TriMatrix
Laboratories, Inc.

August 25, 2004

EQ-Environmental Quality Company
Attn: Ms. Terri Zick
CTI & Associates, Inc.
12482 Emerson Drive
Brighton, MI 48116

RE: Arkona Road Leachate
Submittal Number: 36650-1

Dear Ms. Terri Zick:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on July 22, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 68.

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36650- 1

STATEMENT OF DATA QUALIFICATIONS

Analysis: **Sulfide**
Titrimetric, Iodine
WW 376.1/4500 S2-F

Qualification:

The matrix duplicate (DUP) RPD for this sample, fell outside the laboratory control limit for this method and matrix. The corresponding sample result must be considered estimated.

Explanation for Sample(s) listed below:

Relative % Diff	Control Limits
67%	0- 20

Sample(s) Qualified: 365721 Leachate 1A-J

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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36650- 1

CASE NARRATIVE

Analysis: **Semi-Volatiles 8270C**
Semi-Volatiles GC/MS
WATER USEPA-8270C

Narrative:

Chromatographic limitations of this method prevent 4-methylphenol from being resolved from 3-methylphenol. Because of this, the reported result could actually be 4-methylphenol, 3-methylphenol, or a combination of both isomers.

Sample(s) Narrated: 365721 Leachate 1A-J

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ANALYTICAL REPORT

Client: **EQ-Environmental Quality Company**
Project: Arkona Road Leachate

Sampled: 07/20/04 @ 00:00
Sampler: T. Zick
Received: 07/21/04 @ 08:45

Submittal #: **36650-1**
Submittal: July 20, 2004 Samples

Sample ID: **Leachate 1A-J**
Sample #: **365721**
Matrix: Leachate

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Cyanide, Total	<0.005	0.005	mg/L	07/27/04	JLB	USEPA-335.2
* Sulfide	<1.0	1.0	mg/L	07/27/04	JMJ	376.1/4500 S2-F
Antimony, Total	<0.1	0.1	mg/L	07/27/04	DSC	EPA-200.7
Arsenic, Total	<0.1	0.1	mg/L	07/27/04	DSC	EPA-200.7
Barium, Total	0.86	0.01	mg/L	07/27/04	DSC	EPA-200.7
Beryllium, Total	<0.01	0.01	mg/L	07/27/04	DSC	EPA-200.7
Cadmium, Total	<0.01	0.01	mg/L	07/27/04	DSC	EPA-200.7
Chromium, Total	<0.05	0.05	mg/L	07/27/04	DSC	EPA-200.7
Cobalt, Total	0.015	0.01	mg/L	07/27/04	DSC	EPA-200.7
Copper, Total	0.014	0.01	mg/L	07/27/04	DSC	EPA-200.7
Lead, Total	<0.05	0.05	mg/L	07/27/04	DSC	EPA-200.7
Mercury, Total	<0.0002	0.0002	mg/L	07/28/04	MSG	USEPA-245.1
Nickel, Total	0.051	0.01	mg/L	07/27/04	DSC	EPA-200.7
Selenium, Total	<0.1	0.1	mg/L	07/28/04	KLVM	EPA-200.7
Silver, Total	0.014	0.01	mg/L	07/27/04	DSC	EPA-200.7
Thallium, Total	<0.1	0.1	mg/L	07/27/04	DSC	EPA-200.7
Tin, Total	<1	1	mg/L	07/28/04	KLVM	EPA-200.7
Vanadium, Total	<0.1	0.1	mg/L	07/27/04	DSC	EPA-200.7
Zinc, Total	1.44	0.02	mg/L	07/27/04	DSC	EPA-200.7

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **EQ-Environmental Quality Company**
Project: Arkona Road Leachate

Submittal #: **36650-1**
Submittal: July 20, 2004 Samples

Sample ID: **Leachate 1A-J**
Sample #: **365721**
Matrix: Leachate
Unit: mg/L

Sampled: 07/20/04 @ 00:00
Sampler: T. Zick
Received: 07/21/04 @ 08:45
Prepared: 07/26/04 by PAK
Prep. Method: USEPA-3510C
Analyzed: 08/01/04 by JMK1
Anal. Method: USEPA-8270C
QC Batch: 97606 -126
Anal. Batch: 219374
Percent Solids: n/a
Dilution Factor: 1

CAS Number	Semi-Volatiles 8270C Appendix IX Compound List modified CLP Form 1	Analytical Result	Reporting Limit
83-32-9	Acenaphthene	<0.005	0.005
208-96-8	Acenaphthylene	<0.005	0.005
98-86-2	Acetophenone	<0.01	0.01
53-96-3	2-Acetylaminofluorene	<0.05	0.05
92-67-1	4-Aminobiphenyl	<0.01	0.01
62-53-3	**Aniline**	**0.027**	0.005
120-12-7	Anthracene	<0.005	0.005
140-57-8	Aramite	<0.05	0.05
56-55-3	Benzo (a) Anthracene	<0.005	0.005
50-32-8	Benzo (a) Pyrene	<0.005	0.005
205-99-2	Benzo (b) Fluoranthene	<0.005	0.005
207-08-9	Benzo (k) Fluoranthene	<0.005	0.005
191-24-2	Benzo (g,h,i,) Perylene	<0.005	0.005
100-51-6	Benzyl Alcohol	<0.05	0.05
101-55-3	4-Bromophenyl Phenylether	<0.005	0.005
85-68-7	Butyl Benzyl Phthalate	<0.005	0.005
88-85-7	2-sec-Butyl-4,6-dinitro-phenol	<0.005	0.005
106-47-8	4-Chloroaniline	<0.02	0.02
111-91-1	Bis (2-Chloroethoxy)-Methane	<0.005	0.005
111-44-4	Bis (2-Chloroethyl) Ether	<0.005	0.005
108-60-1	Bis (2-Chloroisopropyl)-Ether	<0.005	0.005
59-50-7	4-Chloro-3-Methylphenol	<0.005	0.005
91-58-7	2-Chloronaphthalene	<0.005	0.005
95-57-8	2-Chlorophenol	<0.005	0.005
7005-72-3	4-Chlorophenylphenyl-Ether	<0.005	0.005
218-01-9	Chrysene	<0.005	0.005
84-74-2	**Di-n-Butylphthalate**	**0.017**	0.005
117-84-0	Di-n-Octylphthalate	<0.005	0.005
53-70-3	Dibenzo (a,h) Anthracene	<0.005	0.005

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ANALYTICAL REPORT

Client:	**EQ-Environmental Quality Company**	Sampled:	07/20/04 @ 00:00
Project:	Arkona Road Leachate	Sampler:	T. Zick
		Received:	07/21/04 @ 08:45
		Prepared:	07/26/04 by PAK
Submittal #:	**36650-1**	Prep. Method:	USEPA-3510C
Submittal:	July 20, 2004 Samples	Analyzed:	08/01/04 by JMK1
		Anal. Method:	USEPA-8270C
Sample ID:	**Leachate 1A-J**	QC Batch:	97606 -126
Sample #:	**365721**	Anal. Batch:	219374
Matrix:	Leachate	Percent Solids:	n/a
Unit:	mg/L	Dilution Factor:	1

CAS Number	Semi-Volatiles 8270C Appendix IX Compound List modified CLP Form 1	Analytical Result	Reporting Limit
132-64-9	Dibenzofuran	<0.005	0.005
95-50-1	1,2-Dichlorobenzene	<0.005	0.005
541-73-1	1,3-Dichlorobenzene	<0.005	0.005
106-46-7	1,4-Dichlorobenzene	<0.005	0.005
91-94-1	3,3'-Dichlorobenzidine	<0.02	0.02
120-83-2	2,4-Dichlorophenol	<0.005	0.005
87-65-0	2,6-Dichlorophenol	<0.005	0.005
84-66-2	**Diethylphthalate**	**0.017**	0.005
60-11-7	p-Dimethylaminoazobenzene	<0.01	0.01
57-97-6	7,12-Dimethylbenz(a)anthr acene	<0.01	0.01
119-93-7	3,3'-Dimethylbenzidine	<0.05	0.05
122-09-8	a,a-Dimethyl-phenethylamine	<0.02	0.02
105-67-9	**2,4-Dimethylphenol**	**0.032**	0.005
131-11-3	Dimethylphthalate	<0.005	0.005
99-65-0	1,3-Dinitrobenzene	<0.005	0.005
534-52-1	4,6-Dinitro-2-Methylphenol	<0.02	0.02
51-28-5	2,4-Dinitrophenol	<0.02	0.02
121-14-2	2,4-Dinitrotoluene	<0.005	0.005
606-20-2	2,6-Dinitrotoluene	<0.005	0.005
122-39-4	Diphenylamine	<0.01	0.01
117-81-7	**Bis (2-ethylhexyl)-Phthalate**	**0.012**	0.005
97-63-2	Ethyl Methacrylate	<0.05	0.05
62-50-0	Ethyl Methanesulfonate	<0.01	0.01
206-44-0	Fluoranthene	<0.005	0.005
86-73-7	Fluorene	<0.005	0.005
118-74-1	Hexachlorobenzene	<0.005	0.005
87-68-3	Hexachlorobutadiene	<0.005	0.005
77-47-4	Hexachlorocyclopentadiene	<0.005	0.005
67-72-1	Hexachloroethane	<0.005	0.005

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ANALYTICAL REPORT

Client:	**EQ-Environmental Quality Company**	Sampled:	07/20/04 @ 00:00
Project:	Arkona Road Leachate	Sampler:	T. Zick
		Received:	07/21/04 @ 08:45
		Prepared:	07/26/04 by PAK
Submittal #:	**36650-1**	Prep. Method:	USEPA-3510C
Submittal:	July 20, 2004 Samples	Analyzed:	08/01/04 by JMK1
		Anal. Method:	USEPA-8270C
Sample ID:	**Leachate 1A-J**	QC Batch:	97606 -126
Sample #:	**365721**	Anal. Batch:	219374
Matrix:	Leachate	Percent Solids:	n/a
Unit:	mg/L	Dilution Factor:	1

CAS Number	Semi-Volatiles 8270C Appendix IX Compound List modified CLP Form 1	Analytical Result	Reporting Limit
1888-71-7	Hexachloropropene	<0.05	0.05
193-39-5	Indeno (1,2,3-cd) Pyrene	<0.005	0.005
78-59-1	Isophorone	<0.005	0.005
120-58-1	Isosafrole	<0.02	0.02
91-80-5	Methapyrilene	<0.01	0.01
56-49-5	3-Methylcholanthrene	<0.05	0.05
66-27-3	Methyl methanesulfonate	<0.05	0.05
80-62-6	Methylmethacrylate	<0.05	0.05
91-57-6	2-Methylnaphthalene	<0.005	0.005
95-48-7	**2-Methylphenol**	**0.036**	0.005
108-39-4	3-Methylphenol	<0.005	0.005
106-44-5	**4-Methylphenol**	**0.35**	0.005
91-20-3	**Naphthalene**	**0.0055**	0.005
130-15-4	1,4-Naphthoquinone	<1	1
134-32-7	1-Naphthylamine	<0.05	0.05
91-59-8	2-Naphthylamine	<0.05	0.05
88-74-4	2-Nitroaniline	<0.02	0.02
99-09-2	3-Nitroaniline	<0.02	0.02
100-01-6	4-Nitroaniline	<0.02	0.02
98-95-3	Nitrobenzene	<0.005	0.005
88-75-5	2-Nitrophenol	<0.005	0.005
100-02-7	4-Nitrophenol	<0.02	0.02
56-57-5	4-Nitroquinoline-1-oxide	<0.5	0.5
924-16-3	N-Nitroso-di-n-butylamine	<0.02	0.02
55-18-5	N-Nitroso-di-ethylamine	<0.005	0.005
62-75-9	N-Nitroso-di-methylamine	<0.005	0.005
86-30-6	**N-Nitroso-di-Phenylamine**	**0.021**	0.005
621-64-7	N-Nitrosodi-n-Propylamine	<0.005	0.005
10595-95-6	N-Nitrosomethylethylamine	<0.005	0.005
59-89-2	N-Nitrosomorpholine	<0.02	0.02
100-75-4	N-Nitrosopiperidine	<0.02	0.02
930-55-2	N-Nitrosopyrrolidine	<0.02	0.02
99-55-8	5-Nitro-o-toluidine	<0.01	0.01

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ANALYTICAL REPORT

Client: **EQ-Environmental Quality Company**
Project: Arkona Road Leachate

Submittal #: **36650-1**
Submittal: July 20, 2004 Samples

Sample ID: **Leachate 1A-J**
Sample #: **365721**
Matrix: Leachate
Unit: mg/L

Sampled: 07/20/04 @ 00:00
Sampler: T. Zick
Received: 07/21/04 @ 08:45
Prepared: 07/26/04 by PAK
Prep. Method: USEPA-3510C
Analyzed: 08/01/04 by JMK1
Anal. Method: USEPA-8270C
QC Batch: 97606 -126
Anal. Batch: 219374
Percent Solids: n/a
Dilution Factor: 1

CAS Number	Semi-Volatiles 8270C Appendix IX Compound List modified CLP Form 1	Analytical Result	Reporting Limit
608-93-5	Pentachlorobenzene	<0.005	0.005
76-01-7	Pentachloroethane	<0.05	0.05
82-68-8	Pentachloronitrobenzene	<0.02	0.02
87-86-5	Pentachlorophenol	<0.02	0.02
62-44-2	Phenacetin	<0.01	0.01
85-01-8	Phenanthrene	<0.005	0.005
108-95-2	**Phenol**	**0.041**	0.005
106-50-3	1,4-Phenylenediamine	<0.01	0.01
109-06-8	**2-Picoline**	**0.0051**	0.005
129-00-0	Pyrene	<0.005	0.005
110-86-1	Pyridine	<0.01	0.01
23950-58-5	Pronamide	<0.01	0.01
94-59-7	Safrole	<0.01	0.01
95-94-3	1,2,4,5-Tetrachloro-benzene	<0.01	0.01
58-90-2	2,3,4,6-Tetrachlorophenol	<0.05	0.05
95-53-4	**2-Toluidine**	**0.079**	0.01
120-82-1	1,2,4-Trichlorobenzene	<0.005	0.005
95-95-4	2,4,5-Trichlorophenol	<0.05	0.05
88-06-2	2,4,6-Trichlorophenol	<0.005	0.005
99-35-4	1,3,5-Trinitrobenzene	<0.02	0.02
70-30-4	Hexachlorophene	<100	100

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ANALYTICAL REPORT

Client:	**EQ-Environmental Quality Company**	Sampled:	07/20/04 @ 00:00
Project:	Arkona Road Leachate	Sampler:	T. Zick
		Received:	07/21/04 @ 08:45
		Prepared:	07/26/04 by PAK
Submittal #:	**36650-1**	Prep. Method:	USEPA-3510C
Submittal:	July 20, 2004 Samples	Analyzed:	08/01/04 by JMK1
		Anal. Method:	USEPA-8270C
Sample ID:	**Leachate 1A-J**	QC Batch:	97606 -126
Sample #:	**365721**	Anal. Batch:	219374
Matrix:	Leachate	Percent Solids:	n/a
Unit:	mg/L	Dilution Factor:	1

CAS Number	Organophosphorus Pesticides by USEPA-8270	Analytical Result	Reporting Limit
60-51-5	Dimethoate	<0.02	0.02
298-04-4	Disulfoton	<0.02	0.02
52-85-7	Famphur	<0.02	0.02
298-00-0	Methyl Parathion	<0.02	0.02
56-38-2	Parathion	<0.02	0.02
126-68-1	o-o-o-Triethyl-phosphorothioate	<0.02	0.02
297-97-2	Thionazin	<0.02	0.02
298-02-2	Phorate	<0.02	0.02
3689-24-5	Sulfotepp	<0.02	0.02

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ANALYTICAL REPORT

Client:	**EQ-Environmental Quality Company**	Sampled:	07/20/04 @ 00:00
Project:	Arkona Road Leachate	Sampler:	T. Zick
		Received:	07/21/04 @ 08:45
		Prepared:	07/23/04 by MBS
Submittal #:	**36650-1**	Prep. Method:	USEPA-3510C
Submittal:	July 20, 2004 Samples	Analyzed:	07/29/04 by JLRM
		Anal. Method:	USEPA-8082
Sample ID:	**Leachate 1A-J**	QC Batch:	97495 -123
Sample #:	**365721**	Anal. Batch:	219327
Matrix:	Leachate	Percent Solids:	n/a
Unit:	mg/L	Dilution Factor:	1

CAS Number	PCB Scan USEPA Method 8082	Analytical Result	Reporting Limit
12674-11-2	PCB-1016	<0.0002	0.0002
11104-28-2	PCB-1221	<0.0002	0.0002
11141-16-5	PCB-1232	<0.0002	0.0002
53469-21-9	PCB-1242	<0.0002	0.0002
12672-29-6	PCB-1248	<0.0002	0.0002
11097-69-1	PCB-1254	<0.0002	0.0002
11096-82-5	PCB-1260	<0.0002	0.0002

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ANALYTICAL REPORT

Client:	**EQ-Environmental Quality Company**	Sampled:	07/20/04 @ 00:00
Project:	Arkona Road Leachate	Sampler:	T. Zick
		Received:	07/21/04 @ 08:45
		Prepared:	07/23/04 by MBS
Submittal #:	**36650-1**	Prep. Method:	USEPA-3510C
Submittal:	July 20, 2004 Samples	Analyzed:	08/06/04 by MSN
		Anal. Method:	USEPA-8081A
Sample ID:	**Leachate 1A-J**	QC Batch:	97565 -123
Sample #:	**365721**	Anal. Batch:	219808
Matrix:	Leachate	Percent Solids:	n/a
Unit:	mg/L	Dilution Factor:	1

CAS Number	Appendix IX Pesticides USEPA 8081	Analytical Result	Reporting Limit
309-00-2	Aldrin	<0.001	0.001
319-84-6	Alpha-BHC	<0.001	0.001
319-85-7	Beta-BHC	<0.001	0.001
58-89-9	Lindane	<0.001	0.001
319-86-8	Delta-BHC	<0.001	0.001
5103-71-9	A-Chlordane	<0.001	0.001
5103-74-2	G-Chlordane	<0.001	0.001
510-15-6	Chlorobenzilate	<0.01	0.01
50-29-3	4,4'-DDT	<0.001	0.001
72-55-9	4,4'-DDE	<0.001	0.001
72-54-8	4,4'-DDD	<0.001	0.001
2303-16-4	Diallate	<0.05	0.05
60-57-1	Dieldrin	<0.001	0.001
959-98-8	Endosulfan I	<0.001	0.001
33213-65-9	Endosulfan II	<0.001	0.001
1031-07-8	Endosulfan Sulfate	<0.001	0.001
72-20-8	Endrin	<0.001	0.001
7421-93-4	Endrin Aldehyde	<0.001	0.001
76-44-8	Heptachlor	<0.001	0.001
1024-57-3	Heptachlor Epoxide	<0.001	0.001
465-73-6	Isodrin	<0.005	0.005
143-50-0	Kepone	<0.005	0.005
72-43-5	Methoxychlor	<0.001	0.001
8001-35-2	Toxaphene	<0.001	0.001

