OPERATION/CONSTRUCTION MANAGERS

Municipal Services

P.O. Box 97, Garner, North Carolina 27529 (919)772-5393

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

P.O. Box 349, Boone, North Carolina 28607 (704)262-1767

February 17, 1998

FEB 1998
Received
Solid Waste
Section

Larry Rose
Solid Waste Section
Division of Solid Waste Management
State of North Carolina Department of Environment,
Health, and Natural Resources
401 Oberlin Road
Raleigh, North Carolina 27605

Reference: Alexander County
Sanitary Landfill
Taylorsville, North Carolina
Project Number G97043.0

Dear Mr. Rose:

The Alexander County Sanitary Landfill was sampled for the full list of Appendix II constituents on December 3, 1997 by Municipal Engineering Services Co., P.A. (MESCO) of Garner, NC. Laboratory analysis was completed by Pace Analytical Services, Inc. of Huntersville, NC. The enclosed potentiometric map, hydrologic properties table, field data sheet, and sampling results summary were completed by MESCO. Statistical Analysis will be completed and submitted at a later date.

The following table summarizes Appendix I volatile organic compounds detected outside North Carolina Groundwater Standards. An "X" denotes which constituents are outside standard in each monitoring well.

	Benzene	Propylene dichloride	Trichloroethylene	Tetrachloro-ethylene	Carbon Tetrachloride
MW-3	X	X			
MW-4R			X		
MW-5	X		X	X	
MW-6					X
MW-7	X				X

Five monitoring wells contained four different metals that were outside North Carolina Groundwater Standards. Chromium was found outside standards in monitoring wells MW-1A, MW-3, MW-5, and MW-6. Lead was found in concentrations above standards in wells MW-1A, MW-3, MW-4R, MW-5, and MW-6. Nickel was found above standards in MW-3 and MW-5, while cadmium was detected above standard in MW-4R.

Mercury was detected in monitoring wells MW-1A and MW-6. These wells will be tested for mercury along with the Appendix I list during the next sampling event.

The following table summarizes Appendix II organic constituents detected in each monitoring well.

	MW-1A	MW-3	MW-4R	MW-6	MW-7
Isobutanol		X			
Methyl methacylate		X			
MTBE		X			X
Naphthalene		X			
1,2,4-Trimethylbenzene		X			
1,3,5-Trimethylbenzene		X			
m-,p-Xylene	X	X			
O-Xylene		X			
alpha-BHC		X 0.12	X 0.10		
abeta-BHC				X 0.06	
Heptachlor		X 0.10			

The sampling data summary sheets also show Appendix II constituents detected in each well. These wells will be sampled for those Appendix II constituents detected during the December 3, 1997 sampling event along with the full Appendix I list during the next sampling event according to 15 NCAC 13B .1634 (d).

If you have any question regarding this report, please contact us at 919-772-5393.

Sincerely,
MUNICIPAL ENGINEERING SERVICES CO., P.A.

Richard R Allison
Geologist

Enclosures

4R - Cyanide 2 ppb

cc: Charles Mashburn
County Manager

Alexander County Sanitary Landfill

Table 1

HYDROLOGIC PORPERTIES AT MONITORING WELL LOCATIONS

Monitoring Well	Permeability (cm/sec)	Effective Porosity (%)	Change in Head/ Change in distance	Groundwater Flow Rate (ft/year)	Groundwater Flow Direction
1	5.60E-05	1.0%	0.057	328.8	S32W
1A	5.60E-05	15.0%	0.296	114.3	N34E
3	3.90E-06	1.0%	0.111	44.9	S25W
4R	4.90E-04	15.0%	0.067	227.9	S10W
5	6.40E-05	15.0%	0.045	20.0	S28E
6	2.40E-05	1.0%	0.066	162.8	S79W
7	1.60E-06	1.0%	0.118	19.6	S25W
8	1.30E-05	1.0%	0.0365	49.1	N78W

Note: Data for permeability and effective porosity obtained from GAI Consultants Sampling Report (April, 1995).
Other data obtained from December 3, 1997 sampling event.

Appendix 2

ALEXANDER COUNTY: MONITORING WELL #1 (OLD)					
		SAMPLE #1			
CONSTITUENT	NC GW STND (mg/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
Cyanide, Total					
Sulfide					
Mercury					
Tin					
	NC GW STND (ug/L)				
Acetonitrile					
Acrlein					
Allyl chloride					
Bromobenzene					
2-Butanone					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
Chloroprene					
1,2-Dibromo-3-chloropropane					
1,3-Dichlorobenzene					
1,3-Dicholoropropane					
2,2-Dicholoropropane					
1,1-Dichloropropene					
Dichlorodifluoromethane					
Diisopropyl ether (DIPE)					
Ethyl methacrylate					
Hexachlorobutadiene					
Isobutanol					
Isopropylbenzene					
4-Isopropyltoluene					
Methacrylonitrile					
Methyl methacrylate					
Methyl-tert-butyl ether (MTBE)					
Naphthalene					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
0-Xylene					

ALEXANDER COUNTY: MONITORING WELL #1 (OLD)					
		SAMPLE #1			
HERBICIDES	NC GW STND (ug/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
2,4-D					
Silvex					
2,4,5-T					
Dinoseb					
PESTICIDES AND PCBS					
alpha-BHC					
beta-BHC					
gamma-BHC (Lindane)					
Delta-BHC					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
Endrin					
4,4-DDD					
Endosulfan II					
4,4-DDT					
4,4-DDE					
Endrin aldehyde					
Endosulfan sulfate					
Methoxychlor					
Toxaphene					
Chlordane (tech)					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
0-Xylene					

Appendix 2

ALEXANDER COUNTY: MONITORING WELL #1A (NEW)					
		SAMPLE #1			
CONSTITUENT	NC GW STND (mg/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
Cyanide, Total					
Sulfide					
Mercury		0.0004			
Tin					
	NC GW STND (ug/L)				
Acetonitrile					
Acrlein					
Allyl chloride					
Bromobenzene					
2-Butanone					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
Chloroprene					
1,2-Dibromo-3-chloropropane					
1,3-Dichlorobenzene					
1,3-Dicholoropropane					
2,2-Dicholoropropane					
1,1-Dichloropropene					
Dichlorodifluoromethane					
Diisopropyl ether (DIPE)					
Ethyl methacrylate					
Hexachlorobutadiene					
Isobutanol					
Isopropylbenzene					
4-Isopropyltoluene					
Methacrylonitrile					
Methyl methacrylate					
Methyl-tert-butyl ether (MTBE)					
Naphthalene					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene		3.0000			
0-Xylene					

ALEXANDER COUNTY: MONITORING WELL #1A (NEW)					
		SAMPLE #1			
HERBICIDES	NC GW STND (ug/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
2,4-D					
Silvex					
2,4,5-T					
Dinoseb					
PESTICIDES AND PCBS					
alpha-BHC					
beta-BHC					
gamma-BHC (Lindane)					
Delta-BHC					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
Endrin					
4,4-DDD					
Endosulfan II					
4,4-DDT					
4,4-DDE					
Endrin aldehyde					
Endosulfan sulfate					
Methoxychlor					
Toxaphene					
Chlordane (tech)					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
0-Xylene					

Appendix 2

ALEXANDER COUNTY: MONITORING WELL #3 (OLD)					
		SAMPLE #1			
CONSTITUENT	NC GW STND (mg/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
Cyanide, Total					
Sulfide					
Mercury					
Tin					
	NC GW STND (ug/L)				
Acetonitrile					
Acrlein					
Allyl chloride					
Bromobenzene					
2-Butanone					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
Chloroprene					
1,2-Dibromo-3-chloropropane					
1,3-Dichlorobenzene					
1,3-Dicholoropropane					
2,2-Dicholoropropane					
1,1-Dichloropropene					
Dichlorodifluoromethane					
Diisopropyl ether (DIPE)					
Ethyl methacrylate					
Hexachlorobutadiene					
Isobutanol		2.0000			
Isopropylbenzene					
4-Isopropyltoluene					
Methacrylonitrile					
Methyl methacrylate		35.0000			
Methyl-tert-butyl ether (MTBE)		14.0000			
Naphthalene		7.0000			
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene		5.0000			
1,3,5-Trimethylbenzene		2.0000			
m-,p-Xylene		8.0000			
0-Xylene		3.0000			

ALEXANDER COUNTY: MONITORING WELL #3 (OLD)					
		SAMPLE #1			
HERBICIDES	NC GW STND (ug/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
2,4-D					
Silvex					
2,4,5-T					
Dinoseb					
PESTICIDES AND PCBS					
alpha-BHC		0.1200			
beta-BHC					
gamma-BHC (Lindane)					
Delta-BHC					
Heptachlor		0.1000			
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
Endrin					
4,4-DDD					
Endosulfan II					
4,4-DDT					
4,4-DDE					
Endrin aldehyde					
Endosulfan sulfate					
Methoxychlor					
Toxaphene					
Chlordane (tech)					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
0-Xylene					

Appendix 2

ALEXANDER COUNTY: MONITORING WELL #4R (NEW)					
		SAMPLE #1			
CONSTITUENT	NC GW STND (mg/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
Cyanide, Total					
Sulfide					
Mercury					
Tin					
	NC GW STND (ug/L)				
Acetonitrile					
Acrlein					
Allyl chloride					
Bromobenzene					
2-Butanone					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
Chloroprene					
1,2-Dibromo-3-chloropropane					
1,3-Dichlorobenzene					
1,3-Dicholoropropane					
2,2-Dicholoropropane					
1,1-Dichloropropene					
Dichlorodifluoromethane					
Diisopropyl ether (DIPE)					
Ethyl methacrylate					
Hexachlorobutadiene					
Isobutanol					
Isopropylbenzene					
4-Isopropyltoluene					
Methacrylonitrile					
Methyl methacrylate					
Methyl-tert-butyl ether (MTBE)					
Naphthalene					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
0-Xylene					

ALEXANDER COUNTY: MONITORING WELL #R (NEW)					
		SAMPLE #1			
HERBICIDES	NC GW STND (ug/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
2,4-D					
Silvex					
2,4,5-T					
Dinoseb					
PESTICIDES AND PCBS					
alpha-BHC		0.1000			
beta-BHC					
gamma-BHC (Lindane)					
Delta-BHC					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
Endrin					
4,4-DDD					
Endosulfan II					
4,4-DDT					
4,4-DDE					
Endrin aldehyde					
Endosulfan sulfate					
Methoxychlor					
Toxaphene					
Chlordane (tech)					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
0-Xylene					

Appendix 2

ALEXANDER COUNTY: MONITORING WELL #5 (NEW)					
		SAMPLE #1			
CONSTITUENT	NC GW STND (mg/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
Cyanide, Total					
Sulfide					
Mercury					
Tin					
	NC GW STND (ug/L)				
Acetonitrile					
Acrlein					
Allyl chloride					
Bromobenzene					
2-Butanone					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
Chloroprene					
1,2-Dibromo-3-chloropropane					
1,3-Dichlorobenzene					
1,3-Dicholoropropane					
2,2-Dicholoropropane					
1,1-Dichloropropene					
Dichlorodifluoromethane					
Diisopropyl ether (DIPE)					
Ethyl methacrylate					
Hexachlorobutadiene					
Isobutanol					
Isopropylbenzene					
4-Isopropyltoluene					
Methacrylonitrile					
Methyl methacrylate					
Methyl-tert-butyl ether (MTBE)					
Naphthalene					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
0-Xylene					

ALEXANDER COUNTY: MONITORING WELL #5 (NEW)					
		SAMPLE #1			
HERBICIDES	NC GW STND (ug/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
2,4-D					
Silvex					
2,4,5-T					
Dinoseb					
PESTICIDES AND PCBS					
alpha-BHC					
beta-BHC					
gamma-BHC (Lindane)					
Delta-BHC					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
Endrin					
4,4-DDD					
Endosulfan II					
4,4-DDT					
4,4-DDE					
Endrin aldehyde					
Endosulfan sulfate					
Methoxychlor					
Toxaphene					
Chlordane (tech)					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
O-Xylene					

Appendix 2

ALEXANDER COUNTY: MONITORING WELL #6 (NEW)					
		SAMPLE #1			
CONSTITUENT	NC GW STND (mg/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
Cyanide, Total					
Sulfide					
Mercury					
Tin					
	NC GW STND (ug/L)				
Acetonitrile					
Acrlein					
Allyl chloride					
Bromobenzene					
2-Butanone					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
Chloroprene					
1,2-Dibromo-3-chloropropane					
1,3-Dichlorobenzene					
1,3-Dicholoropropane					
2,2-Dicholoropropane					
1,1-Dichloropropene					
Dichlorodifluoromethane					
Diisopropyl ether (DIPE)					
Ethyl methacrylate					
Hexachlorobutadiene					
Isobutanol					
Isopropylbenzene					
4-Isopropyltoluene					
Methacrylonitrile					
Methyl methacrylate					
Methyl-tert-butyl ether (MTBE)					
Naphthalene					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
0-Xylene					

ALEXANDER COUNTY: MONITORING WELL #6 (NEW)					
		SAMPLE #1			
HERBICIDES	NC GW STND (ug/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
2,4-D					
Silvex					
2,4,5-T					
Dinoseb					
PESTICIDES AND PCBS					
alpha-BHC					
beta-BHC		0.0600			
gamma-BHC (Lindane)					
Delta-BHC					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
Endrin					
4,4-DDD					
Endosulfan II					
4,4-DDT					
4,4-DDE					
Endrin aldehyde					
Endosulfan sulfate					
Methoxychlor					
Toxaphene					
Chlordane (tech)					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
O-Xylene					

Appendix 2

ALEXANDER COUNTY: MONITORING WELL #7 (NEW)					
		SAMPLE #1			
CONSTITUENT	NC GW STND (mg/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
Cyanide, Total					
Sulfide					
Mercury					
Tin					
	NC GW STND (ug/L)				
Acetonitrile					
Acrlein					
Allyl chloride					
Bromobenzene					
2-Butanone					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
Chloroprene					
1,2-Dibromo-3-chloropropane					
1,3-Dichlorobenzene					
1,3-Dicholoropropane					
2,2-Dicholoropropane					
1,1-Dichloropropene					
Dichlorodifluoromethane					
Diisopropyl ether (DIPE)					
Ethyl methacrylate					
Hexachlorobutadiene					
Isobutanol					
Isopropylbenzene					
4-Isopropyltoluene					
Methacrylonitrile					
Methyl methacrylate					
Methyl-tert-butyl ether (MTBE)		2.0000			
Naphthalene					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
O-Xylene					

ALEXANDER COUNTY: MONITORING WELL #7 (NEW)					
		SAMPLE #1			
HERBICIDES	NC GW STND (ug/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
2,4-D					
Silvex					
2,4,5-T					
Dinoseb					
PESTICIDES AND PCBS					
alpha-BHC					
beta-BHC					
gamma-BHC (Lindane)					
Delta-BHC					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
Endrin					
4,4-DDD					
Endosulfan II					
4,4-DDT					
4,4-DDE					
Endrin aldehyde					
Endosulfan sulfate					
Methoxychlor					
Toxaphene					
Chlordane (tech)					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
0-Xylene					

Appendix 2

ALEXANDER COUNTY: MONITORING WELL #8 (NEW)					
		SAMPLE #1			
CONSTITUENT	NC GW STND (mg/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
Cyanide, Total					
Sulfide					
Mercury					
Tin					
	NC GW STND (ug/L)				
Acetonitrile					
Acrlein					
Allyl chloride					
Bromobenzene					
2-Butanone					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
Chloroprene					
1,2-Dibromo-3-chloropropane					
1,3-Dichlorobenzene					
1,3-Dicholoropropane					
2,2-Dicholoropropane					
1,1-Dichloropropene					
Dichlorodifluoromethane					
Diisopropyl ether (DIPE)					
Ethyl methacrylate					
Hexachlorobutadiene					
Isobutanol					
Isopropylbenzene					
4-Isopropyltoluene					
Methacrylonitrile					
Methyl methacrylate					
Methyl-tert-butyl ether (MTBE)					
Naphthalene					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
0-Xylene					

ALEXANDER COUNTY: MONITORING WELL #8 (NEW)					
		SAMPLE #1			
HERBICIDES	NC GW STND (ug/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
2,4-D					
Silvex					
2,4,5-T					
Dinoseb					
PESTICIDES AND PCBS					
alpha-BHC					
beta-BHC					
gamma-BHC (Lindane)					
Delta-BHC					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
Endrin					
4,4-DDD					
Endosulfan II					
4,4-DDT					
4,4-DDE					
Endrin aldehyde					
Endosulfan sulfate					
Methoxychlor					
Toxaphene					
Chlordane (tech)					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
0-Xylene					

Appendix 2

ALEXANDER COUNTY: MONITORING SURFACE #SW3					
		SAMPLE #1			
CONSTITUENT	NC GW STND (mg/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
Cyanide, Total					
Sulfide					
Mercury					
Tin					
	NC GW STND (ug/L)				
Acetonitrile					
Acrlein					
Allyl chloride					
Bromobenzene					
2-Butanone					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
Chloroprene					
1,2-Dibromo-3-chloropropane					
1,3-Dichlorobenzene					
1,3-Dicholoropropane					
2,2-Dicholoropropane					
1,1-Dichloropropene					
Dichlorodifluoromethane					
Diisopropyl ether (DIPE)					
Ethyl methacrylate					
Hexachlorobutadiene					
Isobutanol					
Isopropylbenzene					
4-Isopropyltoluene					
Methacrylonitrile					
Methyl methacrylate					
Methyl-tert-butyl ether (MTBE)					
Naphthalene					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
O-Xylene					

ALEXANDER COUNTY: MONITORING SURFACE #SW3					
		SAMPLE #1			
HERBICIDES	NC GW STND (ug/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
2,4-D					
Silvex					
2,4,5-T					
Dinoseb					
PESTICIDES AND PCBS					
alpha-BHC					
beta-BHC					
gamma-BHC (Lindane)					
Delta-BHC					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
Endrin					
4,4-DDD					
Endosulfan II					
4,4-DDT					
4,4-DDE					
Endrin aldehyde					
Endosulfan sulfate					
Methoxychlor					
Toxaphene					
Chlordane (tech)					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
O-Xylene					

Appendix 2

ALEXANDER COUNTY: MONITORING SURFACE #SW5					
		SAMPLE #1			
CONSTITUENT	NC GW STND (mg/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
Cyanide, Total					
Sulfide					
Mercury					
Tin					
	NC GW STND (ug/L)				
Acetonitrile					
Acrlein					
Allyl chloride					
Bromobenzene					
2-Butanone					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
2-Chlorotoluene					
4-Chlorotoluene					
Chloroprene					
1,2-Dibromo-3-chloropropane					
1,3-Dichlorobenzene					
1,3-Dicholoropropane					
2,2-Dicholoropropane					
1,1-Dichloropropene					
Dichlorodifluoromethane					
Diisopropyl ether (DIPE)					
Ethyl methacrylate					
Hexachlorobutadiene					
Isobutanol					
Isopropylbenzene					
4-Isopropyltoluene					
Methacrylonitrile					
Methyl methacrylate					
Methyl-tert-butyl ether (MTBE)					
Naphthalene					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
0-Xylene					

ALEXANDER COUNTY: MONITORING SURFACE #SW5					
		SAMPLE #1			
HERBICIDES	NC GW STND (ug/L)	12/3/97	STANDARD DEVIATION	MEAN	MEDIAN
2,4-D					
Silvex					
2,4,5-T					
Dinoseb					
PESTICIDES AND PCBS					
alpha-BHC					
beta-BHC					
gamma-BHC (Lindane)					
Delta-BHC					
Heptachlor					
Aldrin					
Heptachlor epoxide					
Endosulfan I					
Dieldrin					
Endrin					
4,4-DDD					
Endosulfan II					
4,4-DDT					
4,4-DDE					
Endrin aldehyde					
Endosulfan sulfate					
Methoxychlor					
Toxaphene					
Chlordane (tech)					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					
Propionitrile					
n-Propyl benzene					
1,2,3-Trichlorobenzene					
1,2,4-Trichlorobenzene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
m-,p-Xylene					
0-Xylene					

Sampling Field Data Sheet

PROJECT: Alexander County
FIELD DATA SHEET G970430

SAMPLERS: Rick Allison
Jim Skinner

MONITORING PT. NUMBER	SAMPLE NUMBER	DATE OF COLLECT.	TIME SAMPLED	SAMPLING PARAMETERS: DTH-G.W.	REF. PT.	VOL. PUR.	SAMP. TY.	SAMP. DTH	WATER QUALITY PARAMETERS: pH	TEMP.	SP. COND	stickup	WELL DEPTH
MW-1		12/3/97	10:00	35.61	T.O.P.	3 gal			6.20	15.5	290	2.30	40.0
MW-1a		12/3/97	4:20	46.35		2 gal			5.45	15.1	20	2.10	48.5
MW-3		12/3/97	2:40	25.63		4 gal			6.10	16.1	340	1.0	33.0
MW-4R		12/3/97	3:00	15.79		9 gal			5.85	16.8	330	3.90	21.5
MW-5		12/3/97	3:40	39.43		6 gal			6.19	15.4	180	2.20	49.1
MW-6		12/3/97	11:35	37.92		6 gal			5.61	14.5	80	2.70	42.0
MW-7		12/3/97	1:00	39.92		8 gal			6.61	14.7	380	3.60	54.0
MW-8		12/3/97	10:50	12.85		9 gal			5.69	14.9	70	3.20	28.5
SW-3 ?		[redacted]	[redacted]	—	—	—	—	—	6.84	12.4	120	—	—
SW-5 ?		12/3/97	2:00	—	—	—	—	—	6.30	12.5	120	—	—
Equip. Blank		12/3/97	4:10	—	—	—	—	—	—	—	—	—	—
Field Blank		12/3/97	4:10	—	—	—	—	—	—	—	—	—	—

COMMENTS

MW-3 WENT DRY, COULD NOT FILL ALL 6 GLASS LITERS/ONLY GOT 3

Pace Analytical

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December 22, 1997

DEC 23 1997

Mr. Rick Allison
Municipal Engineering Services Co., P.A.
P.O. Box 97
Garner, NC 27529

RE: PACE Project No. 671204.513
Client Reference: Alexander/G97043.0

Dear Mr. Allison:

Enclosed is the report of laboratory analyses for samples received December 04, 1997.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Ashley Nifong
Project Manager

Enclosures

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Pace Analytical

Municipal Engineering Services Co., P.A.
P.O. Box 97
Garner, NC 27529

December 22, 1997
PACE Project Number: 671204513

Attn: Mr. Rick Allison

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247108		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-1		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Cyanide, Total	mg/L	0.002	ND	335.3	12/09/97
Sulfide	mg/L	0.05	ND	376.2	12/05/97
APPENDIX II, LANDFILL METALS				SW 846	
Mercury	mg/L	0.0002	ND		12/16/97
Antimony	mg/L	0.005	ND		12/10/97
Arsenic	mg/L	0.005	ND		12/16/97
Barium	mg/L	0.010	0.086		12/10/97
Beryllium	mg/L	0.001	ND		12/11/97
Cadmium	mg/L	0.001	ND		12/10/97
Chromium	mg/L	0.002	0.025		12/15/97
Cobalt	mg/L	0.002	0.012		12/16/97
Copper	mg/L	0.010	0.043		12/10/97
Lead	mg/L	0.005	0.008		12/08/97
Nickel	mg/L	0.05	ND		12/10/97
Selenium	mg/L	0.005	ND		12/10/97
Silver	mg/L	0.002	ND		12/09/97
Thallium	mg/L	0.002	ND		12/09/97
Tin	mg/L	0.02	ND		12/08/97
Vanadium	mg/L	0.005	0.034		12/10/97
Zinc	mg/L	0.010	0.080		12/10/97
ORGANIC ANALYSIS					
APPENDIX II, HERBICIDES				8150	
2,4-D	ug/L	2.0	ND		12/09/97
Silvex	ug/L	2.0	ND		12/09/97
2,4,5-T	ug/L	2.0	ND		12/09/97
Dinoseb	ug/L	1.0	ND		12/09/97
Date Extracted	Date		120897		12/08/97

Laboratory Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006

REPORT OF LABORATORY ANALYSIS

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KY Drinking Water 90090
TN UST List
VA Drinking Water 213

