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Fac/Perm/Co ID # ~~44-06~~ 44-01 op | Date 3/20/12 | Doc ID# | DIN

GROUNDWATER AND SURFACE WATER ASSESSMENT FOR LANDFILL NUMBER 6

Canton, North Carolina

Volume II

Prepared by:

ROY F. WESTON, INC.
1000 Perimeter Park Drive, Suite E
Morrisville, North Carolina 27560

30 March 1995

Appendix H

GROUNDWATER AND SURFACE WATER ASSESSMENT FOR LANDFILL NUMBER 6

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APPENDIX H

SUMMARY TABLE OF GROUNDWATER QUALITY DATA AND LABORATORY ANALYTICAL REPORTS

TABLE 1
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-1
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	12-Mar-92	13-Jul-83	13-Sep-83	17-Dec-86	13-Feb-87	03-Jun-87	23-Sep-87	30-Nov-87	22-Mar-88
Arsenic	0.05	0.038	0.001	<0.001	0.04	0.006	0.025	<0.005	<0.003	<0.005
Barium	1.0		<0.1	0.11	<0.2	0.1	<0.1	<0.2	<0.1	<0.1
Calcium	--	70	8.4	5.6	0.04	0.10	0.006	1.4	1.2	0.69
Cadmium	0.005	0.006	<0.01	<0.01			<0.01	<0.005	<0.005	<0.005
Chromium	0.05	0.01	0.3	<0.02	0.04	0.09	<0.02	<0.02	<0.02	<0.02
Copper	1.0									
Iron	0.3	68	10.4	114	92	118	34.7	3.2	4.3	1.3
Lead	0.05	0.21	<0.05	<0.05	0.3	0.32	0.06	<0.03	<0.03	<0.03
Magnesium	--		5.8	17.8						
Manganese	0.05	0.69	0.16	0.27	0.13	0.12	0.08	0.04	0.04	0.02
Mercury	0.0011	<0.0005	<0.0005	0.013	0.0003	0.0004	<0.0003	<0.0003	<0.0002	<0.001
Nickel	0.15	0.08	<0.03	<0.03	0.08	0.13	0.05	<0.03	<0.03	<0.03
Potassium	--		100	91						
Selenium	0.01	<0.005	<0.005	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Silver	0.05	<0.01	<0.01	<0.01	0.03	0.016	0.025	<0.003	<0.01	<0.01
Sodium	--	59	30.0	58.0	194	93	2320	28.0	26.5	21.6
Zinc	5.0		0.25	1.6						
Chloride	250	1.6	6.0	4.0	6.0	3.5	6.5	2.5	3.0	3.5
Fluoride	2.0	<0.1	0.22	0.25	1.0	0.51	0.54	0.41	0.36	0.2
Nitrite	1.0	0.11	0.04	0.34	0.005	<0.01	<0.02	<0.005	<0.005	<0.005
Nitrate	10.0		1.0	0.91						
Phenol, Total	--	0.014	0.14	<0.01	0.03	<0.01	<0.05	<0.01	<0.01	<0.01
Sulfate	250	70	92.0	170	900	190	320	96.0	65.0	27.0
Dissolved Solids	500	1300	6.7	280	13950	12600	5000	316	508	304
TOC	--	8.5	6.9	3.0	38.0	29.5	17.4	2.1	1.0	1.2
TOH	--	0.032	0.79		0.029	2.35	0.783	0.039	0.016	0.007
pH (Standard Units)	6.5-8.5	6.88	9.9	7.1	7.3	7.3	6.8	6.0	6.0	6.5
Specific Conductance [c]	--	360	380	362	380	302	344	182	191	135
(µmhos/cm @ 25°C)	--									

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 1
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-1
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	18-Oct-88	30-Nov-89	24-May-90	07-Dec-90	21-May-91	30-OCT-91
Arsenic	0.05	<0.01	<0.01	<0.005	<0.01	0.05	<0.15
Barium	1.0	<1.0	<0.2	0.043	<0.5	0.75	0.58
Calcium	--	7.2	68.2	23.9	23.0	109	83.5
Cadmium	0.005	<0.01	0.005	0.007	<0.005	<0.01	<0.01
Chromium	0.05	0.055	<0.02	<0.008	<0.02	0.03	<0.05
Copper	1.0						
Iron	0.3	39.0	34.8	14.6	15.6	91.2	90.8
Lead	0.05	0.13	0.0368	<0.03	<0.03	0.32	0.33
Magnesium	--						
Manganese	0.05	0.13	0.87		0.25	0.88	0.86
Mercury	0.0011	<0.001	0.00021	<0.0002	<0.0002	<0.002	<0.003
Nickel	0.15	<0.03	0.472	0.076	0.07	0.09	<0.12
Potassium	--						
Selenium	0.01	<0.001	<0.01	<0.005	<0.006	<0.002	<0.05
Silver	0.05	0.015	<0.01	<0.005	<0.01	<0.01	<0.05
Sodium	--	57.0	61.2	28.8	33.0	77.4	80.5
Zinc	5.0						
Chloride	250	9.5	1.0	1.0	2.5	7.18	1.0
Fluoride	2.0	2.1	0.26	0.14	<0.1	0.18	<1.0
Nitrite	1.0	<0.005	<0.1	0.08	<0.005		<0.05
Nitrate	10.0						
Phenol, Total	--	<0.01	<0.005	0.007	<0.01	<0.1	<0.01
Sulfate	250	173	512	150	184	141	157
Dissolved Solids	500	4304	762	290	332	1644	1735
TOC	--	1.7	2.0	3.0	21.4	<0.1	5.0
TOH	--	0.4	<0.01	0.07	0.03	0.011	<0.01
pH (Standard Units)	6.5-8.5	6.2	5.98	5.8	5.4	7.05	6.95
Specific Conductance [c]	--	199	807	390	403	440	458
(µmhos/cm @ 25°C)	--						

Analytical results are reported in parts per million (ppm) unl

TABLE 1A
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-1A
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	12-Mar-92	13-May-92	18-May-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05	<0.005	<0.005	<0.01	<0.005	<0.010	<0.01	<0.001	<0.001
Barium	1.0			1.1	2.4	<0.20	<0.2	<0.1	2.688
Calcium	--	24	5.4		6.7	4.3 J	<0.01	2.437	6.266
Cadmium	0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.01	<0.001	0.022
Chromium	0.05	0.52	0.07	0.08	0.16	<0.05	<0.05	<0.005	0.197
Copper	1.0			0.05				<0.005	0.162
Iron	0.3	540	72.0	67.37	160	15	10	2.076	191.55
Lead	0.05	0.054	0.007	0.010	0.018	0.012 J	<0.05	<0.01	0.011
Magnesium	--							1.405	48.425
Manganese	0.05	7.0	1.2	1.25	1.9	0.72	0.27	0.214	1.568
Mercury	0.0011	<0.0005	<0.0005	<0.0002	<0.0005	<0.0020	<0.002	<0.002	0.0005
Nickel	0.15	0.26	0.04		0.08	<0.04	<0.04	<0.005	0.095
Potassium	--							2.112	63.635
Selenium	0.01	<0.005	<0.005	<0.02	<0.005	<0.010	<0.01	0.004	0.005
Silver	0.05	<0.01	<0.01	<0.05	<0.01	<0.05	<0.05	<0.005	<0.005
Sodium	--	5.7	3.0		3.2	5.6	<5.0	2.16	2.285
Zinc	5.0			0.17				0.065	0.48
Chloride	250	1.9	<1.0	<5.0	1.4	<1.0	<1.0	0.9	1.1
Fluoride	2.0	<0.1	<0.1	<0.10	<0.1	0.70	<0.10	<0.5	<0.5
Nitrite	1.0	0.02	<0.02		0.05	<0.02	<0.02	<0.01	<0.001
Nitrate	10.0			<1.0	<0.02	<0.10		1.66	0.69
Phenol, Total	--	0.010	<0.005		<0.005	<0.050	<0.01	<0.006	3.75
Sulfate	250	<3.0	<6.0	<6.0	22	<10.0	<1.0	2.8	<1.0
Dissolved Solids	500	56	42	<20.0	55	52	31	59	39
TOC	--	<1.0	<1.0		4.2	<0.50	1.6	2.9	4.2
TOH	--	<0.01	<0.01		<0.01			<0.005	0.018
pH (Standard Units)	6.5-8.5	6.53	6.6	6.6	6.5	6.32	6.7	6.1	6
Specific Conductance [c]	--	53	56		43	33	43	33	26
(µmhos/cm @ 25°C)	--								

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 2
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-2
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	13-Jul-83	22-May-86	24-Sep-86	17-Dec-86	13-Feb-87	03-Jun-87	23-Sep-87	27-Oct-87
Arsenic	0.05	<0.0002	<0.01	0.049	0.25	0.77	0.24	0.03	0.125
Barium	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1
Calcium	--	36.2	15.5	19.5	0.02	<0.02	0.03	0.08	0.07
Cadmium	0.005	<0.01	<0.005	<0.005	0.05	<0.005	<0.005	<0.01	<0.005
Chromium	0.05	<0.02	<0.02	<0.02	0.04	0.04	<0.02	<0.04	<0.01
Copper	1.0								
Iron	0.3	1.9	<0.03	7.7	12.9	14.8	8.7	17.0	9.0
Lead	0.05	<0.05	<0.04	0.09	0.19	0.06	<0.1	<0.05	0.6
Magnesium	--	5.9							
Manganese	0.05	0.20	4.0	2.3	0.23	0.10	0.11	0.05	0.04
Mercury	0.0011	<0.0005	0.0027	0.001	0.003	0.0009	0.0015	0.003	<0.0012
Nickel	0.15	<0.03	0.12	0.42	0.82	0.35	0.39	0.34	0.35
Potassium	--	4.2							
Selenium	0.01	<0.005	<0.001	0.003	0.02	0.027	0.0023	0.003	0.002
Silver	0.05	<0.01	<0.0003	0.02	0.02	<0.01	0.015	0.003	0.125
Sodium	--		175	1060	3100	2630	2775	2200	3100
Zinc	5.0								
Chloride	250	13.5	66.0	45.0	440	500	500	440	345
Fluoride	2.0	0.75	0.73	4.2	10.0	21.0	8.7	11.7	10.0
Nitrite	1.0	0.03	<0.005	<0.005	0.1	<0.05	<0.02	<0.05	<0.01
Nitrate	10.0	1.9							
Phenol, Total	--	<0.05	<0.01	0.17	0.81	1.0	0.85	<0.01	0.93
Sulfate	250	46.0	490	980	1160	1400	2200	1700	1430
Dissolved Solids	500	9.4	860	4550	13400	12080	8944	10320	9980
TOC	--	4.2	29.5	630	620	524	254	780	900
TOH	--	0.09	0.01	0.43	0.73	0.851	3.66	0.68	0.2
pH (Standard Units)	6.5-8.5	7.3	6.0	7.0	11.5	11.0	10.2	10.2	9.6
Specific Conductance [c] (μmhos/cm @ 25°C)	--	266	1220	5780	14500	10900	9820	11500	10900

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 2
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-2
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	15-Mar-88	11-Oct-88	30-Nov-89	23-May-90	07-Dec-90	21-May-91	30-Oct-91	21-May-92
Arsenic	0.05	0.13	0.22	0.03	<0.025	<0.01	<0.02	<0.15	
Barium	1.0	<0.1	<1.0	<0.2	0.074	<0.5	0.04	<0.2	
Calcium	--	0.1	0.82	17.7	43.9	18.2	21.5	15.9	
Cadmium	0.005		<0.01	0.013	0.006	<0.005	<0.01	<0.01	
Chromium	0.05	<0.02	<0.02	<0.02	0.025	<0.02	0.17	<0.05	
Copper	1.0								
Iron	0.3	1.7	3.0	2.12	23.5	0.76	7.47	1.74	
Lead	0.05	0.02	0.04	0.0539	0.14	<0.03	0.08	<0.08	
Magnesium	--				8.57				
Manganese	0.05	0.02	0.03	0.105		0.23	0.27	0.15	
Mercury	0.0011	<0.002	0.0032	<0.0002	<0.0002	<0.0005	<0.002	<0.003	
Nickel	0.15	0.36	0.13	0.261	0.127	0.12	0.06	<0.12	
Potassium	--								
Selenium	0.01	0.013	0.005	<0.01	<0.005	<0.006	<0.02	<0.05	
Silver	0.05	<0.01	<0.01	0.01	<0.005	<0.01	<0.01	<0.05	
Sodium	--	2690	2600	3280	2310	2100	2050	2230	
Zinc	5.0								
Chloride	250	150	47.5	342	2.0	14.5	278	251	360
Fluoride	2.0	11.0	7.0	2.84	0.95	1.4	1.3	<1.0	4.0
Nitrite	1.0	<0.05	<0.01	<0.1	<0.01	<0.005	0.5	<0.02	
Nitrate	10.0								
Phenol, Total	--	0.03	0.07	0.0054	0.036	<0.01	<0.01	<0.01	
Sulfate	250	1700	1100	2100	1740	2080	1610	58.3	
Dissolved Solids	500	9070	8300	8590	8000	7384	6367	6983	
TOC	--	520	72.0	<1.0	170	279	222	570	280
TOH	--	0.35	0.58	0.0496	0.217	0.16	0.116	0.103	0.30
pH (Standard Units)	6.5-8.5	9.7	9.2	9.1	8.5	7.9	8.41	8.34	9.1
Specific Conductance [c] (umhos/cm @ 25°C)	--	9470	9380	10970	8200	9160	9000	6791	10000

Analytical results are reported in parts per million (ppm) unless ot

TABLE 2
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-2
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	19-May-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05	0.056	0.28	0.082	0.063	0.064	<0.001
Barium	1.0	0.09	<0.20	<0.20	<0.2	<0.1	0.009
Calcium	--		5.2	3.2 J	<5.0	3.298	16.171
Cadmium	0.005	<0.005	<0.005	<0.010	<0.01	<0.001	<0.001
Chromium	0.05	0.02	0.01	<0.05	<0.05	0.005	0.006
Copper	1.0	<0.05				<0.005	0.032
Iron	0.3	3.47	5.1	2.2	4	2.956	3.277
Lead	0.05	0.064	0.053	0.0062 J	<0.05	0.018	0.024
Magnesium	--					0.495	0.487
Manganese	0.05	0.06	0.05	0.026	0.027	0.053	0.033
Mercury	0.0011	<0.0002	<0.0005	<0.0020	<0.002	<0.0002	<0.0002
Nickel	0.15		0.55	0.32	<0.04	0.203	0.197
Potassium	--					51.559	56.048
Selenium	0.01	<0.02	<0.005	<0.010	<0.01	0.018	0.005
Silver	0.05	<0.05	<0.01	<0.05	<0.05	<0.005	<0.005
Sodium	--		3800	2900	2400	21080	2.983
Zinc	5.0	<0.05				0.0125	0.081
Chloride	250	330	520	350	360	395.2	414.2
Fluoride	2.0	5.92	<0.1	6.2	6.5	6.1	4.29
Nitrite	1.0		0.16		<0.02	<0.01	<0.01
Nitrate	10.0	<1.00	<0.02			8.35	<0.10
Phenol, Total	--		0.005		0.011	NR	3.75
Sulfate	250	1950	1900	1450	2300	1742	1175
Dissolved Solids	500	9206	10000		8200	7768	8783
TOC	--		340		230	356	348
TOH	--		0.49			0.361	0.278
pH (Standard Units)	6.5-8.5	9.0	9.5		9.69	9.6	9.6
Specific Conductance [c] (µmhos/cm @ 25°C)	--	11800	13000		10000	12020	115.6

Analytical results are reported in parts per million (ppm) unless ot

TABLE 3
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-3
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	13-Jul-83
Arsenic	0.05	<0.001
Barium	1.0	<0.1
Calcium	--	9.3
Cadmium	0.005	<0.01
Chromium	0.05	<0.02
Iron	0.3	2.5
Lead	0.05	<0.05
Magnesium	--	2.7
Manganese	0.05	0.61
Mercury	0.0011	<0.0005
Nickel	0.15	<0.03
Potassium	--	3.8
Selenium	0.01	<0.005
Silver	0.05	<0.01
Sodium	--	5.0
Zinc	5.0	
Chloride	250	1.5
Fluoride	2.0	<0.05
Nitrite	1.0	<0.01
Nitrate	10.0	0.031
Phenol, Total	--	<0.05
Sulfate	250	20.0
Dissolved Solids	500	7.6
TOC	--	9.4
TOH	--	<0.05
pH (Standard Units)	6.5-8.5	5.7
Specific Conductance [c] (μmhos/cm @ 25°C)	--	85

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 3A
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-3A
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	15-Mar-88	11-Oct-88	29-Nov-89	23-May-90	07-Dec-90	21-May-91	29-Dec-91
Arsenic	0.05	<0.005	<0.005	<0.01	<0.01	<0.01	<0.02	<0.15
Barium	1.0	<0.1	<1.0	<0.2	0.151	0.5	0.02	<0.2
Calcium	--	3.0	2.3	6.9	4.1	5.5	9.39	10.6
Cadmium	0.005	<0.01	<0.01	<0.002	<0.005	<0.005	<0.01	<0.01
Chromium	0.05	<0.02	<0.02	<0.02	0.034	<0.02	<0.01	<0.05
Copper								
Iron	0.3	0.13	2.2	10.3	39.5	5.9	20.1	25.1
Lead	0.05	<0.02	<0.03	0.0759	<0.03	<0.03	<0.03	<0.08
Magnesium	--				9.06			
Manganese	0.05	<0.01	<0.01	0.028		0.03	0.04	<0.08
Mercury	0.0011	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.002	<0.003
Nickel	0.15	<0.03	<0.03	<0.02	<0.05	0.04	<0.03	<0.12
Potassium	--							
Selenium	0.01	<0.005	<0.001	<0.01	<0.005	<0.006	<0.02	<0.03
Silver	0.05	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.05
Sodium	--	5.7	7.0	8.82	7.38	6.2	8.58	7.32
Zinc	5.0							
Chloride	250	6.0	7.5	<1.0	<1.0	6.0	1.25	<1.0
Fluoride	2.0	0.2	0.1	0.16	0.16	<0.1	0.2	<1.0
Nitrite	1.0	<0.005	<0.005	<0.1	0.02	<0.005	<0.05	<0.01
Nitrate	10.0							
Phenol, Total	--	0.05	0.02	<0.005	<0.005	<0.01	<0.01	<0.01
Sulfate	250	10.0	11.0	19.0	32.0	16.0	10.3	13.0
Dissolved Solids	500	220	108	76	110	204	89	123
TOC	--	3.6	<0.5	9.0	<1.0	9.3	<1.0	<5.0
TOH	--	0.016	0.016	<0.01	0.16	0.04	<0.01	<0.01
pH (Standard Units)	6.5-8.5	7.6	7.0	6.86	6.5	6.8	8.83	7.14
Specific Conductance [c] (µmhos/cm @ 25°C)	--	90	96	111	83	111	110	100

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 3A
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-3A
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	02-Jun-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05	<0.005	<0.005	<0.010	<0.01	<0.001	<0.001
Barium	1.0		<0.10	<0.20	<0.2	0.1	0.007
Calcium	--	12.0	1.1	12	11	16.574	16.504
Cadmium	0.005	0.007	<0.005	<0.010	<0.01	<0.001	<0.001
Chromium	0.05	<0.01	<0.01	<0.05	<0.05	<0.001	<0.001
Copper						<0.005	<0.005
Iron	0.3	21.0	7.5	3.9	3.8	6.103	1.215
Lead	0.05	0.005	<0.005	<0.050	<0.05	<0.01	0.011
Magnesium	--					3.247	3.377
Manganese	0.05	0.06	0.03	0.038	0.032	0.049	0.057
Mercury	0.0011	<0.0005	<0.0005	<0.0020	<0.002	<0.0002	<0.0002
Nickel	0.15	<0.03	<0.03	<0.04	<0.04	<0.005	<0.005
Potassium	--					3.286	4.916
Selenium	0.01	<0.005	<0.005	<0.010	<0.01	<0.002	0.005
Silver	0.05	<0.01	<0.01	<0.05	<0.05	<0.005	<0.005
Sodium	--	7.8	6.8	9.4	7.1	9.13	7.878
Zinc	5.0					<0.025	0.172
Chloride	250	1.5	1.1	1.0	<1.0	2.9	4.7
Fluoride	2.0	0.1	0.1	0.12	0.12	<0.5	<0.5
Nitrite	1.0	<0.02	0.04	<0.074	<0.02	<0.01	<0.01
Nitrate	10.0		<0.02	<0.10		1.23	0.05
Phenol, Total	--	<0.005	<0.005	<0.050	<0.01	3	3.75
Sulfate	250	17.0	14	14	9.2	6.6	6.1
Dissolved Solids	500	110	91	90	9.8	107	94
TOC	--	<1.0	3.9	6.0	2.5	4.2	7.7
TOH	--	<0.01	<0.01	0.018		0.012	0.02
pH (Standard Units)	6.5-8.5	7.4	7.4	7.59	7.64	7.4	8
Specific Conductance [c] (µmhos/cm @ 25°C)	--	110	100	1100	130	158	173

Analytical results are reported in parts per million (ppm)

TABLE 4
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-4
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	13-Jul-83	22-May-86	24-Sep-86	17-Dec-86	13-Feb-87	03-Jun-87	23-Sep-87	27-Oct-87	15-Mar-88	11-Oct-88	30-Nov-89
Arsenic	0.05	0.0024	<0.002	<0.008	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.01
Barium	1.0	0.65	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<1.0	<0.2
Calcium	--	42.0	0.58	0.73	0.57	1.6	4.6	1.2	4.0	2.1	5.3	91.2
Cadmium	0.005	<0.01	<0.005	<0.005	0.0075	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	0.004
Chromium	0.05	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02
Copper												
Iron	0.3	60	<0.03	6.3	0.9	<0.03	3.9	2.0	7.3	23	145	335
Lead	0.05	<0.05	<0.04	<0.04	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02	<0.03	0.0117
Magnesium	--	12.0										
Manganese	0.05	1.3	0.24	0.09	0.09	0.08	1.7	0.26	0.46	0.61	0.06	2.92
Mercury	0.0011	<0.0005	0.0004	<0.001	<0.001	<0.001	<0.001	<0.0003	<0.0003	<0.002	0.0048	<0.0002
Nickel	0.15	<0.03	<0.03	0.04	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.027
Potassium	--	36.0										
Selenium	0.01	<0.05	<0.001	<0.001	<0.005	<0.002	<0.002	<0.002	<0.004	<0.005	<0.001	<0.01
Silver	0.05	<0.01	<0.0003	<0.01	<0.01	<0.01	<0.015	<0.003	<0.01	<0.01	<0.01	<0.01
Sodium	--	6.4	3.4	5.0	3.9	2.4	6.0	2.1	3.7	5.7	15.8	94.0
Zinc	5.0	0.24										
Chloride	250	1.0	1.0	3.0	1.5	2.5	32.0	9.5	8.5	44	132	250
Fluoride	2.0	0.1	0.16	0.33	0.2	<0.1	<0.1	0.23	0.1	0.9	0.3	0.02
Nitrite	1.0	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
Nitrate	10.0	0.36										
Phenol, Total	--	<0.05	<0.01	<0.13	<0.01	0.06	<0.05	<0.01	0.1	0.03	<0.01	<0.005
Sulfate	250	24.0	31.0	21.0	19.0	23.0	58.0	16.0	2.0	49.0	123	900
Dissolved Solids	500	6.0	68	168	200	700	268	180	160	236	630	1840
TOC	--	17.0	5.9	10.2	0.5	6.6	1.7	<1.0	2.3	<1	0.55	28.0
TOH	--	0.12	0.02	0.036	0.058	0.062	0.122	0.025	0.038	0.16	0.065	0.0242
pH (Standard Units)	6.5-8.5	6.2	4.1	5.5	5.7	4.6	5.4	6.3	5.4	6.1	5.8	6.01
Specific Conductance[c] (μmhos/cm @ 25°C)	--	132	72	83	73	57	241	78	94	238	778	2330

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 4
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-4
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	24-May-90	07-Dec-90	21-May-91	30-Oct-91	20-May-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05	<0.005	<0.01	<0.05	<0.15	<0.005	<0.005	<0.010	<0.001	<0.001	0.013
Barium	1.0	0.157	<0.5	0.11	<0.2		<0.10	<0.20	<0.2	0.2	0.162
Calcium	--	18.6	59.0	51.3	80.1	100	140	93	84	95.255	60.856
Cadmium	0.005	0.012	<0.005	<0.04	<0.01	<0.005	<0.005	<0.010	<0.01	<0.001	0.024
Chromium	0.05	0.075	<0.02	<0.08	0.05	0.04	<0.01	<0.05	<0.05	0.008	0.065
Copper										<0.005	0.057
Iron	0.3	92.7	234	204	274	330	330	250	330	223.912	240.425
Lead	0.05	0.048	<0.03	<0.3	<0.08	0.008	<0.005	<0.05	<0.05	<0.01	<0.01
Magnesium	--	14.2								67.548	51.739
Manganese	0.05		3.2	2.81	5.02	8.9	13	8.8	7.2	10.904	6.562
Mercury	0.0011	0.0002	<0.0005	<0.002	<0.003	<0.0005	<0.0005	<0.0020	<0.002	0.0003	0.0004
Nickel	0.15	<0.05	<0.03	<0.24	<0.12	<0.03	<0.03	<0.04	<0.04	<0.005	0.036
Potassium	--									15.432	16.674
Selenium	0.01	<0.005	<0.006	<0.05	<0.05	<0.005	<0.005	<0.010	<0.01	0.099	0.005
Silver	0.05	<0.005	<0.01	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.005	<0.005
Sodium	--	15.8	76.0	54.8	108	160	230	190	180	220	184.889
Zinc	5.0									0.053	0.229
Chloride	250	76.0	157	154	314	330	300	190	250	234.6	194.8
Fluoride	2.0	193	0.8	<0.1	<1.0	<0.1	<0.1	0.19	<0.10	<0.5	<0.5
Nitrite	1.0	0.16	<0.005	0.7	<0.02	<0.02	0.12	<0.074	<0.02	<0.01	<0.01
Nitrate	10.0						<0.02	<0.10		4.81	0.12
Phenol, Total	--	<0.005	0.03	<0.01	<0.01	<0.005	<0.005	<0.050	<0.01	3	3.75
Sulfate	250	193	520	561	1303	1000	1200	890	1500	1250.6	92
Dissolved Solids	500	750	1184	1014	1575	2600	2400	1600	2000	2336	1749
TOC	--	14.0	1.9	3.0	14.0	1.8	7.8	5.9	9.5	14	9.1
TOH	--	0.23	0.038	1.14	0.047	0.03	0.03	0.10		0.059	0.081
pH (Standard Units)	6.5-8.5	5.0	4.7	5.01		5.7	5.4	6.21	5.78	6	6.1
Specific Conductance[c] (µmhos/cm @ 25°C)	--	770	1440	1400	1742	3200	3000	270000	2400	3030	2390

Analytical results are reported in parts per million (ppr

TABLE 5A
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-5A
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	15-Mar-88	11-Oct-88	29-Nov-89	24-May-90	07-Dec-90	21-May-91	30-Oct-91
Arsenic	0.05	<0.005	<0.005	<0.01	<0.01	<0.01	<0.02	<0.15
Barium	1.0	<0.1	<1.0	0.21	0.151	<0.5	0.18	0.38
Calcium	--	1.8	0.2	4.3	4.1	2.1	4.63	5.48
Cadmium	0.005	<0.01	<0.01	<0.002	<0.005	<0.005	<0.01	<0.01
Chromium	0.05	<0.02	<0.02	<0.02	0.034	<0.02	0.04	0.08
Copper								
Iron	0.3	0.31	39.0	17.8	39.5	7.1	34.8	80.5
Lead	0.05	<0.02	<0.03	0.0257	<0.03	<0.03	<0.03	<0.08
Magnesium	--				9.06			
Manganese	0.05	2.5	1.6	0.741		0.46	0.53	0.77
Mercury	0.0011	<0.0005	0.0018	<0.0002	<0.0002	<0.0005	<0.002	<0.003
Nickel	0.15	<0.03	0.04	<0.02	<0.05	<0.03	0.05	<0.12
Potassium	--							
Selenium	0.01	<0.005	<0.001	<0.01	<0.005	<0.006	<0.02	<0.05
Silver	0.05	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.05
Sodium	--	3.9	4.7	11.5	7.38	7.1	8.86	8.49
Zinc	5.0							
Chloride	250	7.5	8.0	8.8	5.0	12.5	8.54	4.0
Fluoride	2.0	0.2	<0.1	0.05	0.07	<0.1	<0.1	<1.0
Nitrite	1.0	<0.005	<0.005	<0.1	0.05	0.005	1.5	<0.01
Nitrate	10.0							
Phenol, Total	--	0.04	0.017	<0.005	<0.005	0.02	<0.01	<0.01
Sulfate	250	7.0	12.0	7.0	49.0	16.0	9.21	5.4
Dissolved Solids	500	124	140	62	110	84	32	98
TOC	--	2.2	<0.5	22.0	8.0	62.0	1.0	6.0
TOH	--	0.01	0.027	<0.01	0.035	0.023	0.041	<0.01
pH (Standard Units)	6.5-8.5	6.3	5.5	5.5	6.5	5.4	6.5	5.69
Specific Conductance [c] (µmhos/cm @ 25°C)	--	90	65	97	83	90	100	91

