

Appendix O

Appendix O
Radiological Spaces Liquid Survey Results



FROEHLING & ROBERTSON, INC
GEOTECHNICAL • ENVIRONMENTAL • MATERIALS
ENGINEERS • LABORATORIES
"OVER ONE HUNDRED YEARS OF SERVICE"

CERTIFICATE OF ANALYSIS

May 17, 2005

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LAB#: 0504550
CLIENT: ERM
200 Harry S. Truman Parkway, Suite 400
Annapolis MD, 21401
Brent Williams
PROJECT: NS Savannah
PROJECT NO.: 0028178
SAMPLED BY: Brent Williams
RECEIVED: 04/26/05

Results to follow.

Audrey Brubeck
Manager Analytical Laboratory Services

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CERTIFICATIONS:

VIRGINIA DRINKING WATER - 00150
NORTH CAROLINA DENR - 432
SOUTH CAROLINA DHEC- 93010001 & 93010
MARYLAND DRINKING WATER - 279



Lab ID: 0504550-01 (Water)
Client ID: Secondary Cont. Sump-2 (o)
Sampled Date/Time: 4/25/05 10:25

Analyte	Result	Quant		Units	Prepared	Analyzed	Method	Analyst	Notes
		Limit							
Metals									
Silver	BQL	0.02		mg/L	5/3/05 10:00	5/4/05 18:37	SW846/6010	TG	
Arsenic	BQL	0.01		"	5/3/05 10:00	5/9/05 13:46	"	TG	
Barium	BQL	0.01		"	5/3/05 10:00	5/9/05 13:46	"	TG	
Cadmium	0.02	0.01		"	5/3/05 10:00	5/9/05 13:46	"	TG	
Chromium	0.3	0.01		"	5/3/05 10:00	5/9/05 13:46	"	TG	
Mercury	0.00027	0.0002		"	5/3/05 10:01	5/3/05 16:23	SW846/7470 A	JLW	
Lead	0.5	0.01		"	5/3/05 10:00	5/9/05 13:46	SW846/6010	TG	
Selenium	BQL	0.01		"	5/3/05 10:00	5/9/05 13:46	"	TG	
Semivolatile Organic Compounds									
Acenaphthene	BQL	28		µg/L	4/27/05 15:00	5/13/05 20:02	SW846/8270C	JHV	
Acenaphthylene	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Aniline	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Anthracene	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Benzo(a)anthracene	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Benzo(b)fluoranthene	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Benzo(k)fluoranthene	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Benzo(g,h,i)perylene	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Benzo(a)pyrene	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Bis(2-chloroethoxy)methane	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Bis(2-chloroethyl)ether	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Bis(2-chloroisopropyl)ether	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
4-Bromophenylphenylether	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Bis(2-ethylhexyl)phthalate	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Butyl benzyl phthalate	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
4-Chloroaniline	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
4-Chloro-3-methylphenol	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
2-Chloronaphthalene	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
2-Chlorophenol	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
4-Chlorophenylphenylether	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Chrysene	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Dibenz(a,h)anthracene	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Dibenzofuran	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Di-n-butyl phthalate	BQL	28		"	4/27/05 15:00	5/13/05 20:02	"	JHV	



Lab ID: 0504550-01 (Water)
Client ID: Secondary Cont. Sump-2 (o)
Sampled Date/Time: 4/25/05 10:25