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Pace Analytical

Mr. Rick Allison
Page 2

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247108		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-1		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX II, PESTICIDES AND PCBS				8080	
alpha-BHC	ug/L	0.05	ND		12/12/97
beta-BHC	ug/L	0.05	ND		12/12/97
gamma-BHC (Lindane)	ug/L	0.05	ND		12/12/97
Delta-BHC	ug/L	0.05	ND		12/12/97
Heptachlor	ug/L	0.05	ND		12/12/97
Aldrin	ug/L	0.05	ND		12/12/97
Heptachlor epoxide	ug/L	0.10	ND		12/12/97
Endosulfan I	ug/L	0.1	ND		12/12/97
Dieldrin	ug/L	0.02	ND		12/12/97
Endrin	ug/L	0.06	ND		12/12/97
4,4-DDD	ug/L	0.1	ND		12/12/97
Endosulfan II	ug/L	0.1	ND		12/12/97
4,4-DDT	ug/L	0.1	ND		12/12/97
4,4-DDE	ug/L	0.1	ND		12/12/97
Endrin aldehyde	ug/L	0.1	ND		12/12/97
Endosulfan sulfate	ug/L	0.1	ND		12/12/97
Methoxychlor	ug/L	0.5	ND		12/12/97
Toxaphene	ug/L	2.0	ND		12/12/97
Chlordane (tech)	ug/L	0.2	ND		12/12/97
Aroclor-1016	ug/L	1.0	ND		12/12/97
Aroclor-1221	ug/L	1.0	ND		12/12/97
Aroclor-1232	ug/L	1.0	ND		12/12/97
Aroclor-1242	ug/L	1.0	ND		12/12/97
Aroclor-1248	ug/L	1.0	ND		12/12/97
Aroclor-1254	ug/L	1.0	ND		12/12/97
Aroclor-1260	ug/L	1.0	ND		12/12/97
Date Extracted, Pesticides & PCBs	Date		120997		12/09/97

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Mr. Rick Allison
Page 3

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Parameter	Units	PRL		METHOD	DATE ANALYZED
PACE Sample Number:			92 0247116		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-1a		
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Cyanide, Total	mg/L	0.002	ND	335.3	12/09/97
Sulfide	mg/L	0.05	ND	376.2	12/05/97
APPENDIX II, LANDFILL METALS				SW 846	
Mercury	mg/L	0.0002	0.0004		12/16/97
Antimony	mg/L	0.005	ND		12/10/97
Arsenic	mg/L	0.005	ND		12/16/97
Barium	mg/L	0.010	0.29		12/10/97
Beryllium	mg/L	0.001	0.001		12/11/97
Cadmium	mg/L	0.001	ND		12/10/97
Chromium	mg/L	0.004	0.074		12/15/97
Cobalt	mg/L	0.002	0.036		12/16/97
Copper	mg/L	0.010	0.068		12/10/97
Lead	mg/L	0.005	0.025		12/08/97
Nickel	mg/L	0.05	0.053		12/10/97
Selenium	mg/L	0.005	ND		12/10/97
Silver	mg/L	0.002	ND		12/09/97
Thallium	mg/L	0.002	ND		12/09/97
Tin	mg/L	0.02	ND		12/08/97
Vanadium	mg/L	0.010	0.085		12/10/97
Zinc	mg/L	0.010	0.093		12/10/97
ORGANIC ANALYSIS					
APPENDIX II, HERBICIDES				8150	
2,4-D	ug/L	2.0	ND		12/09/97
Silvex	ug/L	2.0	ND		12/09/97
2,4,5-T	ug/L	2.0	ND		12/09/97
Dinoseb	ug/L	1.0	ND		12/09/97
Date Extracted	Date		120997		12/09/97
APPENDIX II, PESTICIDES AND PCBS				8080	
alpha-BHC	ug/L	0.05	ND		12/12/97
beta-BHC	ug/L	0.05	ND		12/12/97

Laboratory Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006

REPORT OF LABORATORY ANALYSIS

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Mr. Rick Allison
Page 4

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247116		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-1a		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX II, PESTICIDES AND PCBS				8080	
gamma-BHC (Lindane)	ug/L	0.05	ND		12/12/97
Delta-BHC	ug/L	0.05	ND		12/12/97
Heptachlor	ug/L	0.05	ND		12/12/97
Aldrin	ug/L	0.05	ND		12/12/97
Heptachlor epoxide	ug/L	0.10	ND		12/12/97
Endosulfan I	ug/L	0.1	ND		12/12/97
Dieldrin	ug/L	0.02	ND		12/12/97
Endrin	ug/L	0.06	ND		12/12/97
4,4-DDD	ug/L	0.1	ND		12/12/97
Endosulfan II	ug/L	0.1	ND		12/12/97
4,4-DDT	ug/L	0.1	ND		12/12/97
4,4-DDE	ug/L	0.1	ND		12/12/97
Endrin aldehyde	ug/L	0.1	ND		12/12/97
Endosulfan sulfate	ug/L	0.1	ND		12/12/97
Methoxychlor	ug/L	0.5	ND		12/12/97
Toxaphene	ug/L	2.0	ND		12/12/97
Chlordane (tech)	ug/L	0.2	ND		12/12/97
Aroclor-1016	ug/L	1.0	ND		12/12/97
Aroclor-1221	ug/L	1.0	ND		12/12/97
Aroclor-1232	ug/L	1.0	ND		12/12/97
Aroclor-1242	ug/L	1.0	ND		12/12/97
Aroclor-1248	ug/L	1.0	ND		12/12/97
Aroclor-1254	ug/L	1.0	ND		12/12/97
Aroclor-1260	ug/L	1.0	ND		12/12/97
Date Extracted, Pesticides & PCBs	Date		120997		12/09/97

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Pace Analytical

Mr. Rick Allison

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247124		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-3		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Cyanide, Total	mg/L	0.002	ND	335.3	12/09/97
Sulfide	mg/L	0.05	ND	376.2	12/05/97
APPENDIX II, LANDFILL METALS				SW 846	
Mercury	mg/L	0.0002	ND		12/16/97
Antimony	mg/L	0.005	ND		12/10/97
Arsenic	mg/L	0.005	ND		12/16/97
Barium	mg/L	0.010	0.44		12/10/97
Beryllium	mg/L	0.001	0.005		12/11/97
Cadmium	mg/L	0.001	ND		12/10/97
Chromium	mg/L	0.008	0.14		12/15/97
Cobalt	mg/L	0.002	0.037		12/16/97
Copper	mg/L	0.010	0.10		12/10/97
Lead	mg/L	0.010	0.10		12/08/97
Nickel	mg/L	0.05	1.2		12/10/97
Selenium	mg/L	0.005	ND		12/10/97
Silver	mg/L	0.002	ND		12/09/97
Thallium	mg/L	0.002	ND		12/09/97
Tin	mg/L	0.02	ND		12/08/97
Vanadium	mg/L	0.015	0.11		12/10/97
Zinc	mg/L	0.010	0.14		12/10/97
ORGANIC ANALYSIS					
APPENDIX II, HERBICIDES				8150	
2,4-D	ug/L	2.0	ND		12/09/97
Silvex	ug/L	2.0	ND		12/09/97
2,4,5-T	ug/L	2.0	ND		12/09/97
Dinoseb	ug/L	1.0	ND		12/09/97
Date Extracted	Date		120997		12/09/97
APPENDIX II, PESTICIDES AND PCBS				8080	
alpha-BHC	ug/L	0.05	0.12 (1)		12/12/97
beta-BHC	ug/L	0.05	ND		12/12/97

Laboratory Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006

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Pace Analytical

Mr. Rick Allison
Page 6

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247124		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-3		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX II, PESTICIDES AND PCBS				8080	
gamma-BHC (Lindane)	ug/L	0.05	ND		12/12/97
Delta-BHC	ug/L	0.05	ND		12/12/97
Heptachlor	ug/L	0.05	0.10 CO		12/12/97
Aldrin	ug/L	0.05	ND		12/12/97
Heptachlor epoxide	ug/L	0.10	ND		12/12/97
Endosulfan I	ug/L	0.1	ND		12/12/97
Dieldrin	ug/L	0.02	ND		12/12/97
Endrin	ug/L	0.06	ND		12/12/97
4,4-DDD	ug/L	0.1	ND		12/12/97
Endosulfan II	ug/L	0.1	ND		12/12/97
4,4-DDT	ug/L	0.1	ND		12/12/97
4,4-DDE	ug/L	0.1	ND		12/12/97
Endrin aldehyde	ug/L	0.1	ND		12/12/97
Endosulfan sulfate	ug/L	0.1	ND		12/12/97
Methoxychlor	ug/L	0.5	ND		12/12/97
Toxaphene	ug/L	2.0	ND		12/12/97
Chlordane (tech)	ug/L	0.2	ND		12/12/97
Aroclor-1016	ug/L	1.0	ND		12/12/97
Aroclor-1221	ug/L	1.0	ND		12/12/97
Aroclor-1232	ug/L	1.0	ND		12/12/97
Aroclor-1242	ug/L	1.0	ND		12/12/97
Aroclor-1248	ug/L	1.0	ND		12/12/97
Aroclor-1254	ug/L	1.0	ND		12/12/97
Aroclor-1260	ug/L	1.0	ND		12/12/97
Date Extracted, Pesticides & PCBs	Date		120997		12/09/97

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December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247132		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-4r		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Cyanide, Total	mg/L	0.002	0.002	335.3	12/09/97
Sulfide	mg/L	0.05	ND	376.2	12/05/97
APPENDIX II, LANDFILL METALS				SW 846	
Mercury	mg/L	0.0002	ND		12/16/97
Antimony	mg/L	0.005	ND		12/10/97
Arsenic	mg/L	0.005	ND		12/16/97
Barium	mg/L	0.010	0.20		12/10/97
Beryllium	mg/L	0.001	0.002		12/11/97
Cadmium	mg/L	0.002	0.010		12/10/97
Chromium	mg/L	0.002	0.030		12/11/97
Cobalt	mg/L	0.020	0.45		12/16/97
Copper	mg/L	0.010	0.037		12/10/97
Lead	mg/L	0.005	0.016		12/08/97
Nickel	mg/L	0.05	0.050		12/10/97
Selenium	mg/L	0.005	ND		12/10/97
Silver	mg/L	0.002	ND		12/09/97
Thallium	mg/L	0.002	ND		12/09/97
Tin	mg/L	0.02	ND		12/08/97
Vanadium	mg/L	0.005	0.045		12/10/97
Zinc	mg/L	0.010	0.10		12/10/97
ORGANIC ANALYSIS					
APPENDIX II, HERBICIDES				8150	
2,4-D	ug/L	2.0	ND		12/09/97
Silvex	ug/L	2.0	ND		12/09/97
2,4,5-T	ug/L	2.0	ND		12/09/97
Dinoseb	ug/L	1.0	ND		12/09/97
Date Extracted	Date		120997		12/09/97
APPENDIX II, PESTICIDES AND PCBS				8080	
alpha-BHC	ug/L	0.05	0.10 CO		12/12/97
beta-BHC	ug/L	0.05	ND		12/12/97

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December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247132		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-4r		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX II, PESTICIDES AND PCBS				8080	
gamma-BHC (Lindane)	ug/L	0.05	ND		12/12/97
Delta-BHC	ug/L	0.05	ND		12/12/97
Heptachlor	ug/L	0.05	ND		12/12/97
Aldrin	ug/L	0.05	ND		12/12/97
Heptachlor epoxide	ug/L	0.10	ND		12/12/97
Endosulfan I	ug/L	0.1	ND		12/12/97
Dieldrin	ug/L	0.02	ND		12/12/97
Endrin	ug/L	0.06	ND		12/12/97
4,4-DDD	ug/L	0.1	ND		12/12/97
Endosulfan II	ug/L	0.1	ND		12/12/97
4,4-DDT	ug/L	0.1	ND		12/12/97
4,4-DDE	ug/L	0.1	ND		12/12/97
Endrin aldehyde	ug/L	0.1	ND		12/12/97
Endosulfan sulfate	ug/L	0.1	ND		12/12/97
Methoxychlor	ug/L	0.5	ND		12/12/97
Toxaphene	ug/L	2.0	ND		12/12/97
Chlordane (tech)	ug/L	0.2	ND		12/12/97
Aroclor-1016	ug/L	1.0	ND		12/12/97
Aroclor-1221	ug/L	1.0	ND		12/12/97
Aroclor-1232	ug/L	1.0	ND		12/12/97
Aroclor-1242	ug/L	1.0	ND		12/12/97
Aroclor-1248	ug/L	1.0	ND		12/12/97
Aroclor-1254	ug/L	1.0	ND		12/12/97
Aroclor-1260	ug/L	1.0	ND		12/12/97
Date Extracted, Pesticides & PCBs	Date		120997		12/09/97

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December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247140		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-5		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Cyanide, Total	mg/L	0.002	ND	335.3	12/09/97
Sulfide	mg/L	0.05	ND	376.2	12/05/97
APPENDIX II, LANDFILL METALS				SW 846	
Mercury	mg/L	0.0002	ND		12/16/97
Antimony	mg/L	0.005	ND		12/10/97
Arsenic	mg/L	0.005	0.006		12/16/97
Barium	mg/L	0.010	0.72		12/10/97
Beryllium	mg/L	0.004	0.016		12/11/97
Cadmium	mg/L	0.001	0.001		12/10/97
Chromium	mg/L	0.040	0.72		12/11/97
Cobalt	mg/L	0.020	0.35		12/16/97
Copper	mg/L	0.010	0.27		12/10/97
Lead	mg/L	0.005	0.050		12/08/97
Nickel	mg/L	0.05	0.30		12/10/97
Selenium	mg/L	0.005	ND		12/10/97
Silver	mg/L	0.002	ND		12/09/97
Thallium	mg/L	0.002	ND		12/09/97
Tin	mg/L	0.02	ND		12/08/97
Vanadium	mg/L	0.050	0.48		12/10/97
Zinc	mg/L	0.010	0.86		12/10/97
ORGANIC ANALYSIS					
APPENDIX II, HERBICIDES				8150	
2,4-D	ug/L	2.0	ND		12/09/97
Silvex	ug/L	2.0	ND		12/09/97
2,4,5-T	ug/L	2.0	ND		12/09/97
Dinoseb	ug/L	1.0	ND		12/09/97
Date Extracted	Date		120997		12/09/97
APPENDIX II, PESTICIDES AND PCBS				8080	
alpha-BHC	ug/L	0.05	ND		12/12/97
beta-BHC	ug/L	0.05	ND		12/12/97

Laboratory Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006

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TN UST List
VA Drinking Water 213

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December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247140		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-5		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX II, PESTICIDES AND PCBS				8080	
gamma-BHC (Lindane)	ug/L	0.05	ND		12/12/97
Delta-BHC	ug/L	0.05	ND		12/12/97
Heptachlor	ug/L	0.05	ND		12/12/97
Aldrin	ug/L	0.05	ND		12/12/97
Heptachlor epoxide	ug/L	0.10	ND		12/12/97
Endosulfan I	ug/L	0.1	ND		12/12/97
Dieldrin	ug/L	0.02	ND		12/12/97
Endrin	ug/L	0.06	ND		12/12/97
4,4-DDD	ug/L	0.1	ND		12/12/97
Endosulfan II	ug/L	0.1	ND		12/12/97
4,4-DDT	ug/L	0.1	ND		12/12/97
4,4-DDE	ug/L	0.1	ND		12/12/97
Endrin aldehyde	ug/L	0.1	ND		12/12/97
Endosulfan sulfate	ug/L	0.1	ND		12/12/97
Methoxychlor	ug/L	0.5	ND		12/12/97
Toxaphene	ug/L	2.0	ND		12/12/97
Chlordane (tech)	ug/L	0.2	ND		12/12/97
Aroclor-1016	ug/L	1.0	ND		12/12/97
Aroclor-1221	ug/L	1.0	ND		12/12/97
Aroclor-1232	ug/L	1.0	ND		12/12/97
Aroclor-1242	ug/L	1.0	ND		12/12/97
Aroclor-1248	ug/L	1.0	ND		12/12/97
Aroclor-1254	ug/L	1.0	ND		12/12/97
Aroclor-1260	ug/L	1.0	ND		12/12/97
Date Extracted, Pesticides & PCBs	Date		120997		12/09/97

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December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247159		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-6		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Cyanide, Total	mg/L	0.002	ND	335.3	12/09/97
Sulfide	mg/L	0.05	ND	376.2	12/05/97
APPENDIX II, LANDFILL METALS				SW 846	
Mercury	mg/L	0.0002	0.0007		12/16/97
Antimony	mg/L	0.005	ND		12/10/97
Arsenic	mg/L	0.005	ND		12/16/97
Barium	mg/L	0.010	1.3		12/10/97
Beryllium	mg/L	0.001	0.003		12/11/97
Cadmium	mg/L	0.001	ND		12/10/97
Chromium	mg/L	0.008	0.21		12/11/97
Cobalt	mg/L	0.004	0.088		12/16/97
Copper	mg/L	0.010	0.065		12/10/97
Lead	mg/L	0.005	0.023		12/08/97
Nickel	mg/L	0.05	0.13		12/10/97
Selenium	mg/L	0.005	ND		12/10/97
Silver	mg/L	0.002	ND		12/09/97
Thallium	mg/L	0.002	ND		12/09/97
Tin	mg/L	0.02	ND		12/08/97
Vanadium	mg/L	0.025	0.018		12/10/97
Zinc	mg/L	0.010	0.18		12/10/97
ORGANIC ANALYSIS					
APPENDIX II, HERBICIDES				8150	
2,4-D	ug/L	2.0	ND		12/09/97
Silvex	ug/L	2.0	ND		12/09/97
2,4,5-T	ug/L	2.0	ND		12/09/97
Dinoseb	ug/L	1.0	ND		12/09/97
Date Extracted	Date		120997		12/09/97
APPENDIX II, PESTICIDES AND PCBS				8080	
alpha-BHC	ug/L	0.05	ND		12/12/97
beta-BHC	ug/L	0.05	0.06 CO		12/12/97

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December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247159		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-6		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX II, PESTICIDES AND PCBS				8080	
gamma-BHC (Lindane)	ug/L	0.05	ND		12/12/97
Delta-BHC	ug/L	0.05	ND		12/12/97
Heptachlor	ug/L	0.05	ND		12/12/97
Aldrin	ug/L	0.05	ND		12/12/97
Heptachlor epoxide	ug/L	0.10	ND		12/12/97
Endosulfan I	ug/L	0.1	ND		12/12/97
Dieldrin	ug/L	0.02	ND		12/12/97
Endrin	ug/L	0.06	ND		12/12/97
4,4-DDD	ug/L	0.1	ND		12/12/97
Endosulfan II	ug/L	0.1	ND		12/12/97
4,4-DDT	ug/L	0.1	ND		12/12/97
4,4-DDE	ug/L	0.1	ND		12/12/97
Endrin aldehyde	ug/L	0.1	ND		12/12/97
Endosulfan sulfate	ug/L	0.1	ND		12/12/97
Methoxychlor	ug/L	0.5	ND		12/12/97
Toxaphene	ug/L	2.0	ND		12/12/97
Chlordane (tech)	ug/L	0.2	ND		12/12/97
Aroclor-1016	ug/L	1.0	ND		12/12/97
Aroclor-1221	ug/L	1.0	ND		12/12/97
Aroclor-1232	ug/L	1.0	ND		12/12/97
Aroclor-1242	ug/L	1.0	ND		12/12/97
Aroclor-1248	ug/L	1.0	ND		12/12/97
Aroclor-1254	ug/L	1.0	ND		12/12/97
Aroclor-1260	ug/L	1.0	ND		12/12/97
Date Extracted, Pesticides & PCBs	Date		121097		12/10/97

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December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247167		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-7		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Cyanide, Total	mg/L	0.002	ND	335.3	12/09/97
Sulfide	mg/L	0.05	ND	376.2	12/05/97
APPENDIX II, LANDFILL METALS				SW 846	
Mercury	mg/L	0.0002	ND		12/16/97
Antimony	mg/L	0.005	ND		12/10/97
Arsenic	mg/L	0.005	ND		12/16/97
Barium	mg/L	0.010	0.034		12/10/97
Beryllium	mg/L	0.001	0.001		12/11/97
Cadmium	mg/L	0.001	ND		12/10/97
Chromium	mg/L	0.002	0.012		12/11/97
Cobalt	mg/L	0.002	0.008		12/16/97
Copper	mg/L	0.010	0.011		12/10/97
Lead	mg/L	0.005	0.006		12/08/97
Nickel	mg/L	0.05	ND		12/10/97
Selenium	mg/L	0.005	ND		12/10/97
Silver	mg/L	0.002	ND		12/09/97
Thallium	mg/L	0.002	ND		12/09/97
Tin	mg/L	0.02	ND		12/09/97
Vanadium	mg/L	0.005	0.017		12/11/97
Zinc	mg/L	0.010	0.058		12/10/97
ORGANIC ANALYSIS					
APPENDIX II, HERBICIDES				8150	
2,4-D	ug/L	2.0	ND		12/09/97
Silvex	ug/L	2.0	ND		12/09/97
2,4,5-T	ug/L	2.0	ND		12/09/97
Dinoseb	ug/L	1.0	ND		12/09/97
Date Extracted	Date		120997		12/09/97
APPENDIX II, PESTICIDES AND PCBS				8080	
alpha-BHC	ug/L	0.05	ND		12/12/97
beta-BHC	ug/L	0.05	ND		12/12/97

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NC Wastewater 12
NC Drinking Water 37706
SC 99006

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December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247167		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-7		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX II, PESTICIDES AND PCBS				8080	
gamma-BHC (Lindane)	ug/L	0.05	ND		12/12/97
Delta-BHC	ug/L	0.05	ND		12/12/97
Heptachlor	ug/L	0.05	ND		12/12/97
Aldrin	ug/L	0.05	ND		12/12/97
Heptachlor epoxide	ug/L	0.10	ND		12/12/97
Endosulfan I	ug/L	0.1	ND		12/12/97
Dieldrin	ug/L	0.02	ND		12/12/97
Endrin	ug/L	0.06	ND		12/12/97
4,4-DDD	ug/L	0.1	ND		12/12/97
Endosulfan II	ug/L	0.1	ND		12/12/97
4,4-DDT	ug/L	0.1	ND		12/12/97
4,4-DDE	ug/L	0.1	ND		12/12/97
Endrin aldehyde	ug/L	0.1	ND		12/12/97
Endosulfan sulfate	ug/L	0.1	ND		12/12/97
Methoxychlor	ug/L	0.5	ND		12/12/97
Toxaphene	ug/L	2.0	ND		12/12/97
Chlordane (tech)	ug/L	0.2	ND		12/12/97
Aroclor-1016	ug/L	1.0	ND		12/12/97
Aroclor-1221	ug/L	1.0	ND		12/12/97
Aroclor-1232	ug/L	1.0	ND		12/12/97
Aroclor-1242	ug/L	1.0	ND		12/12/97
Aroclor-1248	ug/L	1.0	ND		12/12/97
Aroclor-1254	ug/L	1.0	ND		12/12/97
Aroclor-1260	ug/L	1.0	ND		12/12/97
Date Extracted, Pesticides & PCBs	Date		121097		12/10/97

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December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247175		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-8		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Cyanide, Total	mg/L	0.002	ND	335.3	12/09/97
Sulfide	mg/L	0.05	ND	376.2	12/05/97
APPENDIX II, LANDFILL METALS				SW 846	
Mercury	mg/L	0.0002	ND		12/16/97
Antimony	mg/L	0.005	ND		12/10/97
Arsenic	mg/L	0.005	ND		12/16/97
Barium	mg/L	0.010	0.20		12/10/97
Beryllium	mg/L	0.001	ND		12/11/97
Cadmium	mg/L	0.001	ND		12/10/97
Chromium	mg/L	0.002	0.033		12/11/97
Cobalt	mg/L	0.002	0.015		12/16/97
Copper	mg/L	0.010	0.059		12/10/97
Lead	mg/L	0.005	0.013		12/08/97
Nickel	mg/L	0.05	ND		12/10/97
Selenium	mg/L	0.005	ND		12/10/97
Silver	mg/L	0.002	ND		12/09/97
Thallium	mg/L	0.002	ND		12/09/97
Tin	mg/L	0.02	ND		12/09/97
Vanadium	mg/L	0.005	0.055		12/11/97
Zinc	mg/L	0.010	0.079		12/10/97
ORGANIC ANALYSIS					
APPENDIX II, HERBICIDES				8150	
2,4-D	ug/L	2.0	ND		12/09/97
Silvex	ug/L	2.0	ND		12/09/97
2,4,5-T	ug/L	2.0	ND		12/09/97
Dinoseb	ug/L	1.0	ND		12/09/97
Date Extracted	Date		120997		12/09/97
APPENDIX II, PESTICIDES AND PCBS				8080	
alpha-BHC	ug/L	0.05	ND		12/12/97
beta-BHC	ug/L	0.05	ND		12/12/97

