15130 South Keeler, Olathe, Kansas 66062
Phone: (913) 829-0101 - Fax: (913) 829 1191
e-mail: amlab@idir.net

Certificate of Analysis

July 10, 1998

Mr. Charlie Troppito
Kingston Environmental
1600 SW Market
Lee's Summit, MO 64081
Phone: 524-8811
Fax: 525-150027

Client Project ID: 2100 Wyandotte Bldg. / 98C017
Chain of Custody #: 3384

Lab Project Number: 070698.04

Dear Mr. Troppito:

Included are the analytical results for the soil samples received on July 06, 1998. All analyses were prepared and analyzed within method required holding times.

The semi-volatile detection limits are elevated due to the high level of total petroleum hydrocarbons.

The surrogate recoveries for the volatile analysis are below acceptable criteria. This is is due to matrix effects of the oily sample. All data results are qualified with a "J" to indicate estimated values only.

If you have any questions regarding this report, feel free to contact me at (913) 829-0101.

Randall Lindquist
Laboratory Manager

R00401635
RCRA RECORDS CENTER

Reviewed By: KR

AML
15130 South Keeler, Olathe, Kansas 66062
Phone: (913) 829-0101 - Fax: (913) 829-1181
e-mail: amlab@idi.net

Certificate of Analysis

Mr. Charlie Troppito
Kingston Environmental

Client Project ID: 2100 Wyandotte Bldg. / 98C017
Chain of Custody #: 3384

Lab Project Number: 070698.04

Client Sample ID:	WY-1	Date Collected:	07/02/98
Lab Sample ID:	A1805	Date Received	07/02/98

TPH-Diesel Date Analyzed: 07/10/98 Analyst: RRH Method: OA2

Analyte	Results	Units	Detection Limit
Total TPH-Diesel Range	19000	mg/kg	50
Terphenyl-d14 (surrogate)	Diluted Out	%	

BNA Date Analyzed: 07/10/98 Analyst: KLL Method: 8270

Analyte	Results	Units	Detection Limit
Phenol	ND	µg/kg	100000
2-Chlorophenol	ND	µg/kg	100000
1,3-Dichlorobenzene	ND	µg/kg	100000
1,4-Dichlorobenzene	ND	µg/kg	100000
1,2-Dichlorobenzene	ND	µg/kg	100000
2-Methylphenol	ND	µg/kg	100000
bis (2-chloroisopropyl) ether	ND	µg/kg	100000
4-Methylphenol	ND	µg/kg	100000
n-Nitroso-di-Propylamine	ND	µg/kg	100000
Hexachloroethane	ND	µg/kg	100000
Nitrobenzene	ND	µg/kg	100000
Isophorone	ND	µg/kg	100000
2-Nitrophenol	ND	µg/kg	100000
2,4-Dimethylphenol	ND	µg/kg	100000
bis (2-chloroethoxy) Methane	ND	µg/kg	100000
2,4-Dichlorophenol	ND	µg/kg	100000
1,2,4-Trichlorobenzene	ND	µg/kg	100000
Naphthalene	ND	µg/kg	100000
4-Chloroaniline	ND	µg/kg	100000
Hexachlorocyclopentadiene	ND	µg/kg	100000
2,4,6-Trichlorophenol	ND	µg/kg	100000
2,4,5-Trichlorophenol	ND	µg/kg	100000
2-Chloronaphthalene	ND	µg/kg	100000
2-Nitroaniline	ND	µg/kg	100000
Dimethylphthalate	ND	µg/kg	100000
Acenaphthylene	ND	µg/kg	100000
3-Nitroaniline	ND	µg/kg	100000
Acenaphthene	ND	µg/kg	100000
2,4-Dinitrophenol	ND	µg/kg	100000
4-Nitrophenol	ND	µg/kg	100000
Dibenzofuran	ND	µg/kg	100000
2,4-Dinitrotoluene	ND	µg/kg	100000
Diethylphthalate	ND	µg/kg	100000

Reviewed By: JL

AML
15130 South Keeler, Olathe, Kansas 66062
Phone: (913) 829 0101 • Fax: (913) 829 1181
e-mail: amlab@sdir.net

Certificate of Analysis

Kingston Environmental

Client Project ID: 2100 Wyandotte Bldg. / 98C017
Chain of Custody #: 3384

Lab Project Number: 070698.04

Client Sample ID: W[illegible]
Lab Sample ID: A1805 (cont.)