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ANALYTICAL REPORT

Client:	**EQ-Environmental Quality Company**	Sampled:	07/20/04 @ 00:00
Project:	Arkona Road Leachate	Sampler:	T. Zick
		Received:	07/21/04 @ 08:45
		Prepared:	07/26/04 by JEO
Submittal #:	**36650-1**	Prep. Method:	USEPA-8151A
Submittal:	July 20, 2004 Samples	Analyzed:	08/06/04 by MSN
		Anal. Method:	USEPA-8151A
Sample ID:	**Leachate 1A-J**	QC Batch:	97985 -126
Sample #:	**365721**	Anal. Batch:	219805
Matrix:	Leachate	Percent Solids:	n/a
Unit:	mg/L	Dilution Factor:	4.8

CAS Number	Appendix IX Herbicides USEPA 8151	Analytical Result	Reporting Limit
94-75-7	2,4-D	<0.005	0.005
93-76-5	2,4,5-T	<0.005	0.005
93-72-1	2,4,5-TP (Silvex)	<0.005	0.005
88-85-7	Dinoseb	<0.005	0.005

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ANALYTICAL REPORT

Client:	**EQ-Environmental Quality Company**	Sampled:	07/20/04 @ 00:00
Project:	Arkona Road Leachate	Sampler:	T. Zick
		Received:	07/21/04 @ 08:45
		Prepared:	n/a
Submittal #:	**36650-1**	Prep. Method:	n/a
Submittal:	July 20, 2004 Samples	Analyzed:	08/02/04 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	**Leachate 1A-J**	QC Batch:	97676 -102
Sample #:	**365721**	Anal. Batch:	219469
Matrix:	Leachate	Percent Solids:	n/a
Unit:	mg/L	Dilution Factor:	50

CAS Number	Volatile Organics-8260B Appendix IX List	Analytical Result	Reporting Limit
67-64-1	Acetone	<2.5	2.5
75-05-8	Acetonitrile	<0.1	0.1
107-02-8	Acrolein	<0.25	0.25
107-13-1	Acrylonitrile	<0.05	0.05
107-05-1	Allyl Chloride	<0.1	0.1
71-43-2	Benzene	<0.05	0.05
75-27-4	Dichlorobromomethane	<0.05	0.05
75-25-2	Bromoform	<0.05	0.05
74-83-9	Bromomethane	<0.05	0.05
78-93-3	**2-Butanone**	**5.4**	2.5
75-15-0	Carbon Disulfide	<0.25	0.25
56-23-5	Carbon Tetrachloride	<0.05	0.05
108-90-7	**Chlorobenzene**	**0.066**	0.05
75-00-3	Chloroethane	<0.05	0.05
67-66-3	Chloroform	<0.05	0.05
74-87-3	Chloromethane	<0.05	0.05
126-99-8	2-Chloro-1,3-butadiene	<0.5	0.5
124-48-1	Chlorodibromomethane	<0.05	0.05
96-12-8	1,2-Dibromo-3-chloropropane	<0.05	0.05
106-93-4	1,2-Dibromoethane	<0.1	0.1
74-95-3	Dibromomethane	<0.05	0.05
110-57-6	trans-1,4-Dichloro-2-butene	<0.25	0.25
75-71-8	Dichlorodifluoromethane	<0.05	0.05
75-34-3	**1,1-Dichloroethane**	**0.12**	0.05
107-06-2	1,2-Dichloroethane	<0.05	0.05
75-35-4	1,1-Dichloroethylene	<0.05	0.05
540-59-0	1,2-Dichloroethylene-(total)	<0.1	0.1
78-87-5	1,2-Dichloropropane	<0.05	0.05
10061-01-5	cis-1,3-Dichloropropene	<0.05	0.05
10061-02-6	trans-1,3-Dichloropropene	<0.05	0.05

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ANALYTICAL REPORT

Client:	**EQ-Environmental Quality Company**	Sampled:	07/20/04 @ 00:00
Project:	Arkona Road Leachate	Sampler:	T. Zick
		Received:	07/21/04 @ 08:45
		Prepared:	n/a
Submittal #:	**36650-1**	Prep. Method:	n/a
Submittal:	July 20, 2004 Samples	Analyzed:	08/02/04 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	**Leachate 1A-J**	QC Batch:	97676 -102
Sample #:	**365721**	Anal. Batch:	219469
Matrix:	Leachate	Percent Solids:	n/a
Unit:	mg/L	Dilution Factor:	50

CAS Number	Volatile Organics-8260B Appendix IX List	Analytical Result	Reporting Limit
123-91-1	**1,4-Dioxane**	**3.6**	3
100-41-4	Ethylbenzene	<0.05	0.05
74-88-4	Iodomethane	<0.5	0.5
78-83-1	Isobutanol	<5	5
591-78-6	2-Hexanone	<2.5	2.5
126-98-7	Methacrylonitrile	<0.5	0.5
75-09-2	Methylene Chloride	<0.25	0.25
108-10-1	4-Methyl-2-Pentanone	<2.5	2.5
107-12-0	Propionitrile	<0.5	0.5
100-42-5	Styrene	<0.05	0.05
630-20-6	1,1,1,2-Tetrachloroethane	<0.05	0.05
79-34-5	1,1,2,2-Tetrachloroethane	<0.05	0.05
127-18-4	Tetrachloroethene	<0.05	0.05
71-55-6	1,1,1-Trichloroethane	<0.05	0.05
79-00-5	1,1,2-Trichloroethane	<0.05	0.05
79-01-6	Trichloroethene	<0.05	0.05
75-69-4	Trichlorofluoromethane	<0.05	0.05
96-18-4	1,2,3-Trichloropropane	<0.05	0.05
108-88-3	**Toluene**	**1.1**	0.05
108-05-4	Vinyl Acetate	<0.5	0.5
75-01-4	**Vinyl Chloride**	**0.1**	0.05
1330-20-7	**Xylene (Total)**	**0.18**	0.15

End of Analytical Report

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36650- 1

QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219155	DSC	2500	2324	93	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<100

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	1250	1332	107	86-128

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<200

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219155	DSC	2500	2414	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<200

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	1250	1275	102	89-122

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219155	DSC	500	484	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	250	265	106	88-120

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219155	DSC	50	48.1	96	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	25	26.1	104	87-117

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219155	DSC	500	472	94	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	250	258	103	85-119

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219155	DSC	500	486	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	250	270	108	90-115

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219155	DSC	500	472	94	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	250	252	101	84-117

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP
Units: ug/L

EPA-200.7/6010B WATER

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219155	DSC	500	485	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	250	262	105	86-117

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QUALITY CONTROL REPORT

Parameter: **Cyanide, Total**
Method: Colorimetric, Automated W/Distillation USEPA-335.4 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219153	JLB	<0.005

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219153	JLB	0.10	0.097	97	90-110
07/27/04	219153	JLB	0.05	0.048	96	90-110

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97445	JLB	0.04	0.043	108	90-110

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219155	DSC	500	494	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	250	258	103	84-122

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QUALITY CONTROL REPORT

Parameter: **Mercury, Total**
Method: Cold Vapor, Mercury USEPA-7470A WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/28/04	219259	MSG	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/28/04	219259	MSG	3.0	2.82	94	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/28/04	97603	MSG	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/28/04	97603	MSG	2.0	1.86	93	85-115

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219155	DSC	500	494	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	250	259	104	87-114

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<100
07/28/04	219177	KLVM	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/28/04	219177	KLVM	2500	2427	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<100

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	1250	1318	105	86-120

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219155	DSC	500	478	96	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	250	244	98	86-114

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QUALITY CONTROL REPORT

Parameter: **Sulfide**
Method: Titrimetric, Iodine 376.1/4500 S2-F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219225	JMJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219225	JMJ	15.2	15.6	103	97-103

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QUALITY CONTROL REPORT

Parameter: **Thallium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219155	DSC	2500	2460	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<100

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	1250	1306	104	67-131

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QUALITY CONTROL REPORT

Parameter: **Tin, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/28/04	219177	KLVM	<1000

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/28/04	219177	KLVM	2500	2407	96	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/28/04	97469	KLVM	<1000

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/28/04	97469	KLVM	1250	1169	94	75-127

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36650- 1

QUALITY CONTROL REPORT

Parameter: **Vanadium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219155	DSC	500	488	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<100

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	250	264	106	87-119

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36650- 1

QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP
Units: ug/L

EPA-200.7/6010B WATER

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/27/04	219155	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	219155	DSC	500	492	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/27/04	97469	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/27/04	97469	DSC	250	266	106	85-121

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36650- 1

QUALITY CONTROL REPORT

INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
Analytical Batch: 219374

Test Date: 08/01/04

Parameter	Blank Concentration	Quantitation Limit
Acenaphthene	ND	5.0
Acenaphthylene	ND	5.0
Acetophenone	ND	10
2-Acetylaminofluorene	ND	50
4-Aminobiphenyl	ND	10
Aniline	ND	5.0
Anthracene	ND	5.0
Aramite	ND	50
Benzo (a) Anthracene	ND	5.0
Benzo (a) Pyrene	ND	5.0
Benzo (b) Fluoranthene	ND	5.0
Benzo (k) Fluoranthene	ND	5.0
Benzo (g,h,i,) Perylene	ND	5.0
Benzyl Alcohol	ND	50
4-Bromophenyl Phenylether	ND	5.0
Butyl Benzyl Phthalate	ND	5.0
2-sec-Butyl-4,6-dinitro-phenol	ND	5.0
4-Chloroaniline	ND	20
Bis (2-Chloroethoxy)-Methane	ND	5.0
Bis (2-Chloroethyl) Ether	ND	5.0
Bis (2-Chloroisopropyl)-Ether	ND	5.0
4-Chloro-3-Methylphenol	ND	5.0
2-Chloronaphthalene	ND	5.0
2-Chlorophenol	ND	5.0
4-Chlorophenylphenyl-Ether	ND	5.0
Chrysene	ND	5.0
Di-n-Butylphthalate	ND	5.0
Di-n-Octylphthalate	ND	5.0
Dibenzo (a,h) Anthracene	ND	5.0
Dibenzofuran	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0

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36650- 1

QUALITY CONTROL REPORT

INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
Analytical Batch: 219374

Test Date: 08/01/04

Parameter	Blank Concentration	Quantitation Limit
3,3'-Dichlorobenzidine	ND	20
2,4-Dichlorophenol	ND	5.0
2,6-Dichlorophenol	ND	5.0
Diethylphthalate	ND	5.0
p-Dimethylaminoazobenzene	ND	10
7,12-Dimethylbenz(a)anthr acene	ND	10
3,3'-Dimethylbenzidine	ND	50
a,a-Dimethyl-phenethylamine	ND	20
2,4-Dimethylphenol	ND	5.0
Dimethylphthalate	ND	5.0
1,3-Dinitrobenzene	ND	5.0
4,6-Dinitro-2-Methylphenol	ND	20
2,4-Dinitrophenol	ND	20
2,4-Dinitrotoluene	ND	5.0
2,6-Dinitrotoluene	ND	5.0
Diphenylamine	ND	10
Bis (2-ethylhexyl)-Phthalate	ND	5.0
Ethyl Methacrylate	ND	50
Ethyl Methanesulfonate	ND	10
Fluoranthene	ND	5.0
Fluorene	ND	5.0
Hexachlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Hexachlorocyclopentadiene	ND	5.0
Hexachloroethane	ND	5.0
Hexachloropropene	ND	50
Hexachlorophene	ND	100000
Indeno (1,2,3-cd) Pyrene	ND	5.0
Isophorone	ND	5.0
Isosafrole	ND	20
Methapyrilene	ND	10
3-Methylcholanthrene	ND	50
Methyl methanesulfonate	ND	50

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36650- 1

QUALITY CONTROL REPORT

INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
Analytical Batch: 219374

Test Date: 08/01/04

Parameter	Blank Concentration	Quantitation Limit
Methylmethacrylate	ND	50
2-Methylnaphthalene	ND	5.0
2-Methylphenol	ND	5.0
3-Methylphenol	ND	5.0
4-Methylphenol	ND	5.0
Naphthalene	ND	5.0
1,4-Naphthoquinone	ND	1000
1-Naphthylamine	ND	50
2-Naphthylamine	ND	50
2-Nitroaniline	ND	20
3-Nitroaniline	ND	20
4-Nitroaniline	ND	20
Nitrobenzene	ND	5.0
2-Nitrophenol	ND	5.0
4-Nitrophenol	ND	20
4-Nitroquinoline-1-oxide	ND	500
N-Nitroso-di-n-butylamine	ND	20
N-Nitroso-di-ethylamine	ND	5.0
N-Nitroso-di-methylamine	ND	5.0
N-Nitroso-di-Phenylamine	ND	5.0
N-Nitrosodi-n-Propylamine	ND	5.0
N-Nitrosomethylethylamine	ND	5.0
N-Nitrosomorpholine	ND	20
N-Nitrosopiperidine	ND	20
N-Nitrosopyrrolidine	ND	20
5-Nitro-o-toluidine	ND	10
Pentachlorobenzene	ND	5.0
Pentachloroethane	ND	50
Pentachloronitrobenzene	ND	20
Pentachlorophenol	ND	20
Phenacetin	ND	10
Phenanthrene	ND	5.0
Phenol	ND	5.0
1,4-Phenylenediamine	ND	10
2-Picoline	ND	5.0
Pyrene	ND	5.0
Pyridine	ND	10

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QUALITY CONTROL REPORT

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Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Test Date: 08/01/04
Units: ug/L
Analytical Batch: 219374

Parameter	Blank Concentration	Quantitation Limit
Pronamide	ND	10
Safrole	ND	10
1,2,4,5-Tetrachloro-benzene	ND	10
2,3,4,6-Tetrachlorophenol	ND	50
2-Toluidine	ND	10
1,2,4-Trichlorobenzene	ND	5.0
2,4,5-Trichlorophenol	ND	50
2,4,6-Trichlorophenol	ND	5.0
1,3,5-Trinitrobenzene	ND	20

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka Test Date: 08/01/04
Units: ug/L
QC Batch: 97606-126

Parameter	Blank Concentration	Quantitation Limit
Acenaphthene	<5.00	5.0
Acenaphthylene	<5.00	5.0
Acetophenone	<10.0	10
2-Acetylaminofluorene	<50.0	50
4-Aminobiphenyl	<10.0	10
Aniline	<5.00	5.0
Anthracene	<5.00	5.0
Aramite	<50.0	50
Benzo (a) Anthracene	<5.00	5.0
Benzo (a) Pyrene	<5.00	5.0
Benzo (b) Fluoranthene	<5.00	5.0
Benzo (k) Fluoranthene	<5.00	5.0
Benzo (g,h,i,) Perylene	<5.00	5.0
Benzyl Alcohol	<50.0	50
4-Bromophenyl Phenylether	<5.00	5.0
Butyl Benzyl Phthalate	<5.00	5.0
2-sec-Butyl-4,6-dinitro-phenol	<5.00	5.0
4-Chloroaniline	<20.0	20
Bis (2-Chloroethoxy)-Methane	<5.00	5.0
Bis (2-Chloroethyl) Ether	<5.00	5.0
Bis (2-Chloroisopropyl)-Ether	<5.00	5.0
4-Chloro-3-Methylphenol	<5.00	5.0
2-Chloronaphthalene	<5.00	5.0
2-Chlorophenol	<5.00	5.0
4-Chlorophenylphenyl-Ether	<5.00	5.0
Chrysene	<5.00	5.0
Di-n-Butylphthalate	<5.00	5.0
Di-n-Octylphthalate	<5.00	5.0
Dibenzo (a,h) Anthracene	<5.00	5.0
Dibenzofuran	<5.00	5.0
1,2-Dichlorobenzene	<5.00	5.0
1,3-Dichlorobenzene	<5.00	5.0
1,4-Dichlorobenzene	<5.00	5.0

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
QC Batch: 97606-126

Test Date: 08/01/04

Parameter	Blank Concentration	Quantitation Limit
3,3'-Dichlorobenzidine	<20.0	20
2,4-Dichlorophenol	<5.00	5.0
2,6-Dichlorophenol	<5.00	5.0
Diethylphthalate	<5.00	5.0
p-Dimethylaminoazobenzene	<10.0	10
7,12-Dimethylbenz(a)anthr acene	<10.0	10
3,3'-Dimethylbenzidine	<50.0	50
a,a-Dimethyl-phenethylamine	<20.0	20
2,4-Dimethylphenol	<5.00	5.0
Dimethylphthalate	<5.00	5.0
1,3-Dinitrobenzene	<5.00	5.0
4,6-Dinitro-2-Methylphenol	<20.0	20
2,4-Dinitrophenol	<20.0	20
2,4-Dinitrotoluene	<5.00	5.0
2,6-Dinitrotoluene	<5.00	5.0
Diphenylamine	<10.0	10
Bis (2-ethylhexyl)-Phthalate	<5.00	5.0
Ethyl Methacrylate	<50.0	50
Ethyl Methanesulfonate	<10.0	10
Fluoranthene	<5.00	5.0
Fluorene	<5.00	5.0
Hexachlorobenzene	<5.00	5.0
Hexachlorobutadiene	<5.00	5.0
Hexachlorocyclopentadiene	<5.00	5.0
Hexachloroethane	<5.00	5.0
Hexachloropropene	<50.0	50
Hexachlorophene	<100000	100000
Indeno (1,2,3-cd) Pyrene	<5.00	5.0
Isophorone	<5.00	5.0
Isosafrole	<20.0	20
Methapyrilene	<10.0	10
3-Methylcholanthrene	<50.0	50
Methyl methanesulfonate	<50.0	50