Laboratory Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006

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December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247175		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			MW-8		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX II, PESTICIDES AND PCBS				8080	
gamma-BHC (Lindane)	ug/L	0.05	ND		12/12/97
Delta-BHC	ug/L	0.05	ND		12/12/97
Heptachlor	ug/L	0.05	ND		12/12/97
Aldrin	ug/L	0.05	ND		12/12/97
Heptachlor epoxide	ug/L	0.10	ND		12/12/97
Endosulfan I	ug/L	0.1	ND		12/12/97
Dieldrin	ug/L	0.02	ND		12/12/97
Endrin	ug/L	0.06	ND		12/12/97
4,4-DDD	ug/L	0.1	ND		12/12/97
Endosulfan II	ug/L	0.1	ND		12/12/97
4,4-DDT	ug/L	0.1	ND		12/12/97
4,4-DDE	ug/L	0.1	ND		12/12/97
Endrin aldehyde	ug/L	0.1	ND		12/12/97
Endosulfan sulfate	ug/L	0.1	ND		12/12/97
Methoxychlor	ug/L	0.5	ND		12/12/97
Toxaphene	ug/L	2.0	ND		12/12/97
Chlordane (tech)	ug/L	0.2	ND		12/12/97
Aroclor-1016	ug/L	1.0	ND		12/12/97
Aroclor-1221	ug/L	1.0	ND		12/12/97
Aroclor-1232	ug/L	1.0	ND		12/12/97
Aroclor-1242	ug/L	1.0	ND		12/12/97
Aroclor-1248	ug/L	1.0	ND		12/12/97
Aroclor-1254	ug/L	1.0	ND		12/12/97
Aroclor-1260	ug/L	1.0	ND		12/12/97
Date Extracted, Pesticides & PCBs	Date		121097		12/10/97

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Mr. Rick Allison

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247213		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			SW-3		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Cyanide, Total	mg/L	0.002	ND	335.3	12/09/97
Sulfide	mg/L	0.05	ND	376.2	12/05/97
APPENDIX II, LANDFILL METALS				SW 846	
Mercury	mg/L	0.0002	ND		12/16/97
Antimony	mg/L	0.005	ND		12/10/97
Arsenic	mg/L	0.005	ND		12/16/97
Barium	mg/L	0.010	0.036		12/10/97
Beryllium	mg/L	0.001	ND		12/11/97
Cadmium	mg/L	0.001	ND		12/10/97
Chromium	mg/L	0.002	ND		12/11/97
Cobalt	mg/L	0.002	ND		12/16/97
Copper	mg/L	0.010	ND		12/10/97
Lead	mg/L	0.005	ND		12/08/97
Nickel	mg/L	0.05	ND		12/10/97
Selenium	mg/L	0.005	ND		12/10/97
Silver	mg/L	0.002	ND		12/09/97
Thallium	mg/L	0.002	ND		12/09/97
Tin	mg/L	0.02	ND		12/09/97
Vanadium	mg/L	0.005	ND		12/11/97
Zinc	mg/L	0.010	0.010		12/10/97
ORGANIC ANALYSIS					
APPENDIX II, HERBICIDES				8150	
2,4-D	ug/L	2.0	ND		12/09/97
Silvex	ug/L	2.0	ND		12/09/97
2,4,5-T	ug/L	2.0	ND		12/09/97
Dinoseb	ug/L	1.0	ND		12/09/97
Date Extracted	Date		120997		12/09/97
APPENDIX II, PESTICIDES AND PCBS				8080	
alpha-BHC	ug/L	0.05	ND		12/12/97
beta-BHC	ug/L	0.05	ND		12/12/97

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Mr. Rick Allison
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December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247213		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			SW-3		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX II, PESTICIDES AND PCBS				8080	
gamma-BHC (Lindane)	ug/L	0.05	ND		12/12/97
Delta-BHC	ug/L	0.05	ND		12/12/97
Heptachlor	ug/L	0.05	ND		12/12/97
Aldrin	ug/L	0.05	ND		12/12/97
Heptachlor epoxide	ug/L	0.10	ND		12/12/97
Endosulfan I	ug/L	0.1	ND		12/12/97
Dieldrin	ug/L	0.02	ND		12/12/97
Endrin	ug/L	0.06	ND		12/12/97
4,4-DDD	ug/L	0.1	ND		12/12/97
Endosulfan II	ug/L	0.1	ND		12/12/97
4,4-DDT	ug/L	0.1	ND		12/12/97
4,4-DDE	ug/L	0.1	ND		12/12/97
Endrin aldehyde	ug/L	0.1	ND		12/12/97
Endosulfan sulfate	ug/L	0.1	ND		12/12/97
Methoxychlor	ug/L	0.5	ND		12/12/97
Toxaphene	ug/L	2.0	ND		12/12/97
Chlordane (tech)	ug/L	0.2	ND		12/12/97
Aroclor-1016	ug/L	1.0	ND		12/12/97
Aroclor-1221	ug/L	1.0	ND		12/12/97
Aroclor-1232	ug/L	1.0	ND		12/12/97
Aroclor-1242	ug/L	1.0	ND		12/12/97
Aroclor-1248	ug/L	1.0	ND		12/12/97
Aroclor-1254	ug/L	1.0	ND		12/12/97
Aroclor-1260	ug/L	1.0	ND		12/12/97
Date Extracted, Pesticides & PCBs	Date		121097		12/10/97

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December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247221		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			SW-5		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Cyanide, Total	mg/L	0.002	ND	335.3	12/09/97
Sulfide	mg/L	0.05	ND	376.2	12/05/97
APPENDIX II, LANDFILL METALS				SW 846	
Mercury	mg/L	0.0002	ND		12/16/97
Antimony	mg/L	0.005	ND		12/10/97
Arsenic	mg/L	0.005	ND		12/16/97
Barium	mg/L	0.010	0.043		12/10/97
Beryllium	mg/L	0.001	ND		12/11/97
Cadmium	mg/L	0.001	ND		12/10/97
Chromium	mg/L	0.002	ND		12/11/97
Cobalt	mg/L	0.002	0.014		12/16/97
Copper	mg/L	0.010	ND		12/10/97
Lead	mg/L	0.005	ND		12/08/97
Nickel	mg/L	0.05	ND		12/10/97
Selenium	mg/L	0.005	ND		12/10/97
Silver	mg/L	0.002	ND		12/09/97
Thallium	mg/L	0.002	ND		12/09/97
Tin	mg/L	0.02	ND		12/09/97
Vanadium	mg/L	0.005	ND		12/11/97
Zinc	mg/L	0.010	0.43		12/10/97
ORGANIC ANALYSIS					
APPENDIX II, HERBICIDES				8150	
2,4-D	ug/L	2.0	ND		12/09/97
Silvex	ug/L	2.0	ND		12/09/97
2,4,5-T	ug/L	2.0	ND		12/09/97
Dinoseb	ug/L	1.0	ND		12/09/97
Date Extracted	Date		120997		12/09/97
APPENDIX II, PESTICIDES AND PCBS				8080	
alpha-BHC	ug/L	0.05	ND		12/12/97
beta-BHC	ug/L	0.05	ND		12/12/97

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PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

PACE Sample Number:			92 0247221		
Date Collected:			12/03/97		
Date Received:			12/04/97		
Client Sample ID:			SW-5		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX II, PESTICIDES AND PCBS				8080	
gamma-BHC (Lindane)	ug/L	0.05	ND		12/12/97
Delta-BHC	ug/L	0.05	ND		12/12/97
Heptachlor	ug/L	0.05	ND		12/12/97
Aldrin	ug/L	0.05	ND		12/12/97
Heptachlor epoxide	ug/L	0.10	ND		12/12/97
Endosulfan I	ug/L	0.1	ND		12/12/97
Dieldrin	ug/L	0.02	ND		12/12/97
Endrin	ug/L	0.06	ND		12/12/97
4,4-DDD	ug/L	0.1	ND		12/12/97
Endosulfan II	ug/L	0.1	ND		12/12/97
4,4-DDT	ug/L	0.1	ND		12/12/97
4,4-DDE	ug/L	0.1	ND		12/12/97
Endrin aldehyde	ug/L	0.1	ND		12/12/97
Endosulfan sulfate	ug/L	0.1	ND		12/12/97
Methoxychlor	ug/L	0.5	ND		12/12/97
Toxaphene	ug/L	2.0	ND		12/12/97
Chlordane (tech)	ug/L	0.2	ND		12/12/97
Aroclor-1016	ug/L	1.0	ND		12/12/97
Aroclor-1221	ug/L	1.0	ND		12/12/97
Aroclor-1232	ug/L	1.0	ND		12/12/97
Aroclor-1242	ug/L	1.0	ND		12/12/97
Aroclor-1248	ug/L	1.0	ND		12/12/97
Aroclor-1254	ug/L	1.0	ND		12/12/97
Aroclor-1260	ug/L	1.0	ND		12/12/97
Date Extracted, Pesticides & PCBs	Date		121097		12/10/97

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December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Appendix II Metals Analysis Methods

Method 282.2:	Tin		Method 7761:	Silver
Method 6010A:	Barium, Copper, Nickel, Zinc		Method 7841:	Thallium
Method 7041:	Antimony		Method 7911:	Vanadium
Method 7060A:	Arsenic			
Method 7091:	Beryllium			
Method 7131A:	Cadmium			
Method 7191:	Chromium			
Method 7201:	Cobalt			
Method 7421:	Lead			
Method 7470A:	Mercury			
Method 7740:	Selenium			

These data have been reviewed and are approved for release.

Margaret S. Harding
Manager, Laboratory Operations

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FOOTNOTES
for pages 1 through 21

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

CO	Compound confirmed by secondary column.
ND	Not detected at or above the PRL.
PRL	PACE Reporting Limit
(1)	Compound cannot be confirmed by secondary column due to matrix interference.

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Antimony
Batch: 92 67143
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132, 92 0247140
92 0247159, 92 0247167, 92 0247175, 92 0247213, 92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920246152	Duplicate of 92 0246152	RPD
Antimony	mg/L	0.005	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920246152	Spike	Spike Recv	Spike Dupl Recv	RPD
Antimony	mg/L	0.005	ND	0.025	74% MI	76% MI	3%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Antimony	mg/L	0.005	0.025	94%	101%	7%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Arsenic
Batch: 92 67382
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132, 92 0247140
92 0247159, 92 0247167, 92 0247175, 92 0247213, 92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920247116 MW-1a	Duplicate of 92 0247116	RPD
Arsenic	mg/L	0.005	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920247116 MW-1a	Spike	Spike Recv	Spike Dupl Recv	RPD
Arsenic	mg/L	0.005	ND	0.025	114%	114%	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Arsenic	mg/L	0.005	0.025	110%	112%	2%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Beryllium
Batch: 92 67308
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132, 92 0247140
92 0247159, 92 0247167, 92 0247175, 92 0247213, 92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920247108 MW-1	Duplicate of 92 0247108	RPD
Beryllium	mg/L	0.001	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920247108 MW-1	Spike	Spike Recv	Spike Dupl Recv	RPD
Beryllium	mg/L	0.001	ND	0.003	113%	113%	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Beryllium	mg/L	0.001	0.003	104%	106%	2%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Cadmium
Batch: 92 67106
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132, 92 0247140
92 0247159, 92 0247167, 92 0247175, 92 0247213, 92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920245423	Duplicate of 92 0245423	RPD
Cadmium	mg/L	0.001	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920245423	Spike	Spike Recv	Spike Dupl Recv	RPD
Cadmium	mg/L	0.001	ND	0.003	101%	103%	2%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Cadmium	mg/L	0.001	0.003	98%	96%	2%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Chromium
Batch: 92 67325
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132, 92 0247140
92 0247159, 92 0247167, 92 0247175, 92 0247213, 92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920245423	Duplicate of 92 0245423	RPD
Chromium	mg/L	0.002	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920245423	Spike	Spike Recv	Spike Dupl Recv	RPD
Chromium	mg/L	0.002	ND	0.025	110%	110%	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Chromium	mg/L	0.002	0.025	113%	113%	0%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Cobalt
Batch: 92 67355
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132, 92 0247140
92 0247159, 92 0247167, 92 0247175, 92 0247213, 92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920247116 MW-1a	Duplicate of 92 0247116	RPD
Cobalt	mg/L	0.002	ND	0.036	0.036	0%

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920254546	Spike	Spike Recv	Spike Dupl Recv	RPD
Cobalt	mg/L	0.002	ND	0.025	87%	89%	2%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Cobalt	mg/L	0.002	0.025	109%	113%	4%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Cyanide, Total
Batch: 92 67049
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132, 92 0247140
92 0247159, 92 0247167, 92 0247175, 92 0247213, 92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920246233	Duplicate of 92 0246233	RPD
Cyanide, Total	mg/L	0.002	ND	ND	ND	NC

SPIKE:

Parameter	Units	PRL	920246233	Spike	Spike Recv
Cyanide, Total	mg/L	0.002	ND	0.020	100%

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Cyanide, Total	mg/L	0.002	0.020	105%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Lead
Batch: 92 67025
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132, 92 0247140
92 0247159, 92 0247167, 92 0247175, 92 0247213, 92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920246365	Duplicate of 92 0246365	RPD
Lead	mg/L	0.005	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920246365	Spike	Spike Recv	Spike Dupl Recv	RPD
Lead	mg/L	0.005	ND	0.025	104%	105%	1%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Lead	mg/L	0.005	0.025	92%	100%	8%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Selenium
Batch: 92 67117
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132, 92 0247140
92 0247159, 92 0247167

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920246144	Duplicate of 92 0246144	RPD
Selenium	mg/L	0.005	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920246144	Spike	Spike Recv	Spike Dupl Recv	RPD
Selenium	mg/L	0.005	ND	0.025	47%	50%	6%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Selenium	mg/L	0.005	0.025	96%	98%	2%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Selenium
Batch: 92 67118
Samples: 92 0247175, 92 0247213, 92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920247175 MW-8	Duplicate of 92 0247175	RPD
Selenium	mg/L	0.005	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920247175 MW-8	Spike	Spike Recv	Spike Dupl Recv	RPD
Selenium	mg/L	0.005	ND	0.025	40% MI	46% MI	14%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Selenium	mg/L	0.005	0.025	86%	87%	1%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Silver
Batch: 92 67056
Samples: 92 0247108, 92 0247116

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920244672	Duplicate of 92 0244672	RPD
Silver	mg/L	0.002	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920244672	Spike	Spike Recv	Spike Dupl Recv	RPD
Silver	mg/L	0.002	ND	0.010	100%	101%	1%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Silver	mg/L	0.002	0.010	99%	100%	1%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Silver
Batch: 92 67057
Samples: 92 0247124, 92 0247132, 92 0247159, 92 0247167, 92 0247175
92 0247213, 92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920247752	Duplicate of 92 0247752	RPD
Silver	mg/L	0.002	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920247752	Spike	Spike Recv	Spike Dupl Recv	RPD
Silver	mg/L	0.002	ND	0.010	98%	98%	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Silver	mg/L	0.002	0.010	99%	99%	0%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Silver
Batch: 92 67058
Samples: 92 0247140

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920247850	Duplicate of 92 0247850	RPD
Silver	mg/L	0.002	ND	ND	ND	NC

SPIKE:

Parameter	Units	PRL	920247850	Spike	Spike Recv
Silver	mg/L	0.002	ND	0.010	96%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Silver	mg/L	0.002	0.010	96%	97%	1%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Thallium
Batch: 92 67061
Samples: 92 0247108, 92 0247116

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920244672	Duplicate of 92 0244672	RPD
Thallium	mg/L	0.002	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920244672	Spike	Spike Recv	Spike Dupl Recv	RPD
Thallium	mg/L	0.002	ND	0.025	101%	102%	1%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Thallium	mg/L	0.002	0.025	102%	105%	3%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Thallium
Batch: 92 67062
Samples: 92 0247124, 92 0247132, 92 0247140, 92 0247159, 92 0247167
92 0247175, 92 0247213, 92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920247124 MW-3	Duplicate of 92 0247124	RPD
Thallium	mg/L	0.002	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920247124 MW-3	Spike	Spike Recv	Spike Dupl Recv	RPD
Thallium	mg/L	0.002	ND	0.025	88%	79%	11%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Thallium	mg/L	0.002	0.025	104%	104%	0%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Tin
Batch: 92 67024
Samples: 92 0247108, 92 0247116

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920244672	Duplicate of 92 0244672	RPD
Tin	mg/L	0.02	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920244672	Spike	Spike Recv	Spike Dupl Recv	RPD
Tin	mg/L	0.02	ND	0.050	112%	117%	4%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Tin	mg/L	0.02	0.050	102%	98%	4%

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NC Drinking Water 37706
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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Tin
Batch: 92 67026
Samples: 92 0247124, 92 0247132, 92 0247140, 92 0247159, 92 0247167
92 0247175, 92 0247213, 92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920247124 MW-3	Duplicate of 92 0247124	RPD
Tin	mg/L	0.02	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920247124 MW-3	Spike	Spike Recv	Spike Dupl Recv	RPD
Tin	mg/L	0.02	ND	0.050	109%	113%	4%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Tin	mg/L	0.02	0.050	99%	99%	0%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Vanadium
Batch: 92 67139
Samples: 92 0247108, 92 0247116

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920244680	Duplicate of 92 0244680	RPD
Vanadium	mg/L	0.005	ND			
Vanadium	mg/L	0.010		0.088	0.085	3%

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920244699	Spike	Spike Recv	Spike Dupl Recv	RPD
Vanadium	mg/L	0.005	ND	0.025	118%	120%	2%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Vanadium	mg/L	0.005	0.025	112%	110%	2%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

Vanadium
Batch: 92 67141
Samples: 92 0247124, 92 0247132, 92 0247140, 92 0247159, 92 0247167
92 0247175, 92 0247213, 92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920247221 SW-5	Duplicate of 92 0247221	RPD
Vanadium	mg/L	0.005	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920247213 SW-3	Spike	Spike Recv	Spike Dupl Recv	RPD
Vanadium	mg/L	0.005	ND	0.025	111%	104%	7%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Vanadium	mg/L	0.005	0.025	101%	100%	1%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

ICP QUALITY CONTROL
Batch: 92 67116
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920246780	Duplicate of 92 0246780	RPD
INDIVIDUAL PARAMETERS						
Iron	mg/L	0.050		2.7	2.7	0%
ICP QUALITY CONTROL						
Aluminum	mg/L	0.10	ND	15	14	7%
Antimony	mg/L	0.20	ND			
Arsenic	mg/L	0.50	ND			
Barium	mg/L	0.010	ND			
Beryllium	mg/L	0.010	ND			
Boron	mg/L	0.10	ND			
Cadmium	mg/L	0.010	ND			
Calcium	mg/L	0.10	ND			
Chromium	mg/L	0.010	ND			
Cobalt	mg/L	0.010	ND			
Copper	mg/L	0.010	ND			
Iron	mg/L	0.050	ND			
Lead	mg/L	0.10	ND			
Magnesium	mg/L	0.20	ND			
Manganese	mg/L	0.010	ND			
Molybdenum	mg/L	0.05	ND			
Nickel	mg/L	0.05	ND			
Potassium	mg/L	1.0	ND			
Selenium	mg/L	0.50	ND			
Silver	mg/L	0.050	ND			
Sodium	mg/L	0.20	ND			
Thallium	mg/L	0.50	ND			
Tin	mg/L	0:20	ND			
Titanium	mg/L	0.010	ND			
Vanadium	mg/L	0.010	ND			
Zinc	mg/L	0.010	ND			

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

ICP QUALITY CONTROL
Batch: 92 67116
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920246780	Spike	Spike Recv	Spike Dupl Recv	RPD
Aluminum	mg/L	0.10	15	50	94%	97%	3%
Antimony	mg/L	0.20	ND	2.0	96%	99%	3%
Arsenic	mg/L	0.50	ND	2.0	107%	104%	3%
Barium	mg/L	0.010	0.037	1.0	96%	99%	3%
Beryllium	mg/L	0.010	ND	1.0	102%	103%	1%
Boron	mg/L	0.10	0.11	1.0	100%	101%	1%
Cadmium	mg/L	0.010	ND	1.0	98%	100%	2%
Calcium	mg/L	0.10	3.8	50	99%	99%	0%
Chromium	mg/L	0.010	0.010	1.0	99%	99%	0%
Cobalt	mg/L	0.010	ND	1.0	97%	98%	1%
Copper	mg/L	0.010	0.016	1.0	99%	101%	2%
Iron	mg/L	0.050	2.7	25	97%	98%	1%
Lead	mg/L	0.10	ND	2.0	98%	96%	2%
Magnesium	mg/L	0.20	1.6	25	102%	104%	2%
Manganese	mg/L	0.010	0.47	1.0	94%	96%	2%
Molybdenum	mg/L	0.05	ND	1.0	98%	100%	2%
Nickel	mg/L	0.05	ND	1.0	97%	98%	1%
Potassium	mg/L	1.0	1.4	50	97%	107%	10%
Selenium	mg/L	0.50	ND	2.0	106%	104%	2%
Silver	mg/L	0.050	ND	1.0	85%	85%	0%
Sodium	mg/L	0.20	9.6	50	95%	105%	10%
Thallium	mg/L	0.50	ND	2.0	97%	98%	1%
Tin	mg/L	0.20	ND	1.0	96%	95%	1%
Titanium	mg/L	0.010	0.079	1.0	98%	100%	2%
Vanadium	mg/L	0.010	0.010	1.0	100%	102%	2%
Zinc	mg/L	0.010	0.010	2.0	102%	102%	0%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

ICP QUALITY CONTROL
Batch: 92 67116
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Aluminum	mg/L	0.10	50	95%	96%	1%
Antimony	mg/L	0.20	2.0	100%	104%	4%
Arsenic	mg/L	0.50	2.0	99%	98%	1%
Barium	mg/L	0.010	1.0	97%	97%	0%
Beryllium	mg/L	0.010	1.0	99%	100%	1%
Boron	mg/L	0.10	1.0	98%	100%	2%
Cadmium	mg/L	0.010	1.0	96%	96%	0%
Calcium	mg/L	0.10	50	97%	98%	1%
Chromium	mg/L	0.010	1.0	96%	98%	2%
Cobalt	mg/L	0.010	1.0	95%	96%	1%
Copper	mg/L	0.010	1.0	98%	99%	1%
Iron	mg/L	0.050	25	96%	97%	1%
Lead	mg/L	0.10	2.0	93%	95%	2%
Magnesium	mg/L	0.20	25	100%	102%	2%
Manganese	mg/L	0.010	1.0	96%	97%	1%
Molybdenum	mg/L	0.05	1.0	97%	99%	2%
Nickel	mg/L	0.05	1.0	95%	96%	1%
Potassium	mg/L	1.0	50	100%	101%	1%
Selenium	mg/L	0.50	2.0	103%	102%	1%
Silver	mg/L	0.050	1.0	96%	97%	1%
Sodium	mg/L	0.20	50	101%	101%	0%
Thallium	mg/L	0.50	2.0	97%	96%	1%
Tin	mg/L	0.20	1.0	97%	102%	5%
Titanium	mg/L	0.010	1.0	98%	99%	1%
Vanadium	mg/L	0.010	1.0	99%	100%	1%
Zinc	mg/L	0.010	2.0	98%	99%	1%

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QUALITY CONTROL DATA

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PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

ICP QUALITY CONTROL
Batch: 92 67124
Samples: 92 0247140, 92 0247159, 92 0247167, 92 0247175, 92 0247213
92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920247817	Duplicate of 92 0247817	RPD
INDIVIDUAL PARAMETERS						
Zinc	mg/L	0.010		0.038	0.037	3%
ICP QUALITY CONTROL						
Molybdenum	mg/L	0.05		ND	ND	NC
Aluminum	mg/L	0.10	ND			
Antimony	mg/L	0.20	ND			
Arsenic	mg/L	0.50	ND			
Barium	mg/L	0.010	ND			
Beryllium	mg/L	0.010	ND			
Boron	mg/L	0.10	ND			
Cadmium	mg/L	0.010	ND			
Calcium	mg/L	0.10	ND			
Chromium	mg/L	0.010	ND			
Cobalt	mg/L	0.010	ND			
Copper	mg/L	0.010	ND			
Iron	mg/L	0.050	ND			
Lead	mg/L	0.10	ND			
Magnesium	mg/L	0.20	ND			
Manganese	mg/L	0.010	ND			
Molybdenum	mg/L	0.05	ND			
Nickel	mg/L	0.05	ND			
Potassium	mg/L	1.0	ND			
Selenium	mg/L	0.50	ND			
Silver	mg/L	0.050	ND			
Sodium	mg/L	0:20	ND			
Thallium	mg/L	0.50	ND			
Tin	mg/L	0.20	ND			
Titanium	mg/L	0.010	ND			
Vanadium	mg/L	0.010	ND			