Analyte	Results	Units	Detection Limit
4-Chlorophenyl-phenylether	ND	µg/kg	100000
Fluorene	ND	µg/kg	100000
4-Nitroaniline	ND	µg/kg	100000
4,6-Dinitro-2-Methylphenol	ND	µg/kg	100000
n-Nitrosodiphenylamine	ND	µg/kg	100000
4-Bromophenyl-Phenylether	ND	µg/kg	100000
Hexachlorobenzene	ND	µg/kg	100000
Pentachlorophenol	ND	µg/kg	100000
Phenanthrene	ND	µg/kg	100000
Anthracene	ND	µg/kg	100000
Di-n-butyl Phthalate	ND	µg/kg	100000
4-Chloro-3-methyl phenol	ND	µg/kg	100000
Hexachlorobutadiene	ND	µg/kg	100000
2,6-Dinitrotoluene	ND	µg/kg	100000
2-Methylnaphthalene	ND	µg/kg	100000
Chrysene	ND	µg/kg	100000
Di-octyl Phthalate	ND	µg/kg	100000
Fluoranthene	ND	µg/kg	100000
Pyrene	ND	µg/kg	100000
Butylbenzylphthalate	ND	µg/kg	100000
Benzo (a) Anthracene	ND	µg/kg	100000
bis (2-ethylhexyl) Phthalate	ND	µg/kg	100000
Benzo (b) Fluoranthene	ND	µg/kg	100000
Benzo (k) Fluoranthene	ND	µg/kg	100000
Benzo (a) Pyrene	ND	µg/kg	100000
Indeno (1,2,3-cd) Pyrene	ND	µg/kg	100000
Benzo (a,h) Anthracene	ND	µg/kg	100000
Benzo (g,h,i) Perylene	ND	µg/kg	100000
2-Fluorophenol (surrogate)	Diluted Out	%	
Phenol-d6 (surrogate)	Diluted Out	%	
Nitrobenzene-d5 (surrogate)	Diluted Out	%	
2-Fluorobiphenyl (surrogate)	Diluted Out	%	
2,4,6-Tribromophenol (surrogate)	Diluted Out	%	
Terphenyl-d14 (surrogate)	Diluted Out	%	

TIC's

RT	Analyte	Estimated Amount		Units
	Unknown Alkanes	19000	J	mg/kg

Reviewed By: [illegible]

15130 South Keeler, Olathe, Kansas 66062
Phone: (913) 829-0101 • Fax: (913) 829-1181
e-mail: amlab@idir.net

Certificate of Analysis

Kingston Environmental

Client Project ID: 2100 Wyandotte Bldg / 980017 Lab Project Number: 070698.04
Chain of Custody #: 3384

Client Sample ID: WY-1
Lab Sample ID: A1805 (cont.)

