concentration: LOW
Date Extracted/Prepared: 08/14/90
Date Analyzed: 09/06/90
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/L		CAS Number		ug/L	
108-95-2	Phenol	10	U	100-02-7	4-Nitrophenol	50	U
111-44-4	bis(2-Chloroethyl)Ether	10	U	132-64-9	Dibenzofuran	10	U
95-57-8	2-Chlorophenol	10	U	121-14-2	2,4-Dinitrotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U	84-66-2	Diethylphthalate	10	U
106-46-7	1,4-Dichlorobenzene	10	U	7005-72-3	4-Chlorophenyl-phenylether	10	U
100-51-6	Benzyl Alcohol	20	U	86-73-7	Fluorene	10	U
95-50-1	1,2-Dichlorobenzene	10	U	100-10-6	4-Nitroaniline	50	U
95-48-7	2-Methylphenol	10	U	534-52-1	4,6-Dinitro-2-Methylphenol	50	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U	86-30-6	N-Nitrosodiphenylamine	10	U
36-44-5	4-Methylphenol	10	U	101-55-3	4-Bromophenyl-phenylether	10	U
1-64-7	N-Nitroso-Di-n-Propylamine	10	U	118-74-1	Hexachlorobenzene	10	U
7-72-1	Hexachloroethane	10	U	87-86-5	Pentachlorophenol	50	U
98-95-3	Nitrobenzene	10	U	85-01-8	Phenanthrene	10	U
78-59-1	Isophorone	10	U	120-12-7	Anthracene	10	U
88-75-5	2-Nitrophenol	10	U	84-74-2	Di-n-Butylphthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U	206-44-0	Fluoranthene	10	U
65-85-0	Benzoic Acid	50	U	129-00-0	Pyrene	10	U
111-91-1	Bis (2-Chloroethoxy)Methane	10	U	85-68-7	Butylbenzylphthalate	10	U
120-83-2	2,4-Dichlorophenol	10	U	91-94-1	3,3'-Dichlorobenzidine	20	U
120-82-1	1,2,4-Trichlorobenzene	10	U	56-55-3	Benzo(a)Anthracene	10	U
91-20-3	Naphthalene	10	U	218-01-9	Chrysene	10	U
106-47-8	4-Chloroaniline	20	U	117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
87-68-3	Hexachlorobutadiene	10	U	117-84-0	Di-n-Octyl Phthalate	10	U
59-50-7	4-Chloro-3-Methylphenol	20	U	205-99-2	Benzo(b)Fluoranthene	10	U
91-57-6	2-Methylnaphthalene	10	U	92-87-5	Benzidine	50	U
77-47-4	Hexachlorocyclopentadiene	10	U	122-66-7	1,2-Diphenylhydrazine	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	62-75-9	N-Nitrosodimethylamine	10	U
95-95-4	2,4,5-Trichlorophenol	50	U	62-53-3	Aniline	10	U
91-58-7	2-Chloronaphthalene	10	U	109-06-8	2-Picoline	50	U
88-74-4	2-Nitroaniline	50	U	95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
131-11-3	Dimethyl Phthalate	10	U	207-08-9	Benzo(k)Fluoranthene	10	U
208-96-8	Acenaphthylene	10	U	50-32-8	Benzo(a)Pyrene	10	U
606-20-2	2,6-Dinitrotoluene	10	U	193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
99-09-2	3-Nitroaniline	50	U	53-70-3	Dibenzo(a,h)Anthracene	10	U
83-32-9	Acenaphthene	10	U	191-24-2	Benzo(g,h,i)Perylene	10	U
1-28-5	2,4-Dinitrophenol	50	U				

U - Compound analyzed for but not detected. The reported value is the minimum attainable quantitation limit for the sample.