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QUALITY CONTROL DATA

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PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

ICP QUALITY CONTROL
Batch: 92 67124
Samples: 92 0247140, 92 0247159, 92 0247167, 92 0247175, 92 0247213
92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920247817	Duplicate of 92 0247817	RPD
Zinc	mg/L	0.010	ND			

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920247817	Spike	Spike Recv	Spike Dupl Recv	RPD
Aluminum	mg/L	0.10	0.10	50	97%	99%	2%
Antimony	mg/L	0.20	ND	2.0	94%	94%	0%
Arsenic	mg/L	0.50	ND	2.0	98%	112%	13%
Barium	mg/L	0.010	ND	1.0	97%	99%	2%
Beryllium	mg/L	0.010	ND	1.0	101%	103%	2%
Boron	mg/L	0.10	0.30	1.0	97%	99%	2%
Cadmium	mg/L	0.010	ND	1.0	100%	101%	1%
Calcium	mg/L	0.10	13	50	95%	100%	5%
Chromium	mg/L	0.010	ND	1.0	98%	99%	1%
Cobalt	mg/L	0.010	ND	1.0	97%	98%	1%
Copper	mg/L	0.010	ND	1.0	100%	101%	1%
Iron	mg/L	0.050	0.22	25	97%	98%	1%
Lead	mg/L	0.10	ND	2.0	100%	98%	2%
Magnesium	mg/L	0.20	3.4	25	102%	105%	3%
Manganese	mg/L	0.010	0.10	1.0	98%	99%	1%
Molybdenum	mg/L	0.05	ND	1.0	99%	97%	2%
Nickel	mg/L	0.05	ND	1.0	97%	99%	2%
Potassium	mg/L	1.0	8.2	50	106%	105%	1%
Selenium	mg/L	0.50	ND	2.0	103%	103%	0%
Silver	mg/L	0.050	ND	1.0	82%	82%	0%
Sodium	mg/L	0.20	37	50	102%	98%	4%
Thallium	mg/L	0.50	ND	2.0	96%	94%	2%
Tin	mg/L	0.20	ND	1.0	93%	90%	3%
Titanium	mg/L	0.010	ND	1.0	98%	98%	0%
Vanadium	mg/L	0.010	ND	1.0	100%	101%	1%

Laboratory Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006

REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs
KY Drinking Water 90090
TN UST List
VA Drinking Water 213

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

ICP QUALITY CONTROL
Batch: 92 67124
Samples: 92 0247140, 92 0247159, 92 0247167, 92 0247175, 92 0247213
92 0247221

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920247817	Spike	Spike Recv	Spike Dupl Recv	RPD
Zinc	mg/L	0.010	0.038	2.0	102%	103%	1%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Aluminum	mg/L	0.10	50	94%	93%	1%
Antimony	mg/L	0.20	2.0	97%	95%	2%
Arsenic	mg/L	0.50	2.0	100%	102%	2%
Barium	mg/L	0.010	1.0	93%	92%	1%
Beryllium	mg/L	0.010	1.0	97%	96%	1%
Boron	mg/L	0.10	1.0	95%	94%	1%
Cadmium	mg/L	0.010	1.0	94%	94%	0%
Calcium	mg/L	0.10	50	95%	94%	1%
Chromium	mg/L	0.010	1.0	95%	95%	0%
Cobalt	mg/L	0.010	1.0	93%	92%	1%
Copper	mg/L	0.010	1.0	95%	94%	1%
Iron	mg/L	0.050	25	94%	93%	1%
Lead	mg/L	0.10	2.0	93%	93%	0%
Magnesium	mg/L	0.20	25	100%	99%	1%
Manganese	mg/L	0.010	1.0	94%	94%	0%
Molybdenum	mg/L	0.05	1.0	94%	94%	0%
Nickel	mg/L	0.05	1.0	93%	93%	0%
Potassium	mg/L	1.0	50	99%	96%	3%
Selenium	mg/L	0.50	2.0	98%	98%	0%
Silver	mg/L	0.050	1.0	93%	93%	0%
Sodium	mg/L	0:20	50	97%	95%	2%
Thallium	mg/L	0.50	2.0	90%	90%	0%
Tin	mg/L	0.20	1.0	97%	94%	3%
Titanium	mg/L	0.010	1.0	95%	94%	1%
Vanadium	mg/L	0.010	1.0	96%	96%	0%

Laboratory Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006

REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs
KY Drinking Water 90090
TN UST List
VA Drinking Water 213

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

ICP QUALITY CONTROL
Batch: 92 67124
Samples: 92 0247140, 92 0247159, 92 0247167, 92 0247175, 92 0247213
92 0247221

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Zinc	mg/L	0.010	2.0	96%	95%	1%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

APPENDIX II, HERBICIDES
Batch: 92 67222
Samples: 92 0247108

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920246195	Duplicate of 92 0246195	RPD
2,4-D	ug/L	2.0	ND	ND	ND	NC
Silvex	ug/L	2.0	ND	ND	ND	NC
2,4,5-T	ug/L	2.0	ND	ND	ND	NC
Dinoseb	ug/L	1.0	ND	ND	ND	NC

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
2,4-D	ug/L	2.0	5.0	54%
Silvex	ug/L	2.0	5.0	52%
2,4,5-T	ug/L	2.0	5.0	38%
Dinoseb	ug/L	1.0	5.0	46%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

APPENDIX II, HERBICIDES
Batch: 92 67223
Samples: 92 0247116, 92 0247124, 92 0247132, 92 0247140, 92 0247159
92 0247167, 92 0247175, 92 0247213, 92 0247221

METHOD BLANK:

Parameter	Units	PRL	Method Blank
2,4-D	ug/L	2.0	ND
Silvex	ug/L	2.0	ND
2,4,5-T	ug/L	2.0	ND
Dinoseb	ug/L	1.0	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
2,4-D	ug/L	2.0	5.0	54%
Silvex	ug/L	2.0	5.0	52%
2,4,5-T	ug/L	2.0	5.0	38%
Dinoseb	ug/L	1.0	5.0	46%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

APPENDIX II, PESTICIDES AND PCBS
Batch: 92 67184
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132, 92 0247140

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920247140 MW-5	Duplicate of 92 0247140	RPD
alpha-BHC	ug/L	0.05	ND	ND	ND	NC
beta-BHC	ug/L	0.05	ND	ND	ND	NC
gamma-BHC (Lindane)	ug/L	0.05	ND	ND	ND	NC
Delta-BHC	ug/L	0.05	ND	ND	ND	NC
Heptachlor	ug/L	0.05	ND	ND	ND	NC
Aldrin	ug/L	0.05	ND	ND	ND	NC
Heptachlor epoxide	ug/L	0.10	ND	ND	ND	NC
Endosulfan I	ug/L	0.1	ND	ND	ND	NC
Dieldrin	ug/L	0.02	ND	ND	ND	NC
Endrin	ug/L	0.06	ND	ND	ND	NC
4,4-DDD	ug/L	0.1	ND	ND	ND	NC
Endosulfan II	ug/L	0.1	ND	ND	ND	NC
4,4-DDT	ug/L	0.1	ND	ND	ND	NC
4,4-DDE	ug/L	0.1	ND	ND	ND	NC
Endrin aldehyde	ug/L	0.1	ND	ND	ND	NC
Endosulfan sulfate	ug/L	0.1	ND	ND	ND	NC
Methoxychlor	ug/L	0.5	ND	ND	ND	NC
Toxaphene	ug/L	2.0	ND	ND	ND	NC
Chlordane (tech)	ug/L	0.2	ND	ND	ND	NC
Aroclor-1016	ug/L	1.0	ND	ND	ND	NC
Aroclor-1221	ug/L	1.0	ND	ND	ND	NC
Aroclor-1232	ug/L	1.0	ND	ND	ND	NC
Aroclor-1242	ug/L	1.0	ND	ND	ND	NC
Aroclor-1248	ug/L	1.0	ND	ND	ND	NC
Aroclor-1254	ug/L	1.0	ND	ND	ND	NC
Aroclor-1260	ug/L	1.0	ND	ND	ND	NC

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

APPENDIX II, PESTICIDES AND PCBS
Batch: 92 67184
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132, 92 0247140

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920246152	Spike	Spike Recv	Spike Dupl Recv	RPD
alpha-BHC	ug/L	0.05	ND	0.16	75%	69%	8%
beta-BHC	ug/L	0.05	ND	0.16	100%	81%	21%
gamma-BHC (Lindane)	ug/L	0.05	ND	0.16	75%	69%	8%
Delta-BHC	ug/L	0.05	ND	0.16	75%	69%	8%
Heptachlor	ug/L	0.05	ND	0.16	106%	69%	42%
Aldrin	ug/L	0.05	ND	0.16	75%	50%	40%
Heptachlor epoxide	ug/L	0.10	ND	0.16	88%	75%	16%
Endosulfan I	ug/L	0.1	ND	0.16	88%	88%	0%
Dieldrin	ug/L	0.02	ND	0.16	63%	56%	12%
Endrin	ug/L	0.06	ND	0.16	88%	106%	19%
4,4-DDD	ug/L	0.1	ND	0.16	75%	50%	40%
Endosulfan II	ug/L	0.1	ND	0.16	75%	69%	8%
4,4-DDT	ug/L	0.1	ND	0.16	69%	50%	32%
4,4-DDE	ug/L	0.1	ND	0.16	81%	56%	36%
Endrin aldehyde	ug/L	0.1	ND	0.16	81%	106%	27%
Endosulfan sulfate	ug/L	0.1	ND	0.16	88%	88%	0%
Methoxychlor	ug/L	0.5	ND	0.40	100%	80%	22%

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
alpha-BHC	ug/L	0.05	0.16	75%
beta-BHC	ug/L	0.05	0.16	88%
gamma-BHC (Lindane)	ug/L	0.05	0.16	75%
Delta-BHC	ug/L	0.05	0.16	75%
Heptachlor	ug/L	0.05	0.16	100%
Aldrin	ug/L	0.05	0.16	75%
Heptachlor epoxide	ug/L	0.10	0.16	94%
Endosulfan I	ug/L	0.1	0.16	81%
Dieldrin	ug/L	0.02	0.16	81%
Endrin	ug/L	0.06	0.16	94%
4,4-DDD	ug/L	0.1	0.16	81%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

APPENDIX II, PESTICIDES AND PCBS
Batch: 92 67184
Samples: 92 0247108, 92 0247116, 92 0247124, 92 0247132, 92 0247140

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Endosulfan II	ug/L	0.1	0.16	88%
4,4-DDT	ug/L	0.1	0.16	113%
4,4-DDE	ug/L	0.1	0.16	81%
Endrin aldehyde	ug/L	0.1	0.16	88%
Endosulfan sulfate	ug/L	0.1	0.16	81%
Methoxychlor	ug/L	0.5	0.40	110%

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

APPENDIX II, PESTICIDES AND PCBS
Batch: 92 67193
Samples: 92 0247159, 92 0247167, 92 0247175, 92 0247213, 92 0247221

METHOD BLANK:

Parameter	Units	PRL	Method Blank
alpha-BHC	ug/L	0.05	ND
beta-BHC	ug/L	0.05	ND
gamma-BHC (Lindane)	ug/L	0.05	ND
Delta-BHC	ug/L	0.05	ND
Heptachlor	ug/L	0.05	ND
Aldrin	ug/L	0.05	ND
Heptachlor epoxide	ug/L	0.10	ND
Endosulfan I	ug/L	0.1	ND
Dieldrin	ug/L	0.02	ND
Endrin	ug/L	0.06	ND
4,4-DDD	ug/L	0.1	ND
Endosulfan II	ug/L	0.1	ND
4,4-DDT	ug/L	0.1	ND
4,4-DDE	ug/L	0.1	ND
Endrin aldehyde	ug/L	0.1	ND
Endosulfan sulfate	ug/L	0.1	ND
Methoxychlor	ug/L	0.5	ND
Toxaphene	ug/L	2.0	ND
Chlordane (tech)	ug/L	0.2	ND
Aroclor-1016	ug/L	1.0	ND
Aroclor-1221	ug/L	1.0	ND
Aroclor-1232	ug/L	1.0	ND
Aroclor-1242	ug/L	1.0	ND
Aroclor-1248	ug/L	1.0	ND
Aroclor-1254	ug/L	1.0	ND
Aroclor-1260	ug/L	1.0	ND

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QUALITY CONTROL DATA

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

APPENDIX II, PESTICIDES AND PCBS
Batch: 92 67193
Samples: 92 0247159, 92 0247167, 92 0247175, 92 0247213, 92 0247221

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
alpha-BHC	ug/L	0.05	0.16	75%
beta-BHC	ug/L	0.05	0.16	88%
gamma-BHC (Lindane)	ug/L	0.05	0.16	75%
Delta-BHC	ug/L	0.05	0.16	75%
Heptachlor	ug/L	0.05	0.16	100%
Aldrin	ug/L	0.05	0.16	75%
Heptachlor epoxide	ug/L	0.10	0.16	94%
Endosulfan I	ug/L	0.1	0.16	81%
Dieldrin	ug/L	0.02	0.16	81%
Endrin	ug/L	0.06	0.16	94%
4,4-DDD	ug/L	0.1	0.16	81%
Endosulfan II	ug/L	0.1	0.16	88%
4,4-DDT	ug/L	0.1	0.16	113%
4,4-DDE	ug/L	0.1	0.16	81%
Endrin aldehyde	ug/L	0.1	0.16	88%
Endosulfan sulfate	ug/L	0.1	0.16	81%
Methoxychlor	ug/L	0.5	0.40	110%

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FOOTNOTES
for pages 23 through 55

December 22, 1997
PACE Project Number: 671204513

Client Reference: Alexander/G97043.0

MI	Matrix interference.
NC	No calculation due to value below detection limit.
ND	Not detected at or above the PRL.
PRL	PACE Reporting Limit
RPD	Relative Percent Difference

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Subcontract Supporting Data

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-1	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33653	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	2.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	50	BQL
Acetonitrile	100	BQL
Acrolein	100	BQL
Acrylonitrile	100	BQL
Allyl chloride	2	BQL
Benzene	2	BQL
Bromobenzene	2	BQL
Bromochloromethane	2	BQL
Bromodichloromethane	2	BQL
Bromoform	2	BQL
Bromomethane	2	BQL
2-Butanone	50	BQL
n-Butylbenzene	2	BQL
sec-Butylbenzene	2	BQL
tert-Butylbenzene	2	BQL
Carbon disulfide	2	BQL
Carbon tetrachloride	2	BQL
Chlorobenzene	2	BQL
Chloroethane	2	**2**
Chloroform	2	BQL
Chloromethane	2	BQL
2-Chlorotoluene	2	BQL
4-Chlorotoluene	2	BQL
Chloroprene	10	BQL
Dibromochloromethane	2	BQL
1,2-Dibromo-3-chloropropane	10	BQL
Dibromomethane	2	BQL
1,2-Dibromoethane (EDB)	2	BQL
1,2-Dichlorobenzene	2	BQL
1,3-Dichlorobenzene	2	BQL
1,4-Dichlorobenzene	2	BQL
trans-1,4-Dichloro-2-butene	10	BQL
1,1-Dichloroethane	2	**19**
1,1-Dichloroethene	2	BQL
1,2-Dichloroethane	2	BQL
cis-1,2-Dichloroethene	2	BQL
trans-1,2-dichloroethene	2	BQL
1,2-Dichloropropane	2	BQL
1,3-Dichloropropane	2	BQL
2,2-Dichloropropane	2	BQL
1,1-Dichloropropene	2	BQL
cis-1,3-Dichloropropene	2	BQL
trans-1,3-Dichloropropene	2	BQL
Dichlorodifluoromethane	10	BQL
Diisopropyl ether (DIPE)	2	BQL
Ethyl methacrylate	2	BQL
Ethylbenzene	2	BQL
Hexachlorobutadiene	2	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-1	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33653	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	2.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2-Hexanone	10	BQL
Iodomethane	2	BQL
Isobutanol	100	BQL
Isopropylbenzene	2	BQL
4-Isopropyltoluene	2	BQL
Methacrylonitrile	10	BQL
Methyl methacrylate	2	BQL
Methylene chloride	10	BQL
4-Methyl-2-pentanone	10	BQL
Methyl-tert-butyl ether (MTBE)	2	BQL
Naphthalene	2	BQL
Propionitrile	10	BQL
n-Propyl benzene	2	BQL
Styrene	2	BQL
1,1,1,2-Tetrachloroethane	2	BQL
1,1,2,2-Tetrachloroethane	2	BQL
Tetrachloroethene	2	BQL
Toluene	2	BQL
1,2,3-Trichlorobenzene	2	BQL
1,2,4-Trichlorobenzene	2	BQL
Trichloroethene	2	BQL
1,1,1-Trichloroethane	2	BQL
1,1,2-Trichloroethane	2	BQL
Trichlorofluoromethane	2	BQL
1,2,3-Trichloropropane	2	BQL
1,2,4-Trimethylbenzene	2	BQL
1,3,5-Trimethylbenzene	2	BQL
Vinyl chloride	2	BQL
m-,p-Xylene	4	BQL
o-Xylene	2	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.4	94
1,2-Dichloroethane-d4	10.0	9.4	94
Toluene-d8	10.0	9.6	96

Comments:

All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-1A	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33654	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)	
Acetone	25	BQL	
Acetonitrile	50	BQL	
Acrolein	50	BQL	
Acrylonitrile	50	BQL	
Allyl chloride	1	BQL	
Benzene	1	BQL	
Bromobenzene	1	BQL	
Bromochloromethane	1	BQL	
Bromodichloromethane	1	BQL	
Bromoform	1	BQL	
Bromomethane	1	BQL	
2-Butanone	25	BQL	
n-Butylbenzene	1	BQL	
sec-Butylbenzene	1	BQL	
tert-Butylbenzene	1	BQL	
Carbon disulfide	1	BQL	
Carbon tetrachloride	1	BQL	
Chlorobenzene	1	BQL	
Chloroethane	1	BQL	
Chloroform	1	BQL	
Chloromethane	1	BQL	
2-Chlorotoluene	1	BQL	
4-Chlorotoluene	1	BQL	
Chloroprene	5	BQL	
Dibromochloromethane	1	BQL	
1,2-Dibromo-3-chloropropane	5	BQL	
Dibromomethane	1	BQL	
1,2-Dibromoethane (EDB)	1	BQL	
1,2-Dichlorobenzene	1	BQL	
1,3-Dichlorobenzene	1	BQL	
1,4-Dichlorobenzene	1	BQL	
trans-1,4-Dichloro-2-butene	5	BQL	
1,1-Dichloroethane	1	2	
1,1-Dichloroethene	1	BQL	
1,2-Dichloroethane	1	BQL	
cis-1,2-Dichloroethene	1	BQL	
trans-1,2-dichloroethene	1	BQL	
1,2-Dichloropropane	1	BQL	
1,3-Dichloropropane	1	BQL	
2,2-Dichloropropane	1	BQL	
1,1-Dichloropropene	1	BQL	
cis-1,3-Dichloropropene	1	BQL	
trans-1,3-Dichloropropene	1	BQL	
Dichlorodifluoromethane	5	BQL	
Diisopropyl ether (DIPE)	1	BQL	
Ethyl methacrylate	1	BQL	
Ethylbenzene	1	BQL	
Hexachlorobutadiene	1	BQL	

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-1A	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33654	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)	
2-Hexanone	5	BQL	
Iodomethane	1	BQL	
Isobutanol	100	BQL	
Isopropylbenzene	1	BQL	
4-Isopropyltoluene	1	BQL	
Methacrylonitrile	5	BQL	
Methyl methacrylate	1	BQL	
Methylene chloride	5	BQL	
4-Methyl-2-pentanone	5	BQL	
Methyl-tert-butyl ether (MTBE)	1	BQL	
Naphthalene	1	BQL	
Propionitrile	5	BQL	
n-Propyl benzene	1	BQL	
Styrene	1	BQL	
1,1,1,2-Tetrachloroethane	1	BQL	
1,1,2,2-Tetrachloroethane	1	BQL	
Tetrachloroethene	1	BQL	
Toluene	1	BQL	
1,2,3-Trichlorobenzene	1	BQL	
1,2,4-Trichlorobenzene	1	BQL	
Trichloroethene	1	BQL	
1,1,1-Trichloroethane	1	BQL	
1,1,2-Trichloroethane	1	BQL	
Trichlorofluoromethane	1	BQL	
1,2,3-Trichloropropane	1	BQL	
1,2,4-Trimethylbenzene	1	BQL	
1,3,5-Trimethylbenzene	1	BQL	
Vinyl chloride	1	BQL	
m-,p-Xylene	2		3
o-Xylene	1	BQL	

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.5	95
1,2-Dichloroethane-d4	10.0	9.6	96
Toluene-d8	10.0	10.1	101

Comments:

All results are corrected for dilution.

Reviewed by: JNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-3	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33655	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acetonitrile	50	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Allyl chloride	1	BQL
Benzene	1	**10**
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	**12**
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Chloroprene	5	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	**8**
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	**6**
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	**17**
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	**2**
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethyl methacrylate	1	BQL
Ethylbenzene	1	**3**
Hexachlorobutadiene	1	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-3	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33655	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isobutanol	100	BQL
Isopropylbenzene	1	**2**
4-Isopropyltoluene	1	BQL
Methacrylonitrile	5	BQL
Methyl methacrylate	1	**35**
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	**14**
Naphthalene	1	**7**
Propionitrile	5	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	**1**
Toluene	1	**2**
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	**4**
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	**5**
1,3,5-Trimethylbenzene	1	**2**
Vinyl chloride	1	**2**
m-,p-Xylene	2	**8**
o-Xylene	1	**3**

Surrogate Spike Recoveries	**Spike Added**	**Surrogate Result**	**%Rec**
Compound	(ug/L)	(ug/L)	
Bromofluorobenzene	10.0	9.3	93
1,2-Dichloroethane-d4	10.0	9.9	99
Toluene-d8	10.0	10.0	100

Comments:

All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-4R	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33656	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acetonitrile	50	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Allyl chloride	1	BQL
Benzene	1	4
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	7
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Chloroprene	5	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	3
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	16
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	20
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethyl methacrylate	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL

Reviewed by: RNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-4R	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33656	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)	
2-Hexanone	5	BQL	
Iodomethane	1	BQL	
Isobutanol	100	BQL	
Isopropylbenzene	1	BQL	
4-Isopropyltoluene	1	BQL	
Methacrylonitrile	5	BQL	
Methyl methacrylate	1	BQL	
Methylene chloride	5	BQL	
4-Methyl-2-pentanone	5	BQL	
Methyl-tert-butyl ether (MTBE)	1	BQL	
Naphthalene	1	BQL	
Propionitrile	5	BQL	
n-Propyl benzene	1	BQL	
Styrene	1	BQL	
1,1,1,2-Tetrachloroethane	1	BQL	
1,1,2,2-Tetrachloroethane	1	BQL	
Tetrachloroethene	1	BQL	
Toluene	1	BQL	
1,2,3-Trichlorobenzene	1	BQL	
1,2,4-Trichlorobenzene	1	BQL	
Trichloroethene	1	3	
1,1,1-Trichloroethane	1	BQL	
1,1,2-Trichloroethane	1	BQL	
Trichlorofluoromethane	1	BQL	
1,2,3-Trichloropropane	1	BQL	
1,2,4-Trimethylbenzene	1	BQL	
1,3,5-Trimethylbenzene	1	BQL	
Vinyl chloride	1	BQL	
m-,p-Xylene	2	BQL	
o-Xylene	1	BQL	

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.5	95
1,2-Dichloroethane-d4	10.0	9.7	97
Toluene-d8	10.0	10.1	101

Comments:
All results are corrected for dilution.