Analyte	Result	Quant		Prepared	Analyzed	Method	Analyst	Notes
		Limit	Units					
Semivolatle Organic Compounds								
1,2-Dichlorobenzene	BQL	28	µg/L	4/27/05 15:00	5/13/05 20:02	SW846/8270C	JHV	
1,3-Dichlorobenzene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
1,4-Dichlorobenzene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
3,3'-Dichlorobenzidine	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
2,4-Dichlorophenol	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Diethyl phthalate	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
2,4-Dimethylphenol	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Dimethyl phthalate	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
4,6-Dinitro-2-methylphenol	BQL	111	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
2,4-Dinitrophenol	BQL	111	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
2,4-Dinitrotoluene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
2,6-Dinitrotoluene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Di-n-octyl phthalate	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Fluoranthene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Fluorene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Hexachlorobenzene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Hexachlorobutadiene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Hexachlorocyclopentadiene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Hexachloroethane	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Indeno(1,2,3-cd)pyrene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Isophorone	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
2-Methylnaphthalene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
2-Methylphenol	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
4-Methylphenol	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Napthalene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
2-Nitroaniline	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
3-Nitroaniline	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
4-Nitroaniline	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Nitrobenzene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
2-Nitrophenol	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
4-Nitrophenol	BQL	111	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
N-Nitrosodimethylamine	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
N-Nitrosodiphenylamine	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
N-Nitroso-di-n-propylamine	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	



Lab ID: 0504550-01 (Water)
Client ID: Secondary Cont. Sump-2 (o)
Sampled Date/Time: 4/25/05 10:25

Analyte	Result	Quant		Prepared	Analyzed	Method	Analyst	Notes
		Limit	Units					
Semivolatile Organic Compounds								
Pentachlorophenol	BQL	111	µg/L	4/27/05 15:00	5/13/05 20:02	SW846/8270C	JHV	
Phenanthrene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Phenol	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Pyrene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
1,2,4-Trichlorobenzene	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
2,4,5-Trichlorophenol	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
2,4,6-Trichlorophenol	BQL	28	"	4/27/05 15:00	5/13/05 20:02	"	JHV	
Volatile Organic Compounds								
Benzene	BQL	5	µg/L	5/2/05 10:37	5/3/05 1:57	SW846/8260B	SS	
Bromobenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Bromochloromethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Bromodichloromethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Bromoform	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Bromomethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
n-Butylbenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
sec-Butylbenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
tert-Butylbenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Carbon tetrachloride	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Chlorobenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Chloroethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Chloroform	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Chloromethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
2-Chlorotoluene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
4-Chlorotoluene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Dibromochloromethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,2-Dibromo-3-chloropropane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,2-Dibromoethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Dibromomethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,2-Dichlorobenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,3-Dichlorobenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,4-Dichlorobenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Dichlorodifluoromethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,1-Dichloroethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	



Lab ID: 0504550-01 (Water)
Client ID: Secondary Cont. Sump-2 (o)
Sampled Date/Time: 4/25/05 10:25

Analyte	Result	Quant		Prepared	Analyzed	Method	Analyst	Notes
		Limit	Units					
Volatile Organic Compounds								
1,2-Dichloroethane	BQL	5	µg/L	5/2/05 10:37	5/3/05 1:57	SW846/8260B	SS	
1,1-Dichloroethene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
cis-1,2-Dichloroethene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
trans-1,2-Dichloroethene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,2-Dichloropropane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,3-Dichloropropane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
2,2-Dichloropropane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,1-Dichloropropene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Ethylbenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Hexachlorobutadiene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Isopropylbenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
p-Isopropyltoluene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Methylene chloride	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Naphthalene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
n-Propylbenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Styrene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,1,1,2-Tetrachloroethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,1,2,2-Tetrachloroethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Tetrachloroethene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Toluene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,2,3-Trichlorobenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,2,4-Trichlorobenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,1,1-Trichloroethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,1,2-Trichloroethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Trichloroethene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Trichlorofluoromethane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,2,3-Trichloropropane	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,2,4-Trimethylbenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
1,3,5-Trimethylbenzene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
Vinyl chloride	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	
m,p-Xylene	BQL	10	"	5/2/05 10:37	5/3/05 1:57	"	SS	
o-Xylene	BQL	5	"	5/2/05 10:37	5/3/05 1:57	"	SS	



Lab ID: 0504550-02 (Oil)
Client ID: Stabilizer hyd. oil
Sampled Date/Time: 4/25/05 13:15