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 5
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-5
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	13-Jul-83
Arsenic	0.05	<0.001
Barium	1.0	0.25
Calcium	--	6.9
Cadmium	0.005	<0.01
Chromium	0.05	<0.02
Iron	0.3	25
Lead	0.05	<0.05
Magnesium	--	<0.001
Manganese	0.05	5.9
Mercury	0.0011	3.5
Nickel	0.15	<0.03
Potassium	--	5.4
Selenium	0.01	<0.005
Silver	0.05	<0.01
Sodium	--	4.4
Zinc	5.0	0.05
Chloride	250	7.5
Fluoride	2.0	<0.05
Nitrite	1.0	0.01
Nitrate	10.0	0.12
Phenol, Total	--	<0.05
Sulfate	250	17.0
Dissolved Solids	500	4.1
TOC	--	5.3
TOH	--	0.1
pH (Standard Units)	6.5-8.5	5.6
Specific Conductance [c] (μmhos/cm @ 25°C)	--	178

[a] Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 5A
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-5A
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	19-May-92	08-Jun-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05	<0.005		<0.005	<0.010	<0.01	<0.001	<0.001
Barium	1.0			<0.20	<0.20	<0.2	0.5	0.3
Calcium	--	4.3		4.7	4.6	<5.0	5.684	12.503
Cadmium	0.005	0.02		0.03	<0.05	<0.01	<0.001	0.007
Chromium	0.05	19		30	17	<0.05	0.039	0.067
Copper							0.053	0.084
Iron	0.3	<0.005		<0.005	<0.010	5.8	28.798	68.862
Lead	0.05	<0.005		0.006	0.011 J	<0.05	<0.01	<0.01
Magnesium	--						9.946	23.305
Manganese	0.05	0.45		0.54	0.64	0.6	0.883	1.93
Mercury	0.0011	<0.0005		<0.0005	<0.0020	<0.002	0.0003	0.0006
Nickel	0.15	0.03		0.03	<0.04	<0.04	0.048	0.071
Potassium	--						7.97	11.774
Selenium	0.01	<0.005		<0.005	<0.010	<0.01	0.014	0.005
Silver	0.05	<0.01		<0.01	<0.05	<0.05	<0.005	<0.005
Sodium	--	9.4		8.9	14	8	13	10.102
Zinc	5.0						0.118	0.208
Chloride	250	8.9		9.7	12	11	15.2	37.7
Fluoride	2.0	<0.1		<0.1	0.40	<0.10	<0.5	<0.5
Nitrite	1.0			0.09	1.0	<0.02	<0.01	0.02
Nitrate	10.0	0.73		0.34	1.40		11.4	1.31
Phenol, Total	--	<0.005		<0.005	<0.050	<0.01	3	3.75
Sulfate	250	16		22	<10.0	54	4.2	16.6
Dissolved Solids	500	60	46	31	69	56	72	151
TOC	--	3.4		1.8	9.7	1.3	2.1	2
TOH	--	<0.01		0.05	0.035		<0.005	0.082
pH (Standard Units)	6.5-8.5	6.0		6.0	5.80	6.31	5.7	5.7
Specific Conductance [c] (µmhos/cm @ 25°C)	--	94		90	900	110	141	227

Analytical results are reported in parts per million (ppm) uni

TABLE 6
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-6
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	13-Jul-83	22-May-86	24-Sep-86	17-Dec-86	13-Feb-87	03-Jun-87	23-Sep-87	27-Oct-87	15-Mar-88	11-Oct-88	29-Nov-89
Arsenic	0.05	<0.001	<0.002	<0.008	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.01
Barium	1.0	0.45	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<1.0	<0.2
Calcium	--	10.5	1.1	1.2	1.7	6.5	2.0	1.7	2.1	1.4	0.61	7.05
Cadmium	0.005	<0.01	<0.005	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.002
Chromium	0.05	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02
Copper												
Iron	0.3	23.0	<0.03	0.41	<0.03	0.05	0.11	1.9	2.6	0.17	4.7	2.64
Lead	0.05	0.09	<0.04	<0.04	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02	<0.03	0.0508
Magnesium	--	8.6										
Manganese	0.05	3.6	0.1	0.11	0.17	0.13	0.05	0.10	0.09	0.10	0.38	0.864
Mercury	0.0011	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.0003	<0.0003	<0.0005	<0.005	<0.0002
Nickel	0.15	<0.03	<0.03	<0.03	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	<0.02
Potassium	--	13.0										
Selenium	0.01	<0.005	<0.001	<0.001	<0.005	<0.002	<0.002	<0.002	<0.004	<0.005	<0.001	<0.01
Silver	0.05	<0.01	<0.0003	<0.01	<0.01	<0.01	<0.015	<0.003	<0.01	<0.01	<0.01	<0.01
Sodium	--	13.0	5.9	6.5	7.9	7.8	7.2	5.9	6.2	5.8	7.3	15.1
Zinc	5.0	0.16										
Chloride	250	4.5	4.5	7.5	7.0	8.5	10.0	7.5	9.0	10.0	7.0	9.8
Fluoride	2.0	0.05	0.11	<0.1	0.1	0.11	0.11	<0.1	<0.1	<0.1	<0.1	0.06
Nitrite	1.0	0.075	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
Nitrate	10.0	6.4										
Phenol, Total	--	<0.05	<0.01	<0.03	<0.01	0.06	0.03	<0.01	0.063	0.04	<0.01	<0.005
Sulfate	250	23.0	19.0	22.0	23.0	22.0	19.0	16.0	14.0	19.0	22.0	28.5
Dissolved Solids	500	6.6	88	84	96	828	2452	140	2060	120	104	130
TOC	--	8.5	5.1	13.4	1.1	10.9	0.7	1.0	10.0	1.6	<0.5	19.0
TOH	--	<0.05	0.016	0.023	0.098	0.038	0.037	0.029	0.047	0.043	0.015	<0.01
pH (Standard Units)	6.5-8.5	5.4	5.0	5.2	5.3	5.2	5.1	5.1	4.8	5.7	5.1	5.73
Specific Conductance[c] (μmhos/cm @ 25°C)	--	168	101	114	124	130	121	96	86	80	89	180

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 6
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-6
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	24-May-90	07-Dec-90	21-May-91	30-Oct-91	19-May-92	08-Jun-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05	<0.005	<0.01	<0.05	<0.15	<0.005		<0.005	<0.010	<0.01	<0.001	<0.001
Barium	1.0	0.078	<0.5	0.09	<0.2			<0.10	<0.20	<0.2	<0.1	0.147
Calcium	--	7.11	3.4	10.5	6.67	6.5		8.9	9.6	8.4	14.528	15.992
Cadmium	0.005	<0.005	<0.005	<0.01	<0.01	<0.005		<0.005	<0.010	<0.01	<0.001	0.005
Chromium	0.05	0.027	<0.02	0.05	<0.05	0.02		0.02	<0.05	<0.05	0.21	0.042
Copper											0.033	0.06
Iron	0.3	29.7	0.32	38.1	16.7	14		2.9	4.6	14	12.982	50.872
Lead	0.05	0.037	<0.03	0.03	<0.08	<0.005		0.018	0.013 J	<0.05	<0.01	0.023
Magnesium	--	6.42									10.506	13.629
Manganese	0.05		0.27	0.45	0.22	0.27		0.38	0.18	0.2	0.525	0.721
Mercury	0.0011	0.0003	<0.0005	<0.002	<0.003	<0.0005		0.008	<0.0020	<0.002	0.0011	0.0021
Nickel	0.15	<0.05	<0.03	<0.03	<0.12	<0.03		<0.03	<0.04	<0.04	0.024	0.032
Potassium	--										6.082	6.657
Selenium	0.01	<0.005	<0.006	<0.05	<0.05	<0.005		<0.005	<0.010	<0.01	0.015	0.005
Silver	0.05	<0.005	<0.01	<0.01	<0.05	<0.01		<0.01	<0.05	<0.05	<0.005	<0.005
Sodium	--	9.2	7.3	13.1	8.02	7.3		8.5	12	7.6	11	10.517
Zinc	5.0										0.044	0.109
Chloride	250	8.0	9.0	6.99	6.2	43		4.6	4.0	16	20	34.9
Fluoride	2.0	0.09	0.8	<0.1	<1.0	<0.1		<0.1	0.35	<0.10	<0.5	<0.5
Nitrite	1.0	0.17	<0.005	0.8	<0.01			0.03	0.18	<0.02	<0.01	0.03
Nitrate	10.0					0.29		0.13	0.24		3.65	0.43
Phenol, Total	--	<0.005	<0.01	<0.1	<0.01	<0.005		<0.005	<0.050	0.017	3	3.75
Sulfate	250	30.0	36.0	47.1	24.7	8.9		37	26	14	22.3	13.3
Dissolved Solids	500	200	120	155	134	87	105	110	110	120	146	166
TOC	--	7.0	30.3	1.0	6.0	1.7		1.3	4.1	6.5	8.7	61
TOH	--	0.118	0.022	<0.01	<0.01	<0.01		<0.01	0.055		<0.005	0.072
pH (Standard Units)	6.5-8.5	6.2	5.3	6.21	5.69	6.2		6.0	5.79	5.86	5.7	5.7
Specific Conductance[c] (µmhos/cm @ 25°C)	--	150	146	180	133	110		150	1300	140	233	254

Analytical results are reported in parts per million (ppr

TABLE 7
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-7
CHAMPION INTERNATIONAL, CANTON, CN

DATE	NCGWQS	13 - Jul - 83
Arsenic	0.05	<0.001
Barium	1.0	0.3
Calcium	--	3.6
Cadmium	0.005	<0.01
Chromium	0.05	<0.02
Iron	0.3	1.8
Lead	0.05	<0.05
Mercury	0.0011	<0.001
Magnesium	--	2.2
Manganese	0.05	0.25
Nickel	0.15	<0.03
Potassium	--	2.1
Selenium	0.01	<0.005
Silver	0.05	<0.01
Sodium	--	3.2
Zinc	5.0	
Chloride	250	5.5
Fluoride	2.0	0.15
Nitrite	1.0	<0.01
Nitrate	10.0	0.43
Phenol, Total	--	<0.05
Sulfate	250	9.5
Dissolved Solids	500	7.2
TOC	--	2.1
TOH	--	0.13
pH (Standard Units)	6.5-8.5	5.6
Specific Conductance [c] (μmhos/cm @ 25°C)	--	57

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 7A
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-7A
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	15-Mar-88	11-Oct-88	29-Nov-89	24-May-90	07-Dec-90	21-May-91	30-Oct-91	19-May-92
Arsenic	0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.02	<0.15	<0.005
Barium	1.0	<0.1	<1.0	<0.2	0.173	<0.5	0.16	<0.2	
Calcium	--	1.6	0.57	6.6	13.3	13.2	14.8	21.4	15
Cadmium	0.005	<0.01	<0.01	<0.002	<0.005	<0.005	<0.01	<0.01	<0.005
Chromium	0.05	<0.02	<0.02	<0.02	0.037	<0.02	0.04	<0.05	<0.01
Copper									
Iron	0.3	0.13	**5.7**	**2.07**	**79.7**	**0.58**	**65.8**	**22.6**	**13**
Lead	0.05	<0.02	<0.03	0.0139	<0.03	<0.03	0.03	<0.08	<0.005
Mercury	0.0011	<0.0005	<0.005	<0.0002	<0.0002	<0.0005	<0.002	<0.003	<0.0005
Magnesium	--				25.2				
Manganese	0.05	**0.37**	**0.14**	**0.208**		0.21	**1.27**	**3.31**	**2.0**
Nickel	0.15	<0.03	<0.03	<0.02	0.06	<0.03	0.04	<0.12	<0.03
Potassium	--								
Selenium	0.01	<0.005	<0.001	<0.01	<0.005	<0.006	<0.02	<0.05	<0.005
Silver	0.05	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.05	<0.01
Sodium	--	4.4	4.3	7.95	4.7	5.0	4.34	6.04	6.0
Zinc	5.0								
Chloride	250	4.0	5.0	2.0	6.0	6.0	30.7	6.0	7.3
Fluoride	2.0	<0.1	0.2	0.06	0.08	<0.1	<0.1	<1.0	<0.1
Nitrite	1.0	<0.005	<0.005	<0.1	0.01	<0.005	<0.2	<0.01	
Nitrate	10.0								0.09
Phenol, Total	--		<0.01	<0.005	0.007	<0.01	<0.1	<10.0	<0.005
Sulfate	250	<5.0	9.6	16.5	74.0	140	67.8	175	84
Dissolved Solids	500	100	84	71	160	156	168	275	180
TOC	--	13.9	<0.5	9.0	10	39.80	<1.0	<5.0	28
TOH	--	0.028	0.018	<0.01	0.011	0.015	0.014	<0.01	0.05
pH (Standard Units)	6.5-8.5	**6.0**	**5.2**	**6.19**	6.5	**5.5**	6.5	**5.98**	**6.2**
Specific Conductance[c] (umhos/cm @ 25°C)	--	69	63	75	170	219	240	338	250

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 7A
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-7A
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	08-Jun-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05		<0.005	<0.010	<0.01	<0.001	0.005
Barium	1.0		<0.10	<0.20	<0.2	<0.1	0.182
Calcium	--		24	31	21	18.221	15.344
Cadmium	0.005		<0.005	**0.021**	<0.01	<0.001	0.008
Chromium	0.05		<0.01	<0.05	<0.05	<0.005	0.035
Copper						<0.005	0.006
Iron	0.3		**20**	**3.5**	11	2.452	78.866
Lead	0.05		0.016	<0.050	<0.05	<0.01	0.005
Mercury	0.0011		<0.0005	<0.0020		12.018	25.414
Magnesium	--				3.2	20.31	1.042
Manganese	0.05		**3.5**	**5.1**	<0.002	<0.0002	0.002
Nickel	0.15		<0.03	0.032	<0.04	0.006	0.051
Potassium	--					2.437	4.62
Selenium	0.01		<0.005	<0.010	<0.01	<0.002	0.005
Silver	0.05		<0.01	<0.05	<0.05	<0.005	<0.005
Sodium	--		6.8	9.0	5.9	5.7	6.392
Zinc	5.0					<0.025	0.321
Chloride	250		17	30	23	16.7	11.8
Fluoride	2.0		<0.1	0.087	<0.10	<0.5	<0.5
Nitrite	1.0		0.11	<0.02	<0.02	<0.01	<0.01
Nitrate	10.0		<0.02	0.16		1.8	0.28
Phenol, Total	--		<0.005	<0.050	<0.01	3.35	3.75
Sulfate	250		76	93	81	46.9	44.1
Dissolved Solids	500	250	170	240	230	151	121
TOC	--		7.8	1.8	4.3	<0.5	<0.5
TOH	--		0.07	<0.010		0.006	0.03
pH (Standard Units)	6.5-8.5		**6.1**	**5.85**	5.92	5.8	5.9
Specific Conductance[c] (µmhos/cm @ 25°C)	--		260	2400	330	253	203

Analytical results are reported in parts per million (ppm) unl

TABLE 8
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-8
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	13-Jul-83	24-Sep-86	17-Dec-86	13-Feb-87	03-Jun-87	23-Sep-87	30-Nov-87	22-Mar-88	30-Nov-89	23-May-90
Arsenic	0.05	<0.001	<0.008	<0.01	<0.015	<0.006	<0.01	<0.005	<0.005	<0.01	<0.005
Barium	1.0	0.35	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2	0.136
Calcium	--	1.8	0.81	0.22	0.95	0.80	0.85	0.74	0.75	9.9	4.88
Cadmium	0.005	<0.01	<0.005	**0.012**	<0.005	<0.005	<0.005	<0.005	<0.005	0.003	<0.005
Chromium	0.05	**0.08**	<0.02	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	0.019
Copper											
Iron	0.3	**48**	**1.2**	**4.5**	**0.72**	**1.1**	**2.1**	**0.57**	**1.7**	**20.9**	**30.1**
Lead	0.05	**0.6**	<0.04	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0307	<0.03
Magnesium	--	8.5									7.86
Manganese	0.05	**0.43**	0.03	**0.05**	0.03	**0.05**	0.01	**0.05**	**0.09**	**0.231**	
Mercury	0.0011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0003	<0.0003	<0.001	<0.0002	0.0003
Nickel	0.15	<0.03	<0.03	<0.02	<0.03	<0.03	<0.03	<0.03	0.06	<0.02	<0.05
Potassium	--	29.0									
Selenium	0.01	<0.005	<0.001	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.01	<0.02
Silver	0.05	<0.01	<0.01	<0.01	<0.01	<0.015	<0.003	<0.01	<0.01	<0.01	<0.005
Sodium	--	12.0	4.9	9.3	7.0	6.1	5.4	6.7	6.9	11.3	6.23
Zinc	5.0	0.08									
Chloride	250	7.0	2.0	4.0	2.0	3.5	8.5	5.5	5.0	1.5	1.0
Fluoride	2.0	0.9	0.25	<0.1	0.16	0.22	0.28	0.13	0.1	0.13	0.12
Nitrite	1.0	0.085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	0.14
Nitrate	10.0	0.45									
Phenol, Total	--	<0.05	<0.03	<0.01	0.03	<0.01	0.09	0.03	<0.01	<0.005	<0.005
Sulfate	250	16.0	21.0	30.0	21.0	7.5	22.0	20.0	70.0	65.0	10.0
Dissolved Solids	500	5.1	116	**624**	**712**	**864**	104	104	324	106	170
TOC	--	3.5	9.6	2.0	9.4	<0.5	6.9	2.0	<1.0	4.0	1.0
TOH	--	0.075	0.022	0.071	0.058	0.059	0.023	0.015	0.013	0.0137	0.3
pH (Standard Units)	6.5-8.5	5.7	5.5	6.4	5.3	5.3	5.4	5.3	5.9	5.58	6.7
Specific Conductance[c] (µmhos/cm @ 25°C)	--	83	74	86	66	72	66	65	64	112	77

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 8
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-8
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	07-Dec-90	21-May-91	29-Oct-91	19-May-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05	<0.01	<0.05	<0.15	<0.005	<0.005	<0.010	<0.01	<0.001	<0.001
Barium	1.0	<0.5	0.9	<0.2		<0.20	<0.20	<0.2	0.3	0.03
Calcium	--	2.5	27.3	4.62	3.9	6.5	3.7	<5.0	4.392	4.365
Cadmium	0.005	<0.005	<0.04	<0.01	<.01	0.02	<0.05	<0.01	<0.001	0.003
Chromium	0.05	<0.02	**0.14**	<0.05	**5.3**	**38**	**6.2**	<0.05	0.01	<0.005
Copper									<0.005	0.007
Iron	0.3	**7.6**	**230**	**19.0**	<0.005	<0.005	<0.010	7.7	6.556	9.229
Lead	0.05	<0.03	<0.3	<0.08	0.005	0.006	<0.050	<0.05	<0.01	<0.01
Magnesium	--								2.621	102.064
Manganese	0.05	**0.14**	**1.40**	**0.12**	**0.15**	**0.25**	**0.12**	0.12	0.15	0.134
Mercury	0.0011	<0.0005	<0.002	<0.003	<0.0005	<0.0005	<0.0020	<0.002	<0.0002	<0.0002
Nickel	0.15	<0.03	<0.24	<0.12	<0.03	0.04	<0.04	<0.04	0.009	0.005
Potassium	--								4.46	5.467
Selenium	0.01	<0.006	<0.02	<0.03	<0.005	<0.005	<0.010	<0.01	<0.002	0.005
Silver	0.05	<0.01	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.005	<0.005
Sodium	--	5.0	7.38	4.51	4.5	5.8	4.7 J	<5.0	4.5	3.735
Zinc	5.0								0.079	0.164
Chloride	250	4.0	1.39	1.5	2.4	1.4	1.5	1.2	1.4	2.7
Fluoride	2.0	<0.1	<0.1	<1.0	0.1	0.1	0.13	0.11	<0.5	<0.5
Nitrite	1.0	<0.005	<0.2	<0.01		0.11	0.033	<0.02	<0.01	<0.01
Nitrate	10.0				<0.02	0.03	<0.10		0.65	<0.10
Phenol, Total	--	<0.01	<0.01	<0.01	<0.005	<0.005	<0.050	<0.01	3	3.75
Sulfate	250	21.0	20.6	17.0	16	21	20	15	15.8	7.9
Dissolved Solids	500	84	76	103	67	34	91	81	52	70
TOC	--	23.0	2.0	6.7	1.8	3.4	0.99	1.5	3.5	13
TOH	--	0.022	<0.01	<0.01	<0.01	0.01	<0.010		<0.005	0.027
pH (Standard Units)	6.5-8.5	5.7	**6.66**	**6.5**	6.4	**6.5**	6.48	6.82	6.6	6.5
Specific Conductance[c] (µmhos/cm @ 25°C)	--	79	70	68	120	77	740	80	79	83

Analytical results are reported in parts per million (ppm)

TABLE 9
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-9
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	13-Jul-83	22-May-86	17-Dec-86	13-Feb-87	03-Jun-87	23-Sep-87	30-Nov-87	22-Mar-88	30-Nov-89	23-May-90
Arsenic	0.05	<0.001	<0.002	<0.005	<0.15	<0.006	<0.01	<0.005	<0.005	<0.01	<0.005
Barium	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	0.26	0.033
Calcium	--	8.5	0.19	0.45	0.37	0.81	0.78	0.92	0.84	6.0	4.13
Cadmium	0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
Chromium	0.05	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.015
Copper											
Iron	0.3	**0.89**	<0.03	**0.3**	**1.9**	0.07	0.16	0.03	0.04	**22.8**	**9.51**
Lead	0.05	<0.05	<0.04	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0284	<0.03
Magnesium	--	1.4									1.97
Manganese	0.05	**0.3**	**0.19**	0.04	0.02	0.02	<0.01	<0.02	<0.01	**1.07**	
Mercury	0.0011	<0.001	0.0007	<0.0003	<0.007	<0.001	<0.001	<0.0003	<0.001	<0.0002	<0.0002
Nickel	0.15	<0.03	<0.03	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02	<0.05
Potassium	--	11.8									
Selenium	0.01	<0.05	<0.001	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.01	<0.02
Silver	0.05	<0.01	<0.0003	<0.01	<0.01	<0.015	<0.003	<0.01	<0.01	<0.01	<0.005
Sodium	--	8.0	8.2	4.3	4.1	1.5	2.2	2.1	2.1	8.58	2.02
Zinc	5.0	0.03									
Chloride	250	<1.0	1.0	0.8	<0.5	1.5	9.5	7.0	4.0	<1.0	<1.0
Fluoride	2.0	0.25	0.13	0.33	0.11	<0.1	0.1	<0.1	<0.1	0.03	0.07
Nitrite	1.0	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	0.06
Nitrate	10.0	0.72									
Phenol, Total	--	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.005	<0.0005
Sulfate	250	32.0	22.0	<2.0	10.0	11.0	6.0	<5.0	<5.0	18.0	19.0
Dissolved Solids	500	7.0	80	80	**744**	100	48	56	60	51	170
TOC	--	2.8	4.3	1.5	5.9	0.5	2.6	<1.0	1.5	6.0	2.0
TOH	--	0.19	0.021	1.88	0.078	0.07	0.032	0.013	0.008	0.0137	0.204
pH (Standard Units)	6.5-8.5	**6.4**	**5.2**	**6.2**	**5.1**	**5.0**	**5.2**	**5.2**	**5.7**	**5.85**	**6.5**
Specific Conductance[c] (µmhos/cm @ 25°C)	--	149	73	43	41	34	32	34	30	71	46

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 9
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-9
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	07-Dec-90	21-May-91	29-Oct-91	18-May-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05	<0.01	<0.05	<0.15	<0.005	<0.005	<0.010	<0.01	<0.001	<0.001
Barium	1.0	<0.5	0.16	0.27		<0.20	<0.20	<0.2	0.3	<0.1
Calcium	--	1.8	3.52	4.97	2.0	2.0	1.6 J	<5.0	2.217	2.005
Cadmium	0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.010	<0.01	<0.001	0.002
Chromium	0.05	<0.02	**0.08**	**0.07**	0.01	<0.01	<0.05	<0.05	<0.005	<0.005
Copper									<0.005	<0.005
Iron	0.3	**7.2**	**68.0**	**73.8**	**13.0**	**6.6**	**3.1**	31	0.075	1.441
Lead	0.05	<0.03	**0.05**	<0.08	0.006	<0.005	<0.050	<0.05	<0.01	0.012
Magnesium	--								0.918	2.137
Manganese	0.05	**0.66**	**0.57**	**0.82**	**0.31**	**0.13**	**0.07**	0.12	0.005	0.029
Mercury	0.0011	<0.0005	<0.002	<0.003	<0.0005	<0.0005	<0.002	<0.002	<0.0002	<0.0002
Nickel	0.15	<0.03	<0.03	<0.12	<0.03	0.03	<0.04	<0.04	<0.005	<0.005
Potassium	--								1.289	1.635
Selenium	0.01	<0.006	<0.05	<0.03	<0.005	<0.005	<0.010	<0.01	<0.002	0.005
Silver	0.05	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.005	<0.005
Sodium	--	2.4	3.57	3.43	3.0	2.6	4.3 J	<5.0	1.7	1.904
Zinc	5.0								0.097	0.101
Chloride	250	4.0	0.65	<1.0	<1.0	1.1	1.0	<1.0	0.5	2.7
Fluoride	2.0	<0.1	<0.1	<0.1	<0.1	<0.1	0.05	<0.10	<0.5	<0.5
Nitrite	1.0	<0.005	0.07	<0.01		0.03	<0.02	<0.02	<0.01	<0.01
Nitrate	10.0				<0.02	0.03	<10.0		1.12	0.28
Phenol, Total	--	<0.01	<0.01	<0.01	<0.005	<0.005	<0.050	0.014	3	3
Sulfate	250	23.0	12.7	17.0	15.0	14	12	<1.0	1.3	2.9
Dissolved Solids	500	144	43	78	53	85	48	38	20	48
TOC	--	39.0	2.0	<5.0	1.1	2.8	<0.50	0.25	0.5	2.5
TOH	--	0.016	<0.01	<0.01	<0.01	0.02	<0.010		0.012	0.054
pH (Standard Units)	6.5-8.5	**4.9**	**6.08**	**6.16**	**5.0**	**4.8**	**5.35**	5.68	6.1	6.3
Specific Conductance[c] (µmhos/cm @ 25°C)	--	45	50	42	51	41	27	41	34	34

Analytical results are reported in parts per million (ppm) u

TABLE 10
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-10
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	13-Jul-83	22-May-86	24-Sep-86	17-Dec-86	13-Feb-87	03-Jun-87	23-Sep-87	30-Nov-87	22-Mar-88	30-Nov-89
Arsenic	0.05	<0.001	<0.002	<0.008	<0.005	0.006	<0.006	<0.01	<0.005	<0.005	<0.01
Barium	1.0	0.17	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2
Calcium	--	6.3	0.51	0.45	0.64	1.0	1.0	0.87	0.9	0.93	2.6
Cadmium	0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
Chromium	0.05	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Copper											
Iron	0.3	1.0	<0.03	2.2	<0.46	0.11	<0.03	<0.03	0.13	<0.03	0.983
Lead	0.05	0.09	<0.04	<0.04	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0154
Magnesium	--	3.4									
Manganese	0.05	0.61	0.07	0.04	0.06	<0.01	<0.02	<0.01	<0.02	<0.01	0.271
Mercury	0.0011	<0.001	0.001	<0.001	<0.0003	<0.007	<0.001	<0.001	<0.0003	<0.001	<0.0002
Nickel	0.15	<0.03	<0.03	<0.03	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02
Potassium	--	6.3									
Selenium	0.01	<0.005	<0.001	<0.001	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.01
Silver	0.05	<0.01	<0.0003	<0.01	<0.01	<0.01	<0.015	<0.003	<0.01	<0.01	<0.01
Sodium	--	5.4	1.6	1.7	1.8	1.7	1.3	1.5	1.8	1.7	4.62
Zinc	5.0	0.06									
Chloride	250	2.5	1.5	2.0	1.0	<0.5	3.5	7.0	11.5	4.5	1.5
Fluoride	2.0	0.05	0.1	<0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.04
Nitrite	1.0	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
Nitrate	10.0	0.7									
Phenol, Total	--	<0.05	<0.01	<0.03	<0.01	0.04	0.03	<0.01	0.035	<0.01	<0.005
Sulfate	250	27.0	11.0	8.5	<2.0	<2.0	6.0	<5.0	<5.0	<5.0	16.5
Dissolved Solids	500	7.5	44	92	92	684	40	12	32	40	52
TOC	--	0.9	4.0	5.6	0.3	10.8	1.4	1.4	<1.0	<1.0	7.0
TOH	--	0.183	0.031	0.027	0.042	0.066	0.037	0.026	0.023	0.009	<0.01
pH (Standard Units)	6.5-8.5	6.1	5.2	5.7	5.5	5.1	5.0	5.2	5.2	5.9	5.95
Specific Conductance[c] (μmhos/cm @ 25°C)	--	106	33	40	33	33	31	30	30	27	34