Volatiles Date Analyzed: 07/09/98 Analyst: [illegible] Method: 8260

Analyte	Results	Units	Detection Limit
Dichlorodifluoromethane	ND	µg/kg	50
Chloromethane	ND	µg/kg	50
Vinyl Chloride	ND	µg/kg	50
Bromomethane	ND	µg/kg	50
Chloroethane	ND	µg/kg	50
Acetone	ND	µg/kg	50
1,1-Dichloroethene	ND	µg/kg	50
Iodomethane	ND	µg/kg	50
Carbon Disulfide	ND	µg/kg	50
Methylene Chloride	ND	µg/kg	50
Methyl Tert Butyl Ether (MTBE)	ND	µg/kg	50
trans-1,2-Dichloroethene	ND	µg/kg	50
1,1-Dichloroethane	ND	µg/kg	50
2-Butanone (MEK)	ND	µg/kg	50
cis-1,2-Dichloroethene	ND	µg/kg	50
2,2-Dichloropropane	ND	µg/kg	50
Bromochloromethane	ND	µg/kg	50
Chloroform	ND	µg/kg	50
1,1,1-Trichloroethane	ND	µg/kg	50
1,1-Dichloropropene	ND	µg/kg	50
Carbon Tetrachloride	ND	µg/kg	50
1,2-Dichloroethane	ND	µg/kg	50
Benzene	ND	µg/kg	50
Trichloroethene	ND	µg/kg	50
1,2-Dichloropropane	ND	µg/kg	50
Dibromomethane	ND	µg/kg	50
Bromodichloromethane	ND	µg/kg	50
2-Chloroethyl vinyl ether	ND	µg/kg	50
cis-1,3-Dichloropropene	ND	µg/kg	50
2-Methyl-4-pentanone (MIBK)	ND	µg/kg	50
Toluene	150 J	µg/kg	50
trans-1,3-Dichloropropene	ND	µg/kg	50
1,1,2-Trichloroethane	ND	µg/kg	50
1,3-Dichloropropane	ND	µg/kg	50
Tetrachloroethene	ND	µg/kg	50
2-Hexanone	ND	µg/kg	50
Dibromochloromethane	ND	µg/kg	50
1,2-Dibromomethane	ND	µg/kg	50
Chlorobenzene	ND	µg/kg	50
1,1,1,2-Tetrachloroethane	ND	µg/kg	50

Reviewed By: [illegible]

15130 South Keeler, Olathe, Kansas 66062
Phone: (913) 829-0101 - Fax: (913) 829-1181
e-mail: amlab@idir.net

Certificate of Analysis

Kingston Environmental

Client Project ID: 2100 Wyandotte Bldg. / 98C017 Lab Project Number: 070698.04
Chain of Custody #: 3384

Client Sample ID: WY-1
Lab Sample ID: A1805 (cont.)

Analyte	Results	Units	Detection Limit
Ethyl Benzene	ND	µg/kg	50
m/p Xylene	53 J	µg/kg	50
o Xylene	ND	µg/kg	50
Styrene	ND	µg/kg	50
Bromoform	ND	µg/kg	50
Isopropyl benzene	ND	µg/kg	50
1,1,2,2-tetrachloroethane	ND	µg/kg	50
Bromobenzene	ND	µg/kg	50
1,2,3-Trichloropropane	ND	µg/kg	50
n-Propyl benzene	300 J	µg/kg	50
2-Chlorotoluene	ND	µg/kg	50
1,3,5-Trimethyl benzene	610 J	µg/kg	50
4-chlorotoluene	ND	µg/kg	50
tert Butyl benzene	ND	µg/kg	50
1,2,4-trimethyl benzene	2400 J	µg/kg	50
sec Butyl benzene	ND	µg/kg	50
1,3-Dichlorobenzene	ND	µg/kg	50
p-isopropyl toluene	ND	µg/kg	50
1,4-Dichlorobenzene	ND	µg/kg	50
n-Butyl benzene	ND	µg/kg	50
1,2-Dichlorobenzene	ND	µg/kg	50
1,2-Dibromo-3-chloropropane	ND	µg/kg	50
1,2,4-Trichlorobenzene	ND	µg/kg	50
Hexachlorobutadiene	ND	µg/kg	50
Naphthalene	180 J	µg/kg	50
1,2,3-Trichlorobenzene	ND	µg/kg	50
Dibromofluoromethane (surrogate)	83	%	
1,2-Dichloroethane-d4 (surrogate)	113	%	
Toluene-d8 (surrogate)	57	%	
4-Bromofluorobenzene (surrogate)	28	%	