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
QC Batch: 97606-126

Test Date: 08/01/04

Parameter	Blank Concentration	Quantitation Limit
Methylmethacrylate	<50.0	50
2-Methylnaphthalene	<5.00	5.0
2-Methylphenol	<5.00	5.0
3-Methylphenol	<5.00	5.0
4-Methylphenol	<5.00	5.0
Naphthalene	<5.00	5.0
1,4-Naphthoquinone	<1000	1000
1-Naphthylamine	<50.0	50
2-Naphthylamine	<50.0	50
2-Nitroaniline	<20.0	20
3-Nitroaniline	<20.0	20
4-Nitroaniline	<20.0	20
Nitrobenzene	<5.00	5.0
2-Nitrophenol	<5.00	5.0
4-Nitrophenol	<20.0	20
4-Nitroquinoline-1-oxide	<500	500
N-Nitroso-di-n-butylamine	<20.0	20
N-Nitroso-di-ethylamine	<5.00	5.0
N-Nitroso-di-methylamine	<5.00	5.0
N-Nitroso-di-Phenylamine	<5.00	5.0
N-Nitrosodi-n-Propylamine	<5.00	5.0
N-Nitrosomethylethylamine	<5.00	5.0
N-Nitrosomorpholine	<20.0	20
N-Nitrosopiperidine	<20.0	20
N-Nitrosopyrrolidine	<20.0	20
5-Nitro-o-toluidine	<10.0	10
Pentachlorobenzene	<5.00	5.0
Pentachloroethane	<50.0	50
Pentachloronitrobenzene	<20.0	20
Pentachlorophenol	<20.0	20
Phenacetin	<10.0	10
Phenanthrene	<5.00	5.0
Phenol	<5.00	5.0
1,4-Phenylenediamine	<10.0	10
2-Picoline	<5.00	5.0
Pyrene	<5.00	5.0
Pyridine	<10.0	10

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Test Date: 08/01/04
Units: ug/L
QC Batch: 97606-126

Parameter	Blank Concentration	Quantitation Limit
Pronamide	<10.0	10
Safrole	<10.0	10
1,2,4,5-Tetrachloro-benzene	<10.0	10
2,3,4,6-Tetrachlorophenol	<50.0	50
2-Toluidine	<10.0	10
1,2,4-Trichlorobenzene	<5.00	5.0
2,4,5-Trichlorophenol	<50.0	50
2,4,6-Trichlorophenol	<5.00	5.0
1,3,5-Trinitrobenzene	<20.0	20

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QUALITY CONTROL REPORT

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Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
QC Batch: 97606-126

Test Date: 08/01/04

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Acenaphthene	10	9.61	96	39 - 109
4-Chloro-3-Methylphenol	20	15.0	75	42 - 121
2-Chlorophenol	20	13.0	65	40 - 122
1,4-Dichlorobenzene	10	8.91	89	36 - 103
2,4-Dinitrotoluene	10	8.42	84	42 - 119
Naphthalene	10	9.23	92	49 - 116
4-Nitrophenol	20	8.58	43	11 - 68
N-Nitrosodi-n-Propylamine	10	7.56	76	45 - 124
Pentachlorophenol	20	11.1	56	39 - 112
Phenol	20	6.22	31	19 - 55
Pyrene	10	11.0	110	46 - 114
1,2,4-Trichlorobenzene	10	9.44	94	42 - 103

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QUALITY CONTROL REPORT

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Fraction: Quality Control Fraction
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod Test Date: 08/05/04
Units: ug/L
Analytical Batch: 219808

Parameter	Blank Concentration	Quantitation Limit
Aldrin	ND	1.0
Alpha-BHC	ND	1.0
Beta-BHC	ND	1.0
Lindane	ND	1.0
Delta-BHC	ND	1.0
A-Chlordane	ND	1.0
G-Chlordane	ND	1.0
4,4'-DDT	ND	1.0
4,4'-DDE	ND	1.0
4,4'-DDD	ND	1.0
Dieldrin	ND	1.0
Endosulfan I	ND	1.0
Endosulfan II	ND	1.0
Endosulfan Sulfate	ND	1.0
Endrin	ND	1.0
Endrin Aldehyde	ND	1.0
Heptachlor	ND	1.0
Heptachlor Epoxide	ND	1.0
Methoxychlor	ND	1.0
Toxaphene	ND	1.0

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod
Test Date: 07/27/04
Units: ug/L
QC Batch: 97565-123

Parameter	Blank Concentration	Quantitation Limit
Aldrin	<1.00	1.0
Alpha-BHC	<1.00	1.0
Beta-BHC	<1.00	1.0
Lindane	<1.00	1.0
Delta-BHC	<1.00	1.0
A-Chlordane	<1.00	1.0
G-Chlordane	<1.00	1.0
Chlorobenzilate	<10.0	10
4,4'-DDT	<1.00	1.0
4,4'-DDE	<1.00	1.0
4,4'-DDD	<1.00	1.0
Diallate	<50.0	50
Dieldrin	<1.00	1.0
Endosulfan I	<1.00	1.0
Endosulfan II	<1.00	1.0
Endosulfan Sulfate	<1.00	1.0
Endrin	<1.00	1.0
Endrin Aldehyde	<1.00	1.0
Heptachlor	<1.00	1.0
Heptachlor Epoxide	<1.00	1.0
Isodrin	<5.00	5.0
Kepone	<5.00	5.0
Methoxychlor	<1.00	1.0
Toxaphene	<1.00	1.0

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QUALITY CONTROL REPORT

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Fraction: Quality Control Fraction
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod Test Date: 07/27/04
Units: ug/L
QC Batch: 97565-123

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Aldrin	0.0800	0.0726	91	44 - 130
Alpha-BHC	0.0800	0.0698	87	38 - 136
Beta-BHC	0.0800	0.105	**131**	52 - 125
Lindane	0.0800	0.0722	90	62 - 121
Delta-BHC	0.0800	0.124	**155**	54 - 144
A-Chlordane	0.0800	0.0616	77	58 - 108
G-Chlordane	0.0800	0.0783	98	58 - 108
4,4'-DDT	0.0800	0.0923	115	47 - 140
4,4'-DDE	0.0800	0.0848	106	41 - 133
4,4'-DDD	0.0800	0.0977	122	56 - 139
Dieldrin	0.0800	0.0765	96	58 - 135
Endosulfan I	0.0800	0.0682	85	35 - 116
Endosulfan II	0.0800	0.0793	99	46 - 134
Endosulfan Sulfate	0.0800	0.0984	123	56 - 132
Endrin	0.0800	0.0803	100	42 - 164
Endrin Aldehyde	0.0800	0.0978	122	45 - 131
Heptachlor	0.0800	0.0653	82	48 - 136
Heptachlor Epoxide	0.0800	0.0741	93	51 - 121
Methoxychlor	0.0800	0.107	**134**	73 - 129

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QUALITY CONTROL REPORT

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Fraction: QC ORGANOPHOS PEST'S 8270
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka Test Date: 08/01/04
Units: ug/L
Analytical Batch: 219374

Parameter	Blank Concentration	Quantitation Limit
Dimethoate	ND	20
Disulfoton	ND	20
Famphur	ND	20
Methyl Parathion	ND	20
Parathion	ND	20
o-o-o-Triethyl-phosphorothioate	ND	20
Thionazin	ND	20
Phorate	ND	20
Sulfotepp	ND	20

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: QC ORGANOPHOS PEST'S 8270
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka Test Date: 08/01/04
Units: ug/L
QC Batch: 97606-126

Parameter	Blank Concentration	Quantitation Limit
Dimethoate	<20.0	20
Disulfoton	<20.0	20
Famphur	<20.0	20
Methyl Parathion	<20.0	20
Parathion	<20.0	20
o-o-o-Triethyl-phosphorothioate	<20.0	20
Thionazin	<20.0	20
Phorate	<20.0	20
Sulfotepp	<20.0	20

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QUALITY CONTROL REPORT

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Fraction: Quality Control Fraction
Method: Polychlorinated Biphenyls by GC
Analyst: Jenny L. Reiffer Test Date: 07/29/04
Units: ug/L
Analytical Batch: 219327

Parameter	Blank Concentration	Quantitation Limit
PCB-1016	ND	0.10
PCB-1221	ND	0.10
PCB-1232	ND	0.10
PCB-1242	ND	0.10
PCB-1248	ND	0.10
PCB-1254	ND	0.10
PCB-1260	ND	0.10

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Polychlorinated Biphenyls by GC
Analyst: Jenny L. Reiffer
Units: ug/L
QC Batch: 97495-123

Test Date: 07/23/04

Parameter	Blank Concentration	Quantitation Limit
PCB-1016	<0.100	0.10
PCB-1221	<0.100	0.10
PCB-1232	<0.100	0.10
PCB-1242	<0.100	0.10
PCB-1248	<0.100	0.10
PCB-1254	<0.100	0.10
PCB-1260	<0.100	0.10

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
QC Batch: 97606-126

Test Date: 07/27/04

Parameter	Blank Concentration	Quantitation Limit
1,2,4-Trichlorobenzene	<2.00	2.0
1,2-Dichlorobenzene	<1.00	1.0
1,3-Dichlorobenzene	<1.00	1.0
1,4-Dichlorobenzene	<1.00	1.0
2,4-Dinitrotoluene	<5.00	5.0
2,6-Dinitrotoluene	<5.00	5.0
2-Chloronaphthalene	<2.00	2.0
2-Methylnaphthalene	<5.00	5.0
2-Nitroaniline	<20.0	20
3-Nitroaniline	<20.0	20
4-Bromophenyl Phenylether	<2.00	2.0
4-Chlorophenylphenyl-Ether	<1.00	1.0
4-Nitroaniline	<20.0	20
Acenaphthene	<1.00	1.0
Acenaphthylene	<1.00	1.0
Anthracene	<1.00	1.0
Benzo (a) Anthracene	<1.00	1.0
Benzo (a) Pyrene	<2.00	2.0
Benzo (b) Fluoranthene	<2.00	2.0
Benzo (g,h,i,) Perylene	<2.00	2.0
Benzo (k) Fluoranthene	<2.00	2.0
Bis (2-Chloroethoxy)-Methane	<2.00	2.0
Bis (2-Chloroethyl) Ether	<1.00	1.0
Bis (2-Chloroisopropyl)-Ether	<1.00	1.0
Bis (2-ethylhexyl)-Phthalate	<2.00	2.0
Butyl Benzyl Phthalate	<1.00	1.0
Chrysene	<1.00	1.0
Dibenzo (a,h) Anthracene	<2.00	2.0
Dibenzofuran	<5.00	5.0
Diethylphthalate	**0.180**	1.0
Dimethylphthalate	<2.00	2.0
Di-n-Butylphthalate	<1.00	1.0
Di-n-Octylphthalate	<2.00	2.0

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
QC Batch: 97606-126

Test Date: 07/27/04

Parameter	Blank Concentration	Quantitation Limit
Fluoranthene	<1.00	1.0
Fluorene	<1.00	1.0
Hexachlorobenzene	<2.00	2.0
Hexachlorobutadiene	<2.00	2.0
Hexachlorocyclopentadiene	<5.00	5.0
Hexachloroethane	<1.00	1.0
Indeno (1,2,3-cd) Pyrene	<2.00	2.0
Isophorone	<1.00	1.0
Naphthalene	<1.00	1.0
Nitrobenzene	<2.00	2.0
N-Nitroso-di-methylamine	<5.00	5.0
N-Nitrosodi-n-Propylamine	<2.00	2.0
N-Nitroso-di-Phenylamine	<2.00	2.0
Phenanthrene	<1.00	1.0
Pyrene	<1.00	1.0

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QUALITY CONTROL REPORT

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Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Units: ug/L
QC Batch: 97606-126

Test Date: 07/27/04

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
1,2,4-Trichlorobenzene	10	9.44	94	42 - 103
1,4-Dichlorobenzene	10	8.91	89	36 - 103
2,4-Dinitrotoluene	10	8.42	84	42 - 119
Acenaphthene	10	9.61	96	39 - 109
Naphthalene	10	9.23	92	49 - 116
N-Nitrosodi-n-Propylamine	10	7.56	76	45 - 124
Pyrene	10	11.0	110	46 - 114

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Semi-Volatiles GC/MS
Analyst: Janet M. Kudirka
Test Date: 07/27/04
Units: ug/L
QC Batch: 97606-126

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
1,2,4-Trichlorobenzene	10	7.27	73	42 - 103
1,4-Dichlorobenzene	10	6.98	70	36 - 103
2,4-Dinitrotoluene	10	7.42	74	42 - 119
Acenaphthene	10	8.01	80	39 - 109
Naphthalene	10	7.26	73	49 - 116
N-Nitrosodi-n-Propylamine	10	6.02	60	45 - 124
Pyrene	10	9.47	95	46 - 114

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QUALITY CONTROL REPORT

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Fraction: QC SEMI-VOL'S HERB 8151
Method: Chlorinated Herbicides by GC-ECD
Analyst: Mark S. Norrod Test Date: 08/06/04
Units: ug/L
Analytical Batch: 219805

Parameter	Blank Concentration	Quantitation Limit
2,4-D	ND	5.0
2,4,5-T	ND	5.0
Dinoseb	ND	0.50
2,4,5-TP (Silvex)	ND	5.0

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: QC SEMI-VOL'S HERB 8151
Method: Chlorinated Herbicides by GC-ECD
Analyst: Mark S. Norrod
Test Date: 08/06/04
Units: ug/L
QC Batch: 97985-126

Parameter	Blank Concentration	Quantitation Limit
2,4-D	<5.00	5.0
2,4,5-T	<5.00	5.0
Dinoseb	<0.500	0.50
2,4,5-TP (Silvex)	<5.00	5.0

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: QC SEMI-VOL'S HERB 8151
Method: Chlorinated Herbicides by GC-ECD
Analyst: Mark S. Norrod Test Date: 08/06/04
Units: ug/L
QC Batch: 97985-126

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
2,4-D	2.5	2.72	109	23 - 151
2,4,5-T	0.25	0.320	**128**	41 - 118
Dinoseb	1.25	0.693	55	10 - 75
2,4,5-TP (Silvex)	0.25	0.278	111	22 - 135

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: QC SEMI-VOL'S HERB 8151
Method: Chlorinated Herbicides by GC-ECD
Analyst: Mark S. Norrod Test Date: 08/06/04
Units: ug/L
QC Batch: 97985-126

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
2,4-D	2.5	2.73	109	23 - 151
2,4,5-T	0.25	0.329	**132**	41 - 118
Dinoseb	1.25	0.208	17	10 - 75
2,4,5-TP (Silvex)	0.25	0.288	115	22 - 135

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QUALITY CONTROL REPORT

INSTRUMENT BLANK

Fraction: Quality Control Fraction
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod Test Date: 08/05/04
Units: ug/L
Analytical Batch: 219808

Parameter	Blank Concentration	Quantitation Limit
Aldrin	ND	0.050
Dieldrin	ND	0.050
4,4'-DDT	ND	0.050
4,4'-DDE	ND	0.050
4,4'-DDD	ND	0.050
Endosulfan I	ND	0.050
Endosulfan II	ND	0.050
Endosulfan Sulfate	ND	0.050
Endrin	ND	0.050
Endrin Aldehyde	ND	0.050
Heptachlor	ND	0.050
Heptachlor Epoxide	ND	0.050
Alpha-BHC	ND	0.050
Beta-BHC	ND	0.050
Lindane	ND	0.050
Delta-BHC	ND	0.050
Toxaphene	ND	0.10

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36650- 1

QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale
Test Date: 08/02/04
Units: ug/L
QC Batch: 97676-102

Parameter	Blank Concentration	Quantitation Limit
Dichlorodifluoromethane	<1.00	1.0
Chloromethane	<1.00	1.0
Vinyl Chloride	<1.00	1.0
Bromomethane	<1.00	1.0
Chloroethane	<1.00	1.0
Trichlorofluoromethane	<1.00	1.0
Acrolein	<5.00	5.0
1,1-Dichloroethylene	<1.00	1.0
Iodomethane	<1.00	1.0
Carbon Disulfide	<5.00	5.0
Acetone	<25.0	25
Allyl Chloride	<10.0	10
Methylene Chloride	<5.00	5.0
Acrylonitrile	<1.00	1.0
1,1-Dichloroethane	<1.00	1.0
Vinyl Acetate	<1.00	1.0
1,2-Dichloroethylene-(total)	<2.00	2.0
2-Butanone	<5.00	5.0
Chloroform	<1.00	1.0
1,1,1-Trichloroethane	<1.00	1.0
Carbon Tetrachloride	<1.00	1.0
Benzene	<1.00	1.0
1,2-Dichloroethane	<1.00	1.0
Trichloroethene	<1.00	1.0
1,2-Dichloropropane	<1.00	1.0
Dibromomethane	<1.00	1.0
Dichlorobromomethane	<1.00	1.0
cis-1,3-Dichloropropene	<1.00	1.0
4-Methyl-2-Pentanone	<5.00	5.0
Toluene	<1.00	1.0
trans-1,3-Dichloropropene	<1.00	1.0
1,1,2-Trichloroethane	<1.00	1.0
Tetrachloroethene	<1.00	1.0
2-Hexanone	<5.00	5.0
Chlorodibromomethane	<1.00	1.0
1,2-Dibromoethane	<1.00	1.0

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36650- 1

QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 08/02/04
Units: ug/L
QC Batch: 97676-102

Parameter	Blank Concentration	Quantitation Limit
Chlorobenzene	<1.00	1.0
1,1,1,2-Tetrachloroethane	<1.00	1.0
Ethylbenzene	<1.00	1.0
Xylene (Total)	<3.00	3.0
Styrene	<1.00	1.0
Bromoform	<1.00	1.0
1,1,2,2-Tetrachloroethane	<1.00	1.0
1,2,3-Trichloropropane	<1.00	1.0
1,2-Dibromo-3-chloropropane	<1.00	1.0
Acetonitrile	<10.0	10
Propionitrile	<50.0	50
Methacrylonitrile	<50.0	50
Isobutanol	<500	500
1,4-Dioxane	<300	300
trans-1,4-Dichloro-2-butene	<5.00	5.0
2-Chloro-1,3-butadiene	<50.0	50

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Volatile Organics USEPA-8260B Scan
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 08/02/04
Units: ug/L
QC Batch: 97676-102

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	38.0	95	79 - 120
Chlorobenzene	40.0	40.0	100	79 - 122
1,1-Dichloroethylene	40.0	41.0	103	72 - 126
Toluene	40.0	37.5	94	79 - 126
Trichloroethene	40.0	42.0	105	71 - 127

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QUALITY CONTROL REPORT

INSTRUMENT BLANK

Fraction: Quality Control Fraction USEPA-8081A
Method: Organochlorine Pesticides & PCBs
Analyst: Mark S. Norrod Test Date: 08/05/04
Units: ug/L
Analytical Batch: 219808

Parameter	Blank Concentration	Quantitation Limit
Alpha-BHC	ND	0.010
Beta-BHC	ND	0.010
Lindane	ND	0.010
Delta-BHC	ND	0.010
Heptachlor	ND	0.010
Aldrin	ND	0.010
Heptachlor Epoxide	ND	0.010
G-Chlordane	ND	0.010
A-Chlordane	ND	0.010
Endosulfan I	ND	0.050
4,4'-DDE	ND	0.020
Dieldrin	ND	0.020
Endrin	ND	0.020
Endosulfan II	ND	0.050
4,4'-DDD	ND	0.020
Endrin Aldehyde	ND	0.020
Endosulfan Sulfate	ND	0.050
4,4'-DDT	ND	0.020
Methoxychlor	ND	0.50
Toxaphene	ND	0.17