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 10
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-10
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	23-May-90	07-Dec-90	21-May-91	29-Oct-91	18-May-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05	<0.005	<0.01	<0.05	<0.15	<0.005	<0.005	<0.010	<0.01	<0.001	<0.001
Barium	1.0	0.037	<0.5	0.05	<0.2		<0.20	<0.20	<0.2	0.2	0.013
Calcium	--	1.86	1.1	2.25	2.86	2.2	2.9	3.4 J	<5.0	1.887	2.522
Cadmium	0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.010	<0.01	<0.001	<0.001
Chromium	0.05	<0.008	<0.02	0.02	<0.05	<0.01	0.01	<0.05	<0.05	<0.005	<0.005
Copper										<0.005	0.007
Iron	0.3	6.37	0.04	8.38	19.2	2.7	14	1.1	1.9	0.569	0.83
Lead	0.05	<0.03	<0.03	<0.03	<0.08	<0.005	0.008	0.0068 J	<0.05	<0.01	<0.01
Magnesium	--	2.13								1.404	2.148
Manganese	0.05		0.04	0.11	0.28	0.05	0.19	0.17	2.4	0.025	0.016
Mercury	0.0011	<0.0002	<0.0005	<0.002	<0.003	<0.0005	<0.0005	<0.0020	<0.002	<0.0002	0.0003
Nickel	0.15	<0.05	<0.03	<0.03	<0.12	<0.03	<0.03	<0.04	<0.04	<0.005	<0.005
Potassium	--									1.156	1.043
Selenium	0.01	<0.005	<0.006	<0.05	<0.05	<0.005	<0.005	<0.010	<0.01	<0.002	0.005
Silver	0.05	<0.005	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.005	<0.005
Sodium	--	1.62	1.0	1.62	1.78	2.5	2.2	5.2	<5.0	1.7	2.535
Zinc	5.0									0.075	0.067
Chloride	250	<1.0	3.0	0.58	<1.0	<1.0	2.1	1.0	<1.0	0.5	2.7
Fluoride	2.0	0.07	<0.1	0.11	<1.0	<0.1	<0.1	0.32	<0.1	<0.5	<0.5
Nitrite	1.0	0.02	<0.005	0.05	<0.01		0.08	<0.02	<0.02	<0.01	<0.01
Nitrate	10.0					<0.02	<0.02	0.21		2.36	0.05
Phenol, Total	--	<0.005	0.02	<0.01	<0.01	<0.005	<0.005	<0.050	<0.01	3	3
Sulfate	250	30.0	<5.0	<5.0	2.8	7.5	<3.0	<10.00	<12.0	1.8	1.7
Dissolved Solids	500	68	84	37	43	44	110	37	27	26	40
TOC	--	<1.0	1.2	<1.0	<5.0	2.3	3.5	<0.50	<2.6	0.5	0.5
TOH	--	<0.01	0.022	<0.01	<0.01	<0.01	<0.01	<0.010		0.01	0.057
pH (Standard Units)	6.5-8.5	6.4	5.4	6.44	6.08	6.2	6.4	6.25	6.4	6.1	6.2
Specific Conductance[c] (µmhos/cm @ 25°C)	--	33	35	30	29	35	30	25	43	32	37

Analytical results are reported in parts per million (ppm

TABLE 11
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-11
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	13-Jul-83	22-May-86	24-Sep-86	17-Dec-86	13-Feb-87	03-Jun-87	23-Sep-87	30-Nov-87	22-Mar-88	30-Nov-89
Arsenic	0.05	<0.001	<0.002	<0.008	<0.005	0.017	<0.006	<0.01	<0.005	<0.005	<0.01
Barium	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.2
Calcium	--	3.1	1.0	1.3	1.4	2.5	1.4	1.1	1.2	1.5	3.6
Cadmium	0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
Chromium	0.05	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Copper											
Iron	0.3	0.34	<0.03	0.47	0.085	0.3	0.13	0.8	9.3	0.21	0.221
Lead	0.05	<0.05	<0.04	<0.04	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0118
Magnesium	--	1.6									
Manganese	0.05	0.06	0.02	0.01	0.016	<0.01	0.02	<0.01	<0.02	<0.01	0.037
Mercury	0.0011	<0.001	0.0003	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0003	<0.001	<0.0002
Nickel	0.15	<0.03	<0.03	<0.03	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02
Potassium	--	11.4									
Selenium	0.01	<0.005	<0.001	<0.001	<0.005	<0.002	<0.002	<0.005	<0.002	<0.001	<0.01
Silver	0.05	<0.01	<0.0003	<0.01	<0.01	<0.01	<0.015	<0.003	<0.01	<0.01	<0.01
Sodium	--	5.5	3.8	3.1	6.2	4.7	3.6	3.9	4.6	4.5	7.95
Zinc	5.0	0.04									
Chloride	250	<1.0	5.5	8.0	7.5	8.5	10.5	5.0	12.5	14.0	10.3
Fluoride	2.0	0.09	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	0.02
Nitrite	1.0	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
Nitrate	10.0	1.7									
Phenol, Total	--	<0.05	<0.01	<0.03	<0.01	0.04	0.02	<0.01	0.04	<0.01	<0.005
Sulfate	250	15.0	3.0	<2.0	<2.0	<2.0	7.0	6.6	<5.0	<5.0	3.5
Dissolved Solids	500	8.7	68	88	6.8	692	172	72	84	144	61
TOC	--	2.7	9.5	4.8	0.8	10.7	0.08	<1.0	3.6	<1.0	7.0
TOH	--	0.093	0.055	0.25	0.118	0.066	0.036	0.051	0.017	0.0028	<0.01
pH (Standard Units)	6.5-8.5	6.2	4.9	4.9	5.4	5.9	4.6	4.6	4.5	4.9	5.4
Specific Conductance[c] (μmhos/cm @ 25°C)	--	83	72	80	83	86	79	78	83	79	88

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 11
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-11
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	23-May-90	07-Dec-90	21-May-91	29-Oct-91	18-May-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05	<0.005	<0.01	<0.05	<0.15	<0.005	<0.005	<0.010	<0.01	<0.001	<0.001
Barium	1.0	0.242	<0.5	0.2	1.1		<0.20	<0.20	<0.2		0.065
Calcium	--	3.27	1.1	3.77	3.68	4.0	2.7	3.1 J	<5.0	5.065	1.949
Cadmium	0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.010	<0.01	<0.001	
Chromium	0.05	0.032	<0.02	0.03	0.16	0.04	0.01	<0.05	<0.05	0.006	0.005
Copper										<0.005	0.007
Iron	0.3	58.7	0.07	32.7	327	77.0	22	3.1	6	4.941	7.367
Lead	0.05	<0.03	<0.03	<0.03	0.16	0.015	0.007	<0.050	<0.05	0.012	<0.01
Magnesium	--	9.65								3.685	0.511
Manganese	0.05		0.05	0.07	0.50	0.12	0.05	0.023	0.018	0.079	0.022
Mercury	0.0011	<0.0002	<0.0005	<0.002	<0.003	<0.0005	<0.0005	<0.0020	<0.002	<0.0002	<0.0002
Nickel	0.15	<0.05	<0.03	<0.03	0.12	<0.03	<0.03	<0.04	<0.04	<0.005	0.006
Potassium	--									2.564	1.816
Selenium	0.01	<0.005	<0.006	<0.05	<0.05	<0.005	<0.005	<0.010	<0.01	0.005	0.005
Silver	0.05	<0.005	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.005	<0.005
Sodium	--	4.36	3.3	4.14	5.0	4.8	5.0	5.3	<5.0	3.3	3.646
Zinc	5.0									0.254	0.094
Chloride	250	9.0	15.0	10.4	14.0	9.7	11	9.1	7.5	6.2	7.1
Fluoride	2.0	0.05	<0.1	<0.1	<1.0	<0.1	<0.1	0.20	<0.1	<0.5	<0.5
Nitrite	1.0	0.08	<0.005	5.0	<0.01		0.11	<0.02	<0.002	<0.01	<0.01
Nitrate	10.0					4.2	2.8	2.0		12.2	2.64
Phenol, Total	--	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.050	<0.01	3	3
Sulfate	250	21.0	<5.0	<5.0	<1.0	<3.0	<3.0	<10.0	<1.0	<1.0	<1.0
Dissolved Solids	500	94	84	63	75	60	70	81	43	71.3	60
TOC	--	4.0	<1.0	<1.0	<5.0	1.1	14	1.4	3.3	1.4	19.1
TOH	--	0.021	0.013	0.02	<0.01	<0.01	0.13	<0.010		0.022	0.027
pH (Standard Units)	6.5-8.5	6.0	4.9	7.27	5.31	5.4	5.5	5.40	5.43	5.7	5.3
Specific Conductance[c] (µmhos/cm @ 25°C)	--	89	97	95	82	92	77	550	62	86	63

Analytical results are reported in parts per million (ppm

TABLE 12
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-12
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	13-Jul-83	22-May-86	24-Sep-86	17-Dec-86	13-Feb-87	03-Jun-87	23-Sep-87	27-Oct-87	15-Mar-88	11-Oct-88
Arsenic	0.05	<0.001	<0.002	<0.008	<0.005	<0.005	<0.003	<0.01	<0.01	<0.005	<0.005
Barium	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<1.0
Calcium	--	5.9	0.46	0.39	0.62	1.9	1.2	1.0	1.2	0.76	0.59
Cadmium	0.005	<0.01	<0.005	<0.005	0.0048	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
Chromium	0.05	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02
Copper											
Iron	0.3	0.76	0.29	6.8	0.93	1.5	0.14	0.32	0.67	<0.04	0.09
Lead	0.05	<0.05	<0.04	<0.04	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02	<0.03
Magnesium	--	2.1									
Manganese	0.05	0.28	0.02	0.04	0.05	<0.01	0.02	<0.01	0.02	0.02	0.01
Mercury	0.0011	<0.001	0.002	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0003	<0.0005	<0.0005
Nickel	0.15	<0.03	0.04	<0.03	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Potassium	--	2.8									
Selenium	0.01	<0.005	<0.001	<0.001	<0.005	<0.002	<0.002	<0.002	<0.004	<0.005	<0.001
Silver	0.05	<0.01	<0.0003	<0.01	<0.01	<0.01	<0.015	<0.003	<0.01	<0.01	<0.01
Sodium	--	4.5	4.5	2.5	3.9	3.3	2.1	2.9	3.4	2.9	3.3
Zinc	5.0	<0.02									
Chloride	250	5.0	2.5	3.0	2.0	1.0	3.5	3.0	2.5	3.0	6.5
Fluoride	2.0	0.15	0.1	<0.21	<0.1	0.12	<0.1	0.1	<0.1	0.15	<0.1
Nitrite	1.0	0.018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate	10.0	0.63									
Phenol, Total	--	<0.05	<0.01	<0.03	<0.01	0.04	<0.01	0.073	0.066	<0.01	<0.01
Sulfate	250	21.0	13.0	<2.0	9.0	11.0	19.0	9.3	10.0	<5.0	5.7
Dissolved Solids	500	6.8	68	176	144	732	100	44	172	84	56
TOC	--	4.5	3.8	4.8	2.9	7.3	0.5	<1.0	6.5	<1.0	<0.5
TOH	--	0.119	0.082	0.022	0.089	0.108	0.056	0.034	0.026	0.03	0.014
pH (Standard Units)	6.5-8.5	6.5	5.6	5.3	5.5	5.3	5.2	5.5	5.4	6.2	5.5
Specific Conductance[c] (umhos/cm @ 25°C)	--	88	49	58	54	52	54	47	49	44	44

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 12
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-12
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	29-Nov-89	23-May-90	07-Dec-90	21-May-91	30-Oct-91	02-Jun-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05	<0.01	<0.005	<0.01	<0.05	<0.15	<0.005	<0.005	<0.010	<0.01	0.0005	0.005
Barium	1.0	<0.2	0.246	<0.5	0.18	<0.2		<0.20	<0.20	<0.2	0.05	0.027
Calcium	--	6.7	4.86	2.7	5.31	4.0	5.4	5.2	5.5	<5.0	5.219	4.336
Cadmium	0.005	<0.002	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.010	<0.01	0.001	0.024
Chromium	0.05	<0.02	0.065	<0.02	0.05	<0.05	0.01	<0.01	<0.05	<0.05	0.0025	0.0025
Copper											0.0025	0.0025
Iron	0.3	1.43	86.4	0.12	62.5	16.0	33.0	9.6	1.1	2.8	0.416	3.165
Lead	0.05	0.0178	0.032	<0.03	0.05	<0.08	0.008	<0.005	<0.050	<0.05	0.005	0.005
Magnesium	--		8.75								3.246	3.077
Manganese	0.05	0.585	8.75	0.19	1.99	0.52	1.1	0.26	0.081	0.084	0.026	0.107
Mercury	0.0011	<0.0002	<0.0002	<0.0005	<0.002	<0.003	<0.0005	<0.0005	<0.0020	<0.002	0.0001	0.0008
Nickel	0.15	<0.02	0.068	<0.03	0.03	<0.12	<0.03	<0.03	<0.04	<0.04	0.0025	0.0025
Potassium	--										2.119	1.983
Selenium	0.01	<0.01	<0.005	<0.006	<0.05	<0.05	<0.005	<0.005	<0.010	<0.01	0.001	0.005
Silver	0.05	<0.01	<0.005	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	0.0025	0.0025
Sodium	--	7.2	3.55	3.3	3.88	3.91	5.6	6.0	7.9	<5.0	4.92	4.821
Zinc	5.0										0.0125	0.026
Chloride	250	2.0	2.0	5.0	2.11	2.6	3.2	4.5	3.5	1.8	3.4	3.4
Fluoride	2.0	0.08	0.11	<0.1	0.12	<1.0	<0.1	<0.1	0.072	<0.10	0.25	0.25
Nitrite	1.0	<0.1	<0.01	<0.005	0.56	<0.01		0.10	0.60	<0.02	0.005	0.005
Nitrate	10.0						0.56	0.53	0.81		4.98	0.72
Phenol, Total	--	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.050	<0.01	3	3.75
Sulfate	250	18.5	34.0	12.0	11.8	11.1	25.0	12	20.0	13	13.6	17
Dissolved Solids	500	61	300	116	83	128	210	150	91	78	62.0	115
TOC	--	7.0	5.0	<1.0	<0.1	<5.0	1.2	1.8	11	2.7	3.9	9
TOH	--	<0.01	0.056	0.008	0.042	<0.01	<0.01	0.06	0.044		<0.005	0.02
pH (Standard Units)	6.5-8.5	6.79	6.5	5.8	7.89	6.15	6.5	6.4	6.15	6.48	6.1	6.2
Specific Conductance[c] (µmhos/cm @ 25°C)	--	116	64	69	70	64	82	91	740	76	81	88

Analytical results are reported in parts per million (ppm)

TABLE 13
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-13
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	15-Mar-88	11-Oct-88	29-Nov-89	23-May-90	07-Dec-90	21-May-91	30-Oct-91	02-Jun-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.05	<0.15	<0.005	<0.005	<0.010	<0.01	<0.001	<0.001
Barium	1.0	<0.1	<1.0	0.27	1.1	<0.5	1.39	0.41		0.21	<0.20	<0.2	<0.1	0.91
Calcium	--	0.71	0.2	51.4	81.5	178	213	197	200	210	170	140	115.962	106.745
Cadmium	0.005	<0.01	<0.01	0.002	<0.005	<0.005	<0.04	<0.01	<0.005	<0.005	<0.010	<0.01	<0.001	0.019
Chromium	0.05	<0.02	<0.02	<0.02	0.113	<0.02	0.13	0.10	0.10	0.02	<0.05	<0.05	<0.005	0.102
Copper													<0.005	0.136
Iron	0.3	0.17	3.2	16.1	167	0.57	196	49.1	140	33	19	5.3	0.942	137.31
Lead	0.05	<0.02	<0.03	0.0114	0.043	<0.03	<0.29	<0.08	0.034	<0.005	<0.050	<0.05	<0.01	0.019
Magnesium	--				82.7								83.021	104.897
Manganese	0.05	0.35	0.34	8.65		10.6	14.2	11.0	16.0	17	15	1.4	11.701	10.66
Mercury	0.0011	<0.0005	0.002	0.0024	0.0009	0.0009	0.002	<0.003	0.0013	<0.0005	<0.0020	<0.002	0.0003	0.0022
Nickel	0.15	<0.03	<0.03	0.043	0.116	<0.03	<0.24	<0.12	0.09	0.03	<0.04	<0.04	0.012	0.09
Potassium	--												12.544	42.09
Selenium	0.01	0.002	<0.001	<0.01	<0.005	<0.006	<0.02	<0.05	<0.005	<0.005	<0.010	<0.01	0.067	0.005
Silver	0.05	<0.01	<0.01	<0.01	<0.005	<0.01	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.005	<0.005
Sodium	--	2.4	2.1	38.9	78.9	204	318	453	640	740	750	910	1424	106.678
Zinc	5.0												0.049	0.421
Chloride	250	3.5	2.0	88.8	100	185	168	268	210	230	180	220	187.8	175.7
Fluoride	2.0	<0.1	<0.1	0.03	0.07	0.7	0.32	<1.0	<0.1	<0.1	0.59	<0.10	<0.5	<0.5
Nitrite	1.0	<0.005	<0.005	<0.1	0.07	<0.05	<0.05	<0.01		0.05	0.10	<0.02	<0.01	<0.01
Nitrate	10.0								0.10	0.07	0.14		1.57	0.14
Phenol, Total	--	<0.01	<0.01	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	<0.005	<0.050	<0.01	3	3.75
Sulfate	250	13.0	<5.0	235	349	1100	1720	1568	2400	2600	2400	3000	4518	1880
Dissolved Solids	500	80	60	500	880	1872	2580	2860	3800	3400	3800	4200	4013	4070
TOC	--	<1	0.75	14.0	23.0	11.2	3.0	17.0	5.2	6.7	25	7.5	7.4	6.9
TOH	--	0.011	0.024	0.111	0.115	0.095	0.083	0.208	0.12	0.12	0.25		0.236	0.262
pH (Standard Units)	6.5-8.5	6.1	5.4	5.72	6.1	5.3	7.41	5.67	5.8	5.9	5.8	6.69	6	6.7
Specific Conductance[c] (µmhos/cm @ 25°C)	--	34	34	775	1200	2450	3000	2873	4500	4600	340000	4900	5350	5520

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 14
SUMMARY OF GROUND WATER QUALITY DATA FOR MONITOR WELL MW-14
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	12-Mar-92	18-May-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05	<0.005	<0.005	<0.005	<0.010	<0.01	0.002	0.005
Barium	1.0			1.6	3.75	<0.2	<0.1	11.68
Calcium	--	92	43.0	9.4	7.8	<5.0	6.608	29.727
Cadmium	0.005	<0.10	<0.10	<0.005	<0.010	0.71	<0.001	0.076
Chromium	0.05	4.0	1.8	0.16	<0.05	0.065	<0.005	1.22
Copper							<0.005	0.299
Iron	0.3	2100	970	82	18	34	0.669	521.109
Lead	0.05	0.28	0.15	0.016	0.016 J	<0.05	<0.01	0.132
Magnesium	--						3.498	213.334
Manganese	0.05	50	20.0	1.8	2.9	1	0.27	11.896
Mercury	0.0011	0.0008	<0.0005	<0.0005	<0.0020	<0.002	<0.0002	0.0005
Nickel	0.15	2.2	0.89	0.08	<0.04	<0.04	<0.005	0.636
Potassium	--						3.019	237.081
Selenium	0.01	<0.005	<0.005	<0.005	<0.010	<0.01	<0.002	0.005
Silver	0.05	<0.20	<0.2	<0.01	<0.05	<0.05	<0.005	<0.005
Sodium	--	40	11.0	7.0	9.3	7.1	6.75	9.713
Zinc	5.0						<0.025	1.867
Chloride	250	25	40.0	19	13	17	20.8	23.4
Fluoride	2.0	<0.1	<0.1	<0.1	0.67	<0.10	<0.5	<0.5
Nitrite	1.0	0.03		0.02	0.89	<0.02	<0.01	0.03
Nitrate	10.0		0.12	0.11	1.2		3.02	1.47
Phenol, Total	--	<0.005	<0.005	<0.005	<0.050	<0.01	3.35	3.75
Sulfate	250	<3.0	3.1	<3.0	<10.0	<1.0	1.5	1.5
Dissolved Solids	500	100	160	70	30	140	80.0	82
TOC	--	3.2	2.3	1.4	4.5	2.4	6.7	6.3
TOH	--	<0.01	0.01	<0.01	0.023		0.008	0.078
pH (Standard Units)	6.5-8.5	6.09	6.6	6.0	5.66	6.49	5.8	6.7
Specific Conductance [c] (µmhos/cm @ 25°C)	--	150	240	120	910	110	109	128

Analytical results are reported in parts per million (ppm) unless otherwise noted.

TABLE 15
SUMMARY OF GROUND WATER RESULTS FOR MONITOR WELL MW-15
CHAMPION INTERNATIONAL, CANTON, NC

DATE	NCGWQS	12-Mar-92	19-May-92	15-Nov-92	24-May-93	Nov-93	May-94	Nov-94
Arsenic	0.05	<0.005	<0.005	<0.005	<0.010	<0.01	0.002	<0.001
Barium	1.0			4.2	1.7	2.5	<0.1	2.232
Calcium	--	32	7.1	8.5	4.8	5.4	2.569	7.262
Cadmium	0.005	0.97	0.19	0.25	<0.05	<0.01	<0.001	0.019
Chromium	0.05	1200	200	280	19	0.17	<0.005	0.138
Copper							<0.005	0.105
Iron	0.3	<0.10	<0.005	<0.005	<0.010	190	2.849	142.201
Lead	0.05	0.20	0.037	0.075	0.016 J	<0.05	<0.01	0.039
Magnesium	--						1.483	37.565
Manganese	0.05	16	26	4.1	0.92	2	0.141	2.002
Mercury	0.0011	<0.0005	<0.0005	<0.0005	<0.0020	<0.002	<0.0002	<0.0002
Nickel	0.15	<0.60	0.11	0.13	<0.04	0.09	<0.005	0.076
Potassium	--						2.079	54.431
Selenium	0.01	<0.005	<0.005	<0.005	<0.010	<0.01	<0.002	0.005
Silver	0.05	<0.20	0.04	<0.01	<0.05	<0.05	<0.005	<0.005
Sodium	--	32	3.4	4.2	4.6	<5.0	2.79	2.46
Zinc	5.0						<0.025	0.537
Chloride	250	<1.0	<1.0	2.1	<1.0	<1.0	0.9	3.7
Fluoride	2.0	<0.1	<0.1	<0.1	0.27	0.05	<0.5	<0.5
Nitrite	1.0	0.03		0.20	0.42	<0.02	<0.01	<0.01
Nitrate	10.0		0.04	0.08	0.56		1.75	0.7
Phenol, Total	--	0.025	0.005	<0.005	<0.050	0.032	3.35	3.75
Sulfate	250	<3.0	<3.0	<3.0	<10.0	7.2	1.1	2
Dissolved Solids	500	120	38	18	<10.0	40	35.0	33.0
TOC	--	2.0	1.8	2.2	2.9	1.7	3	0.5
TOH	--	<0.01	<0.01	<0.01	<0.01		0.006	0.03
pH (Standard Units)	6.5-8.5	6.03	6.4	6.5	6.33	6.91	6.2	7
Specific Conductance[c] (µmhos/cm @ 25°C)	--	61	56	31	320	46	25	30

Analytical results are reported in parts per million (ppm) unless otherwise noted.

DIRECTORS

RALPH W. HEIM, PE
JAMES F. SHIVLER JR., PE
BOB ALLIGOOD, AIIE
ROBERT F. DARBY, FAIA
BEN BUCALO, PE
GEORGE M. BARSOM, ScD, PE
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ARCHITECTS · ENGINEERS · PLANNERS

INCORPORATED

February 27, 1987

CHAMPION INTERNATIONAL CORPORATION
Canton Mill
P.O. Box C-10
Canton, N.C. 28716

Attention: Miss Liz Gerrard

Subject: Landfill Monitoring Wells
Sampling and Analytical Services

Gentlemen:

Attached are the analytical results for the monitoring wells sampled on February 13, 1987 Client, L.G. Kent, and N.N. Kent.

These subject services were performed per the terms and conditions of Proposal No. 842307 of July 30, 1984. Sampling points are those suggested for this quarter by Client.

Sampling data in client file.

Thank you for this opportunity to serve you. Should you have any questions, please feel free to call.

Very truly yours,

REYNOLDS, SMITH AND HILLS
Engineers*Architects*Planners

Lee G. Kent
Chemist

LGK:cwp

cc: Accounts Payable - Champion, Int.
Mrs. Mary Lee Ransmeier
Mr. Mike Cody
Laboratory (2)
File

Enclosures: (2)

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CHAMPION INTERNATIONAL CORPORATION
CANTON, NORTH CAROLINA

SAMPLE DATE: 2/13/87

SAMPLED BY: Client & L.G. Kent

	Creek Below	6-4	6-6	6-8	6-9	6-10	6-11
(1) pH	6.3	4.6	5.2	5.3	5.1	5.1	5.9
DS	684	700	828	712	744	684	692
(2) Sp Cond.	77	57	130	66	41	33	86
Ag	<.01	<.01	<.01	<.01	<.01	<.01	<.01
As	0.002	<.005	<.005	<.015	< 015	0.006	0.017
Ba (all)	<.1	<.1	<.1	<.1	<.1	<.1	<.1
Ca	1.9	1.6	6.5	0.95	0.37	1.0	2.5
Cd (all)	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Cr	<.02	<.02	<.02	0.03	<.02	<.02	<.02
Fe	0.28	<.03	0.05	0.72	1.9	0.11	0.3
Hg	0.0003	<.001	<.001	<0.001	<0.007	<0.007	<.001
Mn	<.01	0.08	0.13	0.03	0.02	<.01	<.01
Na	7.2	2.4	7.8	7.0	4.1	1.7	4.7
Ni	<.03	<.03	<0.03	<.03	<.03	<.03	<.03
Pb	<.03	<.03	<.03	<.03	<.03	<.03	<.03
Se	<.002	<.002	<.002	<.002	<.002	<.002	<.002
Cl-	4.5	2.5	8.5	2.0	<0.5	<0.5	8.5
F-	<.1	<.1	0.11	0.16	0.11	<.1	<.1
NO_2-N(all)	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Phenol	0.11	0.06	0.06	0.03	<0.01	0.04	0.04
Sulfate	16	23	22	21	10	<2	<2
TOC	9.5	6.6	10.9	9.4	5.9	10.8	10.7
TOH	0.101	0.062	0.038	0.058	0.078	0.066	0.066

NOTE: All values are reported as mg/l except as noted:

(1) pH Units
(2) Specific Conductivity, uhmos/cm

CHAMPION INTERNATIONAL CORPORATION
CANTON, NORTH CAROLINA

SAMPLE DATE: 2/13/87

SAMPLED BY: Client & L.G. Kent

	5C1(u)	5C2(n)	5C3(s)	Coal U	Coal D	6-1(u)	6-2
(1) pH	5.2	6.0	53	5.7	7.4	7.3	11.0
DS	704	840	884	1984	1260	12,600	12,080
(2) Sp Cond.	118	90	85	1610	874	302	10,900
Ag	<.01	<.01	<.01	--	--	0.016	<0.01
As	<.005	<.005	<.005	<.005	< 005	0.006	0.77
Ba (all)	<.1	<.1	<.1	--	--	0.1	<.1
Ca	8.0	1.4	0.84	--	--	0.10	<.02
Cd (all)	<.005	<.005	<.005	<.005	<.005	0.025	<.005
Cr	<.02	<.02	<.02	--	--	0.09	0.04
Fe	<.03	1.8	3.8	--	--	118.0	14.8
Hg	<.001	<.001	<.001	--	--	0.0004	0.0009
Mn	<.01	0.02	0.19	--	--	0.12	0.10
Na	5.2	9.2	10.3	--	--	93	2630
Ni	<.03	<.03	<.03	--	--	0.13	0.35
Pb	<.03	<.03	<.03	--	--	0.32	0.06
Se	<.002	<.002	<.002	--	--	<.002	0.027
Cl^-	8.0	4.5	8.5	--	--	3.5	500
F^-	0.1	0.17	0.18	--	--	0.51	21
NO_2-N(all)	<.005	<.005	<.005	<.005	<.005	<.01	<.05
Phenol	0.06	0.01	0.01	0.05	0.06	<.01	1.0
Sulfate	17	5	9	680	310	190	1400
TOC	7.0	9.4	7.5	--	--	29.5	524.
TOH	0.016	0.177	0.123	--	--	2.35	0.85

NOTE: All values are reported as mg/l except as noted:

(1) pH Units
(2) Specific Conductivity, uhmos/cm

#6-1 - Turbid, white.
Possible positive matrix interference, #6-1, 6-2

If you have not yet received a supply of marked sample bottles, please contact us.