Reviewed by: PNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-5	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33657	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acetonitrile	50	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Allyl chloride	1	BQL
Benzene	1	4
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	2
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Chloroprene	5	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	19
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	4
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethyl methacrylate	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-5	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33657	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)	
2-Hexanone	5	BQL	
Iodomethane	1	BQL	
Isobutanol	100	BQL	
Isopropylbenzene	1	BQL	
4-Isopropyltoluene	1	BQL	
Methacrylonitrile	5	BQL	
Methyl methacrylate	1	BQL	
Methylene chloride	5	BQL	
4-Methyl-2-pentanone	5	BQL	
Methyl-tert-butyl ether (MTBE)	1	BQL	
Naphthalene	1	BQL	
Propionitrile	5	BQL	
n-Propyl benzene	1	BQL	
Styrene	1	BQL	
1,1,1,2-Tetrachloroethane	1	BQL	
1,1,2,2-Tetrachloroethane	1	BQL	
Tetrachloroethene	1	1	
Toluene	1	BQL	
1,2,3-Trichlorobenzene	1	BQL	
1,2,4-Trichlorobenzene	1	BQL	
Trichloroethene	1	4	
1,1,1-Trichloroethane	1	BQL	
1,1,2-Trichloroethane	1	BQL	
Trichlorofluoromethane	1	BQL	
1,2,3-Trichloropropane	1	BQL	
1,2,4-Trimethylbenzene	1	BQL	
1,3,5-Trimethylbenzene	1	BQL	
Vinyl chloride	1	BQL	
m-,p-Xylene	2	BQL	
o-Xylene	1	BQL	

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.3	93
1,2-Dichloroethane-d4	10.0	9.8	98
Toluene-d8	10.0	9.8	98

Comments:

All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-6	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33658	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acetonitrile	50	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Allyl chloride	1	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	6
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	1
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Chloroprene	5	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethyl methacrylate	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-6	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33658	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isobutanol	100	BQL
Isopropylbenzene	1	BQL
4-Isopropyltoluene	1	BQL
Methacrylonitrile	5	BQL
Methyl methacrylate	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
Propionitrile	5	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.4	94
1,2-Dichloroethane-d4	10.0	9.8	98
Toluene-d8	10.0	10.0	100

Comments:

All results are corrected for dilution.

Reviewed by: RNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-7	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33659	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acetonitrile	50	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Allyl chloride	1	BQL
Benzene	1	2
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	3
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	3
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Chloroprene	5	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	17
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	3
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethyl methacrylate	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL

Reviewed by: PNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-7	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33659	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)	
2-Hexanone	5	BQL	
Iodomethane	1	BQL	
Isobutanol	100	BQL	
Isopropylbenzene	1	BQL	
4-Isopropyltoluene	1	BQL	
Methacrylonitrile	5	BQL	
Methyl methacrylate	1	BQL	
Methylene chloride	5	BQL	
4-Methyl-2-pentanone	5	BQL	
Methyl-tert-butyl ether (MTBE)	1		2
Naphthalene	1	BQL	
Propionitrile	5	BQL	
n-Propyl benzene	1	BQL	
Styrene	1	BQL	
1,1,1,2-Tetrachloroethane	1	BQL	
1,1,2,2-Tetrachloroethane	1	BQL	
Tetrachloroethene	1	BQL	
Toluene	1	BQL	
1,2,3-Trichlorobenzene	1	BQL	
1,2,4-Trichlorobenzene	1	BQL	
Trichloroethene	1	BQL	
1,1,1-Trichloroethane	1	BQL	
1,1,2-Trichloroethane	1	BQL	
Trichlorofluoromethane	1	BQL	
1,2,3-Trichloropropane	1	BQL	
1,2,4-Trimethylbenzene	1	BQL	
1,3,5-Trimethylbenzene	1	BQL	
Vinyl chloride	1	BQL	
m-,p-Xylene	2	BQL	
o-Xylene	1	BQL	

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.6	96
1,2-Dichloroethane-d4	10.0	10.0	100
Toluene-d8	10.0	9.9	99

Comments:

All results are corrected for dilution.

Reviewed by: PNL

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-8	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33660	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acetonitrile	50	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Allyl chloride	1	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	7
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Chloroprene	5	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	14
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	2
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethyl methacrylate	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	MW-8	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33660	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isobutanol	100	BQL
Isopropylbenzene	1	BQL
4-Isopropyltoluene	1	BQL
Methacrylonitrile	5	BQL
Methyl methacrylate	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
Propionitrile	5	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	1
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.5	95
1,2-Dichloroethane-d4	10.0	10.1	101
Toluene-d8	10.0	9.7	97

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	Equipment Blank	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33661	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acetonitrile	50	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Allyl chloride	1	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Chloroprene	5	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethyl methacrylate	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	Equipment Blank	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33661	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isobutanol	100	BQL
Isopropylbenzene	1	BQL
4-Isopropyltoluene	1	BQL
Methacrylonitrile	5	BQL
Methyl methacrylate	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
Propionitrile	5	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.2	92
1,2-Dichloroethane-d4	10.0	9.8	98
Toluene-d8	10.0	9.9	99

Comments:

All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	Field Blank	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33662	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acetonitrile	50	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Allyl chloride	1	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Chloroprene	5	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethyl methacrylate	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	Field Blank	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33662	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isobutanol	100	BQL
Isopropylbenzene	1	BQL
4-Isopropyltoluene	1	BQL
Methacrylonitrile	5	BQL
Methyl methacrylate	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
Propionitrile	5	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	1
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	8.9	89
1,2-Dichloroethane-d4	10.0	10.0	100
Toluene-d8	10.0	10.2	102

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	Trip Blank	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33663	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acetonitrile	50	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Allyl chloride	1	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Chloroprene	5	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethyl methacrylate	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	Trip Blank	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33663	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isobutanol	100	BQL
Isopropylbenzene	1	BQL
4-Isopropyltoluene	1	BQL
Methacrylonitrile	5	BQL
Methyl methacrylate	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
Propionitrile	5	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.2	92
1,2-Dichloroethane-d4	10.0	9.6	96
Toluene-d8	10.0	10.0	100

Comments:

All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	SW-3	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33664	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acetonitrile	50	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Allyl chloride	1	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Chloroprene	5	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethyl methacrylate	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	SW-3	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33664	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isobutanol	100	BQL
Isopropylbenzene	1	BQL
4-Isopropyltoluene	1	BQL
Methacrylonitrile	5	BQL
Methyl methacrylate	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
Propionitrile	5	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.2	92
1,2-Dichloroethane-d4	10.0	9.4	94
Toluene-d8	10.0	10.1	101

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	SW-5	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33665	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)	
Acetone	25	BQL	
Acetonitrile	50	BQL	
Acrolein	50	BQL	
Acrylonitrile	50	BQL	
Allyl chloride	1	BQL	
Benzene	1	BQL	
Bromobenzene	1	BQL	
Bromochloromethane	1	BQL	
Bromodichloromethane	1	BQL	
Bromoform	1	BQL	
Bromomethane	1	BQL	
2-Butanone	25	BQL	
n-Butylbenzene	1	BQL	
sec-Butylbenzene	1	BQL	
tert-Butylbenzene	1	BQL	
Carbon disulfide	1	BQL	
Carbon tetrachloride	1	BQL	
Chlorobenzene	1	BQL	
Chloroethane	1		2
Chloroform	1	BQL	
Chloromethane	1	BQL	
2-Chlorotoluene	1	BQL	
4-Chlorotoluene	1	BQL	
Chloroprene	5	BQL	
Dibromochloromethane	1	BQL	
1,2-Dibromo-3-chloropropane	5	BQL	
Dibromomethane	1	BQL	
1,2-Dibromoethane (EDB)	1	BQL	
1,2-Dichlorobenzene	1	BQL	
1,3-Dichlorobenzene	1	BQL	
1,4-Dichlorobenzene	1	BQL	
trans-1,4-Dichloro-2-butene	5	BQL	
1,1-Dichloroethane	1		7
1,1-Dichloroethene	1	BQL	
1,2-Dichloroethane	1	BQL	
cis-1,2-Dichloroethene	1		2
trans-1,2-dichloroethene	1	BQL	
1,2-Dichloropropane	1	BQL	
1,3-Dichloropropane	1	BQL	
2,2-Dichloropropane	1	BQL	
1,1-Dichloropropene	1	BQL	
cis-1,3-Dichloropropene	1	BQL	
trans-1,3-Dichloropropene	1	BQL	
Dichlorodifluoromethane	5	BQL	
Diisopropyl ether (DIPE)	1	BQL	
Ethyl methacrylate	1	BQL	
Ethylbenzene	1	BQL	
Hexachlorobutadiene	1	BQL	

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	SW-5	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:	33665	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isobutanol	100	BQL
Isopropylbenzene	1	BQL
4-Isopropyltoluene	1	BQL
Methacrylonitrile	5	BQL
Methyl methacrylate	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
Propionitrile	5	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	1
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.2	92
1,2-Dichloroethane-d4	10.0	9.4	94
Toluene-d8	10.0	9.7	97

Comments:
All results are corrected for dilution.

Reviewed by: RNL

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	VBLK3121097	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:		Date Collected:	
Lab Project ID:	G150-156	Date Received:	
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acetonitrile	50	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Allyl chloride	1	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Chloroprene	5	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethyl methacrylate	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Volatiles
by GCMS 8260B

Client Sample ID:	VBLK3121097	Date Analyzed:	12/10/97
Client Project ID:	9065	Analyzed By:	LAW
Lab Sample ID:		Date Collected:	
Lab Project ID:	G150-156	Date Received:	
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isobutanol	100	BQL
Isopropylbenzene	1	BQL
4-Isopropyltoluene	1	BQL
Methacrylonitrile	5	BQL
Methyl methacrylate	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
Propionitrile	5	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.4	94
1,2-Dichloroethane-d4	10.0	9.6	96
Toluene-d8	10.0	9.7	97

Comments:

All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

Results for MS/MSD
by GC/MS 8260B

Client Sample ID: Batch QC
Client Project ID: 9065
Lab Sample ID: 33201 MS,MSD
Lab Project ID: G150-156
Analyzed By: CKC

Date Analyzed: 12/07/97
Date Collected: 11/24/97
Date Received: 11/26/97
Matrix: Water

	Sample	Spiked	MS	MSD	Limits Lower	Limits Upper	RPD	Limit Max.
acetone	BQL	25	63.7	73.3	25.7	174	14.0	30
acetonitrile	BQL	250	0.1	0.1	>0	NA	2.0	NA
acrolein	BQL	250	116.3	112.7	>0	428	3.2	30
acrylonitrile	BQL	250	80.0	78.4	>0	204	1.9	30
benzene	BQL	5	102.5	101.5	59.6	140	1.0	30
bromobenzene	BQL	5	104.8	112.4	58.0	142	7.0	30
bromochloromethane	BQL	5	90.6	91.4	59.9	140	0.9	30
bromodichloromethane	BQL	5	92.4	92.7	62.9	137	0.2	30
bromoform	BQL	5	89.9	95.5	55.5	144	6.1	30
bromomethane	BQL	5	133.3 *	137.6 *	71.2	129	3.2	30
2-butanone	BQL	25	61.6	70.6	23.4	177	13.6	30
n-butylbenzene	BQL	5	114.2	116.9	64.3	136	2.3	30
sec-butylbenzene	BQL	5	114.5	116.9	56.8	143	2.1	30
tert-butylbenzene	BQL	5	105.3	106.4	65.3	135	1.1	30
Carbon disulfide	BQL	5	84.7	84.3	55.1	145	0.5	30
carbon tetrachloride	BQL	5	106.7	107.3	57.2	143	0.6	30
chlorobenzene	BQL	5	110.3	115.6	>0	251	4.7	30
chloroethane	BQL	5	110.5	109.6	55.7	144	0.8	30
chloroform	BQL	5	95.5	96.7	64.7	135	1.2	30
chloromethane	BQL	5	146.0	146.2	53.0	147	0.1	30
2-chlorotoluene	BQL	5	99.1	104.4	62.0	138	5.2	30
4-chlorotoluene	BQL	5	106.7	110.7	61.9	138	3.7	30
dibromochloromethane	BQL	5	103.6	105.5	58.9	141	1.8	30
1,2-dibromo-3-chloropropane	BQL	5	72.5	78.0	58.6	141	7.3	30
1,2-dibromomethane	BQL	5	99.3	108.2	61.4	139	8.6	30
dibromomethane	BQL	5	90.3	87.9	61.1	139	2.8	30
1,2-dichlorobenzene	BQL	5	95.8	98.9	63.1	137	3.2	30
1,3-dichlorobenzene	BQL	5	99.5	103.1	62.0	138	3.6	30
1,4-dichlorobenzene	BQL	5	97.1	101.5	61.3	139	4.5	30
trans-1,4-Dichloro-2-butene	BQL	5	89.7	88.1	60.2	140	1.9	30
dichlorodifluoromethane	BQL	5	155.5 *	157.4 *	59.3	141	1.2	30
1,1-dichloroethane	BQL	5	108.5	107.9	53.9	146	0.6	30
1,2-dichloroethane	BQL	5	93.1	91.7	>0	245	1.5	30
1,1-dichloroethene	**7.95**	5	126.1	119.0	>0	201	5.8	30
cis-1,2-dichloroethene	BQL	5	97.7	97.5	>0	206	0.3	30
trans-1,2-dichloroethene	BQL	5	107.1	105.1	56.8	143	1.9	30
1,2-dichloropropane	BQL	5	96.8	95.0	61.8	138	2.0	30
1,3-dichloropropane	BQL	5	104.1	106.0	57.6	142	1.9	30
2,2-dichloropropane	BQL	5	132.3	130.9	60.6	139	1.1	30
1,1-dichloropropene	BQL	5	107.8	105.9	57.2	143	1.7	30
cis-1,3-dichloropropene	BQL	5	95.5	91.2	62.2	138	4.6	30
trans-1,3-dichloropropene	BQL	5	95.3	95.3	63.3	137	0.0	30
Diisopropyl ether	BQL	5	93.7	95.4	69.4	131	1.8	30
ethylbenzene	BQL	5	110.4	113.2	45.6	154	2.5	30
hexachlorobutadiene	BQL	5	108.3	112.4	57.3	143	3.7	30
2-hexanone	BQL	25	79.6	85.8	55.8	144	7.5	30
Iodomethane	BQL	5	110.8	112.9	31.6	168	1.8	30
isopropylbenzene	BQL	5	113.6	111.6	61.7	138	1.8	30
4-Isopropyltoluene	BQL	5	114.0	116.5	59.4	141	2.2	30
methyl-tert-butyl ether	BQL	5	90.1	91.2	61.7	138	1.1	30

Results for MS/MSD
by GC/MS 8260B

Client Sample ID: Batch QC
Client Project ID: 9065
Lab Sample ID: 33201 MS,MSD
Lab Project ID: G150-156
Analyzed By: CKC

Date Analyzed: 12/07/97
Date Collected: 11/24/97
Date Received: 11/26/97
Matrix: Water

	Sample	Spiked	MS	MSD	Limits Lower	Limits Upper	RPD	Limit Max.
methylene chloride	BQL	5	18.4	18.7	>0	336	1.6	30
4-methyl-2-pentanone	BQL	25	74.1	73.1	64.5	136	1.3	30
naphthalene	BQL	5	79.1	90.6	59.0	141	13.6	30
n-propyl benzene	BQL	5	114.7	118.1	63.8	136	3.0	30
styrene	BQL	5	97.7	100.4	63.9	136	2.7	30
1,1,1,2-tetrachloroethane	BQL	5	103.7	111.3	59.7	140	7.1	30
1,1,2,2-tetrachloroethane	BQL	5	101.0	104.4	56.8	143	3.3	30
tetrachloroethene	BQL	5	61.5	64.3	17.9	182	4.5	30
toluene	BQL	5	100.9	102.3	>0	460	1.4	30
1,2,3-trichlorobenzene	BQL	5	80.2	96.6	73.1	127	18.6	30
1,2,4-trichlorobenzene	BQL	5	80.2	96.6	68.8	131	18.6	30
1,1,1-trichloroethane	BQL	5	162.4	159.1	>0	484	2.1	30
1,1,2-trichloroethane	BQL	5	99.8	109.1	63.2	137	8.9	30
trichloroethene	BQL	5	106.8	103.4	32.6	167	3.3	30
trichlorofluoromethane	BQL	5	110.6	113.1	60.0	140	2.2	30
1,2,3-trichloropropane	BQL	5	91.8	107.2	41.4	159	15.5	30
1,2,4-trimethylbenzene	BQL	5	103.9	106.8	51.5	149	2.8	30
1,3,5-trimethylbenzene	BQL	5	108.2	110.8	67.7	132	2.3	30
vinyl chloride	BQL	5	117.0	115.1	43.1	157	1.7	30
m/p-xylene	BQL	10	109.3	113.2	3.8	196	3.5	30
o-xylene	BQL	5	106.7	110.0	21.8	178	3.0	30

Comments:

Concentrations are on column amounts.

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: 2/1-4

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID: MW-1
Client Project ID: 9065
Lab Sample ID: 33653
Lab Project ID: G150-156
Matrix: Water

Date Analyzed: 12/17/97
Analyzed By: JPW
Date Collected: 12/3/97
Date Received: 12/5/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acenaphthene	10	BQL
Acenaphthylene	10	BQL
Acetophenone	10	BQL
2-Acetylaminofluorene	10	BQL
4-Aminobiphenyl	10	BQL
Anthracene	10	BQL
Benzo[a]anthracene	10	BQL
Benzo[a]pyrene	10	BQL
Benzo[b]fluoranthene	10	BQL
Benzo[g,h,i]perylene	10	BQL
Benzo[k]fluoranthene	10	BQL
Benzyl Alcohol	10	BQL
Bis(2-chloro-1-methylethyl)ether	10	BQL
Bis(2-chloroethoxy)methane	10	BQL
Bis(2-chloroethyl)ether	10	BQL
Bis(2-ethylhexyl)phthalate	10	13
4-Bromophenyl phenyl ether	10	BQL
Butylbenzylphthalate	10	BQL
4-Chloroaniline	10	BQL
Chlorobenzilate	10	BQL
4-Chloro-3-methylphenol	10	BQL
2-Chloronaphthalene	10	BQL
2-Chlorophenol	10	BQL
4-Chlorophenyl phenyl ether	10	BQL
Chrysene	10	BQL
Diallate	10	BQL
Dibenzo[a,h]anthracene	10	BQL
Dibenzofuran	10	BQL
Di-n-butylphthalate	10	BQL
1,2-Dichlorobenzene	10	BQL
1,3-Dichlorobenzene	10	BQL
1,4-Dichlorobenzene	10	BQL
3,3'-Dichlorobenzidine	10	BQL
2,4-Dichlorophenol	10	BQL
2,6-Dichlorophenol	10	BQL
Diethylphthalate	10	BQL
Dimethoate	10	BQL
p-Dimethylaminoazobenzene	10	BQL
7,12-Dimethylbenz[a]anthracene	10	BQL
3-3'-Dimethylbenzidine	10	BQL
2,4-Dimethylphenol	10	BQL
Dimethylphthalate	10	BQL
m-Dinitrobenzene	10	BQL
4,6-Dinitro-2-methylphenol	10	BQL
2,4-Dinitrophenol	50	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID: MW-1
Client Project ID: 9065
Lab Sample ID: 33653
Lab Project ID: G150-156
Matrix: Water

Date Analyzed: 12/17/97
Analyzed By: JPW
Date Collected: 12/3/97
Date Received: 12/5/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2,4-Dinitrotoluene	10	BQL
2,6-Dinitrotoluene	10	BQL
Dinoseb	10	BQL
Di-n-octylphthalate	10	BQL
Diphenylamine	10	BQL
Disulfoton	10	BQL
Ethylmethanesulfonate	10	BQL
Famphur	10	BQL
Fluoranthene	10	BQL
Fluorene	10	BQL
Hexachlorobenzene	10	BQL
Hexachlorobutadiene	10	BQL
Hexachlorocyclopentadiene	10	BQL
Hexachloroethane	10	BQL
Hexachloropropene	10	BQL
Indeno(1,2,3-c,d)pyrene	10	BQL
Isodrin	10	BQL
Isophorone	10	BQL
Isosafrole	10	BQL
Kepone	10	BQL
Methapyrilene	10	BQL
Methyl parathion	10	BQL
3-Methylcholanthrene	10	BQL
Methylmethanesulfonate	10	BQL
2-Methylnaphthalene	10	BQL
2-Methylphenol	10	BQL
3&4-Methylphenol	10	BQL
Naphthalene	10	BQL
1,4-Naphthoquinone	10	BQL
1-Naphthylamine	10	BQL
2-Naphthylamine	10	BQL
5-Nitro-o-toluidine	10	BQL
2-Nitroaniline	10	BQL
3-Nitroaniline	10	BQL
4-Nitroaniline	10	BQL
Nitrobenzene	10	BQL
2-Nitrophenol	10	BQL
4-Nitrophenol	10	BQL
N-Nitroso-di-n-butylamine	10	BQL
N-nitrosodi-n-propylamine	10	BQL
N-Nitrosodiethylamine	10	BQL
N-Nitrosodimethylamine	10	BQL
N-Nitrosodiphenylamine	10	BQL
N-Nitrosomethylethylamine	10	BQL
N-Nitrosopiperidine	10	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID:	MW-1	Date Analyzed:	12/17/97
Client Project ID:	9065	Analyzed By:	JPW
Lab Sample ID:	33653	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
N-Nitrosopyrrolidine	10	BQL
Parathion	10	BQL
Pentachlorobenzene	10	BQL
Pentachloronitrobenzene	10	BQL
Pentachlorophenol	50	BQL
Phenacetin	10	BQL
Phenanthrene	10	BQL
Phenol	10	BQL
p-Phenylenediamine	10	BQL
Phorate	10	BQL
Pronamide	10	BQL
Pyrene	10	BQL
Safrole	10	BQL
1,2,4,5-Tetrachlorobenzene	10	BQL
2,3,4,6-Tetrachlorophenol	10	BQL
Thionazin	10	BQL
o-Toluidine	10	BQL
2,4,5-Trichlorophenol	10	BQL
2,4,6-Trichlorophenol	10	BQL
O,O,O-Triethylphosphorothioate	10	BQL
sym-Trinitrobenzene	10	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2,4,6-Tribromophenol	100	100	100
2-Fluorobiphenyl	100	78	78
2-Fluorophenol	100	62	62
4-Terphenyl-d14	100	110	110
Nitrobenzene-d5	100	66	66
Phenol-d6	100	74	74

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID:	MW-1A	Date Analyzed:	12/17/97
Client Project ID:	9065	Analyzed By:	JPW
Lab Sample ID:	33654	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acenaphthene	10	BQL
Acenaphthylene	10	BQL
Acetophenone	10	BQL
2-Acetylaminofluorene	10	BQL
4-Aminobiphenyl	10	BQL
Anthracene	10	BQL
Benzo[a]anthracene	10	BQL
Benzo[a]pyrene	10	BQL
Benzo[b]fluoranthene	10	BQL
Benzo[g,h,i]perylene	10	BQL
Benzo[k]fluoranthene	10	BQL
Benzyl Alcohol	10	BQL
Bis(2-chloro-1-methylethyl)ether	10	BQL
Bis(2-chloroethoxy)methane	10	BQL
Bis(2-chloroethyl)ether	10	BQL
Bis(2-ethylhexyl)phthalate	10	BQL
4-Bromophenyl phenyl ether	10	BQL
Butylbenzylphthalate	10	BQL
4-Chloroaniline	10	BQL
Chlorobenzilate	10	BQL
4-Chloro-3-methylphenol	10	BQL
2-Chloronaphthalene	10	BQL
2-Chlorophenol	10	BQL
4-Chlorophenyl phenyl ether	10	BQL
Chrysene	10	BQL
Diallate	10	BQL
Dibenzo[a,h]anthracene	10	BQL
Dibenzofuran	10	BQL
Di-n-butylphthalate	10	BQL
1,2-Dichlorobenzene	10	BQL
1,3-Dichlorobenzene	10	BQL
1,4-Dichlorobenzene	10	BQL
3,3'-Dichlorobenzidine	10	BQL
2,4-Dichlorophenol	10	BQL
2,6-Dichlorophenol	10	BQL
Diethylphthalate	10	BQL
Dimethoate	10	BQL
p-Dimethylaminoazobenzene	10	BQL
7,12-Dimethylbenz[a]anthracene	10	BQL
3-3'-Dimethylbenzidine	10	BQL
2,4-Dimethylphenol	10	BQL
Dimethylphthalate	10	BQL
m-Dinitrobenzene	10	BQL
4,6-Dinitro-2-methylphenol	10	BQL
2,4-Dinitrophenol	50	BQL

Reviewed By: RJP

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID: MW-1A
Client Project ID: 9065
Lab Sample ID: 33654
Lab Project ID: G150-156
Matrix: Water