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QUALITY CONTROL REPORT
SURROGATE RECOVERIES

Method: Volatiles Purge & Trap-GC/MS USEPA-8260B WATER

Surrogate Compound List

SUR-1: Dibromofluoromethane-sur
SUR-2: d4-1,2-Dichloroethane-sur
SUR-3: d8-Toluene-sur
SUR-4: 4-Bromofluorobenzene-sur

% R = Percent Recovery

Compounds:		SUR-1	SUR-2	SUR-3	SUR-4
Control Limits:		79-124	75-128	87-113	70-121
Sample # / ID	Batch	% R	% R	% R	% R
MPB-01	97676-102	101	108	92	94
LFB-01	97676-102	103	109	96	102
365721	97676-102	105	113	101	96

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QUALITY CONTROL REPORT
SURROGATE RECOVERIES

Method: Organochlorine Pesticides & PCBs USEPA-608 WW

Surrogate Compound List

SUR-1: Tetrachloro-m-xylene
SUR-2: Decachlorobiphenyl

% R = Percent Recovery

Compounds:		SUR-1	SUR-2
Control Limits:		24-115	30-108
Sample # / ID	Batch	% R	% R
BLK-01	219808	107	113

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QUALITY CONTROL REPORT
SURROGATE RECOVERIES

Method: Organochlorine Pesticides & PCBs USEPA-8081A WATER

Surrogate Compound List

SUR-1: Tetrachloro-m-xylene
SUR-2: Decachlorobiphenyl

% R = Percent Recovery

Compounds:		SUR-1	SUR-2
Control Limits:		36-123	14-103
Sample # / ID	Batch	% R	% R
BLK-01	219808	107	113
BLK-01	219808	72	84
MPB-01	97565-123	78	64
LFB-01	97565-123	73	35
365721	97565-123	50	23

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QUALITY CONTROL REPORT
SURROGATE RECOVERIES

Method: Semi-Volatiles GC/MS USEPA-8270C WATER

Surrogate Compound List

SUR-1:	2-Fluorobiphenyl	SUR-4:	d6-Phenol
SUR-2:	2-Fluorophenol	SUR-5:	o-Terphenyl
SUR-3:	d5-Nitrobenzene	SUR-6:	2,4,6-Tribromophenol

% R = Percent Recovery

Compounds:		SUR-1	SUR-2	SUR-3	SUR-4	SUR-5	SUR-6
Control Limits:		37-123	16- 69	26-116	11- 49	30-119	26-118
Sample # / ID	Batch	% R	% R	% R	% R	% R	% R
MPB-01	97606-126	87		76		101	
MPB-01	97606-126	87	48	76	35	101	85
LFB-01	97606-126	101		93		111	
LFB-02	97606-126	84		72		96	
LFB-01	97606-126	101	56	93	41	111	94
365721	97606-126	100	45	103	40	106	62

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QUALITY CONTROL REPORT
SURROGATE RECOVERIES

Method: Chlorinated Herbicides by GC-ECD USEPA-8151A WATER

Surrogate Compound List

SUR-1: 2,4-Dichlorophenylacetic

% R = Percent Recovery

Compounds:	SUR-1
Control Limits:	26-135

Sample # / ID	Batch	% R
BLK-01	219805	99
MPB-01	97985-126	130
LFB-01	97985-126	136
LFB-02	97985-126	139
365721	97985-126	103

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QUALITY CONTROL REPORT
SURROGATE RECOVERIES

Method: Polychlorinated Biphenyls by GC USEPA-8082 WATER

Surrogate Compound List

SUR-1: Tetrachloro-meta-xylene
SUR-2: Decachlorobiphenyl

% R = Percent Recovery

Compounds:		SUR-1	SUR-2
Control Limits:		36-114	12-120
Sample # / ID	Batch	% R	% R
BLK-01	219327	79	71

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www.trimatrixlabs.com

Chain of Custody Record

COC No. 101727

Page 1 of 1

For Lab Use Only

Rt 1
DA Rack/Tray 526-R
Receipt Log No. 31-13
Project Chemist JK
Laboratory Project No. 36650-1

Client Name: EQ Arkona Road
Address:
Phone:
Fax:
Project Name: Leachate
Client Project No. / P.O. No.:
Invoice To: EQ ☒ Client ☐ Other (comments)
Contact/Report To: Steve Haton

Analyses Requested

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Sulfide (F)	Cyanide (E)	Metals (App IX) (B)	Purg. org. (D)	Purg. org (A)	Non Purg. org. (A)						Total	Sample Comments
				Container Type (corresponds to Container Packing List)							9	5	6	1p	2								
				Number of Containers Submitted																			
1	WL	365721	1	Leachate 1a	1	7/20	11:40A		✓	ww	1												
			2	Leachate 1b		7/20	11:43		✓			1											
			3	Leachate 1c		7/20	11:47		✓				1										
			4	Leachate 1d		7/20	11:56		✓					2									
			5	Leachate 1e		7/20	12:07		✓						2								
			6	Leachate 1f-J		7/20	12:20		✓							5							
			7																				
			8																				
			9																				
			10																				

Sampled By (print): Terri Zick
Sampler's Signature: [signature]
Company: CTI & Associates

How Shipped? Hand Carrier Fed-X
Tracking No.

Comments: Appendix IX analyses

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
[signature]	7/20/04	2pm						

1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						[signature]	7/21/04	8:45

University LABORATORIES STANDARDIZED TESTING AND RESEARCH
39830 GRAND RIVER AVENUE, NOVI, MI 48375
Telephone (248) 489-8000 FAX (248) 471-9107

Project Name: EQ - Arkona Road Landfill
Project Requested by: EQ Resource Recovery, Inc.
Sample Identification: Arkona Landfill
Sample Matrix: Wastewater
Method of Sampling: Grab
Date/Time Sampled: 02/07/2003 02:00 PM
Sampled by: Caroline Depp
Date/Time Sample Received: 02/07/2003 03:10 PM
Date/Time Data Reported: 02/14/2003 05:10 PM

UL Sample Number: **41925**
UL Project Number: 12124

Parameter	Measured Concentration	Unit	Method of Analysis	Reported Detection Limit	Regulatory Level	Footnote
TCL Volatile Organic Compounds						
Chloromethane	<0.00100	mg/L	8260	0.00100		
Bromomethane	<0.00100	mg/L	8260	0.00100		
Vinyl chloride	0.00174	mg/L	8260	0.00100		
Chloroethane	0.00191	mg/L	8260	0.00100		
Methylene chloride	<0.00200	mg/L	8260	0.00200		
Acetone	<0.0200	mg/L	8260	0.0200		
Carbon disulfide	<0.00100	mg/L	8260	0.00100		
1,1-Dichloroethylene	<0.00100	mg/L	8260	0.00100		
1,1-Dichloroethane	<0.00100	mg/L	8260	0.00100		
1,2-Dichloroethylene (Total)	0.00835	mg/L	8260	0.00200		
Chloroform	<0.00100	mg/L	8260	0.00100		
1,2-Dichloroethane	<0.00100	mg/L	8260	0.00100		
Methyl ethyl ketone (2-Butanone)	<0.0200	mg/L	8260	0.0200		
1,1,1-Trichloroethane	<0.00100	mg/L	8260	0.00100		
Carbon tetrachloride	<0.00100	mg/L	8260	0.00100		
Dichlorobromomethane	<0.00100	mg/L	8260	0.00100		
1,2-Dichloropropane	<0.00100	mg/L	8260	0.00100		
cis-1,3-Dichloropropylene	<0.00100	mg/L	8260	0.00100		
Trichloroethylene	0.00102	mg/L	8260	0.00100		
Dibromochloromethane	<0.00100	mg/L	8260	0.00100		
1,1,2-Trichloroethane	<0.00100	mg/L	8260	0.00100		
Benzene	<0.00100	mg/L	8260	0.00100		
trans-1,3-Dichloropropylene	<0.00100	mg/L	8260	0.00100		
Bromoform	<0.00200	mg/L	8260	0.00200		
4-Methyl-2-pentanone (MIBK)	<0.0500	mg/L	8260	0.0500		
2-Hexanone	<0.0500	mg/L	8260	0.0500		
Tetrachloroethylene	<0.00100	mg/L	8260	0.00100		
Toluene	0.00187	mg/L	8260	0.00100		
1,1,2,2-Tetrachloroethane	<0.00100	mg/L	8260	0.00100		

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Telephone (248) 489-8000 FAX (248) 471-9107

Project Name: EQ - Arkona Road Landfill
Project Requested by: EQ Resource Recovery, Inc.
Sample Identification: Arkona Landfill
Sample Matrix: Wastewater
Method of Sampling: Grab
Date/Time Sampled: 02/07/2003 02:00 PM
Sampled by: Caroline Depp
Date/Time Sample Received: 02/07/2003 03:10 PM
Date/Time Data Reported: 02/14/2003 05:10 PM

UL Sample Number: **41925**
UL Project Number: 12124

Parameter	Measured Concentration	Unit	Method of Analysis	Reported Detection Limit	Regulatory Level	Footnote
Chlorobenzene	<0.00100	mg/L	8260	0.00100		
Ethylbenzene	0.00134	mg/L	8260	0.00100		
Styrene	<0.00100	mg/L	8260	0.00100		
Xylenes	0.0131	mg/L	8260	0.00300		

yst: EK Date/Time Prepared: 02/13/2003 Date/Time Analyzed: 02/13/2003 06:10 PM

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Project Name: EQ - Arkona Road Landfill
Project Requested by: EQ Resource Recovery, Inc.
Sample Identification: Arkona Landfill
Sample Matrix: Wastewater
Method of Sampling: Grab
Date/Time Sampled: 02/07/2003 02:00 PM
Sampled by: Caroline Depp
Date/Time Sample Received: 02/07/2003 03:10 PM
Date/Time Data Reported: 02/14/2003 05:10 PM

UL Sample Number: **41926**
UL Project Number: 12124

Parameter	Measured Concentration	Unit	Method of Analysis	Reported Detection Limit	Regulatory Level	Footnote
Semivolatile Organic Compounds (TCL)						
Semivolatile Organic Compounds (Acids)						
Phenol	<0.00500	mg/L	8270	0.00500		
ethylphenol (o-Cresol)	<0.00500	mg/L	8270	0.00500		
4-Methylphenol	<0.0100	mg/L	8270	0.0100		
2,4,6-Trichlorophenol	<0.00500	mg/L	8270	0.00500		
2,4-Dichlorophenol	<0.0100	mg/L	8270	0.0100		
2,4-Dimethylphenol	<0.00500	mg/L	8270	0.00500		
2,4-Dinitrophenol	<0.0500	mg/L	8270	0.0500		
2-Chlorophenol	<0.00500	mg/L	8270	0.00500		
2-Nitrophenol	<0.00500	mg/L	8270	0.00500		
2-Methyl-4,6-dinitrophenol	<0.0250	mg/L	8270	0.0250		
4-Nitrophenol	<0.0500	mg/L	8270	0.0500		
4-Chloro-3-methylphenol	<0.00500	mg/L	8270	0.00500		
Pentachlorophenol	<0.0500	mg/L	8270	0.0500		

Analyst: EK Date/Time Prepared: 02/10/2003 Date/Time Analyzed: 02/12/2003 02:11 PM

Semivolatile Organic Compounds (Base/Neutral, TCL)						
1,2,4-Trichlorobenzene	<0.00500	mg/L	8270	0.00500		
2,4-Dinitrotoluene	<0.00500	mg/L	8270	0.00500		
2,6-Dinitrotoluene	<0.00500	mg/L	8270	0.00500		
2-Chloronaphthalene	<0.00500	mg/L	8270	0.00500		
3,3'-Dichlorobenzidine	<0.0250	mg/L	8270	0.0250		
4-Bromophenyl phenyl ether	<0.00500	mg/L	8270	0.00500		
Chlorophenyl phenyl ether	<0.00500	mg/L	8270	0.00500		
Acenaphthene	<0.00500	mg/L	8270	0.00500		
Acenaphthylene	<0.00500	mg/L	8270	0.00500		
Anthracene	<0.00500	mg/L	8270	0.00500		

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Project Name: EQ - Arkona Road Landfill
Project Requested by: EQ Resource Recovery, Inc.
Sample Identification: Arkona Landfill
Sample Matrix: Wastewater
Method of Sampling: Grab
Date/Time Sampled: 02/07/2003 02:00 PM
Sampled by: Caroline Depp
Date/Time Sample Received: 02/07/2003 03:10 PM
Date/Time Data Reported: 02/14/2003 05:10 PM

UL Sample Number: **41926**
UL Project Number: 12124

Parameter	Measured Concentration	Unit	Method of Analysis	Reported Detection Limit	Regulatory Level	Footnote
Benzo (a) anthracene	<0.00500	mg/L	8270	0.00500		
Benzo (a) pyrene	<0.00500	mg/L	8270	0.00500		
Benzo (b) fluoranthene	<0.00500	mg/L	8270	0.00500		
Benzo (ghi) perylene	<0.00500	mg/L	8270	0.00500		
zo (k) fluoranthene	<0.00500	mg/L	8270	0.00500		
Bis (2-chloroethoxy) methane	<0.00500	mg/L	8270	0.00500		
Bis (2-chloroethyl) ether	<0.00500	mg/L	8270	0.00500		
Bis (2-chloroisopropyl) ether	<0.00500	mg/L	8270	0.00500		
Bis (2-ethylhexyl) phthalate	0.0139	mg/L	8270	0.00500		
Butyl benzyl phthalate	<0.00500	mg/L	8270	0.00500		
Chrysene	<0.00500	mg/L	8270	0.00500		
Di-n-butyl phthalate	<0.00500	mg/L	8270	0.00500		
Di-n-octyl phthalate	<0.00500	mg/L	8270	0.00500		
Dibenzo (a,h) anthracene	<0.00500	mg/L	8270	0.00500		
Diethyl phthalate	<0.00500	mg/L	8270	0.00500		
Dimethyl phthalate	<0.00500	mg/L	8270	0.00500		
Fluoranthene	<0.00500	mg/L	8270	0.00500		
Fluorene	<0.00500	mg/L	8270	0.00500		
Hexachlorobenzene	<0.00500	mg/L	8270	0.00500		
Hexachloro-1,3-butadiene	<0.00500	mg/L	8270	0.00500		
Hexachlorocyclopentadiene	<0.00500	mg/L	8270	0.00500		
Hexachloroethane	<0.00500	mg/L	8270	0.00500		
Indeno (1,2,3-cd) pyrene	<0.00500	mg/L	8270	0.00500		
Isophorone	<0.00500	mg/L	8270	0.00500		
N-Nitrosodi-n-propylamine	<0.00500	mg/L	8270	0.00500		
N-Nitrosodiphenylamine	<0.00500	mg/L	8270	0.00500		
hthalene	<0.00500	mg/L	8270	0.00500		
Nitrobenzene	<0.00500	mg/L	8270	0.00500		
Phenanthrene	<0.00500	mg/L	8270	0.00500		
Pyrene	<0.00500	mg/L	8270	0.00500		

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Telephone (248) 489-8000 FAX (248) 471-9107

Project Name: EQ - Arkona Road Landfill
Project Requested by: EQ Resource Recovery, Inc.
Sample Identification: Arkona Landfill
Sample Matrix: Wastewater
Method of Sampling: Grab
Date/Time Sampled: 02/07/2003 02:00 PM
Sampled by: Caroline Depp
Date/Time Sample Received: 02/07/2003 03:10 PM
Date/Time Data Reported: 02/14/2003 05:10 PM

UL Sample Number: **41926**
UL Project Number: 12124

Parameter	Measured Concentration	Unit	Method of Analysis	Reported Detection Limit	Regulatory Level	Footnote

Analyst: EK Date/Time Prepared: 02/10/2003 Date/Time Analyzed: 02/12/2003 02:11 PM

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Project Name: EQ - Arkona Road Landfill
Project Requested by: EQ Resource Recovery, Inc.
Sample Identification: Arkona Landfill
Sample Matrix: Wastewater
Method of Sampling: Grab
Date/Time Sampled: 02/07/2003 02:00 PM
Sampled by: Caroline Depp
Date/Time Sample Received: 02/07/2003 03:10 PM
Date/Time Data Reported: 02/14/2003 05:10 PM

UL Sample Number: **41927**
UL Project Number: 12124

Parameter	Measured Concentration	Unit	Method of Analysis	Reported Detection Limit	Regulatory Level	Footnote
Cyanide						
Cyanide (Total)	<0.0500	mg/L	335.2	0.0500		

Analyst: BR Date/Time Prepared: 02/14/2003 10:00 AM Date/Time Analyzed: 02/14/2003 04:00 PM

University LABORATORIES STANDARDIZED TESTING AND RESEARCH
39830 GRAND RIVER AVENUE, NOVI, MI 48375
Telephone (248) 489-8000 FAX (248) 471-9107

Project Name: EQ - Arkona Road Landfill
Project Requested by: EQ Resource Recovery, Inc.
Sample Identification: Arkona Landfill
Sample Matrix: Wastewater
Method of Sampling: Grab
Date/Time Sampled: 02/07/2003 02:00 PM
Sampled by: Caroline Depp
Date/Time Sample Received: 02/07/2003 03:10 PM
Date/Time Data Reported: 02/14/2003 05:10 PM

UL Sample Number: **41928**
UL Project Number: 12124

Parameter	Measured Concentration	Unit	Method of Analysis	Reported Detection Limit	Regulatory Level	Footnote
Total Metals (10)						
Total Mercury						
Mercury	<0.000500	mg/L	7471	0.000500		
Analyst: WJ Date/Time Prepared: 02/12/2002 09:00 AM Date/Time Analyzed: 02/12/2002 03:00 PM						
Total Metals (9)						
Arsenic	<0.200	mg/L	6010B	0.200		
Barium	3.28	mg/L	6010B	0.100		
Cadmium	<0.200	mg/L	6010B	0.200		
Chromium	<0.200	mg/L	6010B	0.200		
Copper	0.976	mg/L	6010B	0.200		
Lead	<0.200	mg/L	6010B	0.200		
Selenium	<0.200	mg/L	6010B	0.200		
Silver	<0.0500	mg/L	6010B	0.0500		
Zinc	5.13	mg/L	6010B	0.200		
Analyst: NW Date/Time Prepared: 02/12/2003 Date/Time Analyzed: 02/14/2003 01:53 PM						