24.54 ft.

CHAMPION INTERNATIONAL CORPORATION
CANTON, NORTH CAROLINA

SAMPLE DATE: 2/13/87

SAMPLED BY: Client & L.G. Kent

	6-12
(1) pH	5.3
DS	732
(2) Sp Cond.	52
Ag	<.01
As	<.005
Ba (all)	<.1
Ca	1.9
Cd (all)	<.005
Cr	<.02
Fe	1.5
Hg	<.001
Mn	<.01
Na	3.3
Ni	<.03
Pb	<.03
Se	<.002
Cl-	1.0
F-	0.12
NO_2-N(all)	<.005
Phenol	0.04
Sulfate	11
TOC	7.3
TOH	0.108

NOTE: All values are reported as mg/l except as noted:

(1) pH Units
(2) Specific Conductivity, uhmos/cm

REYNOLDS, SMITH AND HILLS

ARCHITECTS · ENGINEERS · PLANNERS

INCORPORATED

November 19, 1987

Champion International Corporation
Canton Mill
P.O. Box C-10
Canton, NC 28716

Attention: Ms. Liz Gerrard

Subject: Landfill Monitoring Wells
Sampling and Analytical Services

Attached are the analytical results for monitoring well received October 28, 1987 and tested by L.G. Kent and Nancy N. Kent per methods of the USEPA.

Sampling data in Client file.

Test Dates=pH, Sp. Cond., Nitrite-N; Phenol=Day received; all other nonmetals= within two days; metals= within 7 days of sampling date.

Thank you for this opportunity to serve you; should you have any questions please feel free to call.

Very truly yours,

REYNOLDS, SMITH & HILLS

Lee G. Kent
Chemist

LGK:cbb

cc: Accounts Payable: Champion International Corporation
Mr. Paul Wiegard
Mr. Mike Cody
Laboratory (2)
File

Enclosures: 2

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CANTON, NORTH CAROLINA

	5C1	5C2	5C3	6-2	6-4	6-6	6-12
pH	5.0	5.6	5.2	9.6	5.4	4.8	5.4
DS	144	156	236	9980	160	2060	172
	111	98	79	10,900	94	86	49
Ag	<.01	<.01	<.01	0.125	<.01	<.01	<.01
As	<.01	<.01	<.01	0.125	<.01	<.01	<.01
Ba	<.1	<.1	<.1	<.1	<.1	<.1	<.1
Ca	7.8	7.6	4.4	0.07	4.0	2.1	1.2
Cd	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Cr	<.01	<.01	<.01	<.01	<.01	<.01	<.01
Fe	<.03	0.66	1.6	9.0	7.3	2.6	0.67
Hg	<.0003	<.0003	<.0003	<.0012	<.0003	<.0003	<.0003
Mn	<.01	<.01	0.40	0.04	0.46	0.09	0.02
Na	5.1	7.4	7.1	3100	3.7	6.2	3.4
Ni	<.03	<.03	<.03	0.35	<.03	<.03	<.03
Pb	<.03	<.03	<.03	0.6*	<.03	<.03	<.03
Se	<.002	<.002	<.002	0.002	<.004	<.004	<.004
Cl	11.5	5.5	10.0	345	8.5	9.0	2.5
F	<0.1	<.1	<.1	10	0.1	<.1	<.1
NO_2-N	<.005	<.005	<.005	<.01	<.005	<.005	<.005
OH	0.015	0.029	0.018	0.93	0.10	0.063	0.066
SO_4=	13	<5	7	1430	2	14	10
TOC	2.9	7.1	4.2	900	2.3	10	6.5
TOH	0.041	0.037	0.045	0.200	0.038	0.047	0.026

Note: All mass values are reported as mg/ℓ/

(1) pH units
(2) Specific Conductivity, Uhmos/cm

*Possible positive matrix interference, #6-2

SAMPLE DATE: 10/27/87

SAMPLED BY: CLIENT

3/22/88

REYNOLDS, SMITH AND HILLS

ARCHITECTS · ENGINEERS · PLANNERS

INCORPORATED

April 15, 1988

Champion International Corporation
Canton Mill
P.O. Box C-10
Canton, NC 28716

Attention: Ms. Liz Gerrard

Subejct: Landfill Monitoring Wells
Sampling and Analytical Services

Attached are the analytical results for monitoring well received March 16, 1988 and tested by Lee G. Kent and Nancy N. Kent per latest methods of the USEPA.

Sampling data in Client file.

Test Dates=pH, Sp. Cond., Nitrite-N; Phenol=Day received; all other nonmetals=within two days; metals=within 7 days of sampling date.

Thank you for this opportunity to serve you; should you have any questions please feel free to call.

Very truly yours,

REYNOLDS, SMITH AND HILLS

Lee G. Kent
Chemist

cc: Accounts payable-Champion International Corporation
Mr. Paul Wiegand
Mr. Mike Cody
Laboratory (2)
File

	3/22 6-1	3/22 6-8	3/22 6-9	3/22 6-10	3/22 6-11	3/22 Coal-U	3/22 Coal-D	6-2	6-3A	6-4	6-[illegible]
pH	6.5	5.9	5.7	5.9	4.9	8.0	5.7	9.7	7.6	6.1	6.[illegible]
DS	304	324	60	40	144	*2100	*676	*9070	220	236	12[illegible]
(2)	135	64	30	27	79	2020	666	9470	90	238	90
Ag	<.01	<.01	<.01	<.01	<.01	---	---	<.01	<.01	<.01	<
As	<.005	<.005	<.005	<.005	<.005	<.005	<.005	*0.130	<.005	<.005	<.[illegible]
Ba	<.1	<.1	<.1	<.1	<.1	---	---	<.1	<.1	<.1	<
Ca	0.69	0.75	0.84	0.93	1.5	---	---	0.1	3.0	2.1	1.[illegible]
Cd	<.005	<.005	<.005	<.005	<.005	<.005	<.005	*0.017	<.01	<.01	<.[illegible]
Cr	<.02	<.02	<.02	<.02	<.02	---	---	<.02	<.02	<.02	<.[illegible]
Fe	*1.3	*1.7	0.04	<.03	0.21	---	---	*1.7	0.13	*23	*0.
Hg	<.001	<.001	<.001	<.001	<.001	---	---	<.002	<.0005	<.002	<.[illegible]
Mn	0.02	*0.09	<.01	<.01	<.01	---	---	0.02	<.01	*0.61	*2.
Na	21.6	6.9	2.1	1.7	4.5	---	---	*2690	5.7	5.7	3.
Ni	<.03	0.06	<.03	<.03	<.03	---	---	0.36	<.03	<.03	<.[illegible]
PB	<.03	<.03	<.03	<.03	<.03	---	---	0.02	<.02	<.02	<.
Se	<.002	<.002	<.002	<.002	<.001	---	---	*0.013	<.005	<.005	<.[illegible]
Cl^-	3.5	5.0	4.0	4.5	14.0	---	---	150.0	6.0	44.0	7.
F	0.2	0.1	<.1	<.1	<.1	---	---	*11	0.2	0.9	0.
NO_2-N	<.005	<.005	<.005	<.005	<.005	0.025	<.005	<.05	<.005	<.005	<.
Phenol	<.01	<.01	<.01	<.01	<.01	<.01	<.01	0.03	0.05	0.03	0.
SO_4	27	70	<5	<5	<5	*1120	*338	*1700	10	49	7
TOC	1.2	<1	1.5	<1	<1	---	---	*520	3.6	<1	2.
TOH	0.007	0.013	0.008	0.009	0.008	---	---	0.35	0.016	0.16	0.

Note: All mass values are reported as mg/l.

(1) pH units

(2) Specific Conductivity, Uhmos/cm

Sample Date: 3/15/88*** Sampled by: Client

***Exception to above sample date for columns 6-1, 6-8, 6-9, 6-10, 6-11, Coal-U, and Coa
These were sampled 3/22/88

cc: PAUL WIEGAND
GEORGE PICKARD
GEORGE BROWN
JIM KIDD
JACK HARRELL

REYNOLDS, SMITH AND HILLS

ARCHITECTS • ENGINEERS • PLANNERS
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July 7, 1987

CHAMPION INTERNATIONAL CORPORATION
Canton Mill
P.O. Box C-10
Canton, NC 29716

Attention: Mrs. Liz Gerrard

Subject: Landfill Monitoring Wells
Sampling and Analytical Services

Attached are the analytical results for monitoring wells received June 4th and 9th of 1987, tested by L.G. Kent and N.N. Kent per methods of the USEPA.

Sampling data in client file.

Test Dates = pH, Sp. Cond., Nitrate-N, Phenol = Day received; all other non-metals = within two days; metals = within 7 days of sampling date.

Thank you for this opportunity to serve you. Should you have any questions, please feel free to call.

Very truly yours,

REYNOLDS, SMITH AND HILLS
Architects-Engineers-Planners, Inc.

Lee G. Kent
Chemist

LGK/tjh

cc: Accounts Payable - Champion Int.
Mrs. Mary Lee Ransmeier
Mr. Mike Cody
Laboratory (2)
File

Enclosures: 2

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REYNOLDS, SMITH AND HILLS

CHAMPION INTERNATIONAL CORPORATION
CANTON, NORTH CAROLINA

SAMPLE DATE: 6/3/87

SAMPLED BY: Client

	5B1	5B2	5B3	5C1	5C2	5C3	COAL U
(1) pH	5.2	5.7	5.3	5.5	5.5	5.5	5.6
DS	44	240	164	96	72	172	1264 *
(2) Sp Cond.	33	300	161	116	99	77	1550 *
Ag	<.015	<.015	<.015	<.015	<.015	<.015	---
As	<.005	<.005	<.005	<.005	<.005	<.005	<.01
Ba	<.1	<.1	0.3	<.1	<.1	<.1	---
Ca	1.3	14.7	4.3	3.2	1.9	1.2	---
Cd	<.005	<.005	<.005	<.005	<.005	<.005	0.038
Cr	<.02	<.02	<.02	<.02	<.02	<.02	---
Fe	0.19	5.1	6.2	<.03	0.50	0.87	---
Hg	<.0002	0.0066	<.0002	<.001	<.001	<.001	---
Mn	0.17	0.54	3.6	0.02	<.02	0.32	---
Na	0.65	7.8	6.2	5.0	7.3	6.1	---
Ni	<.03	<.03	<.03	<.03	<.03	<.03	---
Pb	<.03	<.03	<.03	<.03	<.03	<.03	---
Se	<.002	<.002	<.002	<.002	<.002	<.002	---
Cl-	2.0	31.0	9.5	9.8	2.5	10.5	---
F-	<.1	<.1	<.1	<.1	<.1	0.15	---
NO_2-N	<.005	<.005	<.005	<.005	<.005	<.005	0.031
Phenol	0.03	0.02	0.03	0.03	<.01	<.01	0.01
Sulfate	4	9	19	21	7	1	900 *
TOC	3.0	36	10	4.4	8.2	5.3	---
TOH	0.019	0.040	0.025	0.046	0.046	0.124	---

NOTE: All mass values are reported as mg/l.

(1) pH Units
(2) Specific Conductivity, uhmos/cm

REYNOLDS, SMITH AND HILLS

CHAMPION INTERNATIONAL CORPORATION
CANTON, NORTH CAROLINA

SAMPLE DATE: 6/3/87

SAMPLED BY: Client

	COAL D	BOW U	BOW D	6-1	6-2	6-4	6-6
(1) pH	8.8 *	5.7	6.2	6.8	10.2 *	5.4	5.1
DS	600 *	116	140	5000 *	8944 *	268	2452 *
(2) Sp Cond.	783 *	55	77	344 *	9820 *	241	121
Ag	---	<.015	<.013	0.025	0.015	<.015	<.015
As	<.01	<.01	<.01	0.025	0.24	<.01	<.01
Ba	---	<.1	<.1	<.1	<.1	<.1	<.1
Ca	---	1.5	1.7	0.006	0.03	4.6	2.0
Cd	<.005	<.005	<.005	<.01	<.005	<.005	<.005
Cr	---	<.02	<.02	<.02	<.02	<.02	<.02
Fe	---	0.11	0.21	34.7 *	8.7 *	3.9 *	0.11
Hg	---	<.001	<.001	<.0003	0.0015	<.001	<.001
Mn	---	<.02	<.02	0.08 *	0.11 *	1.7 *	0.05
Na	---	2.3	5.4	2320 *	2775 *	6.0	7.2
Ni	---	<.03	<.03	0.05	0.39	<.03	<.03
Pb	---	<.03	<.03	0.06 *	<.1	<.03	<.03
Se	---	<.002	<.001	<.002	0.0023	<.002	<.002
Cl-	---	2.5	5.5	6.5	500 *	32.0	10.0
F-	---	<.1	<.1	0.54	8.7 *	<.1	0.11
NO_2-N	0.01	<.005	0.008	<.02	<.02	<.005	<.005
Phenol	0.05	0.01	0.01	<.05*	0.85	<.05*	0.03
Sulfate	600 *	4	16	320 *	2200 *	58	19
TOC	---	1.8	1.7	17.4	254 *	1.7	0.7
TOH	---	0.053	0.149	0.783	3.66	0.122	0.037

* With interference

NOTE: All mass values are reported as mg/1.

(1) pH Units
(2) Specific Conductivity, uhmos/cm

#6-1 - Turbid, white.
Possible positive matrix interference, #6-1, 6-2

REYNOLDS, SMITH AND HILLS

CHAMPION INTERNATIONAL CORPORATION
CANTON, NORTH CAROLINA

SAMPLE DATE: 6/3/87

SAMPLED BY: Client

	6-8	6-9	6-10	6-11	6-12
(1) pH	5.3	5.0	5.0	4.6	5.2
DS	864 *	100	40	172	100
(2) Sp Cond.	72	34	31	79	54
Ag	<.015	<.015	<.015	<.015	<.015
As	<.006	<.006	<.006	<.006	<.003
Ba	<.1	<.1	<.1	<.1	<.1
Ca	0.80	0.81	1.0	1.4	1.2
Cd	<.005	<.005	<.005	<.005	<.005
Cr	<.02	<.02	<.02	<.02	<.02
Fe	1.1 *	0.07	<.03	0.13	0.14
Hg	<.001	<.001	<.001	<.001	<.001
Mn	0.05	0.02	<.02	0.02	.02
Na	6.1	1.5	1.3	3.6	2.1
Ni	<.03	<.03	<.03	<.03	<.03
Pb	<.03	<.03	<.03	<.03	<.03
Se	<.002	<.002	<.002	<.002	<.002
Cl-	3.5	1.5	3.5	10.5	3.5
F-	0.22	<.1	<.1	<.1	<.1
NO_2-N	<.005	<.005	<.005	<.005	<.005
Phenol	<.01	<.01	0.03	0.02	<.01
Sulfate	7.5	11	6	7	19
TOC	<.5	<.5	1.4	0.08	0.5
TOH	0.059	0.070	0.037	0.036	0.056

NOTE: All mass values are reported as mg/l.

(1) pH Units
(2) Specific Conductivity, uhmos/cm

Mercury values for 6-9 and 6-10 were incorrectly reported as <0.007 mg/l on the Feb. 27, 1987 report. That value should have read "<0.007."

REYNOLDS. SMITH AND HILLS
ARCHITECTS • ENGINEERS • PLANNERS
INCORPORATED

October 14, 1987

CHAMPION INTERNATIONAL CORPORATION
Canton Mill
P.O. Box C-10
Canton, NC 28716

Attention: Ms. Liz Gerrard

Subject: Landfill Monitoring Wells
Sampling and Analytical Services

Attached are the analytical results for monitoring well received September 24, 1987 and tested by L.G. Kent and Nancy N. Kent per methods of the USEPA.

Sampling data in client file.

Test Dates=pH, Sp. Cond., Nitrite-N; Phenol=Day received; all other nonmetals=within two days; metals= within 7 days of sampling date.

Thank you for this opportunity to serve you; should you have any questions please feel free to call.

Very truly yours,

REYNOLDS SMITH & HILLS

Lee G. Kent
Chemist

LGK:cbb

cc: Accounts payable: Champion International Corporation
Mr. Paul Wiegand
Mr. Mike Cody
Laboratory (2)
File

Enclosures: 2

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REYNOLDS, SMITH AND HILLS

CHAMPION INTERNATIONAL CORPORATION
CANTON, NORTH CAROLINA

SAMPLE DATE: September 23, 1987 SAMPLED BY: CLIENT

	6-1	6-2	6-4	6-6	6-8	6-9	6-10
pH	6.0	10.2	6.3	5.1	5.4	5.2	5.2
DS	316	10.320	180	140	104	48	12
~	182	11,500	78	96	66	32	30
Ag	<.003	0.003	<.003	<.003	<.003	<.003	<.003
As	<.005	0.03	<.01	<.01	<.01	<.01	<.01
Ba	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Ca	1.4	0.08	1.2	1.7	0.85	0.78	0.87
Cd	<.005	<.01	<.005	<.005	<.005	<.005	<.005
Cr	<.02	<.04	<.02	<.02	<.02	<.02	<.02
Fe	3.2	17	2.0	1.9	2.1	0.16	<.03
Hg	<.0003	0.003	<.0003	<.0003	<.0003	<.001	<.001
Mn	0.04	0.05	0.26	0.10	0.01	<.01	<.01
Na	28	2200	2.1	5.9	5.4	2.2	1.5
Ni	<.03	0.34	<.03	<.03	<.03	<.03	<.03
Pb	<.03	<.05	<.03	<.03	<.03	<.03	<.03
Se	<.002	0.003	<.002	<.002	<.005	<.005	<.005
Cl	2.5	440	9.5	7.5	8.5	9.5	7.0
F	0.41	11.7	0.23	<.1	0.28	0.1	<.1
NO_2-N	<.005	<.05	<.005	<.005	<.005	<.005	<.005
ØOH	<.01	<.01*	<.01	<.01*	0.09	<.01	<.01
SULFATE	96	1700	16	16	22	6	<5
TOC	2.1	780	<1	1.0	6.9	2.6	1.4
TOH	0.039	0.68	0.025	0.029	0.023	0.032	0.026

NOTE: All mass values are reported as mg/l.

(1) pH Units
(2) Specific Conductivity, uhmos/cm

*Destructive Interference

Possible positive matrix interference, #6-2

REYNOLDS, SMITH AND HILLS

CHAMPION INTERNATIONAL CORPORATION
CANTON, NORTH CAROLINA

SAMPLE DATE: September 23, 1987 SAMPLED BY: CLIENT

	6-11	6-12	5C-1	5C-2	5C-3	BOW-U	BOW-D
pH	4.6	5.5	5.2	5.7	5.4	6.0	6.4
DS	72	44	80	124	132	28	88
~	78	47	111	98	73	52	92
Ag	<.003	<.003	<.003	<.003	<.003	<.003	<.003
As	<.01	<.01	<.01	<.01	<.01	<.01	<.01
Ba	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Ca	1.1	1.0	3.3	2.1	1.3	1.6	2.0
Cd	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Cr	<.02	<.02	<.02	<.02	<.02	<.02	<.02
Fe	0.80	0.32	<.03	0.72	0.65	0.15	0.56
Hg	<.001	<.001	<.001	<.001	<.001	<.001	<.001
Mn	<.01	<.01	<.01	<.01	0.36	<.01	<.01
Na	3.9	2.9	4.8	7.4	5.6	0.45	8.5
Ni	<.03	<.03	<.03	<.03	<.03	<.03	<.03
Pb	<.03	<.03	<.03	<.03	<.03	<.03	<.03
Se	<.005	<.002	<.002	<.002	<.002	<.005	<.005
Cl	5.0	3.0	12.5	4.5	12.0	2.0	9.5
F	<.1	0.1	<.1	0.17	0.1	<.1	0.1
NO_2-N	<.005	<.005	0.039	<.005	<.005	<.005	<.005
~~O~~OH	<.01*	0.073	<.01	<.01	<.01	<.01	<.01
SULFATE	6.6	9.3	13	<5	<5	<5	12
TOC	<1	<1	1.5	2.0	4.6	1.7	3.5
TOH	0.051	0.034	0.015	0.028	0.110	0.025	0.028

NOTE: All mass values are reported as ng/l/

(1) pH Units
(2) Specific Conductivity, uhmos/cm

*Destructive interference

BRENDA

EPA/N.C. D.E.M. PRIMARY DRINKING WATER STANDARDS

	Parameter	Allowable Level	Units
BIG EIGHT HEAVY METALS	[Arsenic	0.05	mg/l
	[Barium	1.0	mg/l
	[Cadmium	0.01	mg/l
	[Chromium	0.05	mg/l
	[Lead	0.05	mg/l
	[Mercury	0.002	mg/l
	[Selenium	0.01	mg/l
	[Silver	0.05	mg/l
PESTICIDES	[Endrin	0.0002	mg/l
	[Lindane	0.004	mg/l
	[Methoxychlor	0.10	mg/l
	[Toxaphene	0.005	mg/l
	[2, 4-D	0.10	mg/l
	[2,4,5-Tp Silvex	0.01	mg/l
	Total Trihalomethanes	0.10	mg/l
	Combined Radium (226&228)	5.0	PCi/l
	Gross Alpha Particle Activity	15.0	PCi/l
	Gross Beta Particle Activity	50.0	PCi/l
	Gross Beta Conversion	4.0	MRem/year
	Fluoride	1.4-2.4	mg/l
	Nitrate (as N)	10.0	mg/l
	Nitrite (as N)	1.0	mg/l
	Coliform Bacteria	1/100ML	mg/l
	Phenols	1.0	mg/l
	Sodium	_____	mg/l
	Cyanide	0.20	mg/l
	Nickel	0.75	mg/l
	* Chloride	250.0	mg/l
	* Iron	0.30	mg/l
	* Manganese	0.05	mg/l
	* Sulphate	250.0	mg/l
	* Copper	1.0	mg/l
	* Zinc	5.0	mg/l

* Secondary MCL(Maximum Contaminant Level i.e. Less Important)

Indicators

Thermal: Not greater than 30°F variance from the naturally occurring level.

Color: Less than 15 units
Ph: Not less than 6.5 units
Conductivity: _____
TDS (Total Disolved Solids) 500 mg/l
TOC (Total Organic Content) 10 mg/l *
TOX (Total Organic Halogens) 100 mg/l
BOD (Biological Oxygen Demand) 20 mg/l
COD (Chemical Oxygen Demand) _____ mg/l

* GENERALLY ACCEPTED

MLB:tjd

Box 3-10
Canton, North Carolina 28716

Champion
Champion International Corporation

11/30/87

To: Paul Wiegand

Date: February 8, 1988

From: Liz Gerrard

Subject: Fourth Quarter Sampling of Groundwater Monitoring Wells

Please find attached the results of groundwater monitoring wells analyses conducted during the fourth quarter of 1987. Three wells at #5C Landfill and four wells at #6 Landfill were sampled by our environmental technicians on October 27, 1987. The remaining five wells at #6 Landfill, Bowen Branch upstream and downstream, and the upgradient and downgradient wells at the coal pile stormwater collection pond were sampled on November 30, 1987. The parameters which exceed the EPA/N.C.D.E.M. Primary Drinking Water Standards are marked with an asterisk. The results for this quarter are similar to previous analyses. The highest levels of contamination are found in well 6-2 and the coal pile wells. The coal pile well results are reported to the Groundwater Section of the N.C. Environmental Management Division. Results for well 6-2 and the other landfill wells will be reported on an annual basis beginning in May 1988, to the N.C. Solid & Hazardous Waste Management Branch.

Please let me know if you have any questions or comments regarding these results. First quarter groundwater monitoring will be conducted in March, 1988.

Liz

Liz Gerrard

Attachment

Copy: George Brown
Jim Kidd
George Pickard

REYNOLDS, SMITH AND HILLS
ARCHITECTS · ENGINEERS · PLANNERS
INCORPORATED

December 28, 1987

Champion International Corporation
Canton Mill
P.O. Box C-10
Canton, NC 28716

Attention: Ms. Liz Gerrard

Subject: Landfill Monitoring Wells
Sampling and Analytical Services

Attached are the analtyical results for monitoring well received December 1, 1987 and tested by L.G. Kent and Nancy N. Kent per latest methods of the USEPA.

Sampling data in Client file.

Test Dates=pH, Sp. Cond., Nitrite-N; Phenol=Day received; all other non-metals=within two days; metals=within 7 days of sampling date.

Thank you for this opportunity to serve you; should you have any questions please feel free to call.

Very truly yours,

REYNOLDS, SMITH & HILLS

Lee G. Kent
Chemist

cc: Accounts Payable: Champion International
Mr. Paul Wiegand
Mr. Mike Cody
Laboratory (2)
File

Enclosure: 1

DEC. 1, 1987 WELL RESULTS 2/4/88
6-1 & 6-11: Lee Kent

<.03 tr
means they believed they detected something - could have been an artifact in the flame, not a definite yes that it was present; we would report it as <.03

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REYNOLDS, SMITH AND HILLS

	6-1	6-8	6-9	6-10	6-11	Bowen U	Bowen D	Coal U	Coal D
pH (1)	6.0	5.3	5.2	5.2	4.5	6.5	6.7	5.6	7.6
DS	* 508	104	56	32	84	64	64	* 1756	* 556
(2)	191	65	34	30	83	55	88	1950	728
Ag	<.01	<.01	<.01	<.01	<.01	<.01	<.01	---	---
As	<.003	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.00
Ba	<.1	<.1	<.1	<.1	<.1	<.1	<.1	---	---
Ca	1.2	0.74	0.92	0.90	1.2	1.6	2.1	---	---
Cd	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.00
Cr	<.02	<.02	<.02	<.02	<.02	<.02	<.02	---	---
Fe	* 4.3	* 0.57	0.03	0.13	* 9.3	0.09	* 0.52	---	---
Hg	<.0002	<.0003	<.0003	<.0003	<.0003	<.0003	<.0003	---	---
Mn	0.04	0.05	<.02	<.02	<.02	<.02	<0.14	---	---
Na	26.5	6.7	2.1	1.8	4.6	3.3	7.9	---	---
Ni	<.03	<.03	<.03	<.03	<.03	<.03	<.03	---	---
Pb	<.03 tr	<.03	<.03	<.03	<.03 tr	<.03	<.03	---	---
Se	<.002	<.002	<.002	<.002	<.002	<.002	<.002	---	---
Cl-	3.0	5.5	7.0	11.5	12.5	4.0	16.5	---	---
F-	0.36	0.13	<.1	<.1	0.13	0.16	0.16	---	---
NO_2-N	<.005	<.005	<.005	<.005	<.005	<.005	<.005	.006	<.00
Phenol	<.01	0.03	0.04	0.035	0.04	0.06	0.08	0.05	0.07
Sulfate	65	20	<5	<5	<5	<5	9.6	* 1090	* 360
TOC	1.0	2.0	<1	<1	3.6	2.3	<1	---	---
TOH	0.016	0.015	0.013	0.023	0.017	0.014	0.022	---	---

Note: All mass values are reported as mg/l. Two omissions in the preceding report's parameter column are corrected here.

(1) pH units
(2) Specific conductivity, Uhmos/cm

SAMPLE DATE: ~~12/1/87~~ 11/30/87

SAMPLED BY: CLIENT

REYNOLDS, SMITH AND HILLS
ARCHITECTS • ENGINEERS • PLANNERS
INCORPORATED

November 19, 1987

Champion International Corporation
Canton Mill
P.O. Box C-10
Canton, NC 28716

Attention: Ms. Liz Gerrard

Subject: Landfill Monitoring Wells
Sampling and Analytical Services

Attached are the analytical results for monitoring well received October 28, 1987 and tested by L.G. Kent and Nancy N. Kent per methods of the USEPA.

Sampling data in Client file.

Test Dates=pH, Sp. Cond., Nitrite-N; Phenol=Day received; all other nonmetals= withi two days; metals= within 7 days of sampling date.

Thank you for this opportunity to serve you; should you have any questions please feel free to call.