OCT 15

ENVIRONMENTAL CONSULTANTS, INC.
91 Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date: 10/09/90

Lab Control No: 11,653

P.O. Number: 0609

Job No.: 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Report To

As above

00000-0000

Sample Description: Monitoring wells

Sample Type: GRAB

Location: BW-1

Date Collected: 09-10-90

Date Received: 09/11/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Cyanide, total (CN)	<0.02 mg/l	09/14/90	Hoover	Distillation/ Colorimetric
Phenols, total	<0.005 mg/l	09/13/90	Rogers	Distillation Chloroform extraction
id/Base/Neutral Extract.	PERFORMED	09/13/90	Clark, R.	
PP Volatiles (1)	None Detected	09/21/90	Wilson	Gas Chromatography Mass Spectrometry
PP Semi-Volatiles (2)	None Detected	09/18/90	Cropper	Gas chromotography Mass Spectrometry
Antimony, total	<0.003 mg/l	09/24/90	Isler	Atomic absorption Graphite furnace
Arsenic, total	0.003 mg/l	09/20/90	Isler	Atomic absorption Graphite furnace
Beryllium, total	<0.01 mg/l	09/21/90	Isler	Flame atomic abs.
Cadmium, total	0.003 mg/l	09/18/90	Isler	Flame atomic abs.

Remarks

(1) See attached list for target compounds & respective detection limits.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By: [signature]

...MENTAL CONSULTANTS, INC
391 Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date: 10/09/90 Page 2 of

Lab Control No: 11,653

P.O. Number: 0609 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
155 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

00000-0000

Sample Description: Monitoring wells

Sample Type: GRAB

Location: BW-1

Date Collected: 09-10-90

Date Received: 09/11/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Chromium, total	0.001 mg/l	09/19/90	Isler	Atomic absorption Graphite furnace
Copper, total	<0.01 mg/l	09/18/90	Isler	Flame atomic abs.
Lead, total	<0.001 mg/l	09/17/90	Isler	Atomic absorption Graphite furnace
Mercury, total	<0.0002 mg/l	09/13/90	Hostettler	Atomic absorption Cold vapor
Nickel, total	<0.01 mg/l	09/18/90	Isler	Flame atomic abs.
Selenium, total	<0.005 mg/l	09/14/90	Isler	Atomic absorption Graphite furnace
Silver, total	<0.002 mg/l	09/18/90	Isler	Flame atomic abs.
Thallium, total	<0.005 mg/l	09/24/90	Isler	Atomic absorption Graphite furnace
Zinc, total	0.019 mg/l	09/19/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

Analysis Reviewed By: [signature]

ENVIRONMENTAL CONSULTANTS INC.
Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date: 10/09/90

Lab Control No: 11,653

P.O. Number: 0609

Job No.: 00735

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

00000-0000

Sample Description	Sample Type	Location
Monitoring wells	GRAB	BW-1

Date Collected	Date Received	Collected By	Time of Collection
09-10-90	09/11/90	Client	00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Pest./PCB Extraction	PERFORMED	09/14/90	Clark, R.	
Aldrin	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
alpha-BHC	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
beta-BHC	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
gamma-BHC (Lindane)	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
delta-BHC	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Chlordane	None Detected DL = 2.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
4,4'-DDT	None Detected DL = 0.50 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
4,4'-DDE	None Detected DL = 0.50 ug/l	09/17/90	Peyton	Gas chromatography Electron capture

Remarks

State Certification No. M-10-1

Analysis Reviewed By: [signature]

ENVIRONMENTAL CONSULTANTS INC.
Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date: 10/09/90 Page 4 of

Lab Control No: 11,653

P.O. Number: 0609

Job No.: 007357

Sample Source:

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

00000-0000

Sample Description: Monitoring wells

Sample Type: GRAB

Location: BW-1

Date Collected: 09-10-90

Date Received: 09/11/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
4,4'-DDD	None Detected DL = 0.50 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Dieldrin	None Detected DL = 0.50 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
lpha-Endosulfan	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
beta-Endosulfan	None Detected DL = 0.50 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Endosulfan sulfate	None Detected DL = 0.50 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Endrin	None Detected DL = 0.50 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Endrin aldehyde	None Detected DL = 0.50 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Heptachlor	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Heptachlor epoxide	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture

Remarks

ate Certification No. M-10-1

Analysis Reviewed By

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Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date: 10/09/90

Lab Control No: 11,653

P.O. Number: 0609

Job No.: 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

00000-0000

Sample Description: Monitoring wells

Sample Type: GRAB

Location: BW-1

Date Collected: 09-10-90

Date Received: 09/11/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
PCB-1242	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1254	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
-1221	None Detected DL = 25.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1232	None Detected DL = 25.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1248	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1260	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1016	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Toxaphene	None Detected DL = 25.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture

Remarks

ate Certification No. M-10-1

Analysis Reviewed By: B. Rodriguez

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Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date: 10/09/90 Page 1 of 6