University LABORATORIES STANDARDIZED TESTING AND RESEARCH
39830 GRAND RIVER AVENUE, NOVI, MI 48375
Telephone (248) 489-8000 FAX (248) 471-9107

Project Name: EQ - Arkona Road Landfill
Project Requested by: EQ Resource Recovery, Inc.
Sample Identification: Arkona Landfill
Sample Matrix: Wastewater
Method of Sampling: Grab
Date/Time Sampled: 02/07/2003 02:00 PM
Sampled by: Caroline Depp
Date/Time Sample Received: 02/07/2003 03:10 PM
Date/Time Data Reported: 02/14/2003 05:10 PM

UL Sample Number: **41929**
UL Project Number: 12124

Parameter	Measured Concentration	Unit	Method of Analysis	Reported Detection Limit	Regulatory Level	Footnote
Chlorinated Pesticides						
a-BHC	<0.00100	mg/L	8081b	0.00100		
b-BHC	<0.00100	mg/L	8081b	0.00100		
[illegible]-BHC	<0.00100	mg/L	8081b	0.00100		
[illegible]-BHC	<0.00100	mg/L	8081b	0.00100		
Heptachlor	<0.00100	mg/L	8081b	0.00100		
Aldrin	<0.00100	mg/L	8081b	0.00100		
Heptachlor epoxide	<0.00100	mg/L	8081b	0.00100		
g-Chlordane	<0.00100	mg/L	8081b	0.00100		
a-Chlordane	<0.00100	mg/L	8081b	0.00100		
Endosulfan I	<0.00100	mg/L	8081b	0.00100		
Dieldrin	<0.00100	mg/L	8081b	0.00100		
4,4'-DDE	<0.00100	mg/L	8081b	0.00100		
Endrin	<0.00100	mg/L	8081b	0.00100		
Endosulfan II	<0.00100	mg/L	8081b	0.00100		
4,4'-DDD	<0.00100	mg/L	8081b	0.00100		
Endrin aldehyde	<0.00100	mg/L	8081b	0.00100		
4,4'-DDT	<0.00100	mg/L	8081b	0.00100		
Endosulfan sulfate	<0.00100	mg/L	8081b	0.00100		
Methoxychlor	<0.00250	mg/L	8081b	0.00250		

Analyst: NW Date/Time Prepared: 02/11/2003 Date/Time Analyzed: 02/12/2003 04:03 PM

University LABORATORIES STANDARDIZED TESTING AND RESEARCH
39830 GRAND RIVER AVENUE, NOVI, MI 48375
Telephone (248) 489-8000 FAX (248) 471-9107

Project Name: EQ - Arkona Road Landfill
Project Requested by: EQ Resource Recovery, Inc.
Sample Identification: Arkona Landfill
Sample Matrix: Wastewater
Method of Sampling: Grab
Date/Time Sampled: 02/07/2003 02:00 PM
Sampled by: Caroline Depp
Date/Time Sample Received: 02/07/2003 03:10 PM
Date/Time Data Reported: 02/14/2003 05:10 PM

UL Sample Number: **41929**
UL Project Number: 12124

Parameter	Measured Concentration	Unit	Method of Analysis	Reported Detection Limit	Regulatory Level	Footnote
Herbicides (Chlorinated)						
Dalapon	<0.00500	mg/L	8151A	0.00500		
Dicamba	<0.00250	mg/L	8151A	0.00250		
D[illegible]hloroprop	<0.00500	mg/L	8151A	0.00500		
[illegible]-D	<0.0500	mg/L	8151A	0.0500		
2,4,5-TP Silvex	<0.0500	mg/L	8151A	0.0500		
2,4,5-T	<0.0500	mg/L	8151A	0.0500		
2,4-DB	<0.00500	mg/L	8151A	0.00500		
Dinoseb	<0.0100	mg/L	8151A	0.0100		

Analyst: WJ Date/Time Prepared: 02/11/2003 Date/Time Analyzed: 02/11/2003 09:13 PM

University LABORATORIES STANDARDIZED TESTING AND RESEARCH
39830 GRAND RIVER AVENUE, NOVI, MI 48375
Telephone (248) 489-8000 FAX (248) 471-9107

Project Name: EQ - Arkona Road Landfill
Project Requested by: EQ Resource Recovery, Inc.
Sample Identification: Arkona Landfill
Sample Matrix: Wastewater
Method of Sampling: Grab
Date/Time Sampled: 02/07/2003 02:00 PM
Sampled by: Caroline Depp
Date/Time Sample Received: 02/07/2003 03:10 PM
Date/Time Data Reported: 02/14/2003 05:10 PM

UL Sample Number: **41930**
UL Project Number: 12124

Parameter	Measured Concentration	Unit	Method of Analysis	Reported Detection Limit	Regulatory Level	Footnote
Total PCBs						
PCB 1016	<0.000100	mg/L	8082	0.000100		
PCB 1221	<0.000100	mg/L	8082	0.000100		
PCB 1232	<0.000100	mg/L	8082	0.000100		
PCB 1242	<0.000100	mg/L	8082	0.000100		
PCB 1248	<0.000100	mg/L	8082	0.000100		
PCB 1254	<0.000100	mg/L	8082	0.000100		
PCB 1260	<0.000100	mg/L	8082	0.000100		

Analyst: NW Date/Time Prepared: 02/11/2003 Date/Time Analyzed: 02/12/2003 04:03 PM

University LABORATORIES STANDARDIZED TESTING AND RESEARCH
39830 GRAND RIVER AVENUE, NOVI, MI 48375
Telephone (248) 489-8000 FAX (248) 471-9107

Project Name: EQ - Arkona Road Landfill
Project Requested by: EQ Resource Recovery, Inc.
Sample Identification: Arkona Landfill
Sample Matrix: Wastewater
Method of Sampling: Grab
Date/Time Sampled: 02/07/2003 02:00 PM
Sampled by: Caroline Depp
Date/Time Sample Received: 02/07/2003 03:10 PM
Date/Time Data Reported: 02/14/2003 05:10 PM

UL Sample Number: **41931**
UL Project Number: 12124

Parameter	Measured Concentration	Unit	Method of Analysis	Reported Detection Limit	Regulatory Level	Footnote
Percent Solids	<0.100	%	2540 G	0.100		
Analyst: WJ	Date/Time Prepared: 02/14/2003 09:00 AM	Date/Time Analyzed: 02/14/2003 04:00 PM				
.ctive Sulfide	<0.100	mg/L	7.3	0.100		
Analyst: BR	Date/Time Prepared: 02/13/2003 10:00 AM	Date/Time Analyzed: 02/14/2003 09:00 AM				

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: University Laboratories Project: ul12124

Batch: VOCW544 Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): CW0213-1.D Date Analyzed: 2/13/2003

Instrument ID: _____ Time Analyzed: 9:31

GC Column: _____ ID: _____ (mm) Heated Purge (Y/N): N

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	191493	6.35	383489	7.49	274989	12.29
	UPPER LIMIT	382986	6.85	766978	7.99	549978	12.79
	LOWER LIMIT	95747	5.85	191745	6.99	137495	11.79
	EPA SAMPLE NO.						
01	UL41925	211801	6.37	401745	7.51	285348	12.30
02	UL41925-2	204593	6.38	398561	7.51	266661	12.30

IS1 = Pentafluorobenzene (I)
IS2 = 1,4-Difluorobenzene (I)
IS3 = Chlorobenzene-d5 (I)
IS4 = 1,4-Dichlorobenzene-d4 (

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: University Laboratories Project: ul12124

Batch: VOCW544 Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): CW0213-1.D Date Analyzed: 02/13/03

Instrument ID: _____ Time Analyzed: 09:31

GC Column: _____ ID: _____ (mm) Heated Purge (Y/N): Y

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	117082	16.40				
	UPPER LIMIT	234164	15.90				
	LOWER LIMIT	58541	16.90				
	EPA SAMPLE NO.						
01	UL41925	105724	16.41				
02	UL41925-2	99218	16.41				

IS1 = Pentafluorobenzene (I)
IS2 = 1,4-Difluorobenzene (I)
IS3 = Chlorobenzene-d5 (I)
IS4 = 1,4-Dichlorobenzene-d4 (

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: University Laboratories Project: ul12124

Batch: VOCW544 Case No.: _____ SAS No.: _____ SDG No.: _____

	EPA SAMPLE NO.	SMC1 (DBF) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	UL41925	96	98	98	0
02	UL41925-2	94	95	100	0

QC LIMITS

SMC1	(DBF)	=	Dibromofluoromethane (S)	(76-116)
SMC2	(TOL)	=	Toluene-d8 (S)	(88-110)
SMC3	(BFB)	=	4-Bromofluorobenzene (S)	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: University Laboratories Contract: ul12124

Lab Code: BNAW560 Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): CB0212-1.D Date Analyzed: 2/12/2003

Instrument ID: _____ Time Analyzed: 10:59

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	4710458	5.19	8627057	7.26	4812694	9.99
UPPER LIMIT	9420916	5.69	17254114	7.76	9625388	10.49
LOWER LIMIT	2355229	4.69	4313529	6.76	2406347	9.49
EPA SAMPLE NO.						
01 UL41926-2	3654265	5.19	7734041	7.25	3978020	9.97

IS1 = 1,4-Dichlorobenzene-d4 (
IS2 = Naphthalene-d8 (I)
IS3 = Acenaphthene-d10 (I)
IS4 = Phenanthrene-d10 (I)
IS5 = Chrysene-d12 (I)
IS6 = Perylene-d12 (I)

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: University Laboratories Contract: ul12124

Lab Code: BNAW560 Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): CB0212-1.D Date Analyzed: 02/12/03

Instrument ID: _____ Time Analyzed: 10:59

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	6551497	12.21	5301025	16.28	4585876	18.30
	UPPER LIMIT	13102994	11.71	10602050	15.78	9171752	17.80
	LOWER LIMIT	3275749	12.71	2650513	16.78	2292938	18.80
	EPA SAMPLE NO.						
01	UL41926-2	5723975	12.21	4782464	16.28	3865325	18.31

IS1 = 1,4-Dichlorobenzene-d4 (
IS2 = Naphthalene-d8 (I)
IS3 = Acenaphthene-d10 (I)
IS4 = Phenanthrene-d10 (I)
IS5 = Chrysene-d12 (I)
IS6 = Perylene-d12 (I)

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: University Laboratories Contract: ul12124

Lab Code: BNAW560 Case No.: _____ SAS No.: _____ SDG No.: _____

	EPA SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
01	UL41926-2	45	32	56	48	56	35	0

QC LIMITS

S1	=	2-Fluorophenol (S)	(21-110)
S2	=	Phenol-d5 (S)	(10-110)
S3	=	Nitrobenzene-d5 (S)	(35-114)
S4	=	2-Fluorobiphenyl (S)	(43-116)
S5	=	2,4,6-Tribromophenol (S)	(10-123)
S6	=	Terphenyl-d14 (S)	(33-141)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

Arkona Road Landfill
Leachate Monitoring

March 19, 1999

DATA PACKAGE COVER PAGE

This report contains 27 pages, excluding the cover letter and is only for the submitted samples.

If any pages are missing please contact Safety-Kleen (ENCOTEC), Inc. immediately.

This document is intended only for the person(s) identified in the cover letter and is to be considered **CONFIDENTIAL.**

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This analytical report does not comply with State of Utah batch QC requirements for organic extractables unless otherwise noted in the laboratory narrative.

Flags and Definitions

U = The analyte was not detected at or above the quantitation limit.

E = The analyte was detected at a concentration greater than the calibration range; therefore the result is estimated.

DL = The sample was diluted due to sample matrix, therefore QC was not recoverable.

* = The value is outside quality control limits.

K = Reported concentration is proportional to dilution factor and may be exaggerated.

P = When one or both sample results are <5 times the quantitation limit, the RPD cannot be properly evaluated. It is not included in the total QC count.

G = Result is greater than the numerical value presented.

W = Result is always reported as "wet weight."

J = The analyte was detected at a concentration below the quantitation limit but above the method detection limit.

B = The analyte was detected in the associated method blank.

M = Matrix interference has resulted in an elevated quantitation limit or distorted QC result.

NC = Not Calculable.

NA = Not Applicable.

A = If the sample result is >4 times the amount spiked, the MS recovery cannot be properly evaluated. It is not included in the total QC count.

CA = Combustion aid was necessary to achieve results.

L = The sample flashed below ambient temperature, as indicated in Quant Limit column.

SDG	A Sample Delivery Group is a grouping of samples arriving under separate Chains of Custody that are reported together.
QC Set ID	An alphanumeric identification associating appropriate QC data with sample data.
Calculation Basis	Indicates whether the results have been adjusted for moisture content.
Quant Limit	The limit at which the analyte can be reliably reported within the method- specified limits of precision and accuracy under routine operating conditions.
Dil	Dilution Factor.
Conc	The concentration, expressed in appropriate units.
LCS	Laboratory Control Sample.
LCD	Laboratory Control Sample Duplicate.
MS	Matrix Spike.
MSD	Matrix Spike Duplicate.
%Rec	The percent recovery of a fortified analyte (surrogate, matrix spike, lab control sample).
RPD	The relative percent difference for duplicate analyses.
Second Analysis Date	The date on which a sample was analyzed a second time, at a dilution different than that on the (initial) Analysis Date.

If a numerical value is very large, it will be expressed in scientific notation. For example, a concentration of 10,000,000 ug Kg will be reported as 1E7.

LABORATORY NARRATIVE

Client Name:	Augusta Development Corporation
Project Name:	Arkona Road Landfill
Project Number:	38201
Sample Delivery Group:	ADC-AR-99C3
Batch Number(s):	100016586
Narrative Date:	March 26, 1999

Samples were received and analyzed without incident, within holding times, with chain-of-custody maintained, and according to the referenced methods, except as noted below.

I certify that the data presented in this report is accurate, complete and meets the minimum quality assurance standards as specified in 40-CFR 136, 40-CFR-141, and/or SW-846. An assessment of the quality of the data, noting any exceptions, outliers, and/or problems encountered has been narrated herein.

April 21, 1999

Walt Roudebush (or designee)
Technical Director

Date

Analytical Data
March 19, 1999

ANALYTICAL REPORT

Client: AUGUSTA DEVELOPMENT CORPORATION
Project/Site: ARKONA RD LANDFILL
Sample ID: ARL #1 METALS

Date Sampled	03/19/99	**ENCOTEC Project ID:**	38201
Date Received:	03/19/99	**ENCOTEC SDG ID:**	ADC-AR-99C3
Date Extracted:	N/A	**ENCOTEC QC Set ID:**	See below
Date Analyzed:	See below	**ENCOTEC Submission ID:**	100016586
Method Reference:	See below	**ENCOTEC Sample ID:**	200121733
Matrix:	WATER	**Analyte List:**	N/A
Percent Total Solids:	N/A	**Calculation Basis:**	N/A

	Metals Inorganics	QC Set ID	Date Analyzed	Method Ref.	Units	Quant Limit	Dil	Conc	Flag
1	Antimony	IMSC2204	03/24/99	6020	ug/L	5.0	1	U	
2	Arsenic	IMSC2204	03/24/99	6020	ug/L	1.0	1	17	
3	Barium	ICPC2201	03/22/99	6010B	ug/L	200	1	820	
4	Cadmium	IMSC2204	03/24/99	6020	ug/L	0.20	1	0.29	
5	Chromium	IMSC2204	03/24/99	6020	ug/L	1.0	1	7.2	
6	Copper	ICPC2201	03/22/99	6010B	ug/L	25	1	U	
7	Lead	IMSC2204	03/24/99	6020	ug/L	3.0	1	23	
8	Mercury	CVAC2204	03/24/99	7470A	ug/L	0.20	1	U	
9	Nickel	ICPC2201	03/22/99	6010B	ug/L	50	1	U	
10	Selenium	IMSC2204	03/24/99	6020	ug/L	5.0	1	37	
11	Silver	IMSC2204	03/24/99	6020	ug/L	0.50	1	2.7	
12	Thallium	IMSC2204	03/24/99	6020	ug/L	2.0	1	U	
13	Zinc	ICPC2201	03/22/99	6010B	ug/L	20	1	68	

fety-Kleen (ENCOTEC), Inc.
35 Research Park Drive ■ Ann Arbor, MI 48108
lephone: (734) 761-1389 - Telefax: ~~(734)~~ 761-1034

Report Date: 07/12/99

ANALYTICAL REPORT

Client: AUGUSTA DEVELOPMENT CORPORATION
Project/Site: ARKONA RD LANDFILL
Sample ID: ARL #2 METALS

Date Sampled	03/19/99	**ENCOTEC Project ID:**	38201
Date Received:	03/19/99	**ENCOTEC SDG ID:**	ADC-AR-99C3
Date Extracted:	N/A	**ENCOTEC QC Set ID:**	See below
Date Analyzed:	See below	**ENCOTEC Submission ID:**	100016586
Method Reference:	See below	**ENCOTEC Sample ID:**	200121734
Matrix:	WATER	**Analyte List:**	N/A
Percent Total Solids:	N/A	**Calculation Basis:**	N/A

	Metals Inorganics	QC Set ID	Date Analyzed	Method Ref.	Units	Quant Limit	Dil	Conc	Flag
1	Antimony	IMSC2204	03/24/99	6020	ug/L	5.0	1	U	
2	Arsenic	IMSC2204	03/24/99	6020	ug/L	1.0	1	U	
3	Barium	ICPC2201	03/22/99	6010B	ug/L	200	1	770	
4	Cadmium	IMSC2204	03/24/99	6020	ug/L	0.20	1	U	
5	Chromium	IMSC2204	03/24/99	6020	ug/L	1.0	1	7.3	
6	Copper	ICPC2201	03/22/99	6010B	ug/L	25	1	U	
7	Lead	IMSC2204	03/24/99	6020	ug/L	3.0	1	U	
8	Mercury	CVAC2204	03/24/99	7470A	ug/L	0.20	1	U	
9	Nickel	ICPC2201	03/22/99	6010B	ug/L	50	1	U	
	Selenium	IMSC2204	03/24/99	6020	ug/L	5.0	1	U	
11	Silver	IMSC2204	03/24/99	6020	ug/L	0.50	1	U	
12	Thallium	IMSC2204	03/24/99	6020	ug/L	2.0	1	U	
13	Zinc	ICPC2201	03/22/99	6010B	ug/L	20	1	71	

Safety-Kleen (ENCOTEC), Inc.
3985 Research Park Drive ■ Ann Arbor, MI 48108
Telephone: (734) 761-1389 - Telefax: ~~(734)~~ 761-1034