Analyte	Result	Quant		Units	Prepared	Analyzed	Method	Analyst	Notes
		Limit							
PCBs - Polychlorinated Biphenyls									
Aroclor 1016	28	1		mg/kg	5/9/05 15:00	5/10/05 10:22	SW846/8082	CLA	
Aroclor 1221	BQL	1		"	5/9/05 15:00	5/10/05 10:22	"	CLA	
Aroclor 1232	BQL	1		"	5/9/05 15:00	5/10/05 10:22	"	CLA	
Aroclor 1242	BQL	1		"	5/9/05 15:00	5/10/05 10:22	"	CLA	
Aroclor 1248	BQL	1		"	5/9/05 15:00	5/10/05 10:22	"	CLA	
Aroclor 1254	BQL	1		"	5/9/05 15:00	5/10/05 10:22	"	CLA	
Aroclor 1260	12	1		"	5/9/05 15:00	5/10/05 10:22	"	CLA	
Subcontracted Analysis (Air, Water & Soil, Inc.)									
Total Halogens	73	10		mg/kg	5/5/05 0:00	5/5/05 0:00	SW846/9076	sub	



Lab ID: 0504550-03 (Oil)
Client ID: Stabilizer lube oil
Sampled Date/Time: 4/25/05 13:40

Analyte	Result	Quant		Units	Prepared	Analyzed	Method	Analyst	Notes
		Limit							
PCBs - Polychlorinated Biphenyls									
Aroclor 1016	BQL	1		mg/kg	5/9/05 15:00	5/10/05 10:49	SW846/8082	CLA	
Aroclor 1221	BQL	1		"	5/9/05 15:00	5/10/05 10:49	"	CLA	
Aroclor 1232	BQL	1		"	5/9/05 15:00	5/10/05 10:49	"	CLA	
Aroclor 1242	BQL	1		"	5/9/05 15:00	5/10/05 10:49	"	CLA	
Aroclor 1248	BQL	1		"	5/9/05 15:00	5/10/05 10:49	"	CLA	
Aroclor 1254	BQL	1		"	5/9/05 15:00	5/10/05 10:49	"	CLA	
Aroclor 1260	BQL	1		"	5/9/05 15:00	5/10/05 10:49	"	CLA	
Subcontracted Analysis (Air, Water & Soil, Inc.)									
Total Halogens	BQL	10		mg/kg	5/5/05 0:00	5/5/05 0:00	SW846/9076	sub	



Lab ID: 0504550-04 (Water)
Client ID: Trip Blank
Sampled Date/Time: 4/25/05 0:00

Analyte	Result	Quant		Prepared	Analyzed	Method	Analyst	Notes
		Limit	Units					
Volatile Organic Compounds								
Benzene	BQL	5	µg/L	5/2/05 10:37	5/2/05 19:48	SW846/8260B	SS	
Bromobenzene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
Bromochloromethane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
Bromodichloromethane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
Bromoform	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
Bromomethane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
n-Butylbenzene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
sec-Butylbenzene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
tert-Butylbenzene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
Carbon tetrachloride	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
Chlorobenzene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
Chloroethane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
Chloroform	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
Chloromethane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
2-Chlorotoluene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
4-Chlorotoluene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
Dibromochloromethane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,2-Dibromo-3-chloropropane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,2-Dibromoethane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
Dibromomethane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,2-Dichlorobenzene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,3-Dichlorobenzene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
Dichlorodifluoromethane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,4-Dichlorobenzene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,1-Dichloroethane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,2-Dichloroethane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,1-Dichloroethene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
cis-1,2-Dichloroethene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
trans-1,2-Dichloroethene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,2-Dichloropropane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,3-Dichloropropane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
2,2-Dichloropropane	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,1-Dichloropropene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	
Ethylbenzene	BQL	5	"	5/2/05 10:37	5/2/05 19:48	"	SS	