Lab Control No: 11,654

P.O. Number: 0609 Job No.: 007357

ple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To:

As above

00000-0000

ple Description	Sample Type	Location
Monitoring wells	GRAB	BS-3

e Collected	Date Received	Collected By	Time of Collection
09-10-90	09/11/90	Client	00:00

meter	Results	Date Analyzed	Analyst	Method of Analysis
Cyanide, total (CN)	<0.02 mg/l	09/14/90	Hoover	Distillation/ Colorimetric
Phenols, total	<0.005 mg/l	09/13/90	Rogers	Distillation Chloroform extraction
/Base/Neutral Extract.	PERFORMED	09/13/90	Clark, R.	
PP Volatiles (1)	Detected	09/21/90	Wilson	Gas Chromatography Mass Spectrometry
PP Semi-Volatiles (2)	None Detected	09/18/90	Cropper	Gas chromotography Mass Spectrometry
Chloroethane	140. ug/l	09/21/90	Wilson	Gas chromatography Mass spectrometry
1,1-Dichloroethane	1,200. ug/l	09/21/90	Wilson	Gas chromatography Mass spectrometry
Toluene	39. ug/l	09/21/90	Wilson	Gas chromatography Mass spectrometry
trans-1,2-Dichloroethylene	16. ug/l	09/21/90	Wilson	Gas chromatography Mass spectrometry

rks

(1) See attached list for target compounds & respective detection limits.
(2) See attached list for target compounds & respective detection limits.

ate Certification No. M-10-1

Analysis Reviewed

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Environmental Consultants

Professional Laboratory Service

Laboratory Report

Date: 10/09/90

Page 2 of

Lab Control No: 11,654

P.O. Number: 0609

Job No.: 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Charmahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

00000-0000

Sample Description	Sample Type	Location
Monitoring wells	GRAB	BS-3

Date Collected	Date Received	Collected By	Time of Collection
09-10-90	09/11/90	Client	00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
1,1,1-Trichloroethane	3,600. ug/l	09/21/90	Wilson	Gas chromatography Mass spectrometry
Trichloroethylene	580. ug/l	09/21/90	Wilson	Gas chromatography Mass spectrometry
1-Dichloroethene	29. ug/l	09/21/90	Wilson	Gas Chromatography Mass Spectrometry
cis-1,2-Dichloroethene,	5,500. ug/l	09/21/90	Wilson	Gas chromatography Mass spectrometry
Antimony, total	<0.003 mg/l	09/24/90	Isler	Atomic absorption Graphite furnace
Arsenic, total	<0.002 mg/l	09/20/90	Isler	Atomic absorption Graphite furnace
Beryllium, total	<0.01 mg/l	09/21/90	Isler	Flame atomic abs.
Cadmium, total	<0.002 mg/l	09/18/90	Isler	Flame atomic abs.
Chromium, total	0.001 mg/l	09/19/90	Isler	Atomic absorption Graphite furnace

Remarks

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Analysis Reviewed By

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Professional Laboratory Services

Laboratory Report

Date 10/09/90 Page 3 of 6

Lab Control No 11,654

P.O. Number 0609 Job No 007357

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Charmahon, IL 60410-
Attn: Mr. Paul Barding

As above

00000-0000

Description	Sample Type	Location
...itoring wells	GRAB	BS-3

Collected	Date Received	Collected By	Time of Collection
...10-90	09/11/90	Client	00:00

	Results	Date Analyzed	Analyst	Method of Analysis
Copper ...er, total	<0.01 mg/l	09/18/90	Isler	Flame atomic abs.
Lead ... total	<0.001 mg/l	09/17/90	Isler	Atomic absorption Graphite furnace
Mercury ...ury, total	<0.0002 mg/l	09/13/90	Hostettler	Atomic absorption Cold vapor
Nickel ...el, total	<0.01 mg/l	09/18/90	Isler	Flame atomic abs.
Selenium ...nium, total	<0.005 mg/l	09/14/90	Isler	Atomic absorption Graphite furnace
Silver ...er, total	<0.002 mg/l	09/18/90	Isler	Flame atomic abs.
Thallium ...ium, total	<0.005 mg/l	09/24/90	Isler	Atomic absorption Graphite furnace
Zinc ... total	0.017 mg/l	09/19/90	Isler	Flame atomic abs.
Pest. ...PCB Extraction	PERFORMED	09/14/90	Clark, R.	