Report Date: 07/12/99

ANALYTICAL REPORT

CLIENT: AUGUSTA DEVELOPMENT CORPORATION
Project/Site: ARKONA RD LANDFILL
Sample ID: ARL #3

Date Sampled:	03/19/99	**ENCOTEC Project ID:**	38201
Date Received:	03/19/99	**ENCOTEC SDG ID:**	ADC-AR-99C3
Date Extracted:	N/A	**ENCOTEC QC Set ID:**	VOPC2301W
Analysis Date:	03/23/99	**ENCOTEC Submission ID:**	100016586
Second Analysis Date:	N/A	**ENCOTEC Sample ID:**	200121735
Method Reference:	8260B	**Percent Total Solids:**	N/A
Matrix:	WATER	**Calculation Basis:**	N/A

	VOLATILE ORGANICS List	CAS #	Quant Limit (ug/L)	Dil	Conc (ug/L)	Flag
1	Acetone	67-64-1	500	50	1500	
2	Acrylonitrile	107-13-1	50	50	U	
3	Benzene	71-43-2	250	50	U	
4	Bromochloromethane	74-97-5	50	50	U	
5	Bromodichloromethane	75-27-4	50	50	U	
6	Bromoform	75-25-2	50	50	U	
7	Bromomethane	74-83-9	50	50	U	
8	2-Butanone (MEK)	78-93-3	500	50	3200	
9	Carbon disulfide	75-15-0	250	50	U	
	Carbon tetrachloride	56-23-5	50	50	U	
	Chlorobenzene	108-90-7	50	50	U	
12	Chloroethane	75-00-3	50	50	U	
13	Chloroform	67-66-3	50	50	U	
14	Chloromethane	74-87-3	50	50	U	
15	1,2-Dibromo-3-chloropropane	96-12-8	50	50	U	
16	Dibromochloromethane	124-48-1	50	50	U	
17	1,2-Dibromoethane	106-93-4	50	50	U	
18	Dibromomethane	74-95-3	50	50	U	
19	trans-1,4-Dichloro-2-butene	110-57-6	250	50	U	
20	1,3-Dichlorobenzene	541-73-1	50	50	U	
21	1,4-Dichlorobenzene	106-46-7	50	50	U	
22	1,2-Dichlorobenzene	95-50-1	50	50	U	
23	Dichlorodifluoromethane	75-71-8	50	50	U	
24	1,2-Dichloroethane	107-06-2	50	50	U	
25	1,1-Dichloroethane	75-34-3	50	50	U	
26	trans-1,2-Dichloroethene	156-60-5	50	50	U	
27	cis-1,2-Dichloroethene	156-59-2	50	50	120	
28	1,1-Dichloroethene	75-35-4	50	50	U	
29	1,2-Dichloropropane	78-87-5	50	50	U	
30	trans-1,3-Dichloropropene	10061-02-6	50	50	U	
31	cis-1,3-Dichloropropene	10061-01-5	50	50	U	
32	Diethyl ether	60-29-7	500	50	U	
33	Ethylbenzene	100-41-4	50	50	U	
34	Hexachloroethane	67-72-1	100	50	U	
35	2-Hexanone	591-78-6	500	50	U	

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Report Date: 07/12/99

ANALYTICAL REPORT

CLIENT: AUGUSTA DEVELOPMENT CORPORATION
Project/Site: ARKONA RD LANDFILL
Sample ID: ARL #3

Date Sampled:	03/19/99	**ENCOTEC Project ID:**	38201
Date Received:	03/19/99	**ENCOTEC SDG ID:**	ADC-AR-99C3
Date Extracted:	N/A	**ENCOTEC QC Set ID:**	VOPC2301W
Analysis Date:	03/23/99	**ENCOTEC Submission ID:**	100016586
Second Analysis Date:	N/A	**ENCOTEC Sample ID:**	200121735
Method Reference:	8260B	**Percent Total Solids:**	N/A
Matrix:	WATER	**Calculation Basis:**	N/A

	VOLATILE ORGANICS List	CAS #	Quant Limit (ug/L)	Dil	Conc (ug/L)	Flag
36	Isopropylbenzene	98-82-8	50	50	U	
37	Methyl iodide	74-88-4	50	50	U	
38	Methyl(tert)butyl ether	1634-04-4	2500	50	U	
39	4-Methyl-2-pentanone (MIBK)	108-10-1	500	50	440	J
40	Methylene chloride	75-09-2	250	50	200	J
41	2-Methylnaphthalene	91-57-6	250	50	U	
42	Naphthalene	91-20-3	50	50	U	
43	n-Propylbenzene	103-65-1	50	50	U	
44	Styrene	100-42-5	50	50	U	
	1,1,2,2-Tetrachloroethane	79-34-5	50	50	U	
[illegible]	1,1,1,2-Tetrachloroethane	630-20-6	50	50	U	
47	Tetrachloroethene	127-18-4	50	50	U	
48	Toluene	108-88-3	50	50	430	
49	1,2,4-Trichlorobenzene	120-82-1	50	50	U	
50	1,1,2-Trichloroethane	79-00-5	50	50	U	
51	1,1,1-Trichloroethane	71-55-6	50	50	U	
52	Trichloroethene	79-01-6	50	50	U	
53	Trichlorofluoromethane	75-69-4	50	50	U	
54	1,2,3-Trichloropropane	96-18-4	50	50	U	
55	1,3,5-Trimethylbenzene	108-67-8	50	50	U	
56	1,2,4-Trimethylbenzene	95-63-6	50	50	U	
57	Vinyl acetate	108-05-4	50	50	U	
58	Vinyl chloride	75-01-4	50	50	U	
59	1,2-Xylene	95-47-6	50	50	U	
60	1,3-Xylene and 1,4-Xylene	108-38-3	100	50	64	J

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Report Date: 07/12/99

ANALYTICAL REPORT

CLIENT: AUGUSTA DEVELOPMENT CORPORATION
Project/Site: ARKONA RD LANDFILL
Sample ID: ARL #4 VOC

Date Sampled:	03/19/99	**ENCOTEC Project ID:**	38201
Date Received:	03/19/99	**ENCOTEC SDG ID:**	ADC-AR-99C3
Date Extracted:	N/A	**ENCOTEC QC Set ID:**	VOPC2401W
Analysis Date:	03/24/99	**ENCOTEC Submission ID:**	100016586
Second Analysis Date:	N/A	**ENCOTEC Sample ID:**	200121736
Method Reference:	8260B	**Percent Total Solids:**	N/A
Matrix:	WATER	**Calculation Basis:**	N/A

	VOLATILE ORGANICS List	CAS #	Quant Limit (ug/L)	Dil	Conc (ug/L)	Flag
1	Acetone	67-64-1	500	50	1300	
2	Acrylonitrile	107-13-1	50	50	U	
3	Benzene	71-43-2	250	50	U	
4	Bromochloromethane	74-97-5	50	50	U	
5	Bromodichloromethane	75-27-4	50	50	U	
6	Bromoform	75-25-2	50	50	U	
7	Bromomethane	74-83-9	50	50	U	
8	2-Butanone (MEK)	78-93-3	500	50	3000	
9	Carbon disulfide	75-15-0	250	50	U	
	Carbon tetrachloride	56-23-5	50	50	U	
11	Chlorobenzene	108-90-7	50	50	U	
12	Chloroethane	75-00-3	50	50	U	
13	Chloroform	67-66-3	50	50	U	
14	Chloromethane	74-87-3	50	50	U	
15	1,2-Dibromo-3-chloropropane	96-12-8	50	50	U	
16	Dibromochloromethane	124-48-1	50	50	U	
17	1,2-Dibromoethane	106-93-4	50	50	U	
18	Dibromomethane	74-95-3	50	50	U	
19	trans-1,4-Dichloro-2-butene	110-57-6	250	50	U	
20	1,3-Dichlorobenzene	541-73-1	50	50	U	
21	1,4-Dichlorobenzene	106-46-7	50	50	U	
22	1,2-Dichlorobenzene	95-50-1	50	50	U	
23	Dichlorodifluoromethane	75-71-8	50	50	U	
24	1,2-Dichloroethane	107-06-2	50	50	U	
25	1,1-Dichloroethane	75-34-3	50	50	U	
26	trans-1,2-Dichloroethene	156-60-5	50	50	U	
27	cis-1,2-Dichloroethene	156-59-2	50	50	120	
28	1,1-Dichloroethene	75-35-4	50	50	U	
29	1,2-Dichloropropane	78-87-5	50	50	U	
30	trans-1,3-Dichloropropene	10061-02-6	50	50	U	
31	cis-1,3-Dichloropropene	10061-01-5	50	50	U	
32	Diethyl ether	60-29-7	500	50	U	
33	Ethylbenzene	100-41-4	50	50	U	
34	Hexachloroethane	67-72-1	100	50	U	
35	2-Hexanone	591-78-6	500	50	U	

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Report Date: 07/12/99

ANALYTICAL REPORT

CLIENT: AUGUSTA DEVELOPMENT CORPORATION
Project/Site: ARKONA RD LANDFILL
Sample ID: ARL #4 VOC

Date Sampled:	03/19/99	**ENCOTEC Project ID:**	38201
Date Received:	03/19/99	**ENCOTEC SDG ID:**	ADC-AR-99C3
Date Extracted:	N/A	**ENCOTEC QC Set ID:**	VOPC2401W
Analysis Date:	03/24/99	**ENCOTEC Submission ID:**	100016586
Second Analysis Date:	N/A	**ENCOTEC Sample ID:**	200121736
Method Reference:	8260B	**Percent Total Solids:**	N/A
Matrix:	WATER	**Calculation Basis:**	N/A

	VOLATILE ORGANICS List	CAS #	Quant Limit (ug/L)	Dil	Conc (ug/L)	Flag
36	Isopropylbenzene	98-82-8	50	50	U	
37	Methyl iodide	74-88-4	50	50	U	
38	Methyl(tert)butyl ether	1634-04-4	2500	50	U	
39	4-Methyl-2-pentanone (MIBK)	108-10-1	500	50	440	J
40	Methylene chloride	75-09-2	250	50	88	J
41	2-Methylnaphthalene	91-57-6	250	50	U	
42	Naphthalene	91-20-3	50	50	U	
43	n-Propylbenzene	103-65-1	50	50	U	
44	Styrene	100-42-5	50	50	U	
	1,1,2,2-Tetrachloroethane	79-34-5	50	50	U	
46	1,1,1,2-Tetrachloroethane	630-20-6	50	50	U	
47	Tetrachloroethene	127-18-4	50	50	U	
48	Toluene	108-88-3	50	50	450	
49	1,2,4-Trichlorobenzene	120-82-1	50	50	U	
50	1,1,2-Trichloroethane	79-00-5	50	50	U	
51	1,1,1-Trichloroethane	71-55-6	50	50	U	
52	Trichloroethene	79-01-6	50	50	U	
53	Trichlorofluoromethane	75-69-4	50	50	U	
54	1,2,3-Trichloropropane	96-18-4	50	50	U	
55	1,3,5-Trimethylbenzene	108-67-8	50	50	U	
56	1,2,4-Trimethylbenzene	95-63-6	50	50	U	
57	Vinyl acetate	108-05-4	50	50	U	
58	Vinyl chloride	75-01-4	50	50	U	
59	1,2-Xylene	95-47-6	50	50	U	
60	1,3-Xylene and 1,4-Xylene	108-38-3	100	50	68	J

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Report Date: 07/12/99

Quality Assurance Data

QUALITY ASSESSMENT REPORT - METHOD BLANK ANALYSIS

Extraction Date	N/A	ENCOTEC Project ID:	38201
Analysis Date:	See Below	ENCOTEC SDG ID:	ADC-AR-99C3
Second Analysis Date:	N/A	ENCOTEC QC Set ID:	See Below
Method Reference:	See Below	ENCOTEC Submission ID:	100016586

	Analyte	QC Set ID	Date Analyzed	Method Ref.	Units	Quant Limit	Dil	Conc	Flag
1	Antimony	IMSC2204	03/24/99	6020	ug/L	5.0	1	U	
2	Arsenic	IMSC2204	03/24/99	6020	ug/L	1.0	1	U	
3	Barium	ICPC2201	03/22/99	6010B	ug/L	200	1	U	
4	Cadmium	IMSC2204	03/24/99	6020	ug/L	0.20	1	U	
5	Chromium	IMSC2204	03/24/99	6020	ug/L	1.0	1	U	
6	Copper	ICPC2201	03/22/99	6010B	ug/L	25	1	U	
7	Lead	IMSC2204	03/23/99	6020	ug/L	3.0	1	U	
8	Mercury	CVAC2204	03/24/99	7470A	ug/L	0.20	1	U	
9	Nickel	ICPC2201	03/22/99	6010B	ug/L	50	1	U	
10	Selenium	IMSC2204	03/24/99	6020	ug/L	5.0	1	U	
11	Silver	IMSC2204	03/24/99	6020	ug/L	0.50	1	U	
12	Thallium	IMSC2204	03/24/99	6020	ug/L	2.0	1	U	
13	Zinc	ICPC2201	03/22/99	6010B	ug/L	20	1	U	

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Report Date: 03/25/99

QUALITY ASSESSMENT REPORT - LCS Analysis

ENCOTEC Project ID: 38201
ENCOTEC SDG ID: ADC-AR-99C3
ENCOTEC QC Set ID: See Below
ENCOTEC Submission ID: 100016586

	Analyte	QC Set ID	Conc Spiked	Conc LCS	Units	Percent Recovery (%)	Flag	Quality Control Windows (%)
1	Antimony	IMSC2204	0.0500	0.0497	mg/L	99		80-120
2	Arsenic	IMSC2204	0.0500	0.0458	mg/L	92		80-120
3	Barium	ICPC2201	1.00	1.10	mg/L	110		80-120
4	Cadmium	IMSC2204	0.0500	0.0506	mg/L	101		80-120
5	Chromium	IMSC2204	0.0500	0.0480	mg/L	96		80-120
6	Copper	ICPC2201	1.00	1.04	mg/L	104		80-120
7	Lead	IMSC2204	0.0500	0.0507	mg/L	101		80-120
8	Mercury	CVAC2204	0.00215	0.00202	mg/L	94		80-120
9	Nickel	ICPC2201	1.00	1.07	mg/L	107		80-120
10	Selenium	IMSC2204	0.0500	0.0481	mg/L	96		80-120
11	Silver	IMSC2204	0.0500	0.0499	mg/L	100		80-120
12	Thallium	IMSC2204	0.0500	0.0528	mg/L	106		80-120
13	Zinc	ICPC2201	1.00	1.14	mg/L	114		80-120

D=Detected, result must be greater than zero.
Recovery: 0 out of 13 outside QC Windows

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Report Date: 03/25/99

QUALITY ASSESSMENT REPORT - MS Analysis

ENCOTEC SDG ID: ADC-AR-99C3
ENCOTEC QC Set ID: See Below
ENCOTEC Submission ID: 100016586
ENCOTEC Sample ID: See Below
Matrix: N/A

	Analyte	ENCOTEC Sample ID	QC Set ID	Conc. Spiked	Sample Result	Conc. MS	Units	Percent Recovery (%)	Flag	QC Windows (%)
1	Antimony	200121743	IMSC2204	0.0500	U	0.0510	mg/L	102		75-125
2	Arsenic	200121743	IMSC2204	0.0500	U	0.0518	mg/L	104		75-125
3	Barium	200121734	ICPC2201	1.00	0.77	1.68	mg/L	91		80-120
4	Cadmium	200121743	IMSC2204	0.0500	U	0.0501	mg/L	100		75-125
5	Chromium	200121743	IMSC2204	0.0500	0.0073	0.0499	mg/L	85		75-125
6	Copper	200121734	ICPC2201	1.00	U	0.893	mg/L	89		80-120
7	Lead	200121743	IMSC2204	0.0500	U	0.0516	mg/L	103		75-125
8	Mercury	200121551	CVAC2204	0.00215	0.00024	0.00231	mg/L	96		75-125
9	Nickel	200121734	ICPC2201	1.00	U	0.886	mg/L	89		80-120
10	Selenium	200121743	IMSC2204	0.0500	U	0.0490	mg/L	98		75-125
11	Silver	200121743	IMSC2204	0.0500	U	0.0459	mg/L	92		75-125
12	Thallium	200121743	IMSC2204	0.0500	U	0.0542	mg/L	108		75-125
13	Zinc	200121734	ICPC2201	1.00	0.071	1.02	mg/L	95		80-120

D=Detected, result must be greater than zero.
Recovery: 0 out of 13 outside QC Windows

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Report Date: 03/25/99

QUALITY ASSESSMENT REPORT - MD Analysis

ENCOTEC SDG ID: ADC-AR-99C3
ENCOTEC QC Set ID: See Below
ENCOTEC Submission ID: 100016586
ENCOTEC Sample ID: See Below
Matrix: N/A

	Analyte	ENCOTEC Sample ID	QC Set ID	Sample Result	Conc. MD	Units	RPD (%)	Flag	Quality Control Windows (%)
1	Antimony	200121743	IMSC2204	U	U	mg/L	NC		20
2	Arsenic	200121743	IMSC2204	U	U	mg/L	NC		20
3	Barium	200121734	ICPC2201	0.77	0.83	mg/L	8		20
4	Cadmium	200121743	IMSC2204	U	U	mg/L	NC		20
5	Chromium	200121743	IMSC2204	0.0073	0.0072	mg/L	1		20
6	Copper	200121734	ICPC2201	U	U	mg/L	NC		20
7	Lead	200121743	IMSC2204	U	U	mg/L	NC		20
8	Mercury	200121552	CVAC2204	U	U	mg/L	NC		20
9	Nickel	200121734	ICPC2201	U	0.052	mg/L	NC		20
10	Selenium	200121743	IMSC2204	U	U	mg/L	NC		20
11	Silver	200121743	IMSC2204	U	U	mg/L	NC		20
12	Thallium	200121743	IMSC2204	U	U	mg/L	NC		20
13	Zinc	200121734	ICPC2201	0.071	0.089	mg/L	22	P	20

D=Detected, result must be greater than zero.
RPD: 0 out of 2 outside QC Windows

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Report Date: 03/25/99

Safety-Kleen (ENCOTEC), Inc.
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734 / 761-1389

WATER MATRIX SURROGATE RECOVERY
VOLATILE ORGANICS

Project Name: AUGUSTA DEVELOPMENT CORPORATION
Project Number: 38201
Report Date: 03/26/99
QC Set I.D.: VOPC2301W

ENCOTEC Sample I.D.	% Recovery Dibromofluoromethane (86-118)	% Recovery D4-1,2-Dichloroethane (80-120)	% Recovery D8-Toluene (88-110)	% Recovery BFB (86-115)
200121735	100	104	96	99
200119393 MB	98	97	95	98
200119512 LCS	98	102	97	100
200121430 MS	99	103	97	96
200121430 MSD	103	105	96	97

All samples fortified with 0.05 mg/L of each surrogate analyte.