Very truly yours,

REYNOLDS, SMITH & HILLS

Lee G. Kent
Chemist

LGK:cbb

cc: Accounts Payable: Champion International Corporation
Mr. Paul Wiegard
Mr. Mike Cody
Laboratory (2)
File

Enclosures: 2

REYNOLDS, SMITH AND HILLS

CHAMPION INTERNATIONAL CORPORATION
CANTON, NORTH CAROLINA

	SC-1UP 5C1	SC-2ED 5C2	SC-3WD 5C3	6-2	6-4	6-6	6-12
pH	5.0	5.6	5.2	9.6	5.4	4.8	5.4
DS	144	156	236	* 9980	160	* 2060	172
(2)	111	98	79	⊛ 10,900	94	86	49
Ag	<.01	<.01	<.01	* 0.125	<.01	<.01	<.01
As	<.01	<.01	<.01	* 0.125	<.01	<.01	<.01
Ba	<.1	<.1	<.1	<.1	<.1	<.1	<.1
Ca	7.8	7.6	4.4	0.07	4.0	2.1	1.2
Cd	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Cr	<.01	<.01	<.01	<.01	<.01	<.01	<.01
Fe	<.03	* 0.66	* 1.6	* 9.0	* 7.3	* 2.6	* 0.67
Hg	<.0003	<.0003	<.0003	<.0012	<.0003	<.0003	<.000
Mn	<.01	<.01	* 0.40	0.04	* 0.46	* 0.09	0.02
Na	5.1	7.4	7.1	3100	3.7	6.2	3.4
Ni	<.03	<.03	<.03	0.35	<.03	<.03	<.03
Pb	<.03	<.03	<.03	* 0.6⊛	<.03	<.03	<.03
Se	<.002	<.002	<.002	0.002	<.004	<.004	<.004
Cl	11.5	5.5	10.0	* 345	8.5	9.0	2.5
F	<0.1	<.1	<.1	* 10	0.1	<.1	<.1
NO_2-N	<.005	<.005	<.005	<.01	<.005	<.005	<.005
OH	0.015	0.029	0.018	0.93	0.10	0.063	0.066
SO_4=	13	<5	7	* 1430	2	14	10
TOC	2.9	7.1	4.2	* 900	2.3	10	6.5
TOH	0.041	0.037	0.045	0.200	0.038	0.047	0.026

Note: All mass values are reported as mg/l/

(1) pH units
(2) Specific Conductivity, Uhmos/cm

⊛Possible positive matrix interference, #6-2

SAMPLE DATE: 10/27/87

SAMPLED BY: CLIENT

HUNTER/RS&H

HUNTER/RS&H INC
P.O. Box 1388 (29602-1388)
105 Donaldson Center
Greenville, South Carolina 29605
803/277-7950 FAX 803-277-7995

November 16, 1988

Champion International Corporation
Canton Mill
P.O. Box C-10
Canton, NC 28716

Attention: Ms. Liz Gerrard

Subject: Landfill Monitoring Wells
Laboratory Services

Attached are the analytical results for monitoring wells received 10/12/88 & 10/19/88 and tested by Lee G. Kent and Nancy N. Kent per latest methods of the USEPA.

Sampling data in Client File.

Test Dates = pH, Sp. Cond., Nitrite - N; Phenol = Day received; all other nonmetals = within 2 days; metals = within 7 days of sampling date.

Thank you for this opportunity to serve you; should you have any questions please feel free to call.

Very truly yours,

HUNTER/RS&H

Lee G. Kent
Chemist

LGK:mas
CC: Accounts payable - Champion Int.
Mr. Paul Wiegand
Mr. Mike Cody
Laboratory(2), File

CHAMPION INTERNATIONAL CORPORATION 10/12/88 CANTON MILL

	5B1	5B2	5B3	SC-1UP 5C1	SC-2ED 5C2	10/18 SC-3WD 5C3	11/18 6-1	6-2	6-3A
pH	5.6	5.6	5.6	5.5	5.6	5.4	6.2	9.2	7.0
DS	36	240	160	112	148	136	* 4304	* 8300	108
(2)	32	274	169	103	100	75	199	9,380	96
Ag	<.01	<.01	<.01	<.01	<.01	<.01	0.015	<.01	<.01
As	<.005	<.005	<.005	<.005	<.005	<.005	<.01	* 0.22	<.005
Ba	<1	<1	<1	<1	<1	<<1	<1	<1	<1
Ca	1.0	12.0	2.9	2.0	1.9	1.2	7.2	0.82	2.3
Cd	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
Cr	<.02	<.02	<.02	<.02	<.02	<.02	* 0.055	<.02	<.02
Fe	* 3.6	* 10.5	* 22	* 0.52	* 0.34	<.28	* 39	* 3.0	* 2.2
Hg	<.001	<.001	<.001	<.001	<.001	<.001	<.001	* 0.0032	<.0005
Mn	* 0.34	* 0.33	* 4.0	<.01	<.01	* 0.10	* 0.13	0.03	<.01
Na	0.85	11.8	7.3	5.5	9.0	8.0	57	* 2600	7.0
Ni	<.03	<.03	<.03	<.03	<.03	<.03	<.03	0.13	<.03
Pb	<.03	<.03	<.03	<.03	<.03	<.03	* 0.13	0.04	<.03
Se	<.001	<.001	<.001	<.001	<.001	<.001	<.001	0.005	<.001
Cl-	1.0	36.5	11.0	9.0	6.5	11.0	9.5	47.5	7.5
F-	<.1	<.1	<.1	0.1	0.2	<.1	2.1	* 7	0.1
NO_2-N	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.01	<.005
Phenol	0.03	0.02	0.015	0.03	<.01	<.01	<.01	0.07	0.02
SO_4	<5	6	18	13	<5	<5	173	* 1100	11
TOC	0.75	1.2	1.0	<.5	1.1	<.5	1.7	* 72	<.5
TOH	0.028	0.035	0.032	0.019	0.028	0.053	0.40	0.580	0.016
				10/18/88	10/18/88	10/18/88			

*6-4, 6-5A, 6-6, 6-7A, 6-12, 6-13, BO-U, BO-D are all listed on the next page.

Note: All mass values are reported as mg/l.

(1) pH units

(2) Specific Conductivity, umhos/cm

CONTINUED FROM CHAMPION INTERNATIONAL CORPORATION 10/12/88 CANTON MI

	6-4	6-5A	6-6	6-7A	6-12	6-13	BO-U	BO-D
pH	5.8	5.5	5.1	5.2	5.5	5.4	5.8	6.0
DS	630	140	104	84	56	60	60	88
(2)	778	65	89	63	44	34	56	107
Ag	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
As	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Ba	<1	<1	<1	<1	<1	<1	<1	<1
Ca	5.3	0.20	0.61	0.57	0.59	0.20	1.2	2.3
Cd	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
Cr	<.02	<.02	<.02	<.02	<.02	<.02	<.02	<.02
Fe	* 145	* 39	* 4.7	* 5.7	0.09	* 3.2	* 1.6	* 1.1
Hg	* 0.0048	0.0018	<.005 ?	<.005 ?	<.0005	0.002	<.001	<.001
Mn	* 0.06	* 1.6	* 0.38	* 0.14	0.01	* 0.34	* 0.08	* 0.20
Na	15.8	4.7	7.3	4.3	3.3	2.1	4.1	9.8
Ni	<.03	0.04	0.03	<.03	<.03	<.03	<.03	<.03
Pb	<.03	<.03	<.03	<.03	<.03	<.03	<.03	<.03
Se	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
Cl-	132	8.0	7.0	5.0	6.5	2.0	5.5	8.0
F-	0.3	<.1	<.1	0.2	<.1	<.1	<.1	<.1
NO_2-N	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Phenol	<.01	0.017	<.01	<.01	<.01	<.01	<.01	<.01
SO_4	123	12	22	9.6	5.7	<5	<5	<5
TOC	0.55	<.5	<.5	<.5	<.5	0.75	<.5	<.5
TOH	0.065	0.027	0.015	0.018	0.014	0.024	0.014	0.020

Sample Date: 10/11/88 Sampled by: Client

**Exception to above sample date for columns 5B1, 5B2, 5B3, 5C1, 5C2, 5C3, and 6-1. These were sampled 10/18/88.

Lee G. Kent
Chemist

CC: Laboratory(2), File

HUNTER/RS&H

November 22, 1988

Champion International Corporation
Canton Mill
P.O. Box C-10
Canton, NC 28716

Attention: Ms. Liz Gerrard

Subject: Landfill Monitoring Wells
Sampling and Analytical Services

Attached are the analytical results for Coal Pile monitoring wells received 11/10/88 amd tested by Lee G.Kent and Nancy N. Kent per current methods of the USEPA.

Sampling data in Client file.

Test Dates = pH, Sp. Cond., Nitrate - N; Phenol = Day received; all other nonmetals = within two days; metals = within 7 days.

Thank you for this opportunity to serve you; Should you have any questins concerning these results, please feel free to call.

Very truly yours,

HUNTER/RS&H

Lee G. Kent
Chemist

LGK:mas
cc: [redacted]
Mr. Paul Wiegand
Mr. Mike Cody
Laboratory(2), File

HUNTER/RS&H

HUNTER RS&H
P.O. Box [illegible]
125 Foundation Center
Greenville, South Carolina [illegible]
803/277-[illegible] Fax [illegible]

CHAMPION INTERNATIONAL CORPORATION
CANTON MILL
CANTON, NC

	U	D
pH	5.7	7.9
Alk. T.	32.0	14.0
Carbonate	0	0
Bicarbonate	32.0	14.0
Hardness	1240	198
DS	* 2240*	* 544
Sp. Cond.	2170	653
As	<.005	<.005
Cd	<.01	<.01
Chloride	6.0	9.0
Ammonia-N	1.0	0.15
TKN	<.5	<.5
$NO_{2,3}$-N	<.1	<.1
P	0.05	<.05
Phenol	<.01	<.01
Sulfate	* 1290	* 360

* Incorrectly reported as 200 on the 7/19/88 report, it should have read 2000.

Lee G. Kent

LGK:mas
CC: Accounts Payable
Mr. Paul Wiegand
Mr. Mike Cody
Laboratory(2), File

EPA/N.C. D.E.M. PRIMARY DRINKING WATER STANDARDS

	Parameter	Allowable Level	Units
BIG EIGHT HEAVY METALS	[Arsenic	0.05	mg/1
	[Barium	1.0	mg/1
	[Cadmium	0.01	mg/1
	[Chromium	0.05	mg/1
	[Lead	0.05	mg/1
	[Mercury	0.002	mg/1
	[Selenium	0.01	mg/1
	[Silver	0.05	mg/1
ESTICIDES	[Endrin	0.0002	mg/1
	[Lindane	0.004	mg/1
	[Methoxychlor	0.10	mg/1
	[Toxaphene	0.005	mg/1
	[2, 4-D	0.10	mg/1
	[2,4,5-Tp Silvex	0.01	mg/1
	Total Trihalomethanes	0.10	mg/1
	Combined Radium (226&228)	5.0	PCi/1
	Gross Alpha Particle Activity	15.0	PCi/1
	Gross Beta Particle Activity	50.0	PCi/1
	Gross Beta Conversion	4.0	MRem/year
	Fluoride	1.4-2.4	mg/1
	Nitrate (as N)	10.0	mg/1
	Nitrite (as N)	1.0	mg/1
	Coliform Bacteria	1/100ML	mg/1
	Phenols	1.0	mg/1
	Sodium		mg/1
	Cyanide	0.20	mg/1
	Nickel	0.75	mg/1
	* Chloride	250.0	mg/1
	* Iron	0.30	mg/1
	* Manganese	0.05	mg/1
	* Sulphate	250.0	mg/1
	* Copper	1.0	mg/1
	* Zinc	5.0	mg/1

* Secondary MCL(Maximum Contaminant Level i.e. Less Important)

Indicators

Thermal: Not greater than 30°F variance from the naturally occurring level.

Color: Less than 15 units
Ph: Not less than 6.5 units
Conductivity: _____
TDS (Total Disolved Solids) 500 mg/1
TOC (Total Organic Content) 10 mg/1 *
TOX (Total Organic Halogens) 100 mg/1
BOD (Biological Oxygen Demand) 20 mg/1
COD (Chemical Oxygen Demand) _____ mg/1

* GENERALLY ACCEPTED

MTB.44d

SIRRINE

February 9, 1990

Champion International Corporation
P.O. Box C10
Canton, North Carolina 29716

Attention: Ms. Liz Dickson

Re: Quarterly Ground Water and Surface Water Sampling and Analysis
SEC Job No. G-9359.10

Dear Ms. Dickson:

Please find transmitted with this letter the ground water and surface water monitoring results and the original sample Chain of Custody Records from the No. 5 and No. 6 landfill sites located near Canton, North Carolina. SEC will maintain in our files the field log documentation of this sampling event. This Quarterly sampling by Sirrine Environmental Consultants took place from November 28 to November 30, 1989.

During the November 1989 sampling, 13 wells at the No. 6 Landfill site, 6 wells at the No. 5 Landfill site, and 6 surface water samples from various locations were collected. All samples were collected by SEC field personnel according to the procedures described in the "Quality Control Plan for Sampling and Analysis of Ground Water and Surface Water" prepared for this work by Sirrine (10/89). All samples were collected under chain-of-custody protocol, and analyzed by Sirrine's certified Greenville, South Carolina laboratory.

The field sampling occurred without unexpected difficulty never-the-less the following should be noted for your records:

- MW-8 (No. 6 Landfill) did not have a lock. This lack of well security may represent a breach of sample integrity and should be corrected as soon as possible.

- MW-10 (No. 6 Landfill) did not have an end cap. This may also impact sample integrity and should be corrected.

- Monitoring wells SC-2, SC-3 (No. 5 Landfill), and MW-1 (No. 6 Landfill) appeared to field personnel to have their bottoms clogged by sediment or bentonite. The presence of such sediment in the bottom of monitoring well casings may result in some contaminants being preferentially retained by the sediment. If possible this sediment should be removed by redeveloping the affected wells.

- During purging several wells were bailed dry as a result of low recharge prior to sample collection. These wells included SC-2, SC-3 (No. 5 Landfill), MW-2, MW-3A, MW-5A, MW-6, MW-7A, MW-8, MW-9, MW-11, and MW-12 (No 6 Landfill). In future sampling events MW-2 should be purged prior to other site well locations as field personnel noted this well took a longer than expected time to recharge.

If you have any questions or if you would like to discuss the related upcoming sampling SEC will be performing for Champion, please contact me at 803-234-2292 or Jim Chamness at 803-234-3042.

Sincerely,

Charles D.V. Rowan

Charles D.V. Rowan, Ph.D.
Geologist

Jim Chamness

James S. Chamness, P.G.
Project Manager

cc: Mr. Paul Wiegand
Project File

CDVR/rmb

SIERRINE
ENVIRONMENTAL
CONSULTANTS

Memo

To: Jim Chamness

From: Steve Hoeffner SZH

Re: Champion International
SEC Job No. G9359.10

Date: January 12, 1990

Attached are our analyses for the samples received December 1, 1989.

MARINE ENVIRONMENTAL CONSULTANTS
P.O. BOX 24000
GREENVILLE, SC 29616
(803)234-8000

Client: Champion International

Project: SEC Job No. G-9359.10

Samples Taken: 11/28/89 - 11/30/89
Samples Received: 12/01/89

LAB ID #	SAMPLE DESCRIPTION		
48033	* 5SC1	11/28/89	12:15pm
48034	5SB3	11/28/89	3:10pm
48035	5SB2	11/28/89	3:40pm
48036	5SC2	11/28/89	4:30pm
48037	5SC3	11/28/89	5:35pm
48038	Beaver Dam Creek DownStream	11/28/89	6:00pm
48039	5SB1	11/29/89	11:15am
48040	Beaver Dam Creek Upstream	11/29/89	11:30am
48041	MW-3A	11/29/89	1:00pm
48042	MW-13	11/29/89	2:10pm
48043	MW-12	11/29/89	3:25pm
48044	MW-6	11/29/89	4:10pm
48045	MW-7A	11/29/89	4:35pm
48046	MW-5A	11/29/89	5:20pm
48047	MW-8	11/30/89	9:10am
48048	MW-9	11/30/89	10:55am
48049	MW-10	11/30/89	12:20pm
48050	MW-11	11/30/89	12:55pm
48051	MW-1	11/30/89	2:25pm
48052	MW-4	11/30/89	4:25pm
48053	MW-2	11/30/89	4:40pm
48054	Bowen Branch Downstream	11/30/89	4:45pm
48055	Bowen Branch Upstream	11/30/89	4:55pm
48056	Fiberville Bridge	11/30/89	5:00pm
48057	Clyde Bridge	11/30/89	5:15pm

* Corrected well names.

Liz Wilson
9/11/90

GERBINE ENVIRONMENTAL CONSULTANTS
P.O. BOX 24000
GREENVILLE, SC 29616
(803)234-5000

PARAMETER	48033	48034	48035	48036
TOC	9.0	16.0	144.0	12.0
TOX, ug/L	<10	<10	21	<10
Chloride	8.3	8.8	34.2	6.8
Fluoride	0.04	0.07	0.04	0.18
Sulfate	10	7	16	36
Phenols, ug/L	<5	<5	<5	<5
Dissolved Solids	65	100	186	2360
Nitrite-N	<0.1	<0.1	<0.1	<0.1
Silver	<0.01	<0.01	<0.01	<0.01
Arsenic	<0.01	<0.01	<0.01	<0.01
Barium	<0.20	0.45	<0.20	0.29
Calcium	5.26	9.90	18.4	45.6
Cadmium	<0.002	<0.002	<0.002	0.007
Chromium	<0.02	<0.02	<0.02	<0.02
Iron	0.121	16.2	14.6	23.4
Manganese	0.006	3.82	0.608	2.08
Sodium	7.80	8.85	15.9	64.4
Nickel	<0.02	<0.02	<0.02	20.02
Lead, ug/L	17.9	<5.0	<5.0	57.5
Selenium	<0.01	<0.01	<0.01	<0.01
Mercury, ug/L	<0.2	<0.2	<0.2	<0.2

PARAMETER	48037	48038	48039	48040
TOC	1.0	4.0	3.0	2.0
TOX, ug/L	<10	<10	<10	<10
Chloride	13.7	2.9	<1.0	2.4
Fluoride	0.20	0.05	0.03	0.05
Sulfate	65	7.5	1	7
Phenols, ug/L	<5	<5	<5	<5
Dissolved Solids	4036	35	14	32
Nitrite-N	<0.1	<0.1	<0.1	<0.1
Silver	<0.01	<0.01	<0.01	<0.01
Arsenic	0.01	<0.01	<0.01	<0.01
Barium	0.93	<0.20	<0.20	<0.20
Calcium	68.8	4.00	2.30	4.40
Cadmium	0.005	<0.002	<0.002	<0.002
Chromium	<0.02	<0.02	<0.02	<0.02
Iron	12.1	0.467	7.72	0.330
Manganese	7.58	0.081	0.164	0.044
Sodium	92.0	6.35	2.12	6.58
Nickel	0.056	<0.02	<0.02	<0.02
Lead, ug/L	59.5	8.63	5.80	<5.0
Selenium	<0.01	<0.01	<0.01	<0.01
Mercury, ug/L	<0.2	<0.2	1.76	<0.2

* All results in mg/L unless noted otherwise.

CLEARLINE ENVIRONMENTAL CONSULTANTS
P.O. BOX 24000
GREENVILLE, SC 29616
(803)234-3000

PARAMETER	48041	48042	48043	48044
TOC	9.0	14.0	7.0	19.0
TOX, ug/L	<10	111	<10	<10
Chloride	<1.0	88.8	2.0	9.8
Fluoride	0.16	0.03	0.08	0.06
Sulfate	19	235	18.5	28.5
Phenols, ug/L	<5	<5	<5	<5
Dissolved Solids	76	500	61	130
Nitrite-N	<0.1	<0.1	<0.1	<0.1
Silver	<0.01	<0.01	<0.01	<0.01
Arsenic	<0.01	<0.01	<0.01	<0.01
Barium	<0.20	0.27	<0.20	<0.20
Calcium	6.90	51.4	6.70	7.05
Cadmium	<0.002	0.002	<0.002	<0.002
Chromium	<0.02	<0.02	<0.02	<0.02
Iron	10.3	16.1	1.43	2.64
Manganese	0.028	8.65	0.585	0.864
Sodium	8.82	38.9	7.20	15.1
Nickel	<0.02	0.043	<0.02	<0.02
Lead, ug/L	7.59	11.4	17.3	50.8
Selenium	<0.01	<0.01	<0.01	<0.01
Mercury, ug/L	<0.2	2.40	<0.2	<0.2

PARAMETER	48045	48046	48047	48048
TOC	9.0	22	4.0	6.0
TOX, ug/L	<10	<10	13.7	13.7
Chloride	2.0	8.8	1.5	<1.0
Fluoride	0.06	0.05	0.13	0.03
Sulfate	16.5	7	65	18
Phenols, ug/L	<5	<5	<5	<5
Dissolved Solids	71	62	106	51
Nitrite-N	<0.1	<0.1	<0.1	<0.1
Silver	<0.01	<0.01	<0.01	<0.01
Arsenic	<0.01	<0.01	<0.01	<0.01
Barium	<0.20	0.21	<0.20	0.26
Calcium	6.60	4.30	9.90	6.00
Cadmium	<0.002	<0.002	0.003	<0.002
Chromium	<0.02	<0.02	<0.02	<0.02
Iron	2.07	17.8	20.9	22.8
Manganese	0.208	0.741	0.231	1.07
Sodium	7.95	11.5	11.3	8.58
Nickel	<0.02	<0.02	<0.02	<0.02
Lead, ug/L	13.9	25.7	30.7	28.4
Selenium	<0.01	<0.01	<0.01	<0.01
Mercury, ug/L	<0.2	<0.2	<0.2	<0.2

* All results in mg/L unless noted otherwise.

SIERRINE ENVIRONMENTAL CONSULTANTS
P.O. BOX 24000
GREENVILLE, SC 29616
(803)234-3000

PARAMETER	48049	48050	48051	48052
TOC	7	7	2	28
TOX, ug/L	<10	<10	<10	24.2
Chloride	1.5	10.3	1.0	250
Fluoride	0.04	0.02	0.26	0.02
Sulfate	16.5	3.5	512	900
Phenols, ug/L	<5	<5	<5	<5
Dissolved Solids	52	61	762	1840
Nitrite-N	<0.1	<0.1	<0.1	<0.1
Silver	<0.01	<0.01	<0.01	<0.01
Arsenic	<0.01	<0.01	<0.01	<0.01
Barium	<0.20	<0.20	<0.20	<0.20
Calcium	2.60	3.60	68.2	91.2
Cadmium	<0.002	<0.002	0.005	0.004
Chromium	<0.02	<0.02	<0.02	<0.02
Iron	0.983	0.221	34.8	335
Manganese	0.271	0.037	0.870	2.92
Sodium	4.62	7.95	61.2	94.0
Nickel	<0.02	<0.02	0.472	0.027
Lead, ug/L	15.4	11.8	36.8	11.7
Selenium	<0.01	<0.01	<0.01	<0.01
Mercury, ug/L	<0.2	<0.2	0.21	<0.2

	PARAMETER	48053	D 48054	U 48055	48056
	TOC	<1.0	3	7	16
low	TOX, ug/L	496	<10	<10	2610
Cl^-	Chloride	342	7.3	1.8	89.1
Fl	Fluoride	2.84	0.03	0.04	0.04
SO_4	Sulfate	2100	7	6.5	19
	Phenols, ug/L	5.4	16	<5	5.5
TSD	Dissolved Solids	8590	54	41	276
NO_2	Nitrite-N	<0.1	<0.1	<0.1	<0.1
Ag	Silver	0.01	<0.01	<0.01	<0.01
As	Arsenic	0.03	<0.01	<0.01	<0.01
Ba	Barium	<0.20	<0.20	<0.20	<0.20
Ca	Calcium	17.70	4.05	3.60	27.20
Cd	Cadmium	0.013	<0.002	0.004	<0.002
Cr	Chromium	<0.02	<0.02	<0.02	<0.02
Fe	Iron	2.12	0.686	0.435	0.398
Mn	Manganese	0.105	0.096	0.046	0.172
Na	Sodium	3280	7.82	6.28	54.6
Ni	Nickel	0.261	<0.02	<0.02	<0.02
Pb	Lead, ug/L	5.39	<5.0	11.1	8.01
Se	Selenium	<0.01	<0.01	<0.01	<0.01
Hg	Mercury, ug/L	<0.2	<0.2	<0.2	<0.2

* All results in mg/L unless noted otherwise.

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PARAMETER	48057
TOC	20
TOX, ug/L	3760
Chloride	115
Fluoride	0.04
Sulfate	25
Phenols, ug/L	8
Dissolved Solids	360
Nitrite-N	<0.1
Silver	<0.01
Arsénic	<0.01
Barium	<0.20
Calcium	32.8
Cadmium	<0.002
Chromium	<0.02
Iron	0.232
Manganese	0.158
Sodium	71.0
Nickel	<0.02
Lead, ug/L	<5.0
Selenium	<0.01
Mercury, ug/L	<0.2

* ALL Results in mg/L unless noted otherwise.

REVIEWED BY: Steve L. Hoeffner
STEVE L. HOEFFNER
LABORATORY MANAGER

SC LAB ID # 23102

SIRRINE ENVIRONMENTAL CONSULTANTS

Post Office Box 5229
Greenville, South Carolina 29606

Chain Of Custody Record

Page 1 Of 3

CLIENT NAME: CHAMPION INT.

COLLECTED BY: DETWILER

F-Filtered P-Preserved

SAMPLE ID	DATE	TIME	COMP	GRAB	WELL	SAMPLE LOCATION	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	DISSOLVED SOLIDS (F P)	NITRITE (F P)	(F P)	REMARKS
48033	11/28/89	1215			X	SC1	4		X	X	X			X			X				X	X		METALS: Ag,
48034	11/28/89	1510			X	SB3	4		X	X	X			X			X				X	X		As, Ba, Ca, Cd, Cr,
48035	11/28/89	1540			X	SB2	4		X	X	X			X			X				X	X		Fe, Hg, Mn, Na, Ni,
48036	11/28/89	1630			X	SC2	4		X	X	X			X			X				X	X		Pb, Se
48037	11/28/89	1735			X	SC3	4		X	X	X			X			X				X	X		
48038	11/28/89	1800			X	BEAVERDAM CREEK DOWNSTREAM	4		X	X	X			X			X				X	X		
48039	11/29/89	1115			X	SB1	4		X	X	X			X			X				X	X		
48040	11/29/89	1130			X	BEAVERDAM CREEK UPSTREAM	4		X	X	X			X			X				X	X		
48041	11/29/89	1300			X	MW-3A	4		X	X	X			X			X				X	X		
48042	11/29/89	1410			X	MW-13	4		X	X	X			X			X				X	X		
48043	11/29/89	1525			X	MW-12	4		X	X	X			X			X				X	X		
48044	11/29/89	1610			X	MW-6	4		X	X	X			X			X				X	X		

Relinquished By:	Date	Time	Received By:	Relinquished By:	Date	Time	Received By:
[signature]	12/1/89	0745					

Relinquished By:	Date	Time	Received By Lab By:	Date	Time	Remarks
			Bob [signature]	12/1/89	0745	

SIRRINE ENVIRONMENTAL CONSULTANTS
Post Office Box 5229
Greenville, South Carolina 29606

Chain Of Custody Record

CLIENT NAME: CHAMPION INT.

COLLECTED BY: DETWILER

F-Filtered P-Preserved

SAMPLE ID	DATE	TIME	COMP	GRAB	WELL	SAMPLE LOCATION	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	DISSOLVED SOLIDS (F P)	NITRATE (F P)	(F P)	REMARKS
48045	11/29/89	1635			X	MW-7A	4		X	X	X			X			X				X	X		
48046	11/29/89	1720			X	MW-5A	4		X	X	X			X			X				X	X		
48047	11/30/89	0910			X	MW-8	4		X	X	X			X			X				X	X		
48048	11/30/89	1055			X	MW-9	4		X	X	X			X			X				X	X		
48049	11/30/89	1220			X	MW-10	4		X	X	X			X			X				X	X		
48050	11/30/89	1255			X	MW-11	4		X	X	X			X			X				X	X		
48051	11/30/89	1425			X	MW-1	4		X	X	X			X			X				X	X		
48052	11/30/89	1625			X	MW-4	4		X	X	X			X			X				X	X		
48053	11/30/89	1640			X	MW-2	3		X	X	X			X							X	X		
48054	11/30/89	1645			X	BOWEN BRANCH DOWNSTREAM	4		X	X	X			X			X				X	X		
48055	11/30/89	1655			X	BOWEN BRANCH UPSTREAM	4		X	X	X			X			X				X	X		
48056	11/30/89	1700			X	FIBERVILLE BRIDGE	4		X	X	X			X			X				X	X		

Relinquished By:	Date	Time	Received By:	Relinquished By:	Date	Time	Received By:
[signature]	12/1/89	0745					

Relinquished By:	Date	Time	Received By Lab By:	Date	Time	Remarks
			[signature]	12/1/89	0745	

SIRRINE ENVIRONMENTAL CONSULTANTS

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Chain Of Custody Record

CLIENT NAME: CHAMPION ENT.