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Laboratory Report

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Date: 10/09/90

Page 4 of

Lab Control No: 11,654

P.O. Number: 0609

Job No.: 007357

Bill To:

As above

00000-0000

Sample Description: Monitoring wells

Sample Type: GRAB

Location: BS-3

Date Collected: 09-10-90

Date Received: 09/11/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Aldrin	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
alpha-BHC	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
eta-BHC	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
gamma-BHC (Lindane)	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
delta-BHC	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Chlordane	None Detected DL = 2.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
4,4'-DDT	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
4,4'-DDE	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
4,4'-DDD	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture

Remarks

State Certification No. M-10-1

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Professional Laboratory Services

Laboratory Report

Date: 10/09/90 Page 5 of [illegible]

Lab Control No: 11,654

P.O. Number: 0609 Job No. 007357

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

00000-0000

Sample Description: Monitoring wells

Sample Type: GRAB

Location: BS-3

Date Collected: 09-10-90

Date Received: 09/11/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Dieldrin	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
alpha-Endosulfan	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
[illegible]eta-Endosulfan	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Endosulfan sulfate	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Endrin	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Endrin aldehyde	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Heptachlor	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Heptachlor epoxide	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1242	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture

Remarks

State Certification No. M-10-1

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Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date: 10/09/90

Lab Control No: 11,654

P.O. Number: 0609

Job No.: 007357

Sample Source:

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

Sample Description: Monitoring wells

Sample Type: GRAB

Location: BS-3 00000-0000

Date Collected: 09-10-90

Date Received: 09/11/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
PCB-1254	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1221	None Detected DL = 25.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
-1232	None Detected DL = 25.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1248	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1260	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1016	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Toxaphene	None Detected DL = 25.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture

Remarks

State Certification No. M-10-1

Analysis Reviewed By: [signature]

CONSULTANTS, INC.
Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date: 10/09/90 Page 1 of

Lab Control No: 11,655

P.O. Number: 0609 Job No. 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:
As above

00000-0000

Sample Description: Monitoring wells
Sample Type: GRAB
Location: BW-4
Date Collected: 09-10-90
Date Received: 09/11/90
Collected By: Client
Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Cyanide, total (CN)	<0.02 mg/l	09/14/90	Hoover	Distillation/ Colorimetric
Phenols, total	<0.005 mg/l	09/13/90	Rogers	Distillation Chloroform extractio
cid/Base/Neutral Extract.	PERFORMED	09/13/90	Clark, R.	
PP Volatiles (1)	Detected	09/21/90	Wilson	Gas Chromatography Mass Spectrometry
PP Semi-Volatiles (2)	None Detected	09/18/90	Cropper	Gas chromotography Mass Spectrometry
1,1-Dichloroethane	26. ug/l	09/21/90	Wilson	Gas chromatography Mass spectrometry
1,1,1-Trichloroethane	81. ug/l	09/21/90	Wilson	Gas chromatography Mass spectrometry
Antimony, total	<0.003 mg/l	09/24/90	Isler	Atomic absorption Graphite furnace
Arsenic, total	0.002 mg/l	09/20/90	Isler	Atomic absorption Graphite furnace

Remarks

(1) See attached list for target compounds & respective detection limits.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed By

ROMENTAL CONSULTANTS INC
31 Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date: 10/09/90

Lab Control No: 11,655

P.O. Number: 0609

Job No.: 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

To: As Above

00000-0000

Sample Description	Sample Type	Location
Monitoring Wells	GRAB	BW-4

Date Collected	Date Received	Collected By	Time of Collection
09-10-90	09/11/90	Client	00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Beryllium, total	<0.01 mg/l	09/21/90	Isler	Flame atomic abs.
Cadmium, total	0.002 mg/l	09/18/90	Isler	Flame atomic abs.
omium, total	0.007 mg/l	09/19/90	Isler	Atomic absorption Graphite furnace
Copper, total	<0.01 mg/l	09/18/90	Isler	Flame atomic abs.
Lead, total	<0.001 mg/l	09/17/90	Isler	Atomic absorption Graphite furnace
Mercury, total	<0.0002 mg/l	09/13/90	Hostettler	Atomic absorption Cold vapor
Nickel, total	<0.01 mg/l	09/18/90	Isler	Flame atomic abs.
Selenium, total	<0.005 mg/l	09/14/90	Isler	Atomic absorption Graphite furnace
Silver, total	0.002 mg/l	09/18/90	Isler	Flame atomic abs.