* Value outside of established quality control windows.
DL = Sample matrix diluted, therefore surrogate recoveries are not applicable.
M = Matrix interferences caused distortion to recovery value.

RECOVERY: 0 out of 20 outside QC Windows.

Note:

Form 065VWN2G.GN1

Rev. 08/10

Safety-Kleen (ENCOTEC), Inc.
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WATER MATRIX SURROGATE RECOVERY
VOLATILE ORGANICS

Project Name: AUGUSTA DEVELOPMENT CORPORATION
Project Number: 38201
Report Date: 03/26/99
QC Set I.D.: VOPC2401W

ENCOTEC Sample I.D.	% Recovery Dibromofluoromethane (86-118)	% Recovery D4-1,2-Dichloroethane (80-120)	% Recovery D8-Toluene (88-110)	% Recovery BFB (86-115)
200121736	97	97	98	98
200119397 MB	99	99	98	98
200119516 LCS	100	102	98	98
200121882 MS	99	98	96	98
200121882 MSD	101	101	96	99

All samples fortified with 0.05 mg/L of each surrogate analyte.

* Value outside of established quality control windows.
DL = Sample matrix diluted, therefore surrogate recoveries are not applicable.
M = Matrix interferences caused distortion to recovery value.

RECOVERY: 0 out of 20 outside QC Windows.

Note:

Form 065VWN2G.GN1 Rev. 08/10

QUALITY ASSESSMENT REPORT - METHOD BLANK ANALYSIS

Extraction Date:	N/A	**ENCOTEC Project ID:**	38201
Analysis Date:	03/23/99	**ENCOTEC SDG ID:**	ADC-AR-99C3
Second Analysis Date:	N/A	**ENCOTEC QC Set ID:**	VOPC2301W
Method Reference:	8260B	**ENCOTEC Submission ID:**	100016586
Matrix:	WATER	**ENCOTEC Method Blank ID:**	200119393

	VOLATILE ORGANICS List	CAS #	Quant Limit (ug/L)	Dil	Conc (ug/L)	Flag
1	Acetone	67-64-1	100	1.0	U	
2	Acrylonitrile	107-13-1	50	1.0	U	
3	Benzene	71-43-2	5.0	1.0	U	
4	Bromochloromethane	74-97-5	5.0	1.0	U	
5	Bromodichloromethane	75-27-4	1.0	1.0	U	
6	Bromoform	75-25-2	1.0	1.0	U	
7	Bromomethane	74-83-9	1.0	1.0	U	
8	2-Butanone (MEK)	78-93-3	50	1.0	U	
9	Carbon disulfide	75-15-0	50	1.0	U	
10	Carbon tetrachloride	56-23-5	1.0	1.0	U	
11	Chlorobenzene	108-90-7	1.0	1.0	U	
12	Chloroethane	75-00-3	1.0	1.0	U	
13	Chloroform	67-66-3	1.0	1.0	U	
14	Chloromethane	74-87-3	1.0	1.0	U	
15	1,2-Dibromo-3-chloropropane	96-12-8	5.0	1.0	U	
16	Dibromochloromethane	124-48-1	1.0	1.0	U	
17	1,2-Dibromoethane	106-93-4	10	1.0	U	
18	Dibromomethane	74-95-3	10	1.0	U	
19	trans-1,4-Dichloro-2-butene	110-57-6	5.0	1.0	U	
20	1,3-Dichlorobenzene	541-73-1	1.0	1.0	U	
21	1,4-Dichlorobenzene	106-46-7	1.0	1.0	U	
22	1,2-Dichlorobenzene	95-50-1	1.0	1.0	U	
23	Dichlorodifluoromethane	75-71-8	10	1.0	U	
24	1,2-Dichloroethane	107-06-2	1.0	1.0	U	
25	1,1-Dichloroethane	75-34-3	1.0	1.0	U	
26	trans-1,2-Dichloroethene	156-60-5	1.0	1.0	U	
27	cis-1,2-Dichloroethene	156-59-2	1.0	1.0	U	
28	1,1-Dichloroethene	75-35-4	1.0	1.0	U	
29	1,2-Dichloropropane	78-87-5	1.0	1.0	U	
30	trans-1,3-Dichloropropene	10061-02-6	1.0	1.0	U	
31	cis-1,3-Dichloropropene	10061-01-5	1.0	1.0	U	
32	Diethyl ether	60-29-7	50	1.0	U	
33	Ethylbenzene	100-41-4	1.0	1.0	U	
34	Hexachloroethane	67-72-1	10	1.0	U	
35	2-Hexanone	591-78-6	50	1.0	U	
36	Isopropylbenzene	98-82-8	5.0	1.0	U	
37	Methyl iodide	74-88-4	10	1.0	U	
38	Methyl(tert)butyl ether	1634-04-4	50	1.0	U	
39	4-Methyl-2-pentanone (MIBK)	108-10-1	50	1.0	U	
40	Methylene chloride	75-09-2	5.0	1.0	U	
41	2-Methylnaphthalene	91-57-6	5.0	1.0	U	
42	Naphthalene	91-20-3	5.0	1.0	U	

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Report Date: 03/25/99

QUALITY ASSESSMENT REPORT - METHOD BLANK ANALYSIS

Extraction Date:	N/A	**ENCOTEC Project ID:**	38201
Analysis Date:	03/23/99	**ENCOTEC SDG ID:**	ADC-AR-99C3
Second Analysis Date:	N/A	**ENCOTEC QC Set ID:**	VOPC2301W
Method Reference:	8260B	**ENCOTEC Submission ID:**	100016586
Matrix:	WATER	**ENCOTEC Method Blank ID:**	200119393

	VOLATILE ORGANICS List	CAS #	Quant Limit (ug/L)	Dil	Conc (ug/L)	Flag
43	n-Propylbenzene	103-65-1	25	1.0	U	
44	Styrene	100-42-5	1.0	1.0	U	
45	1,1,2,2-Tetrachloroethane	79-34-5	1.0	1.0	U	
46	1,1,1,2-Tetrachloroethane	630-20-6	5.0	1.0	U	
47	Tetrachloroethene	127-18-4	1.0	1.0	U	
48	Toluene	108-88-3	1.0	1.0	U	
49	1,2,4-Trichlorobenzene	120-82-1	5.0	1.0	U	
50	1,1,2-Trichloroethane	79-00-5	1.0	1.0	U	
51	1,1,1-Trichloroethane	71-55-6	1.0	1.0	U	
52	Trichloroethene	79-01-6	1.0	1.0	U	
53	Trichlorofluoromethane	75-69-4	5.0	1.0	U	
54	1,2,3-Trichloropropane	96-18-4	5.0	1.0	U	
55	1,3,5-Trimethylbenzene	108-67-8	5.0	1.0	U	
56	1,2,4-Trimethylbenzene	95-63-6	5.0	1.0	U	
57	Vinyl acetate	108-05-4	1.0	1.0	U	
58	Vinyl chloride	75-01-4	1.0	1.0	U	
59	1,2-Xylene	95-47-6	5.0	1.0	U	
60	1,3-Xylene and 1,4-Xylene	108-38-3	10	1.0	U	-

Safety-Kleen (ENCOTEC), Inc.
3985 Research Park Drive Ann Arbor, MI 48108
Telephone: (734) 761-1389 - Telefax: (734) 761-1034

Report Date: 03/25/9

QUALITY ASSESSMENT REPORT - METHOD BLANK ANALYSIS

Extraction Date:	N/A	**ENCOTEC Project ID:**	38201
Analysis Date:	03/24/99	**ENCOTEC SDG ID:**	ADC-AR-99C3
Second Analysis Date:	N/A	**ENCOTEC QC Set ID:**	VOPC2401W
Method Reference:	8260B	**ENCOTEC Submission ID:**	100016586
Matrix:	WATER	**ENCOTEC Method Blank ID:**	200119397

	VOLATILE ORGANICS List	CAS #	Quant Limit (ug/L)	Dil	Conc (ug/L)	Flag
1	Acetone	67-64-1	100	1.0	U	
2	Acrylonitrile	107-13-1	50	1.0	U	
3	Benzene	71-43-2	5.0	1.0	U	
4	Bromochloromethane	74-97-5	5.0	1.0	U	
5	Bromodichloromethane	75-27-4	1.0	1.0	U	
6	Bromoform	75-25-2	1.0	1.0	U	
7	Bromomethane	74-83-9	1.0	1.0	U	
8	2-Butanone (MEK)	78-93-3	50	1.0	U	
9	Carbon disulfide	75-15-0	50	1.0	U	
10	Carbon tetrachloride	56-23-5	1.0	1.0	U	
11	Chlorobenzene	108-90-7	1.0	1.0	U	
12	Chloroethane	75-00-3	1.0	1.0	U	
13	Chloroform	67-66-3	1.0	1.0	U	
14	Chloromethane	74-87-3	1.0	1.0	U	
15	1,2-Dibromo-3-chloropropane	96-12-8	5.0	1.0	U	
16	Dibromochloromethane	124-48-1	1.0	1.0	U	
17	1,2-Dibromoethane	106-93-4	10	1.0	U	
18	Dibromomethane	74-95-3	10	1.0	U	
19	trans-1,4-Dichloro-2-butene	110-57-6	5.0	1.0	U	
20	1,3-Dichlorobenzene	541-73-1	1.0	1.0	U	
21	1,4-Dichlorobenzene	106-46-7	1.0	1.0	U	
22	1,2-Dichlorobenzene	95-50-1	1.0	1.0	U	
23	Dichlorodifluoromethane	75-71-8	10	1.0	U	
24	1,2-Dichloroethane	107-06-2	1.0	1.0	U	
25	1,1-Dichloroethane	75-34-3	1.0	1.0	U	
26	trans-1,2-Dichloroethene	156-60-5	1.0	1.0	U	
27	cis-1,2-Dichloroethene	156-59-2	1.0	1.0	U	
28	1,1-Dichloroethene	75-35-4	1.0	1.0	U	
29	1,2-Dichloropropane	78-87-5	1.0	1.0	U	
30	trans-1,3-Dichloropropene	10061-02-6	1.0	1.0	U	
31	cis-1,3-Dichloropropene	10061-01-5	1.0	1.0	U	
32	Diethyl ether	60-29-7	50	1.0	U	
33	Ethylbenzene	100-41-4	1.0	1.0	U	
34	Hexachloroethane	67-72-1	10	1.0	U	
35	2-Hexanone	591-78-6	50	1.0	U	
36	Isopropylbenzene	98-82-8	5.0	1.0	U	
37	Methyl iodide	74-88-4	10	1.0	U	
38	Methyl(tert)butyl ether	1634-04-4	50	1.0	U	
39	4-Methyl-2-pentanone (MIBK)	108-10-1	50	1.0	U	
40	Methylene chloride	75-09-2	5.0	1.0	U	
41	2-Methylnaphthalene	91-57-6	5.0	1.0	U	
42	Naphthalene	91-20-3	5.0	1.0	U	

Safety-Kleen (ENCOTEC), Inc.
3985 Research Park Drive ■ Ann Arbor, MI 48108
Telephone: (734) 761-1389 - Telefax: (734) 761-1034

Report Date: 03/25/

QUALITY ASSESSMENT REPORT - METHOD BLANK ANALYSIS

xtraction Date:	N/A	ENCOTEC Project ID:	38201
Analysis Date:	03/24/99	ENCOTEC SDG ID:	ADC-AR-99C3
Second Analysis Date:	N/A	ENCOTEC QC Set ID:	VOPC2401W
Method Reference:	8260B	ENCOTEC Submission ID:	100016586
Matrix:	WATER	ENCOTEC Method Blank ID:	200119397

	VOLATILE ORGANICS List	CAS #	Quant Limit (ug/L)	Dil	Conc (ug/L)	Flag
43	n-Propylbenzene	103-65-1	25	1.0	U	
44	Styrene	100-42-5	1.0	1.0	U	
45	1,1,2,2-Tetrachloroethane	79-34-5	1.0	1.0	U	
46	1,1,1,2-Tetrachloroethane	630-20-6	5.0	1.0	U	
47	Tetrachloroethene	127-18-4	1.0	1.0	U	
48	Toluene	108-88-3	1.0	1.0	U	
49	1,2,4-Trichlorobenzene	120-82-1	5.0	1.0	U	
50	1,1,2-Trichloroethane	79-00-5	1.0	1.0	U	
51	1,1,1-Trichloroethane	71-55-6	1.0	1.0	U	
52	Trichloroethene	79-01-6	1.0	1.0	U	
53	Trichlorofluoromethane	75-69-4	5.0	1.0	U	
54	1,2,3-Trichloropropane	96-18-4	5.0	1.0	U	
55	1,3,5-Trimethylbenzene	108-67-8	5.0	1.0	U	
56	1,2,4-Trimethylbenzene	95-63-6	5.0	1.0	U	
57	Vinyl acetate	108-05-4	1.0	1.0	U	
58	Vinyl chloride	75-01-4	1.0	1.0	U	
59	1,2-Xylene	95-47-6	5.0	1.0	U	
60	1,3-Xylene and 1,4-Xylene	108-38-3	10	1.0	U	-

Safety-Kleen (ENCOTEC), Inc.
3985 Research Park Drive Ann Arbor, MI 48108
Telephone: (734) 761-1389 - Telefax: (734) 761-1034

Report Date: 03/25/99

Safety-Kleen / ENCOTEC
3985 Research Park Drive * Ann Arbor, MI 48108
313 / 761-1389

LABORATORY CONTROL SAMPLE (LCS)
LOW LEVEL VOLATILE ORGANICS - WATER MATRIX

Project Name: ENCOTEC
Project Number: 10000
QC Set ID: VOPC2401W

ENCOTEC ID: 200119516

Compound	Conc. Spiked (mg/L)	Conc. LCS (mg/L)	Percent Recovery (%)	Quality Control Limits Recovery (%)
Benzene	0.0100	0.0104	104	60-142
Bromodichloromethane	0.0100	0.0100	100	63-132
Bromoform	0.0100	0.0094	94	44-151
Carbon tetrachloride	0.0100	0.0106	106	48-141
Chlorobenzene	0.0100	0.0104	104	72-126
Chloroform	0.0100	0.0101	101	67-138
Dibromochloromethane	0.0100	0.0097	97	60-133
1,1-Dichloroethane	0.0100	0.0105	105	61-137
1,2-Dichloroethane	0.0100	0.0103	103	54-155
1,1-Dichloroethene	0.0100	0.0099	99	35-142
trans-1,2-Dichloroethene	0.0100	0.0098	98	60-136
1,2-Dichloropropane	0.0100	0.0102	102	64-138
Ethylbenzene	0.0100	0.0105	105	64-130
Methylene chloride	0.0100	0.0104	104	7-168
1,1,2,2-Tetrachloroethane	0.0100	0.0101	101	53-141
Tetrachloroethene	0.0100	0.0102	102	53-134
Toluene	0.0100	0.0099	99	65-132
1,1,1-Trichloroethane	0.0100	0.0102	102	55-142
1,1,2-Trichloroethane	0.0100	0.0097	97	61-138
Trichloroethene	0.0100	0.0106	106	47-139

Recovery: 0 out of 20 outside QC windows

Note:
SAVED AS: C:\HPCHEM\1\DATA\QC\VLC24W1P.XLS

Rev. 02/24/97

Safety-Kleen / ENCOTEC
3985 Research Park Drive * Ann Arbor, MI 48108
313 / 761-1389

LABORATORY CONTROL SAMPLE (LCS)
LOW LEVEL VOLATILE ORGANICS - WATER MATRIX

Project Name: ENCOTEC
Project Number: 10000
QC Set ID: VOPC2301W

ENCOTEC ID: 200119512

Compound	Conc. Spiked (mg/L)	Conc. LCS (mg/L)	Percent Recovery (%)	Quality Control Limits Recovery (%)
Benzene	0.0100	0.0101	101	60-142
Bromodichloromethane	0.0100	0.0100	100	63-132
Bromoform	0.0100	0.0096	96	44-151
Carbon tetrachloride	0.0100	0.0096	96	48-141
Chlorobenzene	0.0100	0.0100	100	72-126
Chloroform	0.0100	0.0095	95	67-138
Dibromochloromethane	0.0100	0.0098	98	60-133
1,1-Dichloroethane	0.0100	0.0105	105	61-137
1,2-Dichloroethane	0.0100	0.0102	102	54-155
1,1-Dichloroethene	0.0100	0.0093	93	35-142
trans-1,2-Dichloroethene	0.0100	0.0095	95	60-136
1,2-Dichloropropane	0.0100	0.0103	103	64-138
Ethylbenzene	0.0100	0.0102	102	64-130
Methylene chloride	0.0100	0.0106	106	7-168
1,1,2,2-Tetrachloroethane	0.0100	0.0103	103	53-141
Tetrachloroethene	0.0100	0.0096	96	53-134
Toluene	0.0100	0.0098	98	65-132
1,1,1-Trichloroethane	0.0100	0.0095	95	55-142
1,1,2-Trichloroethane	0.0100	0.0098	98	61-138
Trichloroethene	0.0100	0.0099	99	47-139

Recovery: 0 out of 20 outside QC windows

Note:
SAVED AS: C:\HPCHEM\1\DATA\QC\VLC23W1P.XLS

Rev. 02/24/97

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3985 Research Park Drive * Ann Arbor, MI 48108
313 / 761-1389

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD)

LOW LEVEL VOLATILE ORGANICS - WATER MATRIX

Project Name: ENCOTEC
Project Number: 10000
QC Set ID: VOPC2401W

ENCOTEC ID: 200121882

Compound	Conc. Spiked (mg/L)	Sample Result (mg/L)	Conc. MS (mg/L)	Percent Recovery (%)	Conc. MSD (mg/L)	Percent Recovery (%)	RPD (%)	Quality Control Limits RPD (%)	Quality Control Limits Recovery (%)
1,1-Dichloroethene	0.0100	U	0.0088	88	0.0090	90	2.59	14	61-145
Trichloroethene	0.0100	U	0.0091	91	0.0095	95	4.21	14	71-120
Chlorobenzene	0.0100	U	0.0093	93	0.0094	94	1.28	13	75-130
Toluene	0.0100	U	0.0091	91	0.0094	94	3.78	13	76-125
Benzene	0.0100	U	0.0095	95	0.0097	97	1.98	11	76-127

RPD: 0 out of 5 outside of quality control limits.
Recovery: 0 out of 10 outside of quality control limits.