COLLECTED BY: DETWILER

SAMPLE ANALYSIS (x) — F-Filtered P-Preserved

SAMPLE ID	DATE	TIME	COMP	GRAB	WELL	SAMPLE LOCATION	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	DISSOLVED SOLIDS (F P)	NITRATE (F P)	(F P)	REMARKS
48057	11/30/89	1715			X	CLYDE BEIGE	4		X	X	X			X			X				X	X		METALS: Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mn, Na, Ni, Pb, Se

Relinquished By:	Date	Time	Received By:	Relinquished By:	Date	Time	Received By:
[signature]	12/1/89	0745					

Relinquished By:	Date	Time	Received By Lab By:	Date	Time	Remarks
			Bob [signature]	12/1/89	0745	

SIRRINE
ENVIRONMENTAL
CONSULTANTS

Post Office Box 24000
Greenville, South Carolina 29616
803/ 234-4000

July 26, 1990

Champion International Corporation
P.O. Box C10
Canton, North Carolina 29716

Attention: Ms. Liz Dickson

Re: Quarterly Ground Water and Surface Water Sampling and Analysis
SEC Job No. G-9359.10

Dear Ms. Dickson:

Please find transmitted with this letter the following Quarterly report information for the No. 5 and No. 6 landfill sites located near Canton, North Carolina:

- ground water and surface water monitoring results;
- the recorded ground water sampling indicator parameters; and
- the original sample Chain-of-Custody Records

Sirrine will maintain in our files the field log documentation of this sampling event. This Quarterly sampling by Sirrine Environmental Consultants took place from May 22 to May 24, 1990.

During the May 1990 sampling 13 wells at the No. 6 Landfill site, 6 wells at the No. 5 Landfill Site, and 6 surface water samples from various locations were collected. All samples were collected by SEC field personnel according to the procedures described in the "Quality Control Plan for Sampling and Analysis of Ground Water and Surface Water" prepared for this work by Sirrine (10/89). All samples were collected under chain-of-custody protocol, and analyzed by Sirrine's certified Greenville, South Carolina laboratory.

The field sampling occurred without unexpected difficulty, never-the-less the following should be noted for your records.

- The use of dedicated bailers is advised to reduce risk of cross contamination and decrease the number of man hours required to collect samples.

If you have any questions or if you would like to discuss the related upcoming sampling SEC will be performing for Champion, please contact me at (803) 234-2292 or Jim Chamness at (803) 234-3042.

Sincerely,

Charles D.V. Rowan, Ph.D.
Geologist

James S. Chamness, P.G.
Project Manager

cc: Mr. Paul Wiegand
Project File

jpb/L9359LD.DD

ENWRIGHT
ENVIRONMENTAL

CERTIFICATE OF ANALYSIS
AMENDED REPORT

CLIENT: Sirrine Environmental

PROJECT: Champion International

LAB CERTIFICATION NO: 23127

DATE SAMPLED: 05/22-24/90

DATE RECEIVED: 05/25/90

DATE REPORTED: 07/05/90

DATE AMENDED: 07/20/90

LAB NO.:	90-F340-01	90-F340-02	90-F340-03	90-F340-04	90-F340-05
SAMPLE ID:	5C1	5B3	Beaver Dam Creek DnStream	5B2	5C2
Parameters:					
pH (units)	6.3	6.7	7.3	6.6	8.8
Specific Conductivity (umhos/cm)	98	140	60	330	240
Total Organic Carbon	<1	20	<1	34	360
Total Organic Halogens (ug/l)	14	49	<10	70	<10
Chloride	5	7	2	35	5
Fluoride	0.06	0.1	0.07	0.06	0.1
Sulfate	17	18	5	13	208
Total Phenolics	<0.005	<0.005	<0.005	<0.005	0.016
Nitrite Nitrogen	0.04	0.05	0.02	0.05	<0.01
Total Dissolved Solids	80	100	54	210	2,400
Silver	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	<0.005	<0.100	<0.005	<0.075	<0.150
Barium	1.00	0.348	0.048	0.164	5.92
Calcium	15.0	9.52	4.49	27.5	108
Cadmium	<0.005	<0.005	<0.005	<0.005	0.011
Chromium	0.142	<0.008	<0.008	<0.008	0.057
Iron	148	17.3	1.97	47.9	111
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	0.0004
Magnesium	40.2	2.76	1.92	10.3	49.6
Sodium	6.71	6.74	3.10	13.8	107
Nickel	0.116	<0.050	<0.050	<0.050	0.100
Lead	0.120	<0.030	<0.030	<0.030	0.549
Selenium	<0.020	<0.010	<0.010	<0.150	<0.300

Sirrine Environmental
Champion International
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LAB NO.:	90-F340-06	90-F340-07	90-F340-08	90-F340-09	90-F340-10
SAMPLE ID:	5C3	Beaver Dam Creek UpStream	5B1	Bowen Branch Downstream	Bowen Branch Upstream
Parameters:					
pH (units)	6.3	7.3	6.8	7.2	7.2
Specific Conductivity (umhos/cm)	110	57	34	66	47
Total Organic Carbon	10	<1	<1	3	2
Total Organic Halogens (ug/l)	<10	<10	<10	<10	<10
Chloride	13	1	<1	2	1
Fluoride	0.09	0.07	0.05	0.07	0.06
Sulfate	28	<5	22	6	<5
Total Phenolics	<0.005	<0.005	<0.005	0.009	<0.005
Nitrite Nitrogen	<0.01	<0.01	0.04	<0.01	<0.01
Total Dissolved Solids	320	56	42	78	54
Silver	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.010
Barium	0.284	0.036	0.090	0.027	0.019
Calcium	11.0	4.41	2.26	3.75	2.79
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	<0.008	<0.008	<0.008	<0.008	<0.008
Iron	4.57	1.15	26.9	1.26	0.352
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Magnesium	5.55	1.74	1.93	1.71	1.19
Sodium	11.6	3.16	1.16	5.36	2.76
Nickel	<0.050	<0.050	<0.050	<0.050	<0.050
Lead	<0.030	<0.030	<0.030	<0.030	<0.030
Selenium	<0.050	<0.010	<0.020	<0.010	<0.020

Magnesium was sampled instead of Manganese - their mistake.

Per Dave Hargett
Sirrine Environmental
8/20/90

Sirrine Environmental
Champion International
Laboratory Report, Page 3

LAB NO.:	90-F340-11	90-F340-12	90-F340-13	90-F340-14	90-F340-15
SAMPLE ID:	MW-8	MW-9	MW-10	MW-11	MW-3A
Parameters:					
pH (units)	6.7	6.5	6.4	6.0	7.5
Specific Conductivity (umhos/cm)	77	46	33	89	95
Total Organic Carbon	1	2	<1	4	2
Total Organic Halogens (ug/l)	300	204	<10	21	24
Chloride	1	<1	<1	9	<1
Fluoride	0.12	0.07	0.07	0.05	0.16
Sulfate	10	19	30	21	32
Total Phenolics	<0.005	<0.0005	<0.005	<0.005	<0.005
Nitrite Nitrogen	0.14	0.06	0.02	0.08	0.02
Total Dissolved Solids	170	170	68	94	110
Silver	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005
Barium	0.136	0.033	0.037	0.242	0.014
Calcium	4.88	4.13	1.86	3.27	9.94
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	0.019	0.015	<0.008	0.032	<0.008
Iron	30.1	9.51	6.37	58.7	21.8
Mercury	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
Magnesium	7.86	1.97	2.13	9.65	1.99
Sodium	6.23	2.02	1.62	4.36	5.94
Nickel	<0.050	<0.050	<0.050	<0.050	<0.050
Lead	<0.030	<0.030	<0.030	<0.030	<0.030
Selenium	<0.020	<0.020	<0.005	<0.005	<0.005

Sirrine Environmental
Champion International
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LAB NO.:	90-F340-16	90-F340-17	90-F340-18	90-F340-19	90-F340-20
SAMPLE ID:	MW-13	MW-12	Clyde Bridge	Fiberville Bridge	MW-5A
Parameters:					
pH (units)	6.1	6.5	7.7	7.7	6.5
Specific Conductivity (umhos/cm)	1,200	64	320	270	83
Total Organic Carbon	23	5	25	16	8
Total Organic Halogens (ug/l)	115	56	647	613	35
Chloride	100	2	33	30	5
Fluoride	0.07	0.11	0.07	0.06	0.07
Sulfate	349	34	49	255	49
Total Phenolics	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrite Nitrogen	0.07	<0.01	0.06	0.01	0.05
Total Dissolved Solids	880	300	260	200	110
Silver	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.010
Barium	1.10	0.246	0.027	0.020	0.151
Calcium	81.5	4.86	8.22	6.36	4.10
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	0.113	0.065	<0.008	<0.008	0.034
Iron	167	86.4	1.14	0.254	39.5
Mercury	0.0009	<0.0002	<0.0002	<0.0002	<0.0002
Magnesium	82.7	8.75	1.00	0.730	9.06
Sodium	78.9	3.55	56.1	44.8	7.38
Nickel	0.116	0.068	<0.050	<0.050	<0.050
Lead	0.043	0.032	<0.030	<0.030	<0.030
Selenium	<0.005	<0.005	<0.005	<0.005	<0.005

LAB NO.:	90-F340-21	90-F340-22	90-F340-23	90-F340-24	90-F340-25
SAMPLE ID:	MW-6	MW-7A	MW-1	MW-5 *	MW-2
Parameters:					
pH (units)	6.2	6.5	5.8	5.0	8.5
Specific Conductivity (umhos/cm)	150	170	390	770	8,200
Total Organic Carbon	7	10	3	14	170
Total Organic Halogens (ug/l)	118	11	70	230	217
Chloride	8	6	1	76	2
Fluoride	0.09	0.08	0.14	0.08	0.95
Sulfate	30	74	150	193	1,740
Total Phenolics	<0.005	0.007	0.007	<0.005	0.036
Nitrite Nitrogen	0.17	0.01	0.08	0.16	<0.01
Total Dissolved Solids	200	160	290	750	8,000
Silver	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.025
Barium	0.078	0.173	0.043	0.157	0.074
Calcium	7.11	13.3	23.9	18.6	43.9
Cadmium	<0.005	<0.005	0.007	0.012	0.006
Chromium	0.027	0.037	<0.008	0.075	0.025
Iron	29.7	79.7	14.6	92.7	23.5
Mercury	0.0003	<0.0002	<0.0002	0.0002	<0.0002
Magnesium	6.42	25.2	10.1	14.2	8.57
Sodium	9.20	4.70	28.8	15.8	2,310
Nickel	<0.050	0.060	0.076	<0.050	0.127
Lead	0.037	<0.030	<0.030	0.048	0.140
Selenium	<0.005	<0.005	<0.005	<0.005	<0.005

* Bottles labeled "MW-4".

The above results are reported in milligrams per liter unless otherwise noted.

Analytical methods are those approved by the U.S. Environmental Protection Agency.

Respectfully submitted,

ENWRIGHT ENVIRONMENTAL
CONSULTING LABORATORIES, INC.

Steve L. Hoeffner
for Charles H. Reece, Ph.D.
Technical Manager

kgb

MAY 1990 GROUNDWATER INDICATOR PARAMETERS

Well Location	Date	Depth to Groundwater from Top of Casing (feet)	pH	Specific Conductivity	Temperature °C
5C1	90/5/22	13.4	5.85	108	10.5
5B3	90/5/22	5.38	6.69	185	12
5B2	90/5/22	4.0	6.26	410	12
5C2	90/5/22	4.46	7.7	191	12
5C3	90/5/22	1.4	6.22	138	12
5B1	90/5/23	8.12	6.65	35	15
MW-3A	90/5/23	17.5	7.14	106	12
MW-13	90/5/23	18.1	5.7	1271	12
MW-12	90/5/23	10.82	6.2	215	12
MW-6	90/5/24	17.1	5.93	145	16
MW-7A	90/5/24	9.57	6.08	138	15
MW-5A	90/5/24	34.85	6.06	95	16
MW-8	90/5/23	11.8	6.54	85	14
MW-9	90/5/23	31.98	6.12	44	14
MW-10	90/5/23	32.8	5.92	27	12
MW-11	90/5/23	9.0	5.27	90	12
MW-1	90/5/24	97.8	6.29	705	13
MW-4	90/5/24	57.74	6.05	1710	14
MW-2	90/5/23	4.1	8.46	6490	12

SIRRINE
ENVIRONMENTAL
CONSULTANTS

Post Office Box 24000
Greenville, South Carolina 29616
(803) 234-7100

January 11, 1991

Champion International Corporation
P.O. Box C10
Canton, North Carolina 29716

Attention: Ms. Liz Dickson

Re: Semiannual Ground Water and Surface Water Sampling and Analysis
Champion International - Canton Mill
Landfill No. 6
SEC Job No. G-9359

Dear Ms. Dickson:

Please find transmitted with this letter the following Semiannual report information for the No. 6 landfill site located near Canton, North Carolina:

- the results of chemical analyses performed on 13 ground water samples and 2 surface water samples;
- a summary of water level and indicator parameter measurements made while sampling; and
- the original sample Chain-of-Custody Records.

Sirrine will maintain in our files the field log documentation of this sampling event. This Semiannual sampling by Sirrine Environmental Consultants took place from November 6 to November 7, 1990.

During the November 1990 sampling 13 wells at the No. 6 Landfill site, and 2 surface water samples from Bowen Creek were collected. All samples were collected by SEC field personnel according to the procedures described in the "Quality Control Plan for Sampling and Analysis of Ground Water and Surface Water" prepared for this work by Sirrine (10.89). All samples were collected under chain-of-custody protocol, and analyzed by Environmental Science and Engineering, Inc analytical laboratory in Greenville, SC.

During the November 1990 sampling event the dedicated bailer in MW-8 was found to be detached from the rope prior to sampling and could not be fished out. It inhibited the bailing activities during this sampling and will need to be removed prior to the next sampling event.

If you have any questions or if you would like to discuss the related upcoming sampling SEC will be performing for Champion, please contact me at (803) 234-2294 or Jim Chamness at (803) 234-3042.

Sincerely,

Joseph A. Harrigan, P.G.
Geologist/Project Manager

James S. Chamness, P.G.
Manager, Hydrogeology/
Geotechnical Field Services

cc: Project File

ESE
A CILCORP Company
Industrial Process Group
Environmental Science & Engineering, Inc.

December 7, 1990

Sirrine Environmental Consultants
P.O. Box 24000
Greenville, SC 29616

Attention: Dee Detwiler

Subject: Landfill Monitoring Wells: Champion, Field 6, Canton, NC
Sampling and Analytical Services

Attached are the analytical results for monitoring wells received 11/8/90 and tested by Lee G. Kent and Nancy N. Kent per latest methods of the USEPA. All mass values = mg/L.

Sampling data in Client file.

Test Dates = pH, Sp. Cond., Nitrite-N; Phenol=Day received; all other nonmetals=within two days; metals-within 7 days of sampling date.

Thank you for this opportunity to serve you; should you have any questions, please feel free to call.

Very truly yours,

ESE, Inc.

Lee G. Kent
Chemist (SC23124)

LGK/beo

cc: Lab (2), File

PO Box 1388 Greenville, SC 29602-1388 (105 Donaldson Center 29605) Phone (803) 277-7950 Fax (803) 277-7995
Formerly known as Hunter/RS&H

Sirrine Environmental Consultants
December 7, 1990
Page 2

6-	1	2	3A	4	5A	6	7A	8
pH(1)	5.4	7.9	6.8	4.7	5.4	5.3	5.5	5.7
DS	332	7384	204	1184	84	120	156	84
(2)	403	9160	111	1440	90	146	219	79
Ag	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
As	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
Ba	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Ca	23	18.2	5.5	59	2.1	3.4	13.2	2.5
Cd	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Cr	<.02	<.02	<.02	<.02	<.02	<.02	<.02	<.02
Fe	15.6	0.76	5.9	234	7.1	0.32	0.58	7.6
Hg	<.0002	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005
Mn	0.25	0.23	0.03	3.2	0.46	0.27	0.21	0.14
Na	33	2100	6.2	76	7.1	7.3	5.0	5.0
Ni	0.07	0.12	0.04	<.03	<.03	<.03	<.03	<.03
Pb	<.03	<.03	<.03	<.03	<.03	<.03	<.03	<.03
Se	<.006	<.006	<.006	<.006	<.006	<.006	<.006	<.006
Chloride	2.5	14.5	6.0	157.0	12.5	9.0	6.0	4.0
Fluoride	<.1	1.4	<.1	0.8	<.1	0.8	<.1	<.1
Nitrite-N	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Phenol	<.01	<.01	<.01	0.03	0.02	<.01	<.01	<.01
Sulfate	184	2080	16	520	16	36	140	21
TOC	21.4	279	9.3	1.9	62	30.3	39.8	23
TOH	0.030	0.16	0.040	0.038	0.023	0.022	0.015	0.022

Sirrine Environmental Consultants
December 7, 1990
Page 3

6-	9	10	11	12	13	Bowen U	D
pH(1)	4.9	5.4	4.9	5.8	5.3	6.3	6.5
DS	144	84	84	116	1872	104	112
(2)	45	35	97	69	2450	61	104
Ag	<.01	<.01	<.01	<.01	<.01	<.01	<.01
As	<.01	<.01	<.01	<.01	<.01	<.01	<.01
Ba	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Ca	1.8	1.1	1.1	2.7	178	1.8	2.0
Cd	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Cr	<.02	<.02	<.02	<.02	<.02	<.02	<.02
Fe	7.2	0.04	0.07	0.12	0.57	0.07	0.33
Hg	<.0005	<.0005	<.0005	<.0005	0.0009	<.0005	<.0005
Mn	0.66	0.04	0.05	0.19	10.6	0.02	0.06
Na	2.4	1.0	3.3	3.3	204	2.4	2.2
Ni	<.03	<.03	<.03	<.03	<.03	<.03	<.03
Pb	<.03	<.03	<.03	<.03	<.03	<.03	<.03
Se	<.006	<.006	<.006	<.006	<.006	<.006	<.006
Chloride	4.0	3.0	15.0	5.0	185.0	5.5	6.0
Fluoride	<.1	<.1	<.1	<.1	0.7	<.1	<.1
Nitrite-N	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Phenol	<.01	0.02	<.01	<.01	<.01	<.01	<.01
Sulfate	23	<5	<5	12	1100	<5	7
TOC	39	1.2	<1	<1	11.2	<1	<1
TOH	0.016	0.022	0.013	0.008	0.095	0.020	0.036

NOTE; All mass values are reported as mg/1.

(1) pH units

(2) Specific Conductivity, Uhmos/cm

Lee G. Kent
Chemist

LGK/beo

cc: Lab (2), File

NOVEMBER 1990 GROUNDWATER INDICATOR PARAMETERS
LANDFILL #6

Well Location	Date	Depth to Groundwater from Top of Casing (feet)	pH	Specific Conductivity	Temperature °C
MW-1	90/11/7	105.1	7.03	406	12.7
MW-2	90/11/6	4.3	7.6	9750	18.2
MW-3A	90/11/6	7.77	10.79	100	15.2
MW-4	90/11/7	58.68	6.22	1430	12.5
MW-5A	90/11/7	34.78	7.23	90	16
MW-6	90/11/7	15.62	6.71	115	15.3
MW-7A	90/11/7	9.94	6.69	266	15.9
MW-8	90/11/7	11.64	6.52	52	
MW-9	90/11/6	36.47	7.82	60	14
MW-10	90/11/6	36.8	7.7	32	11.1
MW-11	90/11/6	11.14	6.98	100	14.9
MW-12	90/11/6	11.25	7.83	86	14.2
MW-13	90/11/6	19	7.27	2280	15.5

ESE#
901108SIR—

SIRRINE ENVIRONMENTAL CONSULTANTS

Chain Of Custody Record

Sirrine Job No. G9359.10

Project/Location: CHAMPION / CANTON, N.C.

Client Name: CHAMPION INTERNATIONAL

Collected By: DETWILER

F - Filtered P - Preserved

Analytical Program: CWA SDWA CLP RCRA

Sample ID	Date	Time	COMP	GRAB	WELL	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBIDIE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	NITRITE (F P)	(F P)	Remarks
MW-9	11/6	1130			X	MW-9	5	X	X	X	X			X			X				X	X		
MW-10	11/6	1230			X	MW-10	5	X	X	X	X			X			X				X	X		
MW-11	11/6	1300			X	MW-11	5	X	X	X	X			X			X				X	X		
MW-3A	11/6	1500			X	MW-3A	5	X	X	X	X			X			X				X	X		
MW-13	11/6	1535			X	MW-13	5	X	X	X	X			X			X				X	X		
MW-12	11/6	1410			X	MW-12	5	X	X	X	X			X			X				X	X		
UP-STREAM	11/6	1425		X		BOWEN BRANCH	5	X	X	X	X			X			X				X	X		
DOWN-STREAM	11/6	1450		X		BOWEN BRANCH	5	X	X	X	X			X			X				X	X		
MW-5A	11/7	1300			X	MW-5A	5	X	X	X	X			X			X				X	X		
MW-6	11/7	1330			X	MW-6	5	X	X	X	X			X			X				X	X		
MW-7A	11/7	1420			X	MW-7A	5	X	X	X	X			X			X				X	X		

Custody Transfers Prior To Receipt By Lab

	Relinquished By/(Signed) (Organization)	Received By/(Signed) (Organization)	Date	Time
1.	[illegible] SEC	Bonnie Owens-ESE	11/3/90	0910
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly To Lab ☑ Shipped ☐

Method Of Shipment: _____ Airbill # _____

Analytical Lab: ESE Location: GREENVILLE, S.C.

Received By Lab By: _____ Date: _____ Time: _____
(Signature)

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

ESE# 901108SIR—

SIRRINE ENVIRONMENTAL CONSULTANTS

Chain Of Custody Record

Sirrine Job No. 69359.10

Project/Location: CHAMPION / CANTON, N.C.

Client Name: CHAMPION INTERNATIONAL

Collected By: DETWILER

F - Filtered P - Preserved

Analytical Program: CWA SDWA CLP RCRA

Sample ID	Date	Time	COMP	GRAB	WELL	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBIDIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	NITRATE (F P)	(F P)	Remarks
MW-1	11/7	1620			X	MW-1	5	X	X	X	X			X			X				X	X		
MW-4	11/7	1710			X	MW-4	5	X	X	X	X			X			X				X	X		
MW-2	11/7	1725			X	MW-2	5	X	X	X	X			X			X				X	X		
MW-8	11/7	1830			X	MW-8	5	X	X	X	X			X			X				X	X		

Custody Transfers Prior To Receipt By Lab

	Relinquished By/(Signed) (Organization)	Received By/(Signed) (Organization)	Date	Time
1.	[illegible] SEC	Bonnie Owens SEC	11/8/90	0910
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly To Lab ☑ Shipped ☐

Method Of Shipment: _____ Airbill # _____

Analytical Lab: ESE Location: GREENVILLE, S.C.

Received By Lab By: _____ Date: _____ Time: _____
(Signature)

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

Canton Mill
Box C-10
Canton, North Carolina 28716

Champion
Champion International Corporation

January 13, 1992

Mr. Larry Rose
Hydrogeological Technician
N. C. Department of Environment, Health,
and Natural Resources
Solid Waste Section
P. O. Box 27687
Raleigh, N. C. 27611-7687

Dear Mr. Rose:

In response to your request, please find enclosed information relating to the latest sampling of ground water monitoring wells and surface water located at Champion International Corporation's Number 6 Landfill. Thirteen groundwater monitoring wells are located at the Number 6 Landfill, Permit Number 45-06. Two surface water samples from Bowen Branch were analyzed as well.

Enclosed are the following:

- Results of chemical analysis performed on the thirteen groundwater samples and two surface water samples;
- Summary of water level and indicator parameter measurements made prior to sampling;
- Chain-of-custody Records.

The sampling activity was completed by Sirrine Environmental Consultants between October 29 and November 4, 1991. Results were received by my office January 2, 1992.

If you have any questions about these results, please feel free to call me at (704) 646-2028.

Sincerely,

Jim Giauque
Process Engineer

Enclosures

xc: Mr. Ted Peyser
Solid Waste Programs Manager
Champion International Corporation
One Champion Plaza
Stamford, CT 06921

cc: Derric Brown
George Brown
Bob Williams

OCTOBER/NOVEMBER 1991 GROUND-WATER INDICATOR PARAMETERS

Well Location	Date	Depth to Groundwater from Top of Casing (feet)	pH	Specific Conductivity	Temperature °C
MW-2	10/29/91	3.94	8.34	6140	15.9
MW-3A	10/29/91	8.0	7.14	79	16.4
MW-8	10/29/91	11.04	6.5	55	16
MW-9	10/29/91	34.76	6.16	39	14.9
MW-10	10/29/91	36.59	6.08	19.44	12.8
MW-11	10/29/91	10.83	5.31	41	15.1
MW-1	10/30/91	102.23	6.95	292	13.7
MW-4	10/30/91	----	----	----	----
MW-5A	10/30/91	34.65	5.69	58	16.5
MW-6	10/30/91	15.46	5.69	92	16.4
MW-7A	10/30/91	9.5	5.98	155	16.5
MW-13	10/30/91	18.44	5.67	808	15.1
MW-12	10/30/91	11.62	6.15	40	15.1

Chem-Nuclear Environmental Services, Inc.