Remarks

State Certification No. M-10-1

Analysis Reviewed By: [illegible]

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301 Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date: 10/09/90

Lab Control No: 11,655

P.O. Number: 0609

Job No.: 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:
As above

00000-0000

Sample Description	Sample Type	Location
Monitoring wells	GRAB	BW-4

Date Collected	Date Received	Collected By	Time of Collection
09-10-90	09/11/90	Client	00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Thallium, total	<0.005 mg/l	09/24/90	Isler	Atomic absorption Graphite furnace
Zinc, total	0.011 mg/l	09/19/90	Isler	Flame atomic abs.
est./PCB Extraction	PERFORMED	09/14/90	Clark, R.	
Aldrin	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
alpha-BHC	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
beta-BHC	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
gamma-BHC (Lindane)	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
delta-BHC	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Chlordane	None Detected DL = 2.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture

Remarks

State Certification No. M-10-1

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Professional Laboratory Services

Laboratory Report

Date: 10/09/90

Lab Control No: 11,655

P.O. Number: 0609

Job No.: 007357

ple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

t To:

As above

00000-0000

mple Description: Monitoring wells

Sample Type: GRAB

Location: BW-4

Date Collected: 09-10-90

Date Received: 09/11/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
4,4'-DDT	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
4,4'-DDE	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
.4'-DDD	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Dieldrin	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
alpha-Endosulfan	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
beta-Endosulfan	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Endosulfan sulfate	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Endrin	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Endrin aldehyde	None Detected DL = 0.5 ug/l	09/17/90	Peyton	Gas chromatography Electron capture

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Analysis Reviewed By

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Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date: 10/09/90 Page 5 of

Lab Control No: 11,655

P.O. Number: 0609

Job No: 007357

Sample Source:
Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Report To:
As above

Sample Description: Monitoring wells

Sample Type: GRAB

Location: 00000-0000 BW-4

Date Collected: 09-10-90

Date Received: 09/11/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Heptachlor	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
Heptachlor epoxide	None Detected DL = 0.25 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1242	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1254	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1221	None Detected DL = 25.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1232	None Detected DL = 25.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1248	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1260	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture
PCB-1016	None Detected DL = 5.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture

Remarks

State Certification No. M-10-1

Analysis Reviewed By

ENVIRONMENTAL CONSULTANTS INC.
391 Newman Avenue • Clarksville, Indiana 47130 • Phone (812) 282-8481

Environmental Consultants

Professional Laboratory Services

Laboratory Report

Date: 10/09/90

Lab Control No: 11,655

P.O. Number: 0609

Job No.: 007357

ple Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

l To:

As above

00000-0000

mple Description: Monitoring wells

Sample Type: GRAB

Location: BW-4

te Collected: 09-10-90

Date Received: 09/11/90

Collected By: Client

Time of Collection: 00:00

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Toxaphene	None Detected DL = 25.0 ug/l	09/17/90	Peyton	Gas chromatography Electron capture

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Analysis Reviewed

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24

Environmen Consultants

Professional Laboratory Services

Laboratory Report

Date: 10/22/90

Page 1

Lab Control No: 12,825

P.O. Number:

Job No.: 007.

Sample Source

Best Environmental
P.O. Box 576
I55 & R6 Frontage Road N.W.
Channahon, IL 60410-
Attn: Mr. Paul Barding

Bill To:

As above

Sample Description: Well Water

Sample Type: GRAB

Location: Monitor Well W-8

Date Collected: 10-11-90

Date Received: 10/12/90

Collected By: Client

Time of Collection: 09:00 am

Parameter	Results	Date Analyzed	Analyst	Method of Analysis
Acid/Base/Neutral Extract.	PERFORMED	10/16/90	Rector	
PP Volatiles (1)	None Detected	10/17/90	Wilson	Gas Chromatography Mass Spectrometry
PP Semi-Volatiles (2)	None Detected	10/16/90	Cropper	Gas chromotography Mass Spectrometry

where metals ??

Remarks

(1) See attached list for target compounds & respective detection limits.
(2) See attached list for target compounds & respective detection limits.