TIC's

RT	Analyte	Estimated Amount		Units
9.23	Unknown Alkane	80	J	ug/kg
10.25	Unknown Alkane	240	J	ug/kg
18.07	Substituted Benzene	960	J	ug/kg
18.73	Substituted Benzene	380	J	ug/kg
19.74	Limonene	580	J	ug/kg
20.07	Trimethyl Benzene	630	J	ug/kg
20.97	Unknown Alkane	430	J	ug/kg

Reviewed By: KR

15130 South Keeler, Olathe, Kansas 66062
Phone: (913) 829-0101 • Fax: (913) 829-1161
e mail: amlab@idir.net

Certificate of Analysis

Kingston Environmental

Client Project ID: 2100 Wyandotte Bldg. / 98C017
Chain of Custody #: 3384

Lab Project Number: 070698.04

Client Sample ID: WY-1
Lab Sample ID: A1805 (cont.)

RCRA8 Metals

Analyte	Results	Units	Detection Limit	Analyst	Date Analyzed	Method
Arsenic	ND	mg/kg	0.80	KEZ	07/08/98	6010
Barium	0.598	mg/kg	0.20	KEZ	07/08/98	6010
Cadmium	ND	mg/kg	0.20	KEZ	07/08/98	6010
Chromium	ND	mg/kg	1.0	KEZ	07/08/98	6010
Lead	2.93	mg/kg	1.0	KEZ	07/08/98	6010
Mercury	ND	mg/kg	0.02	KEZ	07/08/98	7420
Selenium	ND	mg/kg	1.0	KEZ	07/08/98	6010
Silver	ND	mg/kg	0.20	KEZ	07/08/98	6010

Analyte	Results	Units	Detection Limit	Analyst	Date Analyzed	Method
pH	6.610	su		KEZ	07/10/98	9045

Reviewed By: KE

AM Laboratories, Inc.

1130 B South Keeler - Olathe, KS 66062
Phone (913) 829-0101 • Fax (913) 829-1111

Page 1 of 1

Chain of Custody Record

Client Contact Name:
Company Name: Kingston Environmental
Address: 1600 S.W. Market
City, State, Zip: Lee's Summit, MO 64081
Phone #: ( ) 524-6811
Fax #: ( ) 525-6027

Project Name: Ziebo Wyandotte Bldg.
Project Number: 9800 II
Project Due Date: Normal Turnaround
Project Comments:
Sampler's Signature:

Analyses/Methods to be Performed (Check all that apply)

Method # →

Lab ID	Sample Description (This is the identifier that will appear on the report. The Field ID is most commonly used.)	Date (List Date and Time each sample taken.)	Time	Matrix (soil, water, air, oil)	Total # Containers	Preservative (List total number of bottles for each preservative type.) HCL	HNO_3	NaOH	Unpreserved	4°C	TPH	TPH Gas	BTEX	BTEX/MTBE/GC/MS	Volatiles (VOCs)	BNAs (SVOCs)	Pesticides/PCBs	PCBs	TCLP Metals	RCRA8 Metals	Lead	Flash Point	Paint Filter Test	Total Volatile Organics	Total Semi-Volatile Organics	Please include any items on this line may be useful in the analysis of the sample. Example: high concentration
11805	WY-1	7/2/98	9:30a	O																X						include TIC's on VOC Th. 8260 + 8270

Relinquished By:		Date/Time: 7/2/98 5:00PM	Received By:		Date/Time: 7/6/98
Relinquished By:		Date/Time:	Received By:		Date/Time:

Delivery Method: ☐ Delivered in Person ☐ Courier
Custody Seals: ☐ Yes ☐ No ☐ Intact
Coolant: ☐ Ice ☐ Blue Ice ☐ None