140 Stoneridge Drive
Columbia, SC 29210
803 256-0450

RESULTS REPORT

Client: Sirrine Environmental Consultants

Date Sampled: 10-30-91

Waste Type: Water

Date Received: 10-31-91

Project: Champion/Canton

Lab No.:	913052	913053	913054	913055	
Sample ID:	MW-13	MW-12	MW-5A	MW-6	
Parameters:	Results	Results	Results	Results	Units
Silver	<0.05	<0.05	<0.05	<0.05	ppm
Barium	0.41	<0.20	0.38	<0.20	ppm
Cadmium	<0.01	<0.01	<0.01	<0.01	ppm
Chromium	0.10	<0.05	0.08	<0.05	ppm
Lead	<0.08	<0.08	<0.08	<0.08	ppm
Arsenic	<0.15	<0.15	<0.15	<0.15	ppm
Selenium	<0.05	<0.05	<0.05	<0.05	ppm
Mercury	<0.003	<0.003	<0.003	<0.003	ppm
Calcium	197	4.00	5.48	6.67	ppm
Iron	49.1	16.0	80.5	16.7	ppm
Manganese	11.0	0.52	0.77	0.22	ppm
Sodium	453	3.91	8.49	8.02	ppm
Nickel	<0.12	<0.12	<0.12	<0.12	ppm
Tot. Dissolved Solids	2860	128	98	134	ppm
Specific Conductance	2873	64	91	133	umhos/cm
Phenolics, Total	<10	<10	<10	<10	ppb
Total Organic Carbon	17	<5.0	6.0	6.0	ppm
Total Organic Halogens	208	<10	<10	<10	ppb
Chloride	268	2.6	4	6.2	ppm
Fluoride (Total)	<1	<1	<1	<1	ppm
Nitrite	<0.01	<0.01	<0.01	<0.01	ppm
Sulfate	1568	11.1	5.4	24.7	ppm

Sirrine Environmental Consultants
Project: Champion/Canton
Page 2

Lab No.:	913056	913057	913058	913059	
Sample ID:	MW-7A	MW-1	MW-2	MW-4	
Parameters:	Results	Results	Results	Results	Units
Silver	<0.05	<0.05	<0.05	<0.05	ppm
Barium	<0.20	0.58	<0.20	<0.20	ppm
Cadmium	<0.01	<0.01	<0.01	<0.01	ppm
Chromium	<0.05	<0.05	<0.05	0.05	ppm
Lead	<0.08	0.33	<0.08	<0.08	ppm
Arsenic	<0.15	<0.15	<0.15	<0.15	ppm
Selenium	<0.05	<0.05	<0.05	<0.05	ppm
Mercury	<0.003	<0.003	<0.003	<0.003	ppm
Calcium	21.4	83.5	15.9	80.1	ppm
Iron	22.6	90.8	1.74	274	ppm
Manganese	3.31	0.86	0.15	5.02	ppm
Sodium	6.04	80.5	2230	108	ppm
Nickel	<0.12	<0.12	<0.12	<0.12	ppm
Tot. Dissolved Solids	275	1735	6983	1575	ppm
Specific Conductance	338	458	6791	1742	umhos/cm
Phenolics, Total	<10	<10	<10	<10	ppb
Total Organic Carbon	<5.0	5.0	570	14	ppm
Total Organic Halogens	<10	<10	103	47	ppb
Chloride	6	1	251	314	ppm
Fluoride (Total)	<1	<1	<1	<1	ppm
Nitrite	<0.01	<0.05	<0.02	<0.02	ppm
Sulfate	175	157	58.3	1303	ppm

Reviewed and Approved by: Charles N. Reece Date: 12/2/91

SIRRINE
ENVIRONMENTAL
CONSULTANTS

Chain Of Custody Record

Page 1 Of 1
Sirrine Job No. 61159

Project/Location: LANDFILL #6 / CANTON, N.C.
Client Name: CHAMPION INT.
Collected By: DETWILER & LISH

F - Filtered P - Preserved
Analytical Program: CWA SDWA CLP RCRA

Sample ID	Date	Time	COMP	GRAB	WELL	Sample Location	# Of Containers	Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC (P)	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	NITRITE (F P)	(F P)	Remarks
MW-13	10/30	1100			X	MW-13	7	X	X	X	X			X			X				X	X		
MW-12	10/30	1145			X	MW-12	7	X	X	X	X			X			X				X	X		
MW-5A	10/30	1215			X	MW-5A	7	X	X	X	X			X			X				X	X		
MW-6	10/30	1255			X	MW-6	7	X	X	X	X			X			X				X	X		
MW-7A	10/30	1320			X	MW-7A	7	X	X	X	X			X			X				X	X		
MW-1	10/30	1435			X	MW-1	7	X	X	X	X			X			X				X	X		
MW-2	10/30	1500			X	MW-2	7	X	X	X	X			X			X				X	X		
MW-4	10/30	1630			X	MW-4	7	X	X	X	X			X			X				X	X		

Custody Transfers Prior To Receipt By Lab

	Relinquished By/(Signed) (Organization)	Received By/(Signed) (Organization))	Date	Time
1.	Don A. Detwiler SEC		10/31/91	
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly To Lab ☑ Shipped ☐
Method Of Shipment: SEC VEHICLE Airbill # _____
Analytical Lab: CNLS Location: GREENVILLE, S.C.
Received By Lab By: (Signature) Date: 10-31-91 Time: 09:05

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

SIRRINE ENVIRONMENTAL CONSULTANTS

REQUEST FOR ANALYSIS

- This form must accompany samples - Do Not send under separate cover
- Separate forms should be completed for each shipping container

PROJECT NAME: CHAMPION INT
SEC JOB NO.: G-1199
PROJECT MANAGER: JOE HARRIGAN
BILLING ADDRESS: SIRRINE ENVIRONMENTAL CONSULTANTS
P.O. BOX 24000
GREENVILLE, SC 29616

SAMPLE SHIPMENT DATE:
SHIPPED TO:
LAB NAME: CNLS
LOCATION: GREENVILLE S.C.
LAB CONTACT: DL. REESE
LAB PHONE: (803) 235-0707
MODE OF SHIPMENT: SEC VEHICLE
AIRBILL NO.: NA

(Job number must be included on all invoices)

SAMPLE NO.	SAMPLE TYPE	SAMPLE VOLUME	PRESERVATIVE	REQUIRED TESTING PROGRAM	SPECIAL INSTRUCTIONS
MW-13	WATER	½ GAL	NONE	Cl, Fl, SO4, TDS, COND, NO2	
MW-13	WATER	1 l	H_2SO_4	PHENOL	
MW-13	WATER	2 x 500 ml	H_2SO_4	TOX	
MW-13	WATER	125 ml	H_2SO_4	TOC	
MW-13	WATER	750 ml	HNO_3	METALS	Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mn, Ni, Na, Pb, Se
MW-12	WATER	½ GAL	NONE	Cl, Fl, SO4, TDS, COND, NO2	
MW-12	WATER	1 l	H_2SO_4	PHENOL	
MW-12	WATER	2 x 500 ml	H_2SO_4	TOX	
MW-12	WATER	125 ml	H_2SO_4	TOC	
MW-12	WATER	250 ml	HNO_3	METALS	Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mn, Ni, Na, Pb, Se

TURNAROUND TIME REQUIRED: (Turnaround time must be arranged with lab prior to shipment)
NORMAL ✓ RUSH _____ (Subject to rush service charge)

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if samples are hazardous materials and/or suspected to contain high levels of chemical compounds.) LOW CONCENTRATION/ENVIRONMENTAL SAMPLES ONLY ✓

MEDIUM OR HIGH CONCENTRATION SAMPLES/DOT HAZ MAT CLASSIFICATION _____ OTHER _____ (Please specify)

SAMPLE DISPOSAL :
RETURN TO CLIENT _____ DISPOSAL BY LAB ✓

FOR LAB USE ONLY
RECEIVED BY: [illegible]
DATE/TIME 10-26-91 @ 9:15

SIRRINE ENVIRONMENTAL CONSULTANTS

REQUEST FOR ANALYSIS

- This form must accompany samples - Do Not send under separate cover
- Separate forms should be completed for each shipping container

PROJECT NAME: CHAMPION
SEC JOB NO.: G 1139
PROJECT MANAGER: JOE HARRIGAN
BILLING ADDRESS: SIRRINE ENVIRONMENTAL CONSULTANTS
P.O. BOX 24000
GREENVILLE, SC 29616

SAMPLE SHIPMENT DATE:
SHIPPED TO:
LAB NAME: CNLS
LOCATION: GREENVILLE S.C.
LAB CONTACT: DR. REESE
LAB PHONE: (803) 235-0787
MODE OF SHIPMENT: SEC VEHICLE
AIRBILL NO.: N/A

(Job number must be included on all invoices)

SAMPLE NO.	SAMPLE TYPE	SAMPLE VOLUME	PRESERVATIVE	REQUIRED TESTING PROGRAM	SPECIAL INSTRUCTIONS
MW-5A	WATER	½ GAL	NONE	Cl, Fl, SO_4, TDS COND, NO_2	
MW-5A	WATER	1 l	H_2SO_4	PHENOL	
MW-5A	WATER	2 x 500 ml	H_2SO_4	TOX	
MW-5A	WATER	125 ml	H_2SO_4	TOC	
MW-5A	WATER	750 ml	HNO_3	METALS	Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mg, Mn, Na, Ni, Pb, Se
MW-6	WATER	½ GAL	NONE	Cl, Fl, SO_4, TDS COND, NO_2	
MW-6	WATER	1 l	H_2SO_4	PHENOL	
MW-6	WATER	2 x 500 ml	H_2SO_4	TOX	
MW-6	WATER	125 ml	H_2SO_4	TOC	
MW-6	WATER	750 ml	HNO_3	METALS	Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mg, Na, Ni, Pb, Se

TURNAROUND TIME REQUIRED: (Turnaround time must be arranged with lab prior to shipment)
NORMAL ✓ RUSH _____ (Subject to rush service charge)

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if samples are hazardous materials and/or suspected to contain high levels of chemical compounds.) LOW CONCENTRATION/ENVIRONMENTAL SAMPLES ONLY ✓

MEDIUM OR HIGH CONCENTRATION SAMPLES/DOT HAZ MAT CLASSIFICATION _____ OTHER _____ (Please specify)

SAMPLE DISPOSAL :
RETURN TO CLIENT _____ DISPOSAL BY LAB ✓

FOR LAB USE ONLY
RECEIVED BY: [illegible]
DATE/TIME: 10/21/91 @ 9:00

SIRRINE ENVIRONMENTAL CONSULTANTS

REQUEST FOR ANALYSIS

- This form must accompany samples - Do Not send under separate cover
- Separate forms should be completed for each shipping container

PROJECT NAME: CHAMPION EVT.
SEC JOB NO.: 61139
PROJECT MANAGER: JOE HARRIGAN
BILLING ADDRESS: SIRRINE ENVIRONMENTAL CONSULTANTS
P.O. BOX 24000
GREENVILLE, SC 29616

SAMPLE SHIPMENT DATE:
SHIPPED TO:
LAB NAME: CNLS
LOCATION: GREENVILLE SC
LAB CONTACT: D.R. REESE
LAB PHONE: (803) 235-0707
MODE OF SHIPMENT: SEC VEHICLE
AIRBILL NO.: NA

(Job number must be included on all invoices)

SAMPLE NO.	SAMPLE TYPE	SAMPLE VOLUME	PRESERVATIVE	REQUIRED TESTING PROGRAM	SPECIAL INSTRUCTIONS
MW-7A	WATER	½ GAL	NONE	Cl, Fe, SO_4, TDS COND, NO_2	
MW-7A	WATER	1 l	H_2SO_4	PHENOL	
MW-7A	WATER	2 x 500 ml	H_2SO_4	TOX	
MW-7A	WATER	125 ml	H_2SO_4	TOC	
MW-7A	WATER	250 ml	HNO_3	METALS	Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mn, Na, Ni, Pb, Se
MW-1	WATER	½ GAL	NONE	Cl, Fe, SO_4, TDS COND, NO_2	
MW-1	WATER	1 l	H_2SO_4	PHENOL	
MW-1	WATER	2 x 500 ml	H_2SO_4	TOX	
MW-1	WATER	125 ml	H_2SO_4	TOC	
MW-1	WATER	750 ml	HNO_3	METALS	Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mn, Na, Ni, Pb, Se

TURNAROUND TIME REQUIRED: (Turnaround time must be arranged with lab prior to shipment)
NORMAL ✓ RUSH _____ (Subject to rush service charge)

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if samples are hazardous materials and/or suspected to contain high levels of chemical compounds.) LOW CONCENTRATION/ENVIRONMENTAL SAMPLES ONLY ✓

MEDIUM OR HIGH CONCENTRATION SAMPLES/DOT HAZ MAT CLASSIFICATION _____ OTHER _____ (Please specify)

SAMPLE DISPOSAL :
RETURN TO CLIENT _____ DISPOSAL BY LAB ✓

FOR LAB USE ONLY
RECEIVED BY: Don Trott
DATE/TIME 10-31-91 @ 10:05

SIRRINE ENVIRONMENTAL CONSULTANTS

REQUEST FOR ANALYSIS

- This form must accompany samples - Do Not send under separate cover
- Separate forms should be completed for each shipping container

PROJECT NAME: CHAMPION INT.
SEC JOB NO.: G1189
PROJECT MANAGER: JOE HARRIGAN
BILLING ADDRESS: SIRRINE ENVIRONMENTAL CONSULTANTS
P.O. BOX 24000
GREENVILLE, SC 29616

SAMPLE SHIPMENT DATE: _____
SHIPPED TO: _____
LAB NAME: CWLS
LOCATION: GREENVILLE, S.C.
LAB CONTACT: DR. REESE
LAB PHONE: (803) 235-0707
MODE OF SHIPMENT: SEC VEHICLE
AIRBILL NO.: NA

(Job number must be included on all invoices)

SAMPLE NO.	SAMPLE TYPE	SAMPLE VOLUME	PRESERVATIVE	REQUIRED TESTING PROGRAM	SPECIAL INSTRUCTIONS
MW-2	WATER	½ GAL	NONE	Cl, Fl, SO_4, TDS, COND, NO_2	
MW-2	WATER	1 l	H_2SO_4	PHENOL	
MW-2	WATER	2x500ml	H_2SO_4	TOX	
MW-2	WATER	125 ml	H_2SO_4	TOC	
MW-2	WATER	750ml	HNO_3	METALS	Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mn, Na, Ni, Pb, Se
MW-4	WATER	½ GAL	NONE	Cl, Fl, SO_4, TDS, COND, NO_2	
MW-4	WATER	1 l	H_2SO_4	PHENOL	
MW-4	WATER	2x500ml	H_2SO_4	TOX	
MW-4	WATER	125 ml	H_2SO_4	TOC	
MW-4	WATER	1 l	HNO_3	METALS	Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mn, Na, Ni, Pb, Se

TURNAROUND TIME REQUIRED: (Turnaround time must be arranged with lab prior to shipment)
NORMAL ✓ RUSH _____ (Subject to rush service charge)

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if samples are hazardous materials and/or suspected to contain high levels of chemical compounds.) LOW CONCENTRATION/ENVIRONMENTAL SAMPLES ONLY ✓

MEDIUM OR HIGH CONCENTRATION SAMPLES/DOT HAZ MAT CLASSIFICATION _____ OTHER _____ (Please specify)

SAMPLE DISPOSAL :
RETURN TO CLIENT _____ DISPOSAL BY LAB ✓

FOR LAB USE ONLY
RECEIVED BY: [illegible]
DATE/TIME [illegible] @ 09:05

Chem-Nuclear Environmental Services, Inc.

140 Stoneridge Drive
Columbia, SC 29210
803 256-0450

RESULTS REPORT

Client: Sirrine Environmental Consultants

Date Sampled: 10-29-91

Waste Type: Water

Date Received: 10-30-91

Project: Champion/Canton

Lab No.:	912989	912990	912991	912992	
Sample ID:	MW-8	MW-9	MW-11	MW-10	
Parameters:	Results	Results	Results	Results	Units
Silver	<0.05	<0.05	<0.05	<0.05	ppm
Barium	<0.20	0.27	1.10	<0.20	ppm
Cadmium	<0.01	<0.01	<0.01	<0.01	ppm
Chromium	<0.05	0.07	0.16	<0.05	ppm
Lead	<0.08	<0.08	0.16	<0.08	ppm
Arsenic	<0.15	<0.15	<0.15	<0.15	ppm
Selenium	<0.03	<0.03	<0.05	<0.05	ppm
Mercury	<0.003	<0.003	<0.003	<0.003	ppm
Calcium	4.62	4.97	3.68	2.86	ppm
Iron	19.0	73.8	327	19.2	ppm
Manganese	0.12	0.82	0.50	0.28	ppm
Sodium	4.51	3.43	5.00	1.78	ppm
Nickel	<0.12	<0.12	0.12	<0.12	ppm
Total Dissolved Solids	103	78.0	75	43	ppm
Specific Conductance	68	42	82	29	umhos/cm
Phenolics, Total	<10	<10	<10	<10	ppb
Total Organic Carbon	6.7	<5.0	<5.0	<5.0	ppm
Total Organic Halogens	<10	<10	<10	<10	ppb
Chloride	1.5	<1	14	<1	ppm
Fluoride	<1	<1	<1	<1	ppm
Nitrite	<0.01	<0.01	<0.01	<0.01	ppm
Sulfate	17	17	<1	2.8	ppm

Sirrine Environmental Consultants
Project: Champion/Canton
Page 2

Lab No.:	912993	912994	912995	
Sample ID:	BB-UP STREAM	BB-DOWN STREAM	MW-3A	
Parameters:	Results	Results	Results	Units
Silver	<0.05	<0.05	<0.05	ppm
Barium	<0.20	<0.20	<0.20	ppm
Cadmium	<0.01	<0.01	<0.01	ppm
Chromium	<0.05	<0.05	<0.05	ppm
Lead	<0.08	<0.08	<0.08	ppm
Arsenic	<0.15	<0.15	<0.15	ppm
Selenium	<0.03	<0.03	<0.03	ppm
Mercury	<0.003	<0.003	<0.003	ppm
Calcium	3.89	5.51	10.6	ppm
Iron	0.52	1.05	25.1	ppm
Manganese	<0.08	0.11	<0.08	ppm
Sodium	3.53	6.13	7.32	ppm
Nickel	<0.12	<0.12	<0.12	ppm
Total Dissolved Solids	83	90	123	ppm
Specific Conductance	51	79	100	umhos/cm
Phenolics, Total	<10	<10	<10	ppb
Total Organic Carbon	<5.0	<5.0	<5.0	ppm
Total Organic Halogens	<10	<10	<10	ppb
Chloride	2.7	5.2	<1	ppm
Fluoride	<1	<1	<1	ppm
Nitrite	<0.01	<0.01	<0.01	ppm
Sulfate	3.6	7.3	13	ppm

Reviewed and Approved by: Charles H. Reece Date: 12/2/91

SIRRINE ENVIRONMENTAL CONSULTANTS

REQUEST FOR ANALYSIS

- This form must accompany samples - Do Not send under separate cover
- Separate forms should be completed for each shipping container

PROJECT NAME: CHAMPION INT.
SEC JOB NO.: G1139
PROJECT MANAGER: JOE HARRIGAN
BILLING ADDRESS: SIRRINE ENVIRONMENTAL CONSULTANTS
P.O. BOX 24000
GREENVILLE, SC 29616

SAMPLE SHIPMENT DATE: _____
SHIPPED TO: _____
LAB NAME: CNLS
LOCATION: GREENVILLE, S.C.
LAB CONTACT: DR. REESE
LAB PHONE: (803) 235-0707
MODE OF SHIPMENT: SEC VEHICLE
AIRBILL NO.: N.A

(Job number must be included on all invoices)

SAMPLE NO.	SAMPLE TYPE	SAMPLE VOLUME	PRESERVATIVE	REQUIRED TESTING PROGRAM	SPECIAL INSTRUCTIONS
MW-8	WATER	½ GAL	NONE	Cl, Fl, SO4, TDS COND, NO2	
MW-8	WATER	1 l	H_2SO_4	PHENOL	
MW-8	WATER	2 X 500 ml	H_2SO_4	TOX	
MW-8	WATER	125 ml	H_2SO_4	TOC	
MW-8	WATER	500 ml	HNO_3	METALS	Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mg, Na, Ni, Pb, Se
MW-9	WATER	½ GAL	NONE	Cl, Fl, SO4, TDS, COND, NO2	
MW-9	WATER	1 l	H_2SO_4	PHENOL	
MW-9	WATER	2 X 500 ml	H_2SO_4	TOX	
MW-9	WATER	125 ml	H_2SO_4	TOC	
MW-9	WATER	500 ml	HNO_3	METALS	Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mg, Na, Ni, Pb, Se

TURNAROUND TIME REQUIRED: (Turnaround time must be arranged with lab prior to shipment)
NORMAL ✓ RUSH _____ (Subject to rush service charge)

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if samples are hazardous materials and/or suspected to contain high levels of chemical compounds.) LOW CONCENTRATION/ENVIRONMENTAL SAMPLES ONLY ✓

MEDIUM OR HIGH CONCENTRATION SAMPLES/DOT HAZ MAT CLASSIFICATION _____ OTHER _____ (Please specify)

SAMPLE DISPOSAL :
RETURN TO CLIENT _____ DISPOSAL BY LAB ✓

FOR LAB USE ONLY
RECEIVED BY: Chi Ham DATE/TIME 10/30/91 0730

SIRRINE ENVIRONMENTAL CONSULTANTS

REQUEST FOR ANALYSIS

- This form must accompany samples - Do Not send under separate cover
- Separate forms should be completed for each shipping container

PROJECT NAME: CHAMPION INT.
SEC JOB NO.: G 1139
PROJECT MANAGER: JOE HARRIGAN
BILLING ADDRESS: SIRRINE ENVIRONMENTAL CONSULTANTS
P.O. BOX 24000
GREENVILLE, SC 29616

SAMPLE SHIPMENT DATE:
SHIPPED TO:
LAB NAME: CNLS
LOCATION: GREENVILLE, S.C.
LAB CONTACT: DR. REESE
LAB PHONE: (803) 235-0707
MODE OF SHIPMENT: SEC VEHICLE
AIRBILL NO.: NA

(Job number must be included on all invoices)

SAMPLE NO.	SAMPLE TYPE	SAMPLE VOLUME	PRESERVATIVE	REQUIRED TESTING PROGRAM	SPECIAL INSTRUCTIONS
MW-11	WATER	½ GAL	NONE	Cl, Fl, SO_4, TDS COND, NO_2	
MW-11	WATER	1 l	H_2SO_4	PHENOL	
MW-11	WATER	2X500 ml	H_2SO_4	TOX	
MW-11	WATER	125 ml	H_2SO_4	TOC	
MW-11	WATER	500 ml	HNO_3	METALS	Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mn, Na, Ni, Pb, Se
MW-10	WATER	½ GAL	NONE	Cl, Fl, SO_4, TDS COND, NO_2	
MW-10	WATER	1 l	H_2SO_4	PHENOL	
MW-10	WATER	2X500 ml	H_2SO_4	TOX	
MW-10	WATER	125 ml	H_2SO_4	TOC	
MW-10	WATER	500 ml	H_2SO_4	METALS	Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mn, Na, Ni, Pb, Se

TURNAROUND TIME REQUIRED: (Turnaround time must be arranged with lab prior to shipment)
NORMAL ✓ RUSH ____ (Subject to rush service charge)

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if samples are hazardous materials and/or suspected to contain high levels of chemical compounds.) LOW CONCENTRATION/ENVIRONMENTAL SAMPLES ONLY ✓

MEDIUM OR HIGH CONCENTRATION SAMPLES/DOT HAZ MAT CLASSIFICATION ____ OTHER ____ (Please specify)

SAMPLE DISPOSAL :
RETURN TO CLIENT ____ DISPOSAL BY LAB ✓

FOR LAB USE ONLY
RECEIVED BY: [illegible] DATE/TIME 10/30/91 0730

SEC 1298

SIRRINE ENVIRONMENTAL CONSULTANTS

REQUEST FOR ANALYSIS

- This form must accompany samples - Do Not send under separate cover
- Separate forms should be completed for each shipping container

PROJECT NAME: CHAMPION INT.
SEC JOB NO.: G1139
PROJECT MANAGER: JOE HARRIGAN
BILLING ADDRESS: SIRRINE ENVIRONMENTAL CONSULTANTS
P.O. BOX 24000
GREENVILLE, SC 29616

SAMPLE SHIPMENT DATE:
SHIPPED TO:
LAB NAME: CNLS
LOCATION: GREENVILLE, S.C.
LAB CONTACT: Dr. REESE
LAB PHONE: (803) 235-0707
MODE OF SHIPMENT: SEC VEHICLE
AIRBILL NO.: NA

(Job number must be included on all invoices)

SAMPLE NO.	SAMPLE TYPE	SAMPLE VOLUME	PRESERVATIVE	REQUIRED TESTING PROGRAM	SPECIAL INSTRUCTIONS
UPSTREAM	½ WATER	½ GAL	NONE	Cl, FR, SO_4, TDS, COND, NO_2	
UPSTREAM	WATER	1 l	H_2SO_4	PHENOL	
UPSTREAM	WATER	2 x 500 ml	H_2SO_4	TOX	
UPSTREAM	WATER	125 ml	H_2SO_4	TOC	
UPSTREAM	WATER	500 ml	HNO_3	METALS	Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mn, Na, Ni, Pb, Se
DOWNSTREAM	WATER	½ GAL	NONE	Cl, FR, SO_4, TDS, COND, NO_2	
DOWNSTREAM	WATER	1 l	H_2SO_4	PHENOL	
DOWNSTREAM	WATER	2 x 500 ml	H_2SO_4	TOX	
DOWNSTREAM	WATER	125 ml	H_2SO_4	TOC	
DOWNSTREAM	WATER	500 ml	HNO_3	METALS	Ag, As, Ba, Ca, Cd, Cr, Fe, Hg, Mn, Na, Ni, Pb, Se

TURNAROUND TIME REQUIRED: (Turnaround time must be arranged with lab prior to shipment)
NORMAL ✓ RUSH ____ (Subject to rush service charge)

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if samples are hazardous materials and/or suspected to contain high levels of chemical compounds.) LOW CONCENTRATION/ENVIRONMENTAL SAMPLES ONLY ✓

MEDIUM OR HIGH CONCENTRATION SAMPLES/DOT HAZ MAT CLASSIFICATION ____ OTHER ____ (Please specify)

SAMPLE DISPOSAL :
RETURN TO CLIENT ____ DISPOSAL BY LAB ✓

FOR LAB USE ONLY
RECEIVED BY: C. Jones DATE/TIME 11/20/01

RUST ENVIRONMENT & INFRASTRUCTURE

Formerly SEC Donohue

RUST Environment & Infrastructure inc.
15 Brendan Way • Greenville, SC 29615
P.O. Box 24000 • Greenville, SC 29616
Tel. (803) 234-3000 • FAX (803) 234-3069

June 30, 1993

RECEIVED JUL 01 1993

Champion International Corporation
P.O. Box C10
Canton, North Carolina 29716

Attention: Mr. Jim Giauque

Re: Semi-Annual Ground Water and Surface Water Sampling and Analysis at Landfills No. 5 and No. 6.
RUST E&I Job No. 86130.000

Dear Mr. Giauque:

Please find transmitted with this letter the following Semi-Annual report information for the No. 5 and No. 6 Landfill sites located near Canton, North Carolina:

- Ground water and surface water monitoring results;
- The recorded ground-water sampling indicator parameters; and
- The original sample Chain-of-Custody Records.

This Quarterly sampling by RUST E&I took place from May 24 to May 28, 1992, and a resampling on June 15 and 16, 1993. RUST will maintain in our file the field log documentation of these sampling events.

During the May 1993 sampling, 15 wells at the No. 6 Landfill site, 6 wells at the No. 5 Landfill Site, and 6 surface water samples from various locations near the landfill were collected. On June 15 and 16, 1993, six of the wells in Landfill No. 6, one well in Landfill No. 5, and three surface water sites were resampled for reasons explained below. All samples were collected by RUST E&I field personnel according to the procedures described in the "Quality Control Plan for Sampling and Analysis of Ground Water and Surface Water" prepared for this work by Sirrine (10/89). All samples were collected under chain-of-custody protocol, and analyzed under our subcontract to AnalitiKEM in Rock Hill, South Carolina.

During the sampling effort monitoring well MW-2 bailed dry and recovered very slowly. As a result, the following analytes were not analyzed due to a lack of sample: Nitrite, pH, total Phenols, specific Conductance, and TOC.

The resampling of seven monitoring wells and three surface water samples is discussed separately below. AnalitiKEM has agreed to pay for the portion of the resampling effort they are responsible for (9 of the 10 resamplings).

The resampling was required for two reasons:

1) Laboratory error with incorrect analytical method and prep for Nitrite analysis and Quality Assurance/Quality Control (QA/QO) blanks not meeting standards for metal analysis and Total Dissolved Solids;

2) Some Sample containers for well MW-8 arrived at the laboratory broken.

The wells and stream points requiring resampling are as follows:

Sample Point	Analyte (s)						
	METALS	NITRITE	TDS	SULFATE	CHLORIDE	FLUORIDE	TOX
Landfill No. 5 5C1		X					
Landfill No. 6 MW-1A		X	X				
MW-7A	X	X	X				
MW-8		X	X	X	X	X	X
MW-9	X	X	X				
MW-10	X	X	X				
MW-11		X	X				
Bowen Cr. Upstream	X						
Beaver Dam Upstream	X	X					X
Beaver Dam Downstream	X						

____: Underlined X indicates sample container arrived broken at Lab.
- - - : Dashed underline indicates lab reported no sample container arriving at Lab.

For some reason the Laboratory thought the Nitrite analysis was an Inductively Coupled Plasma (ICP) procedure which required more extensive preparations. This resulted in the lab exceeding the 48-hour holding time. The 3030C prep for the metal analysis created some problems for the laboratory relating to QA/QC spikes after the analysis were performed. The 3030C prep must be performed within 72 hours of sampling. If, as in the case here, the QA/QC spikes for iron were not appropriate, the sample had to be rerun. This also requires running the 3030C prep again, and after all these steps were taken, the holding time had been exceeded. The method blank for the TDS samples for the six wells

in Landfill No. 6, all sampled and shipped on the same day, did not meet QA/QC objectives and the lab requested resampling for these also.

It came to our attention during the sampling in Landfill No 5, while splitting samples with Mr. Larry Rose of the Solid Waste Division of the N.C. Department of Environment, Health, and Natural Resources (NC DEHNR), that he was not having his metals samples prepped by the 3030C method as required by the Groundwater Section of the Division of Environmental Management. Telephone calls to both Solid Waste Division and Division Environmental Management resulted in this determination:

> As indicated in a caveat in the middle of the January 26, 1993 Memorandum from the NCDEHNR Groundwater Section, Landfills under RCRA/CERCL reporting requirements are <u>not</u> subject to the Memorandum, i.e., no 3030C prep required.

The Solid Waste Division would accept the metals analysis with 3030C prep this time due to the confusion from the Memo sent to Champion International Corp, Canton, NC. In the future no filtration of the metals samples are permitted in the lab or in the field.

During my inventory of analysis performed and reported by the lab, it was discovered that Barium had not been analyzed for all the samples submitted. AnalytiKEM has openly acknowledged full responsibility for failing to include Barium as one of the analytes in the metals ICP analysis. Barium was part of the list of analytes requested during the bidding period and again on a list supplied to the AnalytiKEM sales representative in early May, 1993. The lab has offered to pay for any resampling effort that may be required.

If you have any questions or if you would like to discuss the resampling effort or the issues related to the cause of it please contact me at (803) 234-2294.