State Certification No. M-10-1

Analysis Reviewed

Environmental Consultants

Sample Number
WELL-W-8

VOLATILE ORGANICS ANALYSIS DATA SHEET
VOLATILE COMPOUNDS
(Page 1)

Laboratory Name: ENV CONS INC
Lab Sample ID No: 112825
Sample Matrix: WATER
Data Release Authorized By: _____

Case No: _____
QC Report No: _____
Contract No: _____
Date Sample Received: 10/12/90

METHOD 8240

Concentration: LOW
Date Extracted/Prepared: _____
Date Analyzed: 10/17/90
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) _____

CAS Number		ug/L		CAS Number		ug/L	
74-84-3	Chloromethane	10	U	124-48-1	Dibromochloromethane	5	U
74-83-9	Bromomethane	10	U	79-00-5	1,1,2-Trichloroethane	5	U
75-01-4	Vinyl Chloride	10	U	71-43-2	Benzene	5	U
75-00-3	Chloroethane	10	U	10061-01-5	Cis-1,3-Dichloropropene	5	U
75-09-2	Methylene Chloride	23	B	75-25-2	Bromoform	5	U
67-64-1	Acetone	10	U	108-10-1	4-Methyl-2-Pentanone	10	U
-0	Carbon Disulfide	5	U	591-78-6	2-Hexanone	10	U
75-35-4	1,1-Dichloroethene	5	U	127-18-4	Tetrachloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U	108-88-3	Toluene	5	U
156-59-2	Cis 1,2-Dichloroethene	5	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	108-90-7	Chlorobenzene	5	U
67-66-3	Chloroform	5	U	100-41-4	Ethylbenzene	5	U
107-06-2	1,2-Dichloroethane	5	U	100-42-5	Styrene	5	U
78-93-3	2-Butanone	10	U		M & P Xylenes	5	U
71-55-6	1,1,1-Trichloroethane	5	U	95-47-5	O-Xylene	5	U
56-23-5	Carbon Tetrachloride	5	U	107-02-8	Acrolein	10	U
108-05-4	Vinyl Acetate	10	U	107-13-1	Acrylonitrile	10	U
75-27-4	Bromodichloromethane	5	U	110-75-8	2-Chloroethylvinylether	10	U
78-87-5	1,2-Dichloropropane	5	U	76-13-1	Trichlorofluoromethane	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U	75-71-8	Dichlorodifluoromethane	5	U
79-01-6	Trichloroethene	5	U				

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

Environmental Consultants

ɔratory Name: ENV CONS INC
No:

Sample Number
WELL-W-8

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS
(Page 2)