Lab ID: 0504550-04 (Water)
Client ID: Trip Blank
Sampled Date/Time: 4/25/05 0:00

Analyte	Result	Quant		Units	Prepared	Analyzed	Method	Analyst	Notes
		Limit							
Volatile Organic Compounds									
Hexachlorobutadiene	BQL	5		µg/L	5/2/05 10:37	5/2/05 19:48	SW846/8260B	SS	
Isopropylbenzene	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
p-Isopropyltoluene	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
Methylene chloride	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
Naphthalene	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
n-Propylbenzene	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
Styrene	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,1,1,2-Tetrachloroethane	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,1,2,2-Tetrachloroethane	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
Tetrachloroethene	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
Toluene	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,2,3-Trichlorobenzene	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,2,4-Trichlorobenzene	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,1,1-Trichloroethane	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,1,2-Trichloroethane	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
Trichloroethene	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
Trichlorofluoromethane	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,2,3-Trichloropropane	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,2,4-Trimethylbenzene	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
1,3,5-Trimethylbenzene	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
Vinyl chloride	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	
m,p-Xylene	BQL	10		"	5/2/05 10:37	5/2/05 19:48	"	SS	
o-Xylene	BQL	5		"	5/2/05 10:37	5/2/05 19:48	"	SS	

Notes and Definitions

Does not pass acceptance criteria.

mg/L = milligrams per Liter

µg/L = micrograms per Liter

pCi/L = picocuries per Liter

BQL = Below the Quantitation Limit

mg/kg = milligrams per kilogram

ppm = parts per million

CFU/mL = Colony forming units per milliliter

su = standard units

NTU = Nephelometric Turbidity Units

MPN/100mL = Most Probable Number per 100 milliliters



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CERTIFICATE OF ANALYSIS

May 17, 2005

Page 1 of 1

LAB#: 0504527
CLIENT: ERM
 200 Harry S. Truman Parkway, Suite 400
 Annapolis MD, 21401
 Brent Williams
PROJECT: NS Savannah
PROJECT NO.: 0028178
SAMPLED BY: Brent Williams
RECEIVED: 04/23/05

<u>PARAMETER</u>	<u>PREP DATE/TIME</u>	<u>ANALYSIS DATE/TIME</u>	<u>METHOD</u>	<u>ANALYST</u>
PCBs	5/9/05 15:00	5/10/05 9:29	5/14/05 12:35	SW846/8082 CLA
Total Halogens	4/27/05 9:30	4/27/05 9:30	SW846/9076	sub

<u>LAB #</u>	0504527-01	0504527-02	-	-	
<u>SAMPLE ID</u>	sec.cont. sump (0)	Pri. contain (0)	-	-	
<u>DATE/TIME</u>	04/15/05	04/15/05	-	-	Quant
<u>MATRIX</u>	Oil	Oil	-	-	Limit: Units

PCBs - Polychlorinated Biphenyls (Oil)

Aroclor 1016	76	1180	-	-	1	mg/kg
Aroclor 1221	<1	<1	-	-	1	mg/kg
Aroclor 1232	<1	<1	-	-	1	mg/kg
Aroclor 1242	<1	<1	-	-	1	mg/kg
Aroclor 1248	<1	<1	-	-	1	mg/kg
Aroclor 1254	<1	<1	-	-	1	mg/kg
Aroclor 1260	197	430	-	-	1	mg/kg

Subcontracted Analysis (Primary Laboratories, Inc.) (Oil)

Total Halogens	107	242	-	-	10	mg/kg
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Notes and Definitions

mg/L = milligrams per Liter	mg/kg = milligrams per kilogram	su = standard units
µg/L = micrograms per Liter	ppm = parts per million	NTU = Nephelometric Turbidity Units
BQL = Below the Quantitation Limit	CFU/mL = Colony forming units per milliliter	MPN/100 mL = Most Probable Number per 100 milliliters

Audrey Brubeck
Manager Analytical Laboratory Services

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CERTIFICATIONS: VIRGINIA DRINKING WATER - 00150
 NORTH CAROLINA DENR - 432
 SOUTH CAROLINA DHEC- 93010001 & 93010
 MARYLAND DRINKING WATER - 279