Note:
SAVED AS: C:\HPCHEM\1\DATA\QC\VMC24W1P.XLS

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313 / 761-1389

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD)

LOW LEVEL VOLATILE ORGANICS - WATER MATRIX

Project Name: ENCOTEC
Project Number: 10000
QC Set ID: VOPC2301W

ENCOTEC ID: 200121430

Compound	Conc. Spiked (mg/L)	Sample Result (mg/L)	Conc. MS (mg/L)	Percent Recovery (%)	Conc. MSD (mg/L)	Percent Recovery (%)	RPD (%)	Quality Control Limits RPD (%)	Quality Control Limits Recovery (%)
1,1-Dichloroethene	0.0100	U	0.0078	78	0.0074	74	5.03	14	61-145
Trichloroethene	0.0100	U	0.0091	91	0.0090	90	1.44	14	71-120
Chlorobenzene	0.0100	U	0.0094	94	0.0094	94	0.21	13	75-130
Toluene	0.0100	U	0.0089	89	0.0090	90	0.67	13	76-125
Benzene	0.0100	U	0.0096	96	0.0096	96	0.52	11	76-127

RPD: 0 out of 5 outside of quality control limits.
Recovery: 0 out of 10 outside of quality control limits.

Note:
SAVED AS: C:\HPCHEM\1\DATA\QC\VMC23W1P.XLS

Chains of Custody

Laidlaw Environmental Inc./Encotec
3985 RESEARCH PARK DRIVE
ANN ARBOR, MICHIGAN 48108
PHONE: (313) 761-1389 FAX: (313) 761-1034

No.

LIENT SHOULD COMPLETE THE THREE SECTIONS OUTLINED IN BLUE, LEI WILL COMPLETE SECTIONS OUTLINED IN RED

Report Results To

Name: H. BATNIK	Title:
Company: Augusta Dev. Corp.	Department:
Mailing Address: 49350 N. I-94 Service Drive	
City, State, Zip Code: Belleville MI 48111	
Telephone: 734-697-2200	Telefax:
Client Job ID:	Purchase Order No.:
Special Instructions	

For use by ENCOTEC Personnel Only

Project No.: 75201	Batch No.: 16586
Logged By:	Date:
Checked By:	Date:
Method of Shipment: Drop Off ☐ Overnight Carrier ☐ Other ☐ (Specify)	
Sample Condition Upon Receipt Acceptable ☐ Other ☐ Explain Briefly If Other Is Checked:	

Sample Collected Represents:

- CERCLA Investigation ☐
- RCRA Investigation ☐
- NPDES Compliance ☐
- Drinking Water ☐
- Waste Characterization ☐
- U.S.T. Investigation ☐
- Ambient Air ☐
- Other (Specify) ☐

ANALYSIS REQUESTED

	Client Sample Identification	Date Sampled	Time	Preservation	Matrix/ Media	Number of Containers	TOTAL MET	8260	TCN (Total)							Comments
1	ARL #1 metals	3/19/99	9:30am	HNO3	LIQ		X									
2	ARL #2 metals	3/19/99	9:30am	HNO3	LEACHATE		X									
3	ARL #3 VOC	3/19/99	9:30am	HCL	↓			X								
4	ARL #4 VOC	3/19/99	9:30am	HCL				X								
5	ARL #5 CN	3/19/99	9:30am	NaOH	↓				X							
6																
12																

Chain-of-Custody

1. Relinquished By: Heather Blatnik	Date/Time: 3/19/99 10:15A	3. Receipt By: April Stewart	Date/Time: 3/19/99
2. Relinquished By: Heather Blatnik	Date/Time: 3/19/99 10:15A	4. Receipt By:	Date/Time:

Authorized By: _____ Date: _____
Client Must Sign This Request

Comments:

University LABORATORIES
STANDARDIZED TESTING AND RESEARCH
38555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 4833
Telephone: (810) 489-8000 FAX: (810) 489-802

Report of Analysis

Submitted by:	Michigan Recovery Systems 36345 Van Born Romulus, MI 48174 Attention: Tom Zoracki
Project Name:	Michigan Recovery System
Sample Identification:	WWTP 7/1/94; WWTP 7/5/94; Arkona Road Landfill Leachate 7/5/94; Arkona Road Landfill Leachate 7/5/94; Arkona Road Landfill Leachate 7/5/94; Arkona Road Landfill Leachate 7/5/94; Arkona Road Landfill Leachate 7/5/94; Arkona Road Landfill Leachate 7/5/94
UL Sample No.:	12916; 12917; 12918; 12919; 12920; 12921; 12922; 12923
UL Project No.:	2508
Analysis Requested:	Fat, Oil, Grease (FOG) Phosphorus (Total) Polychlorinated Biphenyls (PCB) Total Suspended Solids (TSS) Total Toxic Organics (Volaties) Total Toxic Organics (Semivolatiles) Cyanide (Total) pH Total Metals (10)
Results:	Please see attached. This report has 13 pages.
Date Received:	07/06/1994
Date Reported:	07/15/1994

UNIVERSITY LABORATORIES

Bijan Sedghi, M.S.
Director of Laboratories

University LABORATORIES
STANDARDIZED TESTING AND RESEARCH
38555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 48331
Telephone: (810) 489-8000 FAX: (810) 489-8021

Project Name: Michigan Recovery System

Submitted by: Michigan Recovery Systems

Sample Description: Arkona Road Landfill Leachate 7/5/94

Date Received: 07/06/1994
Date Reported: 07/15/1994

UL Sample No.: 12918
UL Project No.: 2508

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Fat, Oil, Grease (FOG)					
Fat, Oil, Grease	18.0	mg/L	5520 B	10.0	2,000
Phosphorus (Total)					
Phosphorus	<0.5	mg/L	4500 P	0.5	500

(<) denotes (less than).
(>) denotes (greater than).

(1) Analysis detection limit is set at the calibration lower limit.
(2) Check application limits. This column is provided for your convenience.

University LABORATORIES
STANDARDIZED TESTING AND RESEARCH
38555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 48331
Telephone: (810) 489-8000 FAX: (810) 489-8021

Project Name: Michigan Recovery System

Submitted by: Michigan Recovery Systems

Sample Description: Arkona Road Landfill Leachate 7/5/94

Date Received: 07/06/1994
Date Reported: 07/15/1994

UL Sample No.: 12919
UL Project No.: 2508

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Polychlorinated Biphenyls (PCB)					
Total PCBs	<0.0001	mg/L	8080 (SW-846)	0.0001	
Total Suspended Solids (TSS)					
Total Suspended Solids	47.0	mg/L	2540 D	10.0	10,000

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University LABORATORIES
STANDARDIZED TESTING AND RESEARCH
38555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 48331
Telephone: (810) 489-8000 FAX: (810) 489-8021

Project Name: Michigan Recovery System

Submitted by: Michigan Recovery Systems

Sample Description: Arkona Road Landfill Leachate 7/5/94

Date Received: 07/06/1994
Date Reported: 07/15/1994

UL Sample No.: 12920
UL Project No.: 2508

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Total Toxic Organics (Volaties)					
Acrolein	<0.001	mg/L	8260	0.001	
Acrylonitrile	<0.001	mg/L	8260	0.001	
enzene	<0.001	mg/L	8260	0.001	
Carbon tetrachloride	<0.001	mg/L	8260	0.001	
Chlorobenzene	<0.001	mg/L	8260	0.001	
1,2-Dichloroethane	<0.001	mg/L	8260	0.001	
1,1,1-Trichloroethane	<0.001	mg/L	8260	0.001	
1,1-Dichloroethane	<0.001	mg/L	8260	0.001	
1,1,2-Trichloroethane	<0.001	mg/L	8260	0.001	
1,1,2,2-Tetrachloroethane	<0.001	mg/L	8260	0.001	
Chloroethane	0.302	mg/L	8260	0.001	
2-Chloroethylvinyl ether	<0.001	mg/L	8260	0.001	
Chloroform	<0.001	mg/L	8260	0.001	
Tetrachloroethylene	<0.001	mg/L	8260	0.001	
Toluene	<0.001	mg/L	8260	0.001	
Trichloroethylene	<0.001	mg/L	8260	0.001	
1,1-Dichloroethylene	<0.001	mg/L	8260	0.001	
trans-1,3-Dichloropropylene	<0.001	mg/L	8260	0.001	
1,2-Dichloropropane	<0.001	mg/L	8260	0.001	
cis-1,3-Dichloropropylene	<0.001	mg/L	8260	0.001	
Ethylbenzene	<0.001	mg/L	8260	0.001	
Total Xylenes	<0.001	mg/L	8260	0.001	
Methylene chloride	0.005	mg/L	8260	0.001	
Vinyl chloride	<0.001	mg/L	8260	0.001	
Chloromethane	<0.001	mg/L	8260	0.001	
Bromomethane	<0.001	mg/L	8260	0.001	
Bromoform	<0.001	mg/L	8260	0.001	

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(>) denotes (greater than).

(1) Analysis detection limit is set at the calibration lower limit.
(2) Check application limits. This column is provided for your convenience.

University LABORATORIES
STANDARD LAB TESTING AND RESEARCH
38555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 48331
Telephone: (810) 489-8000 FAX: (810) 489-8021

Project Name: Michigan Recovery System

Submitted by: Michigan Recovery Systems

Sample Description: Arkona Road Landfill Leachate 7/5/94

Date Received: 07/06/1994
Date Reported: 07/15/1994

UL Sample No.: 12920
UL Project No.: 2508

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Bromodichloromethane	<0.001	mg/L	8260	0.001	
Dibromochloromethane	<0.001	mg/L	8260	0.001	
Total Toxic Organics (Semivolatiles)					
Acenaphthene	<0.005	mg/L	8270	0.005	
Acenaphthylene	<0.005	mg/L	8270	0.005	
Anthracene	<0.005	mg/L	8270	0.005	
Benzidine	<0.050	mg/L	8270	0.050	
Bis (2-chloroethoxy) methane	<0.005	mg/L	8270	0.005	
Bis (2-chloroethyl) ether	<0.005	mg/L	8270	0.005	
Bis (2-chloroisopropyl) ethe	<0.005	mg/L	8270	0.005	
Bis (2-ethylhexyl) phthalate	<0.005	mg/L	8270	0.005	
Butyl benzyl phthalate	<0.005	mg/L	8270	0.005	
Chrysene	<0.005	mg/L	8270	0.005	
Di-n-butyl phthalate	<0.005	mg/L	8270	0.005	
Di-n-octyl phthalate	<0.005	mg/L	8270	0.005	
Diethyl phthalate	<0.005	mg/L	8270	0.005	
Dimethyl phthalate	<0.005	mg/L	8270	0.005	
Fluorene	<0.005	mg/L	8270	0.005	
Hexachlorobenzene	<0.005	mg/L	8270	0.005	
Hexachloro-1,3-butadiene	<0.005	mg/L	8270	0.005	
Hexachlorocyclopentadiene	<0.005	mg/L	8270	0.005	
Hexachloroethane	<0.005	mg/L	8270	0.005	
Isophorone	<0.005	mg/L	8270	0.005	
Naphthalene	<0.005	mg/L	8270	0.005	
Nitrobenzene	<0.005	mg/L	8270	0.005	

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University LABORATORIES
STANDARDIZED TESTING AND RESEARCH
38555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 4833
Telephone: (810) 489-8000 FAX: (810) 489-802

Project Name: Michigan Recovery System

Submitted by: Michigan Recovery Systems

Sample Description: Arkona Road Landfill Leachate 7/5/94

Date Received: 07/06/1994
Date Reported: 07/15/1994

UL Sample No.: 12920
UL Project No.: 2508

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
n_Nitrosodimethylamine	<0.005	mg/L	8270	0.005	
n_Nitrosodi-n-propylamine	<0.005	mg/L	8270	0.005	
n_Nitrosodiphenylamine	<0.005	mg/L	8270	0.005	
p-Chloro-m-cresol	<0.005	mg/L	8270	0.005	
entachlorophenol	<0.001	mg/L	8270	0.001	
Phenanthrene	<0.005	mg/L	8270	0.005	
Phenol	<0.001	mg/L	8270	0.001	
Pyrene	<0.005	mg/L	8270	0.005	
1,2,4-Trichlorobenzene	<0.005	mg/L	8270	0.005	
2-Chloronaphthalene	<0.005	mg/L	8270	0.005	
2,4,6-Trichlorophenol	<0.005	mg/L	8270	0.005	
2-Chlorophenol	<0.005	mg/L	8270	0.005	
1,2-Dichlorobenzene	<0.010	mg/L	8270	0.010	
1,3-Dichlorobenzene	<0.010	mg/L	8270	0.010	
1,4-Dichlorobenzene	<0.001	mg/L	8270	0.001	
Benzo (a) anthracene	<0.005	mg/L	8270	0.005	
Benzo (a) pyrene	<0.005	mg/L	8270	0.005	
Benzo (b) fluoranthene	<0.005	mg/L	8270	0.005	
Benzo (k) fluoranthene	<0.005	mg/L	8270	0.005	
Benzo (ghi) perylene	<0.005	mg/L	8270	0.005	
Dibenzo (a,h) anthracene	<0.005	mg/L	8270	0.005	
Indeno (1,2,3-cd) pyrene	<0.005	mg/L	8270	0.005	
3,3'-Dichlorobenzidine	<0.020	mg/L	8270	0.020	
2,4-Dichlorophenol	<0.005	mg/L	8270	0.005	
2,4-Dimethylphenol	<0.005	mg/L	8270	0.005	
4-Chlorophenyl phenyl ether	<0.005	mg/L	8270	0.005	
4-Bromophenyl phenyl ether	<0.005	mg/L	8270	0.005	
2-Nitrophenol	<0.005	mg/L	8270	0.005	
2,4-Dinitrophenol	<0.020	mg/L	8270	0.020	

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University LABORATORIES
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38555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 48331
Telephone: (810) 489-8000 FAX: (810) 489-8021

Project Name: Michigan Recovery System

Submitted by: Michigan Recovery Systems

Sample Description: Arkona Road Landfill Leachate 7/5/94

Date Received: 07/06/1994
Date Reported: 07/15/1994

UL Sample No.: 12920
UL Project No.: 2508

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
2-Methyl-4,6-dinitrophenol	<0.020	mg/L	8270	0.020	
2,4-Dinitrotoluene	<0.005	mg/L	8270	0.005	
Aldrin	<0.001	mg/L	8080 (SW-846)	0.001	
Dieldrin	<0.001	mg/L	8080 (SW-846)	0.001	
Chlordane	<0.001	mg/L	8080 (SW-846)	0.001	
4,4-DDT	<0.001	mg/L	8080 (SW-846)	0.001	
4,4-DDE	<0.001	mg/L	8080 (SW-846)	0.001	
4,4-DDD	<0.001	mg/L	8080 (SW-846)	0.001	
alpha-Endosulfan	<0.001	mg/L	8080 (SW-846)	0.001	
beta-Endosulfan	<0.001	mg/L	8080 (SW-846)	0.001	
2,6-Dinitrotoluene	<0.005	mg/L	8270	0.005	
1,2-Diphenylhydrazine	<0.005	mg/L	8270	0.005	
Fluoranthene	<0.005	mg/L	8270	0.005	
Hexachlorocyclohexane	<0.001	mg/L	8080 (SW-846)	0.001	
alpha-BHC	<0.001	mg/L	8080 (SW-846)	0.001	
beta-BHC	<0.001	mg/L	8080 (SW-846)	0.001	
Lindane	<0.001	mg/L	8080 (SW-846)	0.001	
delta-BHC	<0.001	mg/L	8080 (SW-846)	0.001	
PCB 1016	<0.0001	mg/L	8080 (SW-846)	0.0001	
PCB 1221	<0.0001	mg/L	8080 (SW-846)	0.0001	
PCB 1232	<0.0001	mg/L	8080 (SW-846)	0.0001	
PCB 1242	<0.0001	mg/L	8080 (SW-846)	0.0001	
PCB 1248	<0.0001	mg/L	8080 (SW-846)	0.0001	
PCB 1254	<0.0001	mg/L	8080 (SW-846)	0.0001	
PCB 1260	<0.0001	mg/L	8080 (SW-846)	0.0001	
Toxaphene	<0.001	mg/L	8080 (SW-846)	0.001	
Endosulfan sulfate	<0.001	mg/L	8080 (SW-846)	0.001	
Endrin	<0.001	mg/L	8080 (SW-846)	0.001	
Endrin aldehyde	<0.001	mg/L	8080 (SW-846)	0.001	

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Telephone: (810) 489-8000 FAX: (810) 489-802

Project Name: Michigan Recovery System

Submitted by: Michigan Recovery Systems

Sample Description: Arkona Road Landfill Leachate 7/5/94

Date Received: 07/06/1994
Date Reported: 07/15/1994

UL Sample No.: 12920
UL Project No.: 2508

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Heptachlor	<0.001	mg/L	8080 (SW-846)	0.001	

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38555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 48331
Telephone: (810) 489-8000 FAX: (810) 489-8021

Project Name: Michigan Recovery System

Submitted by: Michigan Recovery Systems

Sample Description: Arkona Road Landfill Leachate 7/5/94

Date Received: 07/06/1994
Date Reported: 07/15/1994

UL Sample No.: 12921
UL Project No.: 2508

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Cyanide (Total)					
Total Cyanide	<0.100	mg/L	4500-CN C	0.100	

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Telephone: (810) 489-8000 FAX: (810) 489-8021

Project Name: Michigan Recovery System

Submitted by: Michigan Recovery Systems

Sample Description: Arkona Road Landfill Leachate 7/5/94

Date Received: 07/06/1994
Date Reported: 07/15/1994

UL Sample No.: 12922
UL Project No.: 2508

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
pH					
pH	7.0	pH	9040 (SW-846)		(5.0-10.0)

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Telephone: (810) 489-8000 FAX: (810) 489-8021

Project Name: Michigan Recovery System

Submitted by: Michigan Recovery Systems

Sample Description: Arkona Road Landfill Leachate 7/5/94

Date Received: 07/06/1994
Date Reported: 07/15/1994

UL Sample No.: 12923
UL Project No.: 2508

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Total Metals (10)					
Arsenic	<0.001	mg/L	7060 (SW-846)	0.001	
Barium	2.520	mg/L	7080 (SW-846)	0.200	
Cadmium	0.011	mg/L	7130 (SW-846)	0.001	
Chromium	<0.050	mg/L	7190 (SW-846)	0.050	
Copper	<0.025	mg/L	7210 (SW-846)	0.025	
Lead	0.110	mg/L	7420 (SW-846)	0.050	
Mercury	<0.0002	mg/L	7470 (SW-846)	0.0002	
Selenium	<0.005	mg/L	7740 (SW-846)	0.005	
Silver	0.020	mg/L	7760 (SW-846)	0.001	
Zinc	0.230	mg/L	7950 (SW-846)	0.020	

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