METHOD 8270

Concentration: LOW
Date Extracted/Prepared: 10/16/90
Date Analyzed: 10/16/90
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/L		CAS Number		ug/L	
108-95-2	Phenol	10	U	100-02-7	4-Nitrophenol	50	U
111-44-4	bis(2-Chloroethyl)Ether	10	U	132-64-9	Dibenzofuran	10	U
95-57-8	2-Chlorophenol	10	U	121-14-2	2,4-Dinitrotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U	84-66-2	Diethylphthalate	10	U
106-46-7	1,4-Dichlorobenzene	10	U	7005-72-3	4-Chlorophenyl-phenylether	10	U
100-51-6	Benzyl Alcohol	20	U	86-73-7	Fluorene	10	U
95-50-1	1,2-Dichlorobenzene	10	U	100-10-6	4-Nitroaniline	50	U
95-48-7	2-Methylphenol	10	U	534-52-1	4,6-Dinitro-2-Methylphenol	50	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U	86-30-6	N-Nitrosodiphenylamine	10	U
[illegible]-44-5	4-Methylphenol	10	U	101-55-3	4-Bromophenyl-phenylether	10	U
[illegible]-64-7	N-Nitroso-Di-n-Propylamine	10	U	118-74-1	Hexachlorobenzene	10	U
[illegible]/2-1	Hexachloroethane	10	U	87-86-5	Pentachlorophenol	50	U
98-95-3	Nitrobenzene	10	U	85-01-8	Phenanthrene	10	U
78-59-1	Isophorone	10	U	120-12-7	Anthracene	10	U
88-75-5	2-Nitrophenol	10	U	84-74-2	Di-n-Butylphthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U	206-44-0	Fluoranthene	10	U
65-85-0	Benzoic Acid	50	U	129-00-0	Pyrene	10	U
111-91-1	Bis (2-Chloroethoxy)Methane	10	U	85-68-7	Butylbenzylphthalate	10	U
120-83-2	2,4-Dichlorophenol	10	U	91-94-1	3,3'-Dichlorobenzidine	20	U
120-82-1	1,2,4-Trichlorobenzene	10	U	56-55-3	Benzo(a)Anthracene	10	U
91-20-3	Naphthalene	10	U	218-01-9	Chrysene	10	U
106-47-8	4-Chloroaniline	20	U	117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
87-68-3	Hexachlorobutadiene	10	U	117-84-0	Di-n-Octyl Phthalate	10	U
59-50-7	4-Chloro-3-Methylphenol	20	U	205-99-2	Benzo(b)Fluoranthene	10	U
91-57-6	2-Methylnaphthalene	10	U	92-87-5	Benzidine	50	U
77-47-4	Hexachlorocyclopentadiene	10	U	122-66-7	1,2-Diphenylhydrazine	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	62-75-9	N-Nitrosodimethylamine	10	U
95-95-4	2,4,5-Trichlorophenol	50	U	62-53-3	Aniline	10	U
91-58-7	2-Chloronaphthalene	10	U	109-06-8	2-Picoline	50	U
88-74-4	2-Nitroaniline	50	U	95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
131-11-3	Dimethyl Phthalate	10	U	207-08-9	Benzo(k)Fluoranthene	10	U
208-96-8	Acenaphthylene	10	U	50-32-8	Benzo(a)Pyrene	10	U
606-20-2	2,6-Dinitrotoluene	10	U	193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
99-09-2	3-Nitroaniline	50	U	53-70-3	Dibenzo(a,h)Anthracene	10	U
83-32-9	Acenaphthene	10	U	191-24-2	Benzo(g,h,i)Perylene	10	U
[illegible]-28-5	2,4-Dinitrophenol	50	U				

U - Compound analyzed for but not detected. The reported value is the minimum attainable quantitation limit for the sample.

APPENDIX C

LOG OF BORING BS-3

BEST Environmental, Inc.

Project: Torrington Bearing Site
Date: 8-6-90 19
Location: Sample St., South Bend, IN
Sheet No. 1 of 2

Boring Location Next to waste oil tank dike on SW corner of building
Sta. Off.
Surface Elevation

Std. Penetration Test

Driller: J. Jerbis
Geologist:
Foreman: P. Barding
Inspector:

Soil Classification	Sample Type	Sample #	Depth	Water Level	Screen Type / Slot	Recharge Rate	HNU	Notes
Asphalt								8" Flush Mount Cover
Brown Medium to Coarse Sand, Some Gravel								Concrete From Grade to 3'
								2" Stainless Steel Riser From 4"-19' 7"
								Bentonite Seal From 3.0-5.0
								Native Formation Backfill From 5.0-24' 7"
Wet Dark Brown Medium Sand, Strong Odor								
Wet Brown Medium Sand, Some Gravel								
Gray Medium To Coarse Sand, Some Gravel								

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Boring Method: HSA

Water Observations:
▽ On tools 6.5 Ft
▽ Completion 6' 10" Ft
▼ After ___ . ___ Ft
Cave

LOG OF BORING BS-3

BEST Environmental, Inc.

Project: Torrington Bearing Site
Location: Sample St., South Bend, IN
Date: 8-6-90 19 __
Sheet No. 2 of 2

Boring Location Next to waste oil tank dike on SW corner of building
Sta. Off.
Surface Elevation
Soil Classification

Std. Penetration Test

Driller: J. Jerbis
Geologist:
Foreman: P. Banding
Inspector:

Sample Type	Sample #	Depth	Water Level	Screen Type & Slot	Recharge Rate	HNU	Notes
							Native Formation Backfill From 5.0-24' 7"
							2".010 Stainless Steel Screen From 19'.7" - 24'.7"
							Boring Stopped at 25'
							Water Encountered at Approximately 6.5'
							Odor In Cuttings From Approximately 5.0-14.0

16
17
Brown Medium to Coarse Sand, Some Fine Gravel
18
19
20
21
22
23
24
25

Boring Method: HSA

Water Observations:
On tools ____ Ft
Completion ____ Ft
After ____ . ____ Ft
Cave