Date Analyzed: 12/17/97
Analyzed By: JPW
Date Collected: 12/3/97
Date Received: 12/5/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2,4-Dinitrotoluene	10	BQL
2,6-Dinitrotoluene	10	BQL
Dinoseb	10	BQL
Di-n-octylphthalate	10	BQL
Diphenylamine	10	BQL
Disulfoton	10	BQL
Ethylmethanesulfonate	10	BQL
Famphur	10	BQL
Fluoranthene	10	BQL
Fluorene	10	BQL
Hexachlorobenzene	10	BQL
Hexachlorobutadiene	10	BQL
Hexachlorocyclopentadiene	10	BQL
Hexachloroethane	10	BQL
Hexachloropropene	10	BQL
Indeno(1,2,3-c,d)pyrene	10	BQL
Isodrin	10	BQL
Isophorone	10	BQL
Isosafrole	10	BQL
Kepone	10	BQL
Methapyrilene	10	BQL
Methyl parathion	10	BQL
3-Methylcholanthrene	10	BQL
Methylmethanesulfonate	10	BQL
2-Methylnaphthalene	10	BQL
2-Methylphenol	10	BQL
3&4-Methylphenol	10	BQL
Naphthalene	10	BQL
1,4-Naphthoquinone	10	BQL
1-Naphthylamine	10	BQL
2-Naphthylamine	10	BQL
5-Nitro-o-toluidine	10	BQL
2-Nitroaniline	10	BQL
3-Nitroaniline	10	BQL
4-Nitroaniline	10	BQL
Nitrobenzene	10	BQL
2-Nitrophenol	10	BQL
4-Nitrophenol	10	BQL
N-Nitroso-di-n-butylamine	10	BQL
N-nitrosodi-n-propylamine	10	BQL
N-Nitrosodiethylamine	10	BQL
N-Nitrosodimethylamine	10	BQL
N-Nitrosodiphenylamine	10	BQL
N-Nitrosomethylethylamine	10	BQL
N-Nitrosopiperidine	10	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID:	MW-1A	Date Analyzed:	12/17/97
Client Project ID:	9065	Analyzed By:	JPW
Lab Sample ID:	33654	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
N-Nitrosopyrrolidine	10	BQL
Parathion	10	BQL
Pentachlorobenzene	10	BQL
Pentachloronitrobenzene	10	BQL
Pentachlorophenol	50	BQL
Phenacetin	10	BQL
Phenanthrene	10	BQL
Phenol	10	BQL
p-Phenylenediamine	10	BQL
Phorate	10	BQL
Pronamide	10	BQL
Pyrene	10	BQL
Safrole	10	BQL
1,2,4,5-Tetrachlorobenzene	10	BQL
2,3,4,6-Tetrachlorophenol	10	BQL
Thionazin	10	BQL
o-Toluidine	10	BQL
2,4,5-Trichlorophenol	10	BQL
2,4,6-Trichlorophenol	10	BQL
O,O,O-Triethylphosphorothioate	10	BQL
sym-Trinitrobenzene	10	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2,4,6-Tribromophenol	100	77	77
2-Fluorobiphenyl	100	79	79
2-Fluorophenol	100	70	70
4-Terphenyl-d14	100	81	81
Nitrobenzene-d5	100	69	69
Phenol-d6	100	71	71

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID: MW-3
Client Project ID: 9065
Lab Sample ID: 33655
Lab Project ID: G150-156
Matrix: Water

Date Analyzed: 12/17/97
Analyzed By: JPW
Date Collected: 12/3/97
Date Received: 12/5/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acenaphthene	10	BQL
Acenaphthylene	10	BQL
Acetophenone	10	BQL
2-Acetylaminofluorene	10	BQL
4-Aminobiphenyl	10	BQL
Anthracene	10	BQL
Benzo[a]anthracene	10	BQL
Benzo[a]pyrene	10	BQL
Benzo[b]fluoranthene	10	BQL
Benzo[g,h,i]perylene	10	BQL
Benzo[k]fluoranthene	10	BQL
Benzyl Alcohol	10	BQL
Bis(2-chloro-1-methylethyl)ether	10	BQL
Bis(2-chloroethoxy)methane	10	BQL
Bis(2-chloroethyl)ether	10	BQL
Bis(2-ethylhexyl)phthalate	10	BQL
4-Bromophenyl phenyl ether	10	BQL
Butylbenzylphthalate	10	BQL
4-Chloroaniline	10	BQL
Chlorobenzilate	10	BQL
4-Chloro-3-methylphenol	10	BQL
2-Chloronaphthalene	10	BQL
2-Chlorophenol	10	BQL
4-Chlorophenyl phenyl ether	10	BQL
Chrysene	10	BQL
Diallate	10	BQL
Dibenzo[a,h]anthracene	10	BQL
Dibenzofuran	10	BQL
Di-n-butylphthalate	10	BQL
1,2-Dichlorobenzene	10	BQL
1,3-Dichlorobenzene	10	BQL
1,4-Dichlorobenzene	10	BQL
3,3'-Dichlorobenzidine	10	BQL
2,4-Dichlorophenol	10	BQL
2,6-Dichlorophenol	10	BQL
Diethylphthalate	10	BQL
Dimethoate	10	BQL
p-Dimethylaminoazobenzene	10	BQL
7,12-Dimethylbenz[a]anthracene	10	BQL
3-3'-Dimethylbenzidine	10	BQL
2,4-Dimethylphenol	10	BQL
Dimethylphthalate	10	BQL
m-Dinitrobenzene	10	BQL
4,6-Dinitro-2-methylphenol	10	BQL
2,4-Dinitrophenol	50	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID:	MW-3	Date Analyzed:	12/17/97
Client Project ID:	9065	Analyzed By:	JPW
Lab Sample ID:	33655	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2,4-Dinitrotoluene	10	BQL
2,6-Dinitrotoluene	10	BQL
Dinoseb	10	BQL
Di-n-octylphthalate	10	BQL
Diphenylamine	10	BQL
Disulfoton	10	BQL
Ethylmethanesulfonate	10	BQL
Famphur	10	BQL
Fluoranthene	10	BQL
Fluorene	10	BQL
Hexachlorobenzene	10	BQL
Hexachlorobutadiene	10	BQL
Hexachlorocyclopentadiene	10	BQL
Hexachloroethane	10	BQL
Hexachloropropene	10	BQL
Indeno(1,2,3-c,d)pyrene	10	BQL
Isodrin	10	BQL
Isophorone	10	BQL
Isosafrole	10	BQL
Kepone	10	BQL
Methapyrilene	10	BQL
Methyl parathion	10	BQL
3-Methylcholanthrene	10	BQL
Methylmethanesulfonate	10	BQL
2-Methylnaphthalene	10	BQL
2-Methylphenol	10	BQL
3&4-Methylphenol	10	BQL
Naphthalene	10	BQL
1,4-Naphthoquinone	10	BQL
1-Naphthylamine	10	BQL
2-Naphthylamine	10	BQL
5-Nitro-o-toluidine	10	BQL
2-Nitroaniline	10	BQL
3-Nitroaniline	10	BQL
4-Nitroaniline	10	BQL
Nitrobenzene	10	BQL
2-Nitrophenol	10	BQL
4-Nitrophenol	10	BQL
N-Nitroso-di-n-butylamine	10	BQL
N-nitrosodi-n-propylamine	10	BQL
N-Nitrosodiethylamine	10	BQL
N-Nitrosodimethylamine	10	BQL
N-Nitrosodiphenylamine	10	BQL
N-Nitrosomethylethylamine	10	BQL
N-Nitrosopiperidine	10	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID:	MW-3	Date Analyzed:	12/17/97
Client Project ID:	9065	Analyzed By:	JPW
Lab Sample ID:	33655	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
N-Nitrosopyrrolidine	10	BQL
Parathion	10	BQL
Pentachlorobenzene	10	BQL
Pentachloronitrobenzene	10	BQL
Pentachlorophenol	50	BQL
Phenacetin	10	BQL
Phenanthrene	10	BQL
Phenol	10	BQL
p-Phenylenediamine	10	BQL
Phorate	10	BQL
Pronamide	10	BQL
Pyrene	10	BQL
Safrole	10	BQL
1,2,4,5-Tetrachlorobenzene	10	BQL
2,3,4,6-Tetrachlorophenol	10	BQL
Thionazin	10	BQL
o-Toluidine	10	BQL
2,4,5-Trichlorophenol	10	BQL
2,4,6-Trichlorophenol	10	BQL
O,O,O-Triethylphosphorothioate	10	BQL
sym-Trinitrobenzene	10	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2,4,6-Tribromophenol	100	83	83
2-Fluorobiphenyl	100	77	77
2-Fluorophenol	100	81	81
4-Terphenyl-d14	100	98	98
Nitrobenzene-d5	100	80	80
Phenol-d6	100	86	86

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID:	MW-4R	Date Analyzed:	12/17/97
Client Project ID:	9065	Analyzed By:	JPW
Lab Sample ID:	33656	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acenaphthene	10	BQL
Acenaphthylene	10	BQL
Acetophenone	10	BQL
2-Acetylaminofluorene	10	BQL
4-Aminobiphenyl	10	BQL
Anthracene	10	BQL
Benzo[a]anthracene	10	BQL
Benzo[a]pyrene	10	BQL
Benzo[b]fluoranthene	10	BQL
Benzo[g,h,i]perylene	10	BQL
Benzo[k]fluoranthene	10	BQL
Benzyl Alcohol	10	BQL
Bis(2-chloro-1-methylethyl)ether	10	BQL
Bis(2-chloroethoxy)methane	10	BQL
Bis(2-chloroethyl)ether	10	BQL
Bis(2-ethylhexyl)phthalate	10	BQL
4-Bromophenyl phenyl ether	10	BQL
Butylbenzylphthalate	10	BQL
4-Chloroaniline	10	BQL
Chlorobenzilate	10	BQL
4-Chloro-3-methylphenol	10	BQL
2-Chloronaphthalene	10	BQL
2-Chlorophenol	10	BQL
4-Chlorophenyl phenyl ether	10	BQL
Chrysene	10	BQL
Diallate	10	BQL
Dibenzo[a,h]anthracene	10	BQL
Dibenzofuran	10	BQL
Di-n-butylphthalate	10	BQL
1,2-Dichlorobenzene	10	BQL
1,3-Dichlorobenzene	10	BQL
1,4-Dichlorobenzene	10	BQL
3,3'-Dichlorobenzidine	10	BQL
2,4-Dichlorophenol	10	BQL
2,6-Dichlorophenol	10	BQL
Diethylphthalate	10	BQL
Dimethoate	10	BQL
p-Dimethylaminoazobenzene	10	BQL
7,12-Dimethylbenz[a]anthracene	10	BQL
3-3'-Dimethylbenzidine	10	BQL
2,4-Dimethylphenol	10	BQL
Dimethylphthalate	10	BQL
m-Dinitrobenzene	10	BQL
4,6-Dinitro-2-methylphenol	10	BQL
2,4-Dinitrophenol	50	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID:	MW-4R	Date Analyzed:	12/17/97
Client Project ID:	9065	Analyzed By:	JPW
Lab Sample ID:	33656	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2,4-Dinitrotoluene	10	BQL
2,6-Dinitrotoluene	10	BQL
Dinoseb	10	BQL
Di-n-octylphthalate	10	BQL
Diphenylamine	10	BQL
Disulfoton	10	BQL
Ethylmethanesulfonate	10	BQL
Famphur	10	BQL
Fluoranthene	10	BQL
Fluorene	10	BQL
Hexachlorobenzene	10	BQL
Hexachlorobutadiene	10	BQL
Hexachlorocyclopentadiene	10	BQL
Hexachloroethane	10	BQL
Hexachloropropene	10	BQL
Indeno(1,2,3-c,d)pyrene	10	BQL
Isodrin	10	BQL
Isophorone	10	BQL
Isosafrole	10	BQL
Kepone	10	BQL
Methapyrilene	10	BQL
Methyl parathion	10	BQL
3-Methylcholanthrene	10	BQL
Methylmethanesulfonate	10	BQL
2-Methylnaphthalene	10	BQL
2-Methylphenol	10	BQL
3&4-Methylphenol	10	BQL
Naphthalene	10	BQL
1,4-Naphthoquinone	10	BQL
1-Naphthylamine	10	BQL
2-Naphthylamine	10	BQL
5-Nitro-o-toluidine	10	BQL
2-Nitroaniline	10	BQL
3-Nitroaniline	10	BQL
4-Nitroaniline	10	BQL
Nitrobenzene	10	BQL
2-Nitrophenol	10	BQL
4-Nitrophenol	10	BQL
N-Nitroso-di-n-butylamine	10	BQL
N-nitrosodi-n-propylamine	10	BQL
N-Nitrosodiethylamine	10	BQL
N-Nitrosodimethylamine	10	BQL
N-Nitrosodiphenylamine	10	BQL
N-Nitrosomethylethylamine	10	BQL
N-Nitrosopiperidine	10	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID:	MW-4R	Date Analyzed:	12/17/97
Client Project ID:	9065	Analyzed By:	JPW
Lab Sample ID:	33656	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
N-Nitrosopyrrolidine	10	BQL
Parathion	10	BQL
Pentachlorobenzene	10	BQL
Pentachloronitrobenzene	10	BQL
Pentachlorophenol	50	BQL
Phenacetin	10	BQL
Phenanthrene	10	BQL
Phenol	10	BQL
p-Phenylenediamine	10	BQL
Phorate	10	BQL
Pronamide	10	BQL
Pyrene	10	BQL
Safrole	10	BQL
1,2,4,5-Tetrachlorobenzene	10	BQL
2,3,4,6-Tetrachlorophenol	10	BQL
Thionazin	10	BQL
o-Toluidine	10	BQL
2,4,5-Trichlorophenol	10	BQL
2,4,6-Trichlorophenol	10	BQL
O,O,O-Triethylphosphorothioate	10	BQL
sym-Trinitrobenzene	10	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2,4,6-Tribromophenol	100	81	81
2-Fluorobiphenyl	100	76	76
2-Fluorophenol	100	73	73
4-Terphenyl-d14	100	96	96
Nitrobenzene-d5	100	72	72
Phenol-d6	100	82	82

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID:	MW-5	Date Analyzed:	12/17/97
Client Project ID:	9065	Analyzed By:	JPW
Lab Sample ID:	33657	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acenaphthene	10	BQL
Acenaphthylene	10	BQL
Acetophenone	10	BQL
2-Acetylaminofluorene	10	BQL
4-Aminobiphenyl	10	BQL
Anthracene	10	BQL
Benzo[a]anthracene	10	BQL
Benzo[a]pyrene	10	BQL
Benzo[b]fluoranthene	10	BQL
Benzo[g,h,i]perylene	10	BQL
Benzo[k]fluoranthene	10	BQL
Benzyl Alcohol	10	BQL
Bis(2-chloro-1-methylethyl)ether	10	BQL
Bis(2-chloroethoxy)methane	10	BQL
Bis(2-chloroethyl)ether	10	BQL
Bis(2-ethylhexyl)phthalate	10	BQL
4-Bromophenyl phenyl ether	10	BQL
Butylbenzylphthalate	10	BQL
4-Chloroaniline	10	BQL
Chlorobenzilate	10	BQL
4-Chloro-3-methylphenol	10	BQL
2-Chloronaphthalene	10	BQL
2-Chlorophenol	10	BQL
4-Chlorophenyl phenyl ether	10	BQL
Chrysene	10	BQL
Diallate	10	BQL
Dibenzo[a,h]anthracene	10	BQL
Dibenzofuran	10	BQL
Di-n-butylphthalate	10	BQL
1,2-Dichlorobenzene	10	BQL
1,3-Dichlorobenzene	10	BQL
1,4-Dichlorobenzene	10	BQL
3,3'-Dichlorobenzidine	10	BQL
2,4-Dichlorophenol	10	BQL
2,6-Dichlorophenol	10	BQL
Diethylphthalate	10	BQL
Dimethoate	10	BQL
p-Dimethylaminoazobenzene	10	BQL
7,12-Dimethylbenz[a]anthracene	10	BQL
3-3'-Dimethylbenzidine	10	BQL
2,4-Dimethylphenol	10	BQL
Dimethylphthalate	10	BQL
m-Dinitrobenzene	10	BQL
4,6-Dinitro-2-methylphenol	10	BQL
2,4-Dinitrophenol	50	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID:	MW-5	Date Analyzed:	12/17/97
Client Project ID:	9065	Analyzed By:	JPW
Lab Sample ID:	33657	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2,4-Dinitrotoluene	10	BQL
2,6-Dinitrotoluene	10	BQL
Dinoseb	10	BQL
Di-n-octylphthalate	10	BQL
Diphenylamine	10	BQL
Disulfoton	10	BQL
Ethylmethanesulfonate	10	BQL
Famphur	10	BQL
Fluoranthene	10	BQL
Fluorene	10	BQL
Hexachlorobenzene	10	BQL
Hexachlorobutadiene	10	BQL
Hexachlorocyclopentadiene	10	BQL
Hexachloroethane	10	BQL
Hexachloropropene	10	BQL
Indeno(1,2,3-c,d)pyrene	10	BQL
Isodrin	10	BQL
Isophorone	10	BQL
Isosafrole	10	BQL
Kepone	10	BQL
Methapyrilene	10	BQL
Methyl parathion	10	BQL
3-Methylcholanthrene	10	BQL
Methylmethanesulfonate	10	BQL
2-Methylnaphthalene	10	BQL
2-Methylphenol	10	BQL
3&4-Methylphenol	10	BQL
Naphthalene	10	BQL
1,4-Naphthoquinone	10	BQL
1-Naphthylamine	10	BQL
2-Naphthylamine	10	BQL
5-Nitro-o-toluidine	10	BQL
2-Nitroaniline	10	BQL
3-Nitroaniline	10	BQL
4-Nitroaniline	10	BQL
Nitrobenzene	10	BQL
2-Nitrophenol	10	BQL
4-Nitrophenol	10	BQL
N-Nitroso-di-n-butylamine	10	BQL
N-nitrosodi-n-propylamine	10	BQL
N-Nitrosodiethylamine	10	BQL
N-Nitrosodimethylamine	10	BQL
N-Nitrosodiphenylamine	10	BQL
N-Nitrosomethylethylamine	10	BQL
N-Nitrosopiperidine	10	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID:	MW-5	Date Analyzed:	12/17/97
Client Project ID:	9065	Analyzed By:	JPW
Lab Sample ID:	33657	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
N-Nitrosopyrrolidine	10	BQL
Parathion	10	BQL
Pentachlorobenzene	10	BQL
Pentachloronitrobenzene	10	BQL
Pentachlorophenol	50	BQL
Phenacetin	10	BQL
Phenanthrene	10	BQL
Phenol	10	BQL
p-Phenylenediamine	10	BQL
Phorate	10	BQL
Pronamide	10	BQL
Pyrene	10	BQL
Safrole	10	BQL
1,2,4,5-Tetrachlorobenzene	10	BQL
2,3,4,6-Tetrachlorophenol	10	BQL
Thionazin	10	BQL
o-Toluidine	10	BQL
2,4,5-Trichlorophenol	10	BQL
2,4,6-Trichlorophenol	10	BQL
O,O,O-Triethylphosphorothioate	10	BQL
sym-Trinitrobenzene	10	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2,4,6-Tribromophenol	100	82	82
2-Fluorobiphenyl	100	66	66
2-Fluorophenol	100	54	54
4-Terphenyl-d14	100	71	71
Nitrobenzene-d5	100	62	62
Phenol-d6	100	64	64

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID: MW-6
Client Project ID: 9065
Lab Sample ID: 33658
Lab Project ID: G150-156
Matrix: Water

Date Analyzed: 12/17/97
Analyzed By: JPW
Date Collected: 12/3/97
Date Received: 12/5/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acenaphthene	10	BQL
Acenaphthylene	10	BQL
Acetophenone	10	BQL
2-Acetylaminofluorene	10	BQL
4-Aminobiphenyl	10	BQL
Anthracene	10	BQL
Benzo[a]anthracene	10	BQL
Benzo[a]pyrene	10	BQL
Benzo[b]fluoranthene	10	BQL
Benzo[g,h,i]perylene	10	BQL
Benzo[k]fluoranthene	10	BQL
Benzyl Alcohol	10	BQL
Bis(2-chloro-1-methylethyl)ether	10	BQL
Bis(2-chloroethoxy)methane	10	BQL
Bis(2-chloroethyl)ether	10	BQL
Bis(2-ethylhexyl)phthalate	10	BQL
4-Bromophenyl phenyl ether	10	BQL
Butylbenzylphthalate	10	BQL
4-Chloroaniline	10	BQL
Chlorobenzilate	10	BQL
4-Chloro-3-methylphenol	10	BQL
2-Chloronaphthalene	10	BQL
2-Chlorophenol	10	BQL
4-Chlorophenyl phenyl ether	10	BQL
Chrysene	10	BQL
Diallate	10	BQL
Dibenzo[a,h]anthracene	10	BQL
Dibenzofuran	10	BQL
Di-n-butylphthalate	10	BQL
1,2-Dichlorobenzene	10	BQL
1,3-Dichlorobenzene	10	BQL
1,4-Dichlorobenzene	10	BQL
3,3'-Dichlorobenzidine	10	BQL
2,4-Dichlorophenol	10	BQL
2,6-Dichlorophenol	10	BQL
Diethylphthalate	10	BQL
Dimethoate	10	BQL
p-Dimethylaminoazobenzene	10	BQL
7,12-Dimethylbenz[a]anthracene	10	BQL
3-3'-Dimethylbenzidine	10	BQL
2,4-Dimethylphenol	10	BQL
Dimethylphthalate	10	BQL
m-Dinitrobenzene	10	BQL
4,6-Dinitro-2-methylphenol	10	BQL
2,4-Dinitrophenol	50	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID: MW-6
Client Project ID: 9065
Lab Sample ID: 33658
Lab Project ID: G150-156
Matrix: Water

Date Analyzed: 12/17/97
Analyzed By: JPW
Date Collected: 12/3/97
Date Received: 12/5/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2,4-Dinitrotoluene	10	BQL
2,6-Dinitrotoluene	10	BQL
Dinoseb	10	BQL
Di-n-octylphthalate	10	BQL
Diphenylamine	10	BQL
Disulfoton	10	BQL
Ethylmethanesulfonate	10	BQL
Famphur	10	BQL
Fluoranthene	10	BQL
Fluorene	10	BQL
Hexachlorobenzene	10	BQL
Hexachlorobutadiene	10	BQL
Hexachlorocyclopentadiene	10	BQL
Hexachloroethane	10	BQL
Hexachloropropene	10	BQL
Indeno(1,2,3-c,d)pyrene	10	BQL
Isodrin	10	BQL
Isophorone	10	BQL
Isosafrole	10	BQL
Kepone	10	BQL
Methapyrilene	10	BQL
Methyl parathion	10	BQL
3-Methylcholanthrene	10	BQL
Methylmethanesulfonate	10	BQL
2-Methylnaphthalene	10	BQL
2-Methylphenol	10	BQL
3&4-Methylphenol	10	BQL
Naphthalene	10	BQL
1,4-Naphthoquinone	10	BQL
1-Naphthylamine	10	BQL
2-Naphthylamine	10	BQL
5-Nitro-o-toluidine	10	BQL
2-Nitroaniline	10	BQL
3-Nitroaniline	10	BQL
4-Nitroaniline	10	BQL
Nitrobenzene	10	BQL
2-Nitrophenol	10	BQL
4-Nitrophenol	10	BQL
N-Nitroso-di-n-butylamine	10	BQL
N-nitrosodi-n-propylamine	10	BQL
N-Nitrosodiethylamine	10	BQL
N-Nitrosodimethylamine	10	BQL
N-Nitrosodiphenylamine	10	BQL
N-Nitrosomethylethylamine	10	BQL
N-Nitrosopiperidine	10	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID:	MW-6	Date Analyzed:	12/17/97
Client Project ID:	9065	Analyzed By:	JPW
Lab Sample ID:	33658	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
N-Nitrosopyrrolidine	10	BQL
Parathion	10	BQL
Pentachlorobenzene	10	BQL
Pentachloronitrobenzene	10	BQL
Pentachlorophenol	50	BQL
Phenacetin	10	BQL
Phenanthrene	10	BQL
Phenol	10	BQL
p-Phenylenediamine	10	BQL
Phorate	10	BQL
Pronamide	10	BQL
Pyrene	10	BQL
Safrole	10	BQL
1,2,4,5-Tetrachlorobenzene	10	BQL
2,3,4,6-Tetrachlorophenol	10	BQL
Thionazin	10	BQL
o-Toluidine	10	BQL
2,4,5-Trichlorophenol	10	BQL
2,4,6-Trichlorophenol	10	BQL
O,O,O-Triethylphosphorothioate	10	BQL
sym-Trinitrobenzene	10	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2,4,6-Tribromophenol	100	81	81
2-Fluorobiphenyl	100	72	72
2-Fluorophenol	100	87	87
4-Terphenyl-d14	100	96	96
Nitrobenzene-d5	100	79	79
Phenol-d6	100	88	88

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID: MW-7
Client Project ID: 9065
Lab Sample ID: 33659
Lab Project ID: G150-156
Matrix: Water

Date Analyzed: 12/17/97
Analyzed By: JPW
Date Collected: 12/3/97
Date Received: 12/5/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acenaphthene	10	BQL
Acenaphthylene	10	BQL
Acetophenone	10	BQL
2-Acetylaminofluorene	10	BQL
4-Aminobiphenyl	10	BQL
Anthracene	10	BQL
Benzo[a]anthracene	10	BQL
Benzo[a]pyrene	10	BQL
Benzo[b]fluoranthene	10	BQL
Benzo[g,h,i]perylene	10	BQL
Benzo[k]fluoranthene	10	BQL
Benzyl Alcohol	10	BQL
Bis(2-chloro-1-methylethyl)ether	10	BQL
Bis(2-chloroethoxy)methane	10	BQL
Bis(2-chloroethyl)ether	10	BQL
Bis(2-ethylhexyl)phthalate	10	BQL
4-Bromophenyl phenyl ether	10	BQL
Butylbenzylphthalate	10	BQL
4-Chloroaniline	10	BQL
Chlorobenzilate	10	BQL
4-Chloro-3-methylphenol	10	BQL
2-Chloronaphthalene	10	BQL
2-Chlorophenol	10	BQL
4-Chlorophenyl phenyl ether	10	BQL
Chrysene	10	BQL
Diallate	10	BQL
Dibenzo[a,h]anthracene	10	BQL
Dibenzofuran	10	BQL
Di-n-butylphthalate	10	BQL
1,2-Dichlorobenzene	10	BQL
1,3-Dichlorobenzene	10	BQL
1,4-Dichlorobenzene	10	BQL
3,3'-Dichlorobenzidine	10	BQL
2,4-Dichlorophenol	10	BQL
2,6-Dichlorophenol	10	BQL
Diethylphthalate	10	BQL
Dimethoate	10	BQL
p-Dimethylaminoazobenzene	10	BQL
7,12-Dimethylbenz[a]anthracene	10	BQL
3-3'-Dimethylbenzidine	10	BQL
2,4-Dimethylphenol	10	BQL
Dimethylphthalate	10	BQL
m-Dinitrobenzene	10	BQL
4,6-Dinitro-2-methylphenol	10	BQL
2,4-Dinitrophenol	50	BQL

Reviewed By: RNP

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID: MW-7
Client Project ID: 9065
Lab Sample ID: 33659
Lab Project ID: G150-156
Matrix: Water

Date Analyzed: 12/17/97
Analyzed By: JPW
Date Collected: 12/3/97
Date Received: 12/5/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2,4-Dinitrotoluene	10	BQL
2,6-Dinitrotoluene	10	BQL
Dinoseb	10	BQL
Di-n-octylphthalate	10	BQL
Diphenylamine	10	BQL
Disulfoton	10	BQL
Ethylmethanesulfonate	10	BQL
Famphur	10	BQL
Fluoranthene	10	BQL
Fluorene	10	BQL
Hexachlorobenzene	10	BQL
Hexachlorobutadiene	10	BQL
Hexachlorocyclopentadiene	10	BQL
Hexachloroethane	10	BQL
Hexachloropropene	10	BQL
Indeno(1,2,3-c,d)pyrene	10	BQL
Isodrin	10	BQL
Isophorone	10	BQL
Isosafrole	10	BQL
Kepone	10	BQL
Methapyrilene	10	BQL
Methyl parathion	10	BQL
3-Methylcholanthrene	10	BQL
Methylmethanesulfonate	10	BQL
2-Methylnaphthalene	10	BQL
2-Methylphenol	10	BQL
3&4-Methylphenol	10	BQL
Naphthalene	10	BQL
1,4-Naphthoquinone	10	BQL
1-Naphthylamine	10	BQL
2-Naphthylamine	10	BQL
5-Nitro-o-toluidine	10	BQL
2-Nitroaniline	10	BQL
3-Nitroaniline	10	BQL
4-Nitroaniline	10	BQL
Nitrobenzene	10	BQL
2-Nitrophenol	10	BQL
4-Nitrophenol	10	BQL
N-Nitroso-di-n-butylamine	10	BQL
N-nitrosodi-n-propylamine	10	BQL
N-Nitrosodiethylamine	10	BQL
N-Nitrosodimethylamine	10	BQL
N-Nitrosodiphenylamine	10	BQL
N-Nitrosomethylethylamine	10	BQL
N-Nitrosopiperidine	10	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID: MW-7
Client Project ID: 9065
Lab Sample ID: 33659
Lab Project ID: G150-156
Matrix: Water

Date Analyzed: 12/17/97
Analyzed By: JPW
Date Collected: 12/3/97
Date Received: 12/5/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
N-Nitrosopyrrolidine	10	BQL
Parathion	10	BQL
Pentachlorobenzene	10	BQL
Pentachloronitrobenzene	10	BQL
Pentachlorophenol	50	BQL
Phenacetin	10	BQL
Phenanthrene	10	BQL
Phenol	10	BQL
p-Phenylenediamine	10	BQL
Phorate	10	BQL
Pronamide	10	BQL
Pyrene	10	BQL
Safrole	10	BQL
1,2,4,5-Tetrachlorobenzene	10	BQL
2,3,4,6-Tetrachlorophenol	10	BQL
Thionazin	10	BQL
o-Toluidine	10	BQL
2,4,5-Trichlorophenol	10	BQL
2,4,6-Trichlorophenol	10	BQL
O,O,O-Triethylphosphorothioate	10	BQL
sym-Trinitrobenzene	10	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2,4,6-Tribromophenol	100	72	72
2-Fluorobiphenyl	100	62	62
2-Fluorophenol	100	48	48
4-Terphenyl-d14	100	100	100
Nitrobenzene-d5	100	53	53
Phenol-d6	100	55	55

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID: MW-8
Client Project ID: 9065
Lab Sample ID: 33660
Lab Project ID: G150-156
Matrix: Water

Date Analyzed: 12/17/97
Analyzed By: JPW
Date Collected: 12/3/97
Date Received: 12/5/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acenaphthene	10	BQL
Acenaphthylene	10	BQL
Acetophenone	10	BQL
2-Acetylaminofluorene	10	BQL
4-Aminobiphenyl	10	BQL
Anthracene	10	BQL
Benzo[a]anthracene	10	BQL
Benzo[a]pyrene	10	BQL
Benzo[b]fluoranthene	10	BQL
Benzo[g,h,i]perylene	10	BQL
Benzo[k]fluoranthene	10	BQL
Benzyl Alcohol	10	BQL
Bis(2-chloro-1-methylethyl)ether	10	BQL
Bis(2-chloroethoxy)methane	10	BQL
Bis(2-chloroethyl)ether	10	BQL
Bis(2-ethylhexyl)phthalate	10	BQL
4-Bromophenyl phenyl ether	10	BQL
Butylbenzylphthalate	10	BQL
4-Chloroaniline	10	BQL
Chlorobenzilate	10	BQL
4-Chloro-3-methylphenol	10	BQL
2-Chloronaphthalene	10	BQL
2-Chlorophenol	10	BQL
4-Chlorophenyl phenyl ether	10	BQL
Chrysene	10	BQL
Diallate	10	BQL
Dibenzo[a,h]anthracene	10	BQL
Dibenzofuran	10	BQL
Di-n-butylphthalate	10	BQL
1,2-Dichlorobenzene	10	BQL
1,3-Dichlorobenzene	10	BQL
1,4-Dichlorobenzene	10	BQL
3,3'-Dichlorobenzidine	10	BQL
2,4-Dichlorophenol	10	BQL
2,6-Dichlorophenol	10	BQL
Diethylphthalate	10	BQL
Dimethoate	10	BQL
p-Dimethylaminoazobenzene	10	BQL
7,12-Dimethylbenz[a]anthracene	10	BQL
3-3'-Dimethylbenzidine	10	BQL
2,4-Dimethylphenol	10	BQL
Dimethylphthalate	10	BQL
m-Dinitrobenzene	10	BQL
4,6-Dinitro-2-methylphenol	10	BQL
2,4-Dinitrophenol	50	BQL

Reviewed By: RNY

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID: MW-8
Client Project ID: 9065
Lab Sample ID: 33660
Lab Project ID: G150-156
Matrix: Water

Date Analyzed: 12/17/97
Analyzed By: JPW
Date Collected: 12/3/97
Date Received: 12/5/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2,4-Dinitrotoluene	10	BQL
2,6-Dinitrotoluene	10	BQL
Dinoseb	10	BQL
Di-n-octylphthalate	10	BQL
Diphenylamine	10	BQL
Disulfoton	10	BQL
Ethylmethanesulfonate	10	BQL
Famphur	10	BQL
Fluoranthene	10	BQL
Fluorene	10	BQL
Hexachlorobenzene	10	BQL
Hexachlorobutadiene	10	BQL
Hexachlorocyclopentadiene	10	BQL
Hexachloroethane	10	BQL
Hexachloropropene	10	BQL
Indeno(1,2,3-c,d)pyrene	10	BQL
Isodrin	10	BQL
Isophorone	10	BQL
Isosafrole	10	BQL
Kepone	10	BQL
Methapyrilene	10	BQL
Methyl parathion	10	BQL
3-Methylcholanthrene	10	BQL
Methylmethanesulfonate	10	BQL
2-Methylnaphthalene	10	BQL
2-Methylphenol	10	BQL
3&4-Methylphenol	10	BQL
Naphthalene	10	BQL
1,4-Naphthoquinone	10	BQL
1-Naphthylamine	10	BQL
2-Naphthylamine	10	BQL
5-Nitro-o-toluidine	10	BQL
2-Nitroaniline	10	BQL
3-Nitroaniline	10	BQL
4-Nitroaniline	10	BQL
Nitrobenzene	10	BQL
2-Nitrophenol	10	BQL
4-Nitrophenol	10	BQL
N-Nitroso-di-n-butylamine	10	BQL
N-nitrosodi-n-propylamine	10	BQL
N-Nitrosodiethylamine	10	BQL
N-Nitrosodimethylamine	10	BQL
N-Nitrosodiphenylamine	10	BQL
N-Nitrosomethylethylamine	10	BQL
N-Nitrosopiperidine	10	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID:	MW-8	Date Analyzed:	12/17/97
Client Project ID:	9065	Analyzed By:	JPW
Lab Sample ID:	33660	Date Collected:	12/3/97
Lab Project ID:	G150-156	Date Received:	12/5/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
N-Nitrosopyrrolidine	10	BQL
Parathion	10	BQL
Pentachlorobenzene	10	BQL
Pentachloronitrobenzene	10	BQL
Pentachlorophenol	50	BQL
Phenacetin	10	BQL
Phenanthrene	10	BQL
Phenol	10	BQL
p-Phenylenediamine	10	BQL
Phorate	10	BQL
Pronamide	10	BQL
Pyrene	10	BQL
Safrole	10	BQL
1,2,4,5-Tetrachlorobenzene	10	BQL
2,3,4,6-Tetrachlorophenol	10	BQL
Thionazin	10	BQL
o-Toluidine	10	BQL
2,4,5-Trichlorophenol	10	BQL
2,4,6-Trichlorophenol	10	BQL
O,O,O-Triethylphosphorothioate	10	BQL
sym-Trinitrobenzene	10	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2,4,6-Tribromophenol	100	85	85
2-Fluorobiphenyl	100	92	92
2-Fluorophenol	100	93	93
4-Terphenyl-d14	100	99	99
Nitrobenzene-d5	100	92	92
Phenol-d6	100	98	98

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID: SW-5
Client Project ID: 9065
Lab Sample ID: 33665
Lab Project ID: G150-156
Matrix: Water

Date Analyzed: 12/17/97
Analyzed By: JPW
Date Collected: 12/3/97
Date Received: 12/5/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acenaphthene	10	BQL
Acenaphthylene	10	BQL
Acetophenone	10	BQL
2-Acetylaminofluorene	10	BQL
4-Aminobiphenyl	10	BQL
Anthracene	10	BQL
Benzo[a]anthracene	10	BQL
Benzo[a]pyrene	10	BQL
Benzo[b]fluoranthene	10	BQL
Benzo[g,h,i]perylene	10	BQL
Benzo[k]fluoranthene	10	BQL
Benzyl Alcohol	10	BQL
Bis(2-chloro-1-methylethyl)ether	10	BQL
Bis(2-chloroethoxy)methane	10	BQL
Bis(2-chloroethyl)ether	10	BQL
Bis(2-ethylhexyl)phthalate	10	BQL
4-Bromophenyl phenyl ether	10	BQL
Butylbenzylphthalate	10	BQL
4-Chloroaniline	10	BQL
Chlorobenzilate	10	BQL
4-Chloro-3-methylphenol	10	BQL
2-Chloronaphthalene	10	BQL
2-Chlorophenol	10	BQL
4-Chlorophenyl phenyl ether	10	BQL
Chrysene	10	BQL
Diallate	10	BQL
Dibenzo[a,h]anthracene	10	BQL
Dibenzofuran	10	BQL
Di-n-butylphthalate	10	BQL
1,2-Dichlorobenzene	10	BQL
1,3-Dichlorobenzene	10	BQL
1,4-Dichlorobenzene	10	BQL
3,3'-Dichlorobenzidine	10	BQL
2,4-Dichlorophenol	10	BQL
2,6-Dichlorophenol	10	BQL
Diethylphthalate	10	BQL
Dimethoate	10	BQL
p-Dimethylaminoazobenzene	10	BQL
7,12-Dimethylbenz[a]anthracene	10	BQL
3-3'-Dimethylbenzidine	10	BQL
2,4-Dimethylphenol	10	BQL
Dimethylphthalate	10	BQL
m-Dinitrobenzene	10	BQL
4,6-Dinitro-2-methylphenol	10	BQL
2,4-Dinitrophenol	50	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID: SW-5
Client Project ID: 9065
Lab Sample ID: 33665
Lab Project ID: G150-156
Matrix: Water

Date Analyzed: 12/17/97
Analyzed By: JPW
Date Collected: 12/3/97
Date Received: 12/5/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
2,4-Dinitrotoluene	10	BQL
2,6-Dinitrotoluene	10	BQL
Dinoseb	10	BQL
Di-n-octylphthalate	10	BQL
Diphenylamine	10	BQL
Disulfoton	10	BQL
Ethylmethanesulfonate	10	BQL
Famphur	10	BQL
Fluoranthene	10	BQL
Fluorene	10	BQL
Hexachlorobenzene	10	BQL
Hexachlorobutadiene	10	BQL
Hexachlorocyclopentadiene	10	BQL
Hexachloroethane	10	BQL
Hexachloropropene	10	BQL
Indeno(1,2,3-c,d)pyrene	10	BQL
Isodrin	10	BQL
Isophorone	10	BQL
Isosafrole	10	BQL
Kepone	10	BQL
Methapyrilene	10	BQL
Methyl parathion	10	BQL
3-Methylcholanthrene	10	BQL
Methylmethanesulfonate	10	BQL
2-Methylnaphthalene	10	BQL
2-Methylphenol	10	BQL
3&4-Methylphenol	10	BQL
Naphthalene	10	BQL
1,4-Naphthoquinone	10	BQL
1-Naphthylamine	10	BQL
2-Naphthylamine	10	BQL
5-Nitro-o-toluidine	10	BQL
2-Nitroaniline	10	BQL
3-Nitroaniline	10	BQL
4-Nitroaniline	10	BQL
Nitrobenzene	10	BQL
2-Nitrophenol	10	BQL
4-Nitrophenol	10	BQL
N-Nitroso-di-n-butylamine	10	BQL
N-nitrosodi-n-propylamine	10	BQL
N-Nitrosodiethylamine	10	BQL
N-Nitrosodimethylamine	10	BQL
N-Nitrosodiphenylamine	10	BQL
N-Nitrosomethylethylamine	10	BQL
N-Nitrosopiperidine	10	BQL

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix II Semivolatiles

by GCMS 8270

Client Sample ID: SW-5
Client Project ID: 9065
Lab Sample ID: 33665
Lab Project ID: G150-156
Matrix: Water

Date Analyzed: 12/17/97
Analyzed By: JPW
Date Collected: 12/3/97
Date Received: 12/5/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
N-Nitrosopyrrolidine	10	BQL
Parathion	10	BQL
Pentachlorobenzene	10	BQL
Pentachloronitrobenzene	10	BQL
Pentachlorophenol	50	BQL
Phenacetin	10	BQL
Phenanthrene	10	BQL
Phenol	10	BQL
p-Phenylenediamine	10	BQL
Phorate	10	BQL
Pronamide	10	BQL
Pyrene	10	BQL
Safrole	10	BQL
1,2,4,5-Tetrachlorobenzene	10	BQL
2,3,4,6-Tetrachlorophenol	10	BQL
Thionazin	10	BQL
o-Toluidine	10	BQL
2,4,5-Trichlorophenol	10	BQL
2,4,6-Trichlorophenol	10	BQL
O,O,O-Triethylphosphorothioate	10	BQL
sym-Trinitrobenzene	10	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2,4,6-Tribromophenol	100	57	57
2-Fluorobiphenyl	100	57	57
2-Fluorophenol	100	58	58
4-Terphenyl-d14	100	76	76
Nitrobenzene-d5	100	55	55
Phenol-d6	100	60	60

Reviewed By: _____

Comments:

BQL = Below Quantitation Limit

Results for Matrix Spike / Matrix Spike Duplicate (MS/MSD)

by GCMS 8270

Client Sample ID: Batch QC
Client Project ID: 9065
Lab Sample ID: 33282
Lab Project ID: G150-156
Analyzed By: JPW

Date Analyzed: 12/17/97
Date Collected: 11/28/97
Date Received: 11/28/97
Matrix: Water

	Sample	Spiked	MS	MSD	Limits Lower	Limits Upper	RPD	Limit Max.
Acenaphthene	BQL	100	63.3	63.6	NA	NA	0.4	30
Acenaphthylene	BQL	100	59.7	61.0	NA	NA	2.1	30
Anthracene	BQL	100	75.1	73.6	NA	NA	2.0	30
Benzo[a]anthracene	BQL	100	72.3	70.7	NA	NA	2.2	30
Benzo[a]pyrene	BQL	100	66.6	65.2	17	163	2.1	30
Benzo[b]fluoranthene	BQL	100	69.7	70.6	24	159	1.2	30
Benzo[g,h,i]perylene	BQL	100	65.0	60.6	0	219	7.1	30
Benzo[k]fluoranthene	BQL	100	72.4	71.2	11	162	1.7	30
Benzoic Acid	BQL	100	56.1	55.9	NA	NA	0.3	30
Benzyl Alcohol	BQL	100	45.5	45.0	NA	NA	1.2	30
Bis(2-chloroethoxy)methane	BQL	100	57.8	59.0	33	184	1.9	30
Bis(2-chloroethyl)ether	BQL	100	57.9	57.5	12	158	0.7	30
Bis(2-chloroisopropyl)ether	BQL	100	63.1	64.5	36	166	2.1	30
Bis(2-ethylhexyl)phthalate	BQL	100	76.9	79.0	8	158	2.7	30
4-Bromophenyl phenyl ether	BQL	100	71.9	67.4	53	127	6.4	30
Butylbenzylphthalate	BQL	100	73.9	76.3	0	152	3.2	30
4-Chloroaniline	BQL	100	40.0	42.6	NA	NA	6.2	30
4-Chloro-3-methylphenol	BQL	100	61.1	63.6	22	147	4.1	30
2-Chloronaphthalene	BQL	100	62.5	61.1	60	118	2.1	30
2-Chlorophenol	BQL	100	54.9	55.4	23	134	0.9	30
4-Chlorophenyl phenyl ether	BQL	100	60.4	61.4	25	168	1.6	30
Chrysene	BQL	100	69.7	67.0	17	168	3.9	30
Di-n-Butylphthalate	BQL	100	67.0	70.0	1	118	4.4	30
Di-n-Octylphthalate	BQL	100	81.4	84.9	4	146	4.2	30
Dibenzo[a,h]anthracene	BQL	100	76.3	70.4	0	227	8.2	30
Dibenzofuran	BQL	100	63.1	63.0	NA	NA	0.1	30
1,2-Dichlorobenzene	BQL	100	48.2	49.0	32	129	1.5	30
1,3-Dichlorobenzene	BQL	100	46.7	46.2	0	172	1.0	30
1,4-Dichlorobenzene	BQL	100	45.1	45.0	20	124	0.2	30
3,3'-Dichlorobenzidine	BQL	100	28.8	29.5	0	262	2.3	30
2,4-Dichlorophenol	BQL	100	57.3	57.3	39	135	0.0	30
Diethylphthalate	BQL	100	60.7	63.9	0	114	5.0	30
2,4-Dimethylphenol	BQL	100	37.1	37.0	32	119	0.3	30
Dimethylphthalate	BQL	100	57.9	58.2	0	112	0.4	30
4,6-Dinitro-2-methylphenol	BQL	100	76.4	75.3	0	181	1.4	30
2,4-Dinitrophenol	BQL	100	65.0	73.7	0	191	12.5	30
2,4-Dinitrotoluene	BQL	100	56.7	62.0	39	139	8.9	30
2,6-Dinitrotoluene	BQL	100	65.5	68.8	50	158	4.9	30
Fluoranthene	BQL	100	62.2	64.7	26	137	4.0	30
Fluorene	BQL	100	61.6	64.4	59	121	4.4	30
Hexachlorobenzene	BQL	100	73.0	70.4	0	152	3.7	30
Hexachlorobutadiene	BQL	100	50.1	51.5	24	116	2.7	30
Hexachlorocyclopentadiene	BQL	100	0.8	0.7	NA	NA	3.1	30
Hexachloroethane	BQL	100	50.4	50.4	40	113	0.0	30
Indeno(1,2,3-c,d)pyrene	BQL	100	71.5	63.7	0	171	11.5	30
Isophorone	BQL	100	58.2	61.2	21	196	5.1	30
2-Methylnaphthalene	BQL	100	60.6	61.3	NA	NA	1.2	30
2-Methylphenol	BQL	100	54.6	54.4	NA	NA	0.5	30
4-Methylphenol	BQL	100	96.9	104.5	NA	NA	7.6	30
Naphthalene	BQL	100	48.9	47.6	21	133	2.6	30

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Matrix Spike / Matrix Spike Duplicate (MS/MSD)

by GCMS 8270

Client Sample ID: Batch QC
Client Project ID: 9065
Lab Sample ID: 33282
Lab Project ID: G150-156
Analyzed By: JPW

Date Analyzed: 12/17/97
Date Collected: 11/28/97
Date Received: 11/28/97
Matrix: Water

	Sample	Spiked	MS	MSD	Limits Lower	Limits Upper	RPD	Limit Max.
2-Nitroaniline	BQL	100	66.3	68.2	NA	NA	2.9	30
3-Nitroaniline	BQL	100	46.5	51.4	NA	NA	10.0	30
4-Nitroaniline	BQL	100	41.9	49.3	NA	NA	16.3	30
Nitrobenzene	BQL	100	58.6	59.6	35	180	1.8	30
2-Nitrophenol	BQL	100	58.6	61.5	29	182	4.8	30
4-Nitrophenol	BQL	100	64.2	63.5	0	132	1.1	30
N-Nitrosodiphenylamine	BQL	100	66.5	69.8	NA	NA	4.8	30
N-Nitrosodi-n-propylamine	BQL	100	66.5	69.7	0	230	4.7	30
Pentachlorophenol	BQL	100	74.4	74.3	14	176	0.2	30
Phenanthrene	BQL	100	71.6	71.6	54	120	0.0	30
Phenol	BQL	100	57.7	58.0	5	112	0.5	30
Pyrene	BQL	100	74.0	75.7	52	115	2.3	30
1,2,4-Trichlorobenzene	BQL	100	52.7	54.6	44	142	3.6	30
2,4,5-Trichlorophenol	BQL	100	66.6	65.6	NA	NA	1.5	30
2,4,6-Trichlorophenol	BQL	100	62.2	61.6	37	144	0.9	30

Comments:

Concentrations are on column amounts.

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Semivolatiles
by GCMS 8270

Client Sample ID: SBLK121097
Client Project ID: 671202.501
Lab Sample ID:
Lab Project ID: G150-156
Matrix: Water

Date Collected:
Date Received:
Date Analyzed: 12/11/97
Analyzed By: JPW
Dilution: 1

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acenaphthene	10	BQL
Acenaphthylene	10	BQL
Anthracene	10	BQL
Benzo[a]anthracene	10	BQL
Benzo[a]pyrene	10	BQL
Benzo[b]fluoranthene	10	BQL
Benzo[g,h,i]perylene	10	BQL
Benzo[k]fluoranthene	10	BQL
Benzoic Acid	20	BQL
Benzyl Alcohol	10	BQL
Bis(2-chloroethoxy)methane	10	BQL
Bis(2-chloroethyl)ether	10	BQL
Bis(2-chloroisopropyl)ether	10	BQL
Bis(2-ethylhexyl)phthalate	10	BQL
4-bromophenyl phenyl ether	10	BQL
Butylbenzylphthalate	10	BQL
4-Chloroaniline	10	BQL
4-Chloro-3-methylphenol	10	BQL
2-Chloronaphthalene	10	BQL
2-Chlorophenol	10	BQL
4-Chlorophenyl phenyl ether	10	BQL
Chrysene	10	BQL
Di-n-Butylphthalate	10	BQL
Di-n-octylphthalate	10	BQL
Dibenzo[a,h]anthracene	10	BQL
Dibenzofuran	10	BQL
1,2-Dichlorobenzene	10	BQL
1,3-Dichlorobenzene	10	BQL
1,4-Dichlorobenzene	10	BQL
3,3'-Dichlorobenzidine	20	BQL
2,4-Dichlorophenol	10	BQL
Diethylphthalate	20	BQL
2,4-Dimethylphenol	10	BQL
Dimethylphthalate	10	BQL
4,6-Dinitro-2-methylphenol	50	BQL
2,4-Dinitrophenol	50	BQL
2,4-Dinitrotoluene	10	BQL
2,6-Dinitrotoluene	10	BQL
Fluoranthene	10	BQL
Fluorene	10	BQL
Hexachlorobenzene	10	BQL
Hexachlorobutadiene	10	BQL
Hexachlorocyclopentadiene	20	BQL
Hexachloroethane	10	BQL

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Semivolatiles
by GCMS 8270

Client Sample ID: SBLK121097
Client Project ID: 671202.501
Lab Sample ID:
Lab Project ID: G150-156
Matrix: Water

Date Collected:
Date Received:
Date Analyzed: 12/11/97
Analyzed By: JPW
Dilution: 1

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Indeno(1,2,3-c,d)pyrene	10	BQL
Isophorone	10	BQL
2-Methylnaphthalene	10	BQL
2-Methylphenol	10	BQL
4-Methylphenol	10	BQL
N-Nitrosodi-n-propylamine	10	BQL
N-Nitrosodiphenylamine	10	BQL
Naphthalene	10	BQL
2-Nitroaniline	10	BQL
3-Nitroaniline	10	BQL
4-Nitroaniline	10	BQL
Nitrobenzene	10	BQL
2-Nitrophenol	10	BQL
4-Nitrophenol	50	BQL
Pentachlorophenol	50	BQL
Phenanthrene	10	BQL
Phenol	10	BQL
Pyrene	10	BQL
1,2,4-Trichlorobenzene	10	BQL
2,4,5-Trichlorophenol	10	BQL
2,4,6-Trichlorophenol	10	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2,4,6-Tribromophenol	100	93	93
2-Fluorobiphenyl	100	82	82
2-Fluorophenol	100	62	62
4-Terphenyl-d14	100	93	93
Nitrobenzene-d5	100	73	73
Phenol-d6	100	65	65

Comments:

Results are corrected for %solids and dilution where applicable.

Flags:

BQL = Below Quantitation Limit.
J = Detected below the quantitation limit.

Reviewed By: ens

PASI, Inc Charlotte
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078

December 15, 1997
PACE Project Number: 671204513
NC Wastewater Lab Cert. #40
NC Drinkingwater Lab Cert. #37712
SC Lab Cert. #99030

Attn: Project Management

Client Reference: Municipal

PACE Sample Number:			92 0247108		
Date Collected:			12/03/97		
Date Received:			12/05/97		
Client Sample ID:			Mw-1		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Sulfide	mg/L	0.05	ND	376.2	12/05/97

PACE Sample Number:			92 0247116		
Date Collected:			12/03/97		
Date Received:			12/05/97		
Client Sample ID:			MW-1a		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Sulfide	mg/L	0.05	ND	376.2	12/03/97

December 15, 1997
PACE Project Number: 671204513

lient Reference: Municipal

ACE Sample Number:			92 0247124		
ate Collected:			12/03/97		
ate Received:			12/05/97		
lient Sample ID:			MW-3		
arameter	Units	PRL		METHOD	DATE ANALYZED
NORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
ulfide	mg/L	0.05	ND	376.2	12/0[illegible]

PACE Sample Number:			92 0247132		
Date Collected:			12/03/97		
Date Received:			12/05/97		
Client Sample ID:			MW-4r		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Sulfide	mg/L	0.05	ND	376.2	12/05/97

PACE Sample Number:			92 0247140		
Date Collected:			12/03/97		
Date Received:			12/05/97		
Client Sample ID:			MW-5		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Sulfide	mg/L	0.05	ND	376.2	12/05/97

December 15, 1997
PACE Project Number: 671204513

Client Reference: Municipal

PACE Sample Number:			92 0247159		
Date Collected:			12/03/97		
Date Received:			12/05/97		
Client Sample ID:			MW-6		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Sulfide	mg/L	0.05	ND	376.2	12/05/97

PACE Sample Number:			92 0247167		
Date Collected:			12/03/97		
Date Received:			12/05/97		
Client Sample ID:			MW-7		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Sulfide	mg/L	0.05	ND	376.2	12/05/97

PACE Sample Number:			92 0247175		
Date Collected:			12/03/97		
Date Received:			12/05/97		
Client Sample ID:			MW-8		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Sulfide	mg/L	0.05	ND	376.2	12/05/97

December 15, 1997
PACE Project Number: 671204513

lient Reference: Municipal

ACE Sample Number:			92 0247213		
ate Collected:			12/03/97		
ate Received:			12/05/97		
lient Sample ID:			SW-3		
arameter	Units	PRL		METHOD	DATE ANALYZED
NORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
ulfide	mg/L	0.05	ND	376.2	12/05/97

ACE Sample Number:			92 0247221		
ate Collected:			12/03/97		
ate Received:			12/05/97		
lient Sample ID:			SW-5		
arameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
ulfide	mg/L	0.05	ND	376.2	12/05/97

These data have been reviewed and are approved for release.

Walter L. Miller
Operations Manager

FOOTNOTES
for pages 1 through 4

Client Reference: Municipal

ND Not detected at or above the PRL.
PRL PACE Reporting Limit

QUALITY CONTROL DATA

December 15, 1997
PACE Project Number: 671204813

:lient Reference: Municipal

;ulfide
Batch: 93 49254
;amples: 92 0247108, 92 0247116, 92 0247124, 92 0247132, 92 0247140
92 0247159, 92 0247167, 92 0247175, 92 0247213, 92 0247221

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	930494668	Duplicate of 93 0494668	RPD
Sulfide	mg/L	0.05	ND	ND	ND	NC

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Sulfide	mg/L	0.05	0.20	95%

FOOTNOTES
for page 6

December 15, 1997
PACE Project Number: 671204513

Client Reference: Municipal

NC	No calculation due to value below detection limit.
ND	Not detected at or above the PRL.
PRL	PACE Reporting Limit
RPD	Relative Percent Difference

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Tel: 704-875-9092
Fax: 704-875-9091

Pace Analytical

Pace Analytical Charlotte
9800 Kincey Ave.
Suite# 100
Huntersville, NC 28078

Pace Project Number: 105014
Client Project ID: 671204.503

Attn: Client Service
Phone: 704-875-9092

Solid results are reported on a dry weight basis

Pace Sample No: 10423663 Date Collected: 12/03/97
Matrix: Water
Client Sample ID: 24710.8 Date Received: 12/11/97

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Metals							
Mercury, CVAAS Method: EPA 245.1 Prep Method: EPA 245.1							
Mercury	ND	ug/L	0.2	12/16/97	DWM	7439-97-6	

Pace Project Number: 105014
Client Project ID: 671204.503

Pace Sample No: 10423671 Date Collected: 12/03/97
Matrix: Water

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Tel: 704-875-9092
Fax: 704-875-9091

Pace Analytical

Client Sample ID: 24711.6 Date Received: 12/11/97

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Metals							
Mercury, CVAAS Method: EPA 245.1 Prep Method: EPA 245.1							
Mercury	0.395	ug/L	0.2	12/16/97	DWM	7439-97-6	

$\frac{.395ug}{2} \times \frac{1mg}{1000ug}$

DATE: 12/18/97
PAGE: 3

Pace Project Number: 105014
Client Project ID: 671204.503

Pace Sample No: 10423689 Date Collected: 12/03/97
Matrix: Water
Client Sample ID: 24712.4 Date Received: 12/11/97

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Metals							
Mercury, CVAAS Method: EPA 245.1 Prep Method: EPA 245.1							
Mercury	ND	ug/L	0.2	12/16/97	DWM	7439-97-6	

Pace Analytical

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Tel: 704-875-9092
Fax: 704-875-9091

Pace Project Number: 105014
Client Project ID: 671204.503

Pace Sample No: 10423697 Date Collected: 12/03/97
Matrix: Water
Client Sample ID: 24713.2 Date Received: 12/11/97

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Metals							
Mercury, CVAAS	Method: EPA 245.1					Prep Method: EPA 245.1	
Mercury	ND	ug/L	0.2	12/16/97	DWM	7439-97-6	

Pace Project Number: 105014
Client Project ID: 671204.503

Pace Sample No: 10423705 Date Collected: 12/03/97
Matrix: Water
Client Sample ID: 24714.0 Date Received: 12/11/97

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Metals							

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Tel: 704-875-9092
Fax: 704-875-9091

Pace Analytical

Pace Sample No: 10423721 Date Collected: 12/03/97
Matrix: Water
Client Sample ID: 24716.7 Date Received: 12/11/97

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Metals							
Mercury, CVAAS Method: EPA 245.1 Prep Method: EPA 245.1							
Mercury	ND	ug/L	0.2	12/16/97	DWM	7439-97-6	

DATE: 12/18/97
PAGE: 8

Pace Project Number: 105014
Client Project ID: 671204.503

Pace Sample No: 10423739 Date Collected: 12/03/97
Matrix: Water
Client Sample ID: 24717.5 Date Received: 12/11/97

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Metals							
Mercury, CVAAS Method: EPA 245.1 Prep Method: EPA 245.1							
Mercury	ND	ug/L	0.2	12/16/97	DWM	7439-97-6	

Pace Analytical

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Tel: 704-875-9092
Fax: 704-875-9091

Pace Project Number: 105014
Client Project ID: 671204.503

Pace Sample No: 10423747 Date Collected: 12/03/97
Matrix: Water
Client Sample ID: 24721.3 Date Received: 12/11/97

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Metals							
Mercury, CVAAS Method: EPA 245.1 Prep Method: EPA 245.1							
Mercury	ND	ug/L	0.2	12/16/97	DWM	7439-97-6	

Pace Project Number: 105014
Client Project ID: 671204.503

Pace Sample No: 10423754 Date Collected: 12/03/97
Matrix: Water
Client Sample ID: 24722.1 Date Received: 12/11/97

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Metals							

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Tel: 704-875-9092
Fax: 704-875-9091

Pace Analytical

Analysis Method: EPA 245.1 Analysis Description: Mercury, CVAAS
Associated Pace Samples: 10423663 10423671 10423689 10423697 10423705
10423713 10423721 10423739 10423747 10423754

METHOD BLANK: 10428548
Associated Pace Samples:
10423663 10423671 10423689 10423697 10423705
10423713 10423721
10423739 10423747 10423754

Parameter	Units	Method Blank Result	PRL	Footnotes
Mercury	ug/L	ND	0.2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 10428555 10428563

Parameter	Units	Matrix Spike 10423614	Spike Conc.	Matrix Spike Result	% Rec	Sp. Dup. Result	Dup % Rec	RPD	Footnotes
Mercury	ug/L	0	5.0	4.945	98.9	4.883	97.7	1	

LABORATORY CONTROL SAMPLE: 10428571

Parameter	Units	Spike Conc.	LCS Spike Result	% Rec	Footnotes
Mercury	ug/L	5.0	4.863	97.3	

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Tel: 704-875-9092
Fax: 704-875-9091

Pace Analytical

Mercury, CVAAS Method: EPA 245.1 Prep Method: EPA

245.1						
Mercury	ND	ug/L	0.2	12/16/97	DWM	7439-97-6

DATE: 12/18/97
PAGE: 11

Pace Project Number: 105014
Client Project ID: 671204.503

PARAMETER FOOTNOTES

ND Not Detected
NC Not Calculable
PRL Pace Reporting Limit

QUALITY CONTROL DATA DATE: 12/18/97

PAGE: 12

Pace Analytical Charlotte
9800 Kincey Ave.
Suite# 100
Huntersville, NC 28078

Pace Project Number: 105014
Client Project ID: 671204.503

Attn: Client Service
Phone: 704-875-9092

QC Batch ID: 8304 QC Batch Method: EPA 245.1

Pace Analytical

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Tel: 704-875-9092
Fax: 704-875-9091

Pace Project Number: 105014
Client Project ID: 671204.503

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND Not Detected
NC Not Calculable
PRL Pace Reporting Limit
RPD Relative Percent Difference

Pace Analytical

393897

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: Municipal Engineering Services Co	Report To: Rick Allison	Turn around Time: ☐ 24 Hours ☐ 48 Hours ☐ 3-5 Days ☐ 1 Week 2 Weeks ☒ Normal 14 Days	Pace Client No.
Address: 1110 Benson Hwy	Bill To: MESCO		Pace Project Manager
Garner NC 27529	P.O. # / Billing Reference: Box 97		Pace Project No.
Phone: (919) 777-5393	Project Name / No.: Alexander / G970430		*Requested Due Date:

Sampled By (PRINT): Rick Allison & Jim Skinner 12/3/97

Sampler Signature: [signature] Date Sampled:

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA (HCL)	NaOH		Full App IX	App IX volatile							REMARKS
1	Equipment Blank	1:10	H2O		2								X							24718.3
2	Field Blank	11:10			2								X							24719.1
3	Trip Blank				2								X							24720.5
4	S.W. 3				13							X								24721.3
5	S.W. 5	2:00			13							X								24722.1
6																				
7																				
8																				

SHIPMENT METHOD	AIR BILL NO.	SHIPPING DATE	NUMBER OF COOLERS

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature] MESCO	12/04	4:30	[signature] Malloney	12/04	12:[illegible]
	Malloney			[signature]	12/4	16:[illegible]

Additional Comments

G97103.141

SAMPLE CONDITION

Temp: _____ °C | Received on Ice: Y / N | Sealed Cooler: Y / N | Samples Intact: Y / N

SEE REVERSE SIDE FOR INSTRUCTIONS

8/97

Pace Analytical

393896

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: Municipal Engineering Services Co	Report To: Rick Allison	Turn around Time	Pace Client No.
Address: 1110 Bonanza	Bill To: MESCO	☐ 24 Hours	Pace Project Manager
Bismarck ND 58729	P.O. # / Billing Reference: D-97	☐ 48 Hours	Pace Project No.: 6712045 13
Phone: (919) [redacted] 772-5393	Project Name / No.: Alexander / 6972013.0	☐ 3-5 Days	*Requested Due Date:
		☐ 1 Week 2 Weeks	
		☑ Normal 14 Days	

Sampled By (PRINT): Rick Allison / Dave Skinner 12/3/97

Sampler Signature: [signature] Date Sampled:

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA (HCL)	NaOH		ANALYSES REQUEST: Fe, Mn, SO4 II								REMARKS
1	MW-1	10:00			12							X								24710.8
2	MW-1a	11:20																		24711.6
3	MW-3	2:40			10										24712.4					[illegible]
4	MW-4r	3:00																		24713.2
5	MW-5	3:10																		24714.0
6	MW-6	11:35																		24715.9
7	MW-7	1:00																		24716.7
8	MW-8	10:50																		24717.5

SHIPMENT METHOD	AIR BILL NO.	SHIPPING DATE	NUMBER OF COOLERS

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[illegible] / MESCO			J Maloney	12/04	1225
	J Maloney	12/04	4:30	[illegible]	12/4	1600

Additional Comments

SAMPLE CONDITION

Temp: _____ °C	Received on Ice: (Y) / N	Sealed Cooler: Y (N)	Samples Intact: (Y) / N	✓

SEE REVERSE SIDE FOR INSTRUCTIONS

8/97

Pace Analytical

393896

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: Municipal Engineering Services Co.	Report To: Rick Allison	Turn around Time	Pace Client No.
Address: 1140 Benson Hwy	Bill To: MESCO	☐ 24 Hours	Pace Project Manager
Garner NC 27529	P.O. # / Billing Reference: Box 97	☐ 48 Hours	Pace Project No.
Phone: (919) [redacted] 772-5393	Project Name / No.: Alexander / G97013.0	☐ 3-5 Days	*Requested Due Date:
		☐ 1 Week 2 Weeks	
		☑ Normal 14 Days	

Sampled By (PRINT): Rick Allison / Jim Skinner

Sampler Signature: [signature]

Date Sampled: 12/3/97

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA (HCL)	NaOH	ANALYSES REQUEST: Full App. II	REMARKS
1	MW-1	10:00	H2O		13						X	
2	MW-1a	11:20										
3	MW-3	2:40			10							WELL WAS DRY COULD NOT ALL TOP OFF
4	MW-4r	3:00										
5	MW-5	3:40										
6	MW-6	11:35										
7	MW-7	1:00										
8	MW-8	10:50										

SHIPMENT METHOD	AIR BILL NO.	SHIPPING DATE	NUMBER OF COOLERS

Additional Comments

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature] / MESCO			J Maloney	12/04	1225

SAMPLE CONDITION

Temp: _____ °C	Received on Ice: Y / N	Sealed Cooler: Y / N	Samples Intact: Y / N

SEE REVERSE SIDE FOR INSTRUCTIONS

8/97

Pace Analytical

393897

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: Municipal Engineering Services Co	Report To: Rick Allison	Turn around Time	Pace Client No.
Address: 1140 Benson Hwy	Bill To: MESCO	☐ 24 Hours	Pace Project Manager
Garner NC 27529	P.O. # / Billing Reference: Box 97	☐ 48 Hours	Pace Project No.
Phone: (919) 772-5393	Project Name / No. Alexander / G970430	☐ 3-5 Days	*Requested Due Date:
		☐ 1 Week 2 Weeks	
		☒ Normal 14 Days	

Sampled By (PRINT): Rick Allison / Jim Skinner

Sampler Signature: [signature] Date Sampled: 12/3/97

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA (HCL)	NaOH		ANALYSES REQUEST: Full App IV	App IV volatiles								REMARKS
1	Equipment Blank	4:10	H_2O		2								X								
2	Field Blank	4:10			2								X								
3	Trip Blank				2								X								
4	SW-3				13							X									
5	SW-5	2:00			13							X									
6																					
7																					
8																					

SHIPMENT METHOD	AIR BILL NO.	SHIPPING DATE	NUMBER OF COOLERS

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature] / MESCO			J Maloney	12/04	12:8

Additional Comments

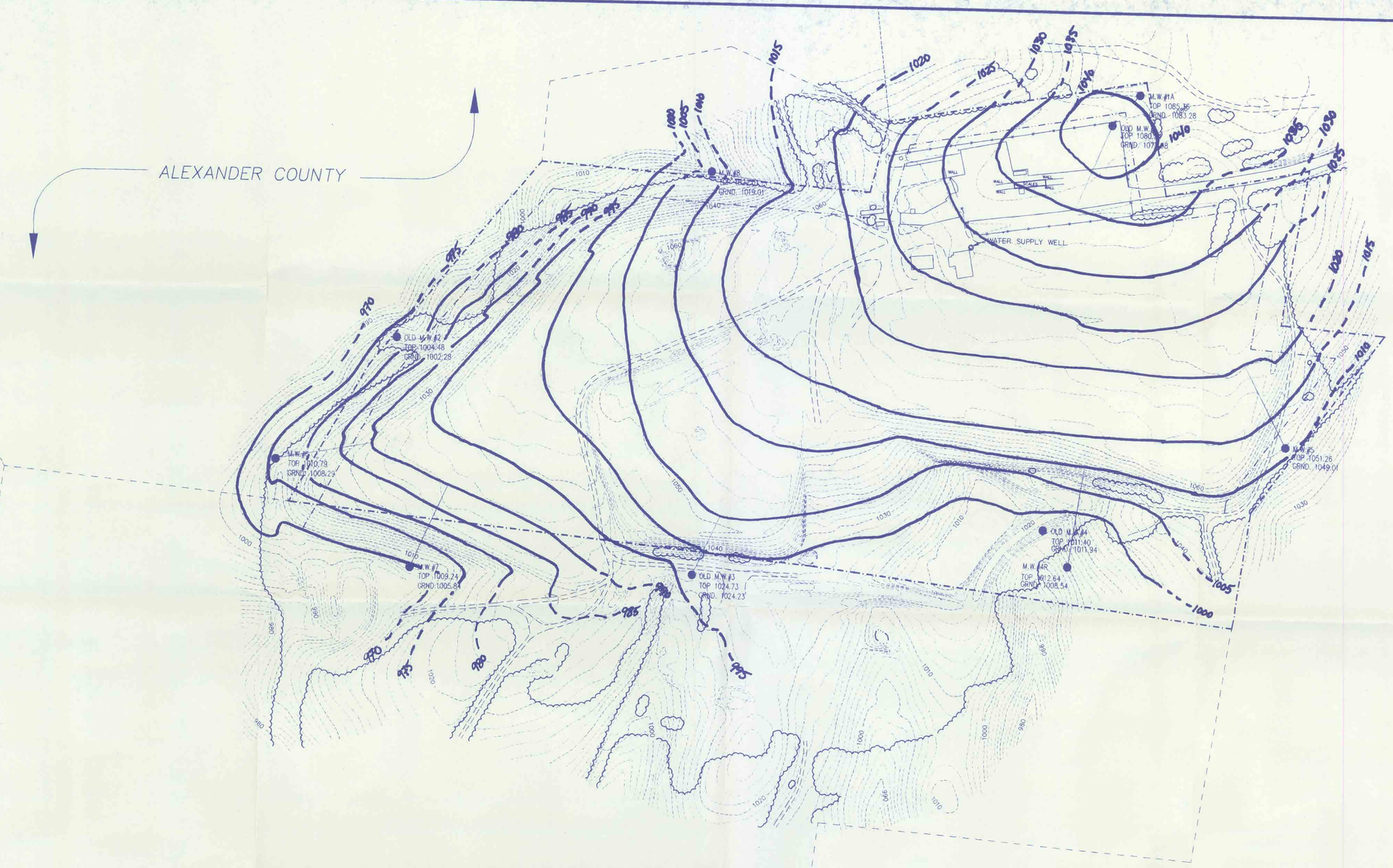
G971031.141

SAMPLE CONDITION

Temp: _____ °C	Received on Ice: Y / N	Sealed Cooler: Y / N	Samples Intact: Y / N

SEE REVERSE SIDE FOR INSTRUCTIONS

8/97



LEGEND

- EXISTING CONTOURS
- PROPERTY LINES
- PERMITTED PROPERTY LINE
- BUFFFER ZONE
- TREE LINE
- ROAD
- WATER

NOTES:

THIS MAP WAS GENERATED FROM AERIAL PHOTOS FLOWN ON 2-23-94 BY TRIANGLE AERIAL MAPPING.

NOTE:
WATER LEVEL READINGS TAKEN ON DECEMBER 3, 1997

Monitoring Well #	Groundwater Elevation
MW-1	1044.93
MW-1A	1039.01
MW-3	991.10
MW-4R	996.85
MW-5	1011.83
MW-6	977.87
MW-7	969.32
MW-8	1009.16

DATE	BY	REV.	DESCRIPTION
5-3-96	LCH	3	REV. PER DEHNR LETTER DATED 4/29/96
4-9-96	CHS	2	DRAWING ORIENTATION AND PROPERTY LOCATION
4-6-95	CHS	1	ADD MONITORING WELL #5

MUNICIPAL ENGINEERING SERVICES CO., P.A.
CONSULTING ENGINEERS
BOONE, N.C. GARNER, N.C.

PROJECT: ALEXANDER COUNTY SANITARY LANDFILL
OWNER: ALEXANDER COUNTY
TITLE: OPERATION PLAN
MONITORING WELL LOCATIONS