Sincerely,

RUST Environment & Infrastructure

Joseph A Harrigan

Joseph A. Harrigan
Hydrogeologist

cc: Project File

MAY/JUNE 1993 GROUND WATER INDICATOR PARAMETERS

Well Location	Date	Depth to Groundwater from Top of Casing (feet)	pH	Specific Conductivity	Temperature °C
Landfill No.5					
5B1	5/26/93	7.84	6.7	34	14
5B2	5/26/93	7.56	6.50	485	14
5B3	5/26/93	9.75	6.90	197	14
5C1	5/26/93	12.49	6.30	111	10
5C2	5/26/93	4.54	7.10	124	13
5C3	5/26/93	2.11	6.30	22.3	13
Landfill No. 6					
MW-1A	5/27/93	46.9	5.82	28	13
MW-2	5/24/93	3.6	9.93	15,670	13
MW-3A	5/25/93	5.07	7.40	132	11
MW-4	5/25/93	58.1	8.81	2850	14
MW-5A	5/25/93	34.46	8.96	149	15
MW-6	5/24/93	14.72	5.68	152	13
MW-7A	5/27/93	9.07	6.47	112	13
MW-8	5/27/93	11.51	6.39	98	13
MW-9	5/27/93	32.50	5.53	44	9
MW-10	5/27/93	33.34	5.91	24	13
MW-11	5/27/93	9.14	5.30	62	13
MW-12	5/24/93	10.96	6.89	100	14
MW-13	5/25/93	18.36	5.84	5410	13
MW-14	5/28/93	23.58	5.86	90	11
MW-15	5/28/93	19.44	6.26	18	13
Resampling					
MW-1A	6/15/93	46.34	6.10	40	13
MW-7A	6/15/93	9.30	5.87	275	13
MW-8	6/16/93	12.12	6.23	102	12
MW-9	6/15/93	33.03	5.54	42	12
MW-10	6/15/93	33.56	5.83	36	13
MW-11	6/15/93	9.68	5.12	75	13
5C1	6/16/93	12.98	5.28	124	10

AnalytiKEM *An American NuKEM Company*

AnalytiKEM Inc.
454 S. Anderson Road, BTC 532
Rock Hill, SC 29730
803/329-9690
Fax: 803/324-3982

TEST REPORT NO. A83664

June 11, 1993

Prepared for:

Rust Environment & Infrastructure
15 Brendan Way
Greenville, SC 29615

Attention: Joseph Harrigan

Project: Champion Landfill #5, #6

Reviewed &
Approved by: _____

Name: Carmine M. Fioriglio

Title: QA/QC Manager

AnalytiKEM

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AnalytiKEM

I. Certification

AnalytiKEM, Inc.
Current Certifications/Regulatory Approvals

Tabulated below are the current laboratory certifications that are held by each AnalytiKEM Laboratory.

Cherry Hill, NJ		Rock Hill, SC		Houston Analytical, TX	
State	Cert #	State	Cert #	State	Cert #
Arkansas	*	S. Carolina	46067	N. Dakota	R-006
Connecticut	PH-0715	N. Carolina	316	Oklahoma	8403
Florida	880985G	New Jersey	79795	Texas Water Commission *	
Massachusetts	NJ117			Louisiana	92-07
New Jersey	04012			S. Carolina	82011
New York	10815			N. Carolina	367
N. Carolina	258			Wisconsin	998010530
N. Dakota	R-038			New Jersey	82869
Pennsylvania	68366			West Virginia	*
S. Carolina	94004			Alaska UST	AKL008
Tennessee	02908				
Vermont	*				
Oklahoma	9107				

* No certification numbers are issued for these states.

AnalytiKEM

II. Definition of Terms

Term	Definition
D	Detected; result must be greater than zero.
DI	Deionized Water
J	Compound was detected at levels below the practical quantitation limit. The level reported is approximate.
MS/MSD	Matrix Spike/Matrix Spike Duplicate.
NA	Analysis not applicable to the sample matrix.
ND	Not Detected
NR	Not Requested
NTU	Nephelometric Turbidity Units
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
U	Compound was analyzed for but not detected. The preceding number is the practical quantitation limit for the compound.
ppb	Parts-per-billion; may be converted to ppm by dividing by 1,000.
ppm	Parts-per-million; may be converted to ppb by multiplying by 1,000.
ug/l	Micrograms of constituent per liter of sample; equivalent to parts-per-billion.
ug/kg	Micrograms of constituent per kilogram of sample; equivalent to parts-per-billion.
ug/kg dw	Micrograms of constituent per kilogram of sample reported on a dry weight basis.
CCC	Calibration Check Compound; used to verify the precision of a GC/MS calibration curve.
SPCC	System Performance Check Compound; used to verify the correct operation of a GC/MS instrument.
PQL	Practical Quantitation Limit; the minimum level at which compounds can be dependably quantitated.
B	Analyte detected in associated blank as well as the sample. It indicates possible/probable blank contamination.

III. Sample Designations

AnalytiKEM

AnalytiKEM Designation	Client Designation	Matrix	Date Sampled
A83664-1	MW-3A	Aqueous	5/25/93
A83664-2	MW-5A	Aqueous	5/25/93
A83664-3	MW-13	Aqueous	5/25/93
A83664-4	MW-4	Aqueous	5/25/93

Note: Samples will be held for 30 days beyond the test report date unless otherwise requested.

IV. Methodology

AnalytiK

Metals

Method 3030C, Preliminary Treatment for Acid-Extractable Metals, Standard Methods for the Examination of Water and Wastewater, APHA, 18th Edition, 1992.

Method 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by Furnace Atomic Absorption Spectroscopy, Test Methods for Evaluating Solid Waste. Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 6010, Inductively Coupled Plasma Atomic Emission Spectroscopy, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 7000, Atomic Absorption Methods, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

- Method 7060, Arsenic, AA, Furnace
- Method 7421, Lead, AA, Furnace
- Method 7470, Mercury in Liquid Waste (Manual Cold-Vapor Technique)
- Method 7740, Selenium, AA, Furnace

IV. Methodology (Cont'd)

AnalytiKEM

General Chemistry

Method 9252, Chloride (Titrimetric, Mercuric Nitrate), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 1110, Corrosivity Toward Steel, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 340.2, Fluoride (Potentiomentric, Ion Selective Electrode), Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

Method 9200, Nitrate, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9040, pH Electrometric Measurement, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9066, Phenolics (Colorimetric, Automated 4-AAP with Distillation), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9038, Sulfate (Turbidimetric), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 160.1, Total Dissolved Solids (Dried at 180 degrees C), Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

Method 9060, Total Organic Carbon, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

V. Analytical Results

AnalytiKl

Metals

Parameter	Method Blank		A83664-1 MW-3A		A83664-2 MW-5A	
			Sample Designation			
Arsenic, total	10	U	10	U	10	U;
					10	U*
Cadmium, total	10	U	10	U	10	U
Calcium, total	5,000	U	12,000		4,600	J
Chromium, total	50	U	50	U	50	U
Iron, total	100	U	3,900		17,000	
Lead, total	50	U	50	U	11	J;
					50	U*
Manganese, total	15	U	38		640	
Mercury, total	2.0	U	2.0	U	2.0	U
Nickel, total	40	U	40	U	40	U
Selenium, total	10	U	10	U	10	U;
					10	U*
Silver, total	50	U	50	U	50	U
Sodium, total	5,000	U	9,400		14,000	
Units	(ug/l)		(ug/l)		(ug/l)	

* Duplicate analysis.

V. Analytical Results (Cont'd)

AnalytiKEM

Metals

Sample Designation

Parameter	Method Blank		A83664-3 MW-13		A83664-4 MW-4	
Arsenic, total	10	U	10	U	10	U
Cadmium, total	10	U	10	U	10	U
Calcium, total	5,000	U	170,000		93,000	
Chromium, total	50	U	50	U	50	U
Iron, total	100	U	19,000		250,000	
Lead, total	50	U	50	U	50	U
Manganese, total	15	U	15,000		8,800	
Mercury, total	2.0	U	2.0	U;	2.0	U
			2.0	U*		
Nickel, total	40	U	40	U	40	U
Selenium, total	10	U	10	U	10	U
Silver, total	50	U	50	U	50	U
Sodium, total	5,000	U	750,000		190,000	
Units	(ug/l)		(ug/l)		(ug/l)	

* Duplicate analysis.

V. Analytical Results (Cont'd)

General Chemistry

Parameter	Method Blank		A83664-1 MW-3A		A83664-2 MW-5A	
			Sample Designation			
Phenolics, total, as phenol	50	U	50	U	50	U
pH, units	--		7.59		5.80	
Total Dissolved Solids	10,000	U	91,000; 89,000	*	69,000	
Conductivity, umhos/cm @ 25°C	1.0	U	1,100		900; 940	*
Nitrate-N	100	U	100	U	1,400	
Sulfate	10,000	U	14,000		10,000	U
Chloride	1,000	U	1,000	U	12,000	
Fluoride	50	U	120		400	
Total Organic Carbon	500	U	6,000		9,700	
Units	(ug/l)		(ug/l)		(ug/l)	

Parameter	Method Blank		A83664-3 MW-13		A83664-4 MW-4	
			Sample Designation			
Phenolics, total, as phenol	50	U	50	U	50	U
pH, units	--		5.80; 5.85*		6.21	
Total Dissolved Solids	10,000	U	3,800,000		1,600,000	
Conductivity, umhos/cm @ 25°C	1.0	U	340,000		270,000	
Nitrate-N	100	U	140		100	U
Sulfate	10,000	U	2,400,000		890,000	
Chloride	1,000	U	180,000		190,000	
Fluoride	50	U	590		190	
Total Organic Carbon	500	U	25,000		5,900	
Units	(ug/l)		(ug/l)		(ug/l)	

* Duplicate analysis.

Note 1: The analyses for Total Organic Halogen were subcontracted to Savannah Laboratory, Inc. Please see a copy of their report.

Note 2: Samples A83664-1 thru A83664-4 were submitted after holding time had expired for the pH analyses.

VI. Quality Control Data

AnalytiKEM

Metals

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Arsenic	A83664-3	100	94	97	3	70-116	10
Cadmium	A83661-2	300	99	106	7	66-110	4
Cadmium	DI Water	300	107	--	--	66-110	4
Calcium	A83661-2	300	82	106	26	22-134	30
Chromium	A83661-2	300	95	102	7	72-106	4
Chromium	DI Water	300	102	--	--	72-106	4
Iron	A83661-2	300	81	79	2	65-109	15
Lead	A83664-3	100	95	99	4	65-110	4
Manganese	A83672-2	300	108	108	0	28-136	13
Mercury	A83664-4	300	105	107	2	63-129	5
Nickel	A83661-2	300	99	103	4	66-111	7
Selenium	A83664-3	100	81	86	6	75-125	30
Silver	A83661-2	300	40	42	5	10-131	30
Sodium	A83661-2	300	82	91	10	10-175	50
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 26 outside control limits

RPD: 2 out of 12 outside control limits

VI. Quality Control Data (Cont'd)

AnalytiKEM

General Chemistry

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Phenolics	A75518-Grab	500	102	101	1	28-156	30
Nitrate-N	A83664-3	500	151	153	1	70-130	25
Sulfate	A75518-Comp.	10,000	100	100	0	67-133	19
Chloride	A83661-1	20,000	98	96	2	49-146	18
Fluoride	A83679-2	133	76	80	5	75-125	20
Total Organic Carbon	A83664-4	30+	99	100	1	49-158	36
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

+ (ug)

Recovery: 0 out of 12 outside control limits

RPD: 0 out of 6 outside control limits

83664

SEC DONOHUE
Environment & Infrastructure

Chain Of Custody Record

Page 1 of 1

SECD Project No. 56130

Custody No. —

Project/Location: CHAMPION INTL, CANTON, NC

Client Name: CHAMPION INTL

Collected By: KEN VOYLES

SAMPLE ANALYSIS (x)

F-Filtered P-Preserved

Analytical Program: CWA SDWA CMP RCRA

	Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	(F P)	(F P)	REMARKS
1	MW-3A	5-25-93	1000			X	LANDFILL #6	8	X	X	X	X	X		X			X				X			
2	MW-5A	5-25-93	1600			X	LANDFILL #6	8	X	X	X	X	X		X			X				X			

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K. Voyles (Rust Eng)	FED EX	5-25-93	
2.	FED EX	Skip Sawyer	5/26	1100
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☒

Method of Shipment: FED EX Airbill #: 6605884902

Analytical Lab: ANALYTIKEM Location: ROCK HILL, SC

Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

Rev. 9/92

83664

SEC DONOHUE
Environment & Infrastructure

Chain Of Custody Record

Page 1 of 1

SECD Project No 86130

Custody No. —

Project/Location: CHAMPION, CANTON

Client Name: CHAMPION INTL

Collected By: Ken Boyle's

F-Filtered P-Preserved

Analytical Program
CWA SDWA CMP RCRA

SAMPLE ANALYSIS (x)

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	(F P)	(F P)	REMARKS
MW-13	5-25-93	1130			X	LF #6	8	X	X	X	X	X		X			X				X			
MW-4	5-25-93	1425			X	LF #6	8	X	X	X	X	X		X			X				X			

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K Vonk (Rust E&I)	Fed Ex	5-25-93	
2.	FED EX	Skip Sawyer	5/26	1100
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☒

Method of Shipment: Fed Ex Airbill #: 6605884891

Analytical Lab: Analytical Location: Rock Hill, SC

Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

Rev. 9/92

Original Report - White; Client Copy - Yellow; Laboratory Copy - Pink; File Copy - Gold

SAMPLE RECEIPT CHECKLIST

CLIENT: RUST ENVIRONMENT

PROJECT NAME: CHAMPION LANDFILL

LABORATORY NUMBER: 83664

1. ✓ Shipped
   ___ Hand Delivered

   Notes: ___

2. ✓ COC Present on Receipt
   ___ No COC

   Notes: ___

3. ___ COC Tape on Shipping Container
   ✓ No COC Tape on Shipping Container

   Notes: ___

4. ✓ Samples Broken/Leaking
   ✓ Samples Intact
   ___ Other (See Notes)

   Notes: ___

5. ✓ Ambient upon Receipt
   ✓ Chilled upon Receipt

   Notes: ___

6. ✓ Samples Preserved Correctly
   ___ Improper Preservatives
   ___ N/A (None Recommended)
   ___ Other (See Notes)

   Notes: ___

7. ✓ Received Within Holding Times
   ___ Not Received Within Holding Times
   ___ N/A (None Recommended)
   ___ Other (See Notes)

   Notes: ___

8. ✓ COC Tapes on Samples
   ✓ No COC Tapes on Samples

   Notes: ___

9. ✓ Discrepancies Between COC and Samples
   ✓ No Discrepancies Noted
   ___ N/A (No COC Received)

   Notes: ___

Additional Comments: ___

Inspected and Logged in by: S. Sawyer

Date/Time: 5/26/93 1420

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-43070

Received: 27 MAY 93

Purchase Order: RH3142

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 83664
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
43070-1	83664-1	05-25-93/1000
43070-2	83664-2	05-25-93/1600
43070-3	83664-3	05-25-93/1130
43070-4	83664-4	05-25-93/1425

PARAMETER	43070-1	43070-2	43070-3	43070-4
Total Organic Halogen, mg/l	0.018	0.035	0.25	0.10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-43070

Received: 27 MAY 93

Purchase Order: RH3142

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 83664
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
43070-5	Method Blank
43070-6	LCS (Mean % Recovery)
43070-7	LCS % RPD
43070-8	Date Analyzed

PARAMETER	43070-5	43070-6	43070-7	43070-8
Total Organic Halogen, mg/l	<0.010	92 %	15 %	06.09.93

Methods: EPA 40 CFR Part 136

Linda A. Wolfe

Linda A. Wolfe

Final Page Of Report

AnalytiKEM An American NuKEM Company AB# 7625 344811 **JOB #** 83664

☐ 28 Springdale Road
Cherry Hill, New Jersey 08003
(609) 751-1122 • (215) 923-2068
Fax: (609) 751-0824

☐ 2925 Richmond Avenue
Houston, Texas 77098
(713) 520-1495
Fax: (713) 523-7107

☑ 2324 Vernsdale Road
Rock Hill, South Carolina 29730
(803) 324-5310
Fax: (803) 324-3982

Analysis Request and Chain-of-Custody

Client: ANALYTIKEM Project: 83664 AnalytiKEM Contact: Patti de ANDINO

B).).	FIELD SAMPLE I.D. NO.	DATE	USE 24 HR CLOCK TIME	MATRIX	40 ml vials	950 ml Org. Pres.	250 ml Unpres.	ml Unpres.	ml HNO_3	ml H_2SO_4	ml H_2SO_4	ml NaOH				ANALYSIS REQUESTED PARAMETERS
	83664-1	5/25/93	1000	Water			1									TOX
	-2		1600				1									
	-3		1130				1									
	-4		1425				1									
																RESULTS DUE 6-9-93

Field Measurements:

Data Sheets: Y N

Filtered: Y Not Required

Chain of Custody

Seal No. _____

II. **Field Conditions/Comments:** _____

III. **Special Instructions:** _____
(Detection Limits, Data Package, etc.)

elinquished By:	Date/Time (use 24 hr. clock)	Received By:	Date/Time (use 24 hr. clock)
int Name: SKIP SAWYER	5/26/93 1700	Print Name: FED EX	5/26/93 1700
gnature: Skip Sawyer		Signature: L. Bonds 53-430/70	
int Name: F[redacted] EX	5/27/93	Pr[redacted]me: L. Bonds	5/27/93 10:2[redacted]

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-43128

Received: 29 MAY 93

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

Purchase Order: RH3147

CC: Sharon Burrell

Project: 83679
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
43128-6	83679-6	05-27-93/1755

PARAMETER	43128-6
Total Organic Halogen, mg/l	0.025

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-43128

Received: 29 MAY 93

Purchase Order: RH3147

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 83679
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
43128-7	Method Blank
43128-8	LCS (Mean % Recovery)
43128-9	LCS % RPD
43128-10	Date Analzyed

PARAMETER	43128-7	43128-8	43128-9	43128-10
Total Organic Halogen, mg/l	<0.010	93 %	11 %	06.04.93

Methods: EPA 40 CFR Part 136

Linda A. Wolfe

Linda A. Wolfe

Final Page Of Report

AnalytiKEM An Amer NuKEM Company AB# 1125 344 785 **JOB #** 0 2 2 2

[ ] 28 Springdale Road
Cherry Hill, New Jersey 08003
(609) 751-1122 • (215) 923-2068
Fax (609) 751-0824

[ ] 2925 Richmond Avenue
Houston, Texas 77098
(713) 520-1495
Fax (713) 523-7107

Analysis Request and Chain-of-Custody

[x] 2324 Vernsdale Road
Rock Hill, South Carolina 29730
(803) 324-5310
Fax (803) 324-9982

Client: ANALYTIKEM Project: 83679 AnalytiKEM Contact: Patti de Alvino

AB D. O	FIELD SAMPLE I.D. NO.	DATE	USE 24 HR CLOCK TIME	MATRIX	40 ml vials	950 ml Org. Ptes.	ml Unpres.	ml Unpres.	ml HNO_3	250 ml H_2SO_4	ml H_2SO_4	ml NaOH			ANALYSIS REQUESTED PARAMETERS
	83679-1	5/27/93	1355	Water						1					TOX
	-2		1630							1					
	-3		1030							1					
	-4		1125							1					
	-5		1500							1					
	-6		1755							1					

RESULTS DUE 6/11/93

Field Measurements:

Data Sheets: Y N

Filtered: Y Not Required

Chain of Custody

Seal No

II. Field Conditions/Comments:

III. Special Instructions:
(Detection Limits, Data Package, etc.)

Relinquished By:	Date/Time (use 24 hr. clock)	Received By:	Date/Time (use 24 hr. clock)
Print Name: SKIP SAWYER	5/28/93 1700	Print Name: FED EX	5/28/93 1700
Signature: Skip Sawyer		Signature: L. Bonds 93128	
Print Name: FED EX	5/29/93	Print Name: L. Bonds 5/29/93 11:20 a	
Signature:		Signature:	

AnalytiKEM

5/28/93
5:15

n: Linda Wolfe

O# RH3147

OB# 83679

(6) TOX $450.

Std. turn

Thanks for your help!

Sharon

AMERICAN
NuKEM
CORPORATION

Sharon Burrell
Customer Service Representative
AnalytiKEM

454 S. Anderson Road, BTC 532 (803) 329-9679
Rock Hill, SC 29730 Fax (803) 329-9679

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-43128

Received: 29 MAY 93

Purchase Order: RH3147

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 83679
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION, LIQUID SAMPLES	DATE/ TIME SAMPLED
43128-1	83679-1	05-27-93/1355
43128-2	83679-2	05-27-93/1630
43128-3	83679-3	05-27-93/1030
43128-4	83679-4	05-27-93/1125
43128-5	83679-5	05-27-93/1500

PARAMETER	43128-1	43128-2	43128-3	43128-4	43128-5
Total Organic Halogen, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010

(83679)

SEC DONOHUE
Environment & Infrastructure

Chain Of Custody Record

SECD Project No 96130
Custody No F

Project/Location: CHAMPION, CANTON
Client Name: CHAMPION INTL
Collected By: K. Voyles

F Filtered P Preserved
Analytical Program CWA SDWA CMP RCRA

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	(F P)	(F P)	REMARKS
MW-11	5-27-93	1500			X	LF #6	9	X	X	X	X	X		X			X				X			
MW-1A	5-27-93	1755			X	LF #6	9	X	X	X	X	X		X			X				X			

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K. Voyles (Rust GEI)	FED EX	5-27-93	1830
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☑
Method of Shipment: FED EX Airbill #: 6617255864
Analytical Lab: ANALYTIKEM Location: Rock Hill, SC
Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks:
Condition Upon Lab Receipt, Etc.)

Rev 9/92

Original Report - White; Client Copy - Yellow; Laboratory Copy - Pink; File Copy - Gold

(0)6LL

Page 1 of 1

SEC DONOHUE
Environment & Infrastructure

Chain Of Custody Record

SECD Project No 86130
Custody No A D

Project/Location: CHAMPION CANTON, NC
Client Name: CHAMPION INTL
Collected By: K. VOYLES

SAMPLE ANALYSIS (x) — F Filtered P Preserved — Analytical Program: CWA SDWA CMP RCRA

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (F)	CYANIDE (P)	TDS (F P)	(F P)	(F P)	REMARKS
MW-7A	5.27.92	1030			X	LF #6	9	X	X	X	X	X		X			X				X			
MW-8	5.27.92	1125			Y	LF #6	9	Y	X	X	X	X		X			Y				Y			

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K. Voyles (RUST E&I)	FED EX	5.27.93	1830
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☒
Method of Shipment: FED EX Airbill #: 6617255853
Analytical Lab: ANALYTIKEM Location: ROCK HILL, SC
Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

Rev. 9/92

Original Report - White; Client Copy - Yellow; Laboratory Copy - Pink; File Copy - Gold

(83679)

SEC DONOHUE
Environment & Infrastructure

Chain Of Custody Record

Page 1 of 1

SECD Project No 86130

Custody No E

Project/Location: CHAMPION, CANTON

Client Name: CHAMPION, INTL

Collected By: K. VOYLES

F Filtered P Preserved

Analytical Program CWA SDWA CMP RCRA

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TAT (F P)	(F P)	(F P)	REMARKS
W-10	5-27-93	1355			X	LF #6	9	X	X	X	X	X		X			X				X			
W-9	5-27-93	1625			X	LF #6	9	X	X	X	X	X		X			X				X			

Custody Transfers Prior to Receipt By Lab

Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
K. Voyles (Rust E&I)	FED EX	5-27-93	1830

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☒

Method of Shipment: FED EX Airbill #: 6617255875

Analytical Lab: ANALYTIKEM Location: ROCK HILL, SC

Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks: Condition Upon Lab Receipt Etc.)

Original Report - White; Client Copy - Yellow; Laboratory Copy - Pink; File Copy - Gold

VI. Quality Control Data (Cont'd)

AnalytiKEM

General Chemistry

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Phenolics	A75579-2	500	108	107	1	28-156	16
Nitrate-N	A83679-6	500	113	94	18	75-125	20
Sulfate	A83679-5	10,000	98	101	3	67-133	19
Chloride	A83672-5	20,000	101	103	2	49-146	18
Fluoride	A83679-6	667	81	86	6	75-125	20
Total Organic Carbon	A30459-1	20 +	104	104	0	29-180	36
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

+ (ug)

Recovery: 0 out of 12 outside control limits

RPD: 0 out of 6 outside control limits

VI. Quality Control Data

AnalytiKEM

Metals

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Arsenic	A83679-5	100	87	96	10	70-116	10
Cadmium	A83679-2	300	101	103	2	66-110	4
Calcium	A83679-2	300	97	101	4	22-134	30
Chromium	A83679-2	300	101	104	3	72-106	4
Iron	A83679-5	300	75	72	4	65-109	15
Lead	A83679-5	100	93	98	5	65-110	4
Lead	DI Water	100	95	--	--	65-110	4
Manganese	A83679-2	300	100	103	3	28-136	13
Mercury	A83679-6	20	112	107	5	63-129	5
Nickel	A83679-2	300	102	105	3	66-111	7
Selenium	A83679-5	100	90	90	0	75-125	30
Silver	A83679-2	300	32	32	0	10-131	30
Sodium	A83679-2	300	97	94	3	10-175	50
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 25 outside control limits

RPD: 1 out of 12 outside control limits

V. Analytical Results (Cont'd)

AnalytiKEM

General Chemistry

Parameter	Method Blank		A83679-1 MW-10		A83679-2 MW-9	
	Sample Designation					
Phenolics, total, as phenol	50	U	50	U	50	U
pH, units	NA		6.25		5.35	
Conductivity, umhos/cm @ 25°C	1.0	U	25		27	
Nitrate-N	100	U	210		100	U
Sulfate	10,000	U	10,000	U	12,000	
Chloride	1,000	U	1,000		1,000	U
Fluoride	50	U	320		50	
Total Organic Carbon	500	U	500	U	500	U
Units	(ug/l)		(ug/l)		(ug/l)	

Parameter	Method Blank		A83679-3 MW-7A		A83679-4 MW-8	
	Sample Designation					
Phenolics, total, as phenol	50	U	50	U	50	U
pH, units	NA		5.85; 5.82 *		6.48	
Conductivity, umhos/cm @ 25°C	1.0	U	2,400; 2,800 *		740	
Nitrate-N	100	U	160		100	U
Sulfate	10,000	U	93,000		--	
Chloride	1,000	U	30,000		--	
Fluoride	50	U	87		--	
Total Organic Carbon	500	U	1,800		990	
Units	(ug/l)		(ug/l)		(ug/l)	

Parameter	Method Blank		A83679-5 MW-11		A83679-6 MW-1A	
	Sample Designation					
Phenolics, total, as phenol	50	U	50	U	50	U
pH, units	NA		5.40		6.32	
Conductivity, umhos/cm @ 25°C	1.0	U	550		33	
Nitrate-N	100	U	2,000		100	U
Sulfate	10,000	U	10,000	U	10,000	U
Chloride	1,000	U	9,100		1,000	U
Fluoride	50	U	200		700	
Total Organic Carbon	500	U	1,400		500	U
Units	(ug/l)		(ug/l)		(ug/l)	

* Duplicate analysis.

Note: The Total Organic Halogen analyses was subcontracted to Savannah Laboratories, Inc. Please see the attached copy of their report.

V. Analytical Results (Cont'd)

Metals

Sample Designation

Parameter	Method Blank		A83679-4 MW-8		A83679-5 MW-11	
Arsenic, total	10	U	10	U;	10	U
			10	U*		
Cadmium, total	10	U	10	U	10	U
Calcium, total	5,000	U	3,700	J	3,100	J
Chromium, total	50	U	50	U	50	U
Iron, total	100	U	2,900		3,800	
Lead, total	50	U	50	U;	50	U
			50	U *		
Manganese, total	15	U	120		23	
Mercury, total	2.0	U	2.0	U;	2.0	U
			2.0	U *		
Nickel, total	40	U	40	U	40	U
Selenium, total	10	U	10	U;	10	U
			10	U *		
Silver, total	50	U	50	U	50	U
Sodium, total	5,000	U	4,700	J	5,300	
Units	(ug/l)		(ug/l)		(ug/l)	

Sample Designation

Parameter	Method Blank		A83679-6 MW-1A	
Arsenic, total	10	U	10	U
Cadmium, total	10	U	10	U
Calcium, total	5,000	U	4,300	J
Chromium, total	50	U	50	U
Iron, total	100	U	25,000	
Lead, total	50	U	12	J
Manganese, total	15	U	720	
Mercury, total	2.0	U	2.0	U
Nickel, total	40	U	40	U
Selenium, total	10	U	10	U
Silver, total	50	U	50	U
Sodium, total	5,000	U	5,600	
Units	(ug/l)		(ug/l)	

* Duplicate analysis.

Note: The samples had to be reprepped for Iron because the duplicate RPD exceeded 20%. These samples for Iron were prepped outside hold times

V. Analytical Results

AnalytiKEM

Metals

Sample Designation

Parameter	Method Blank		A83679-1 MW-10		A83679-1 (Duplicate) MW-10	
Arsenic, total	10	U	10	U	--	
Cadmium, total	10	U	10	U	10	U
Calcium, total	5,000	U	3,400	J	3,600	J
Chromium, total	50	U	50	U	50	U
Iron, total	100	U	4,800		5,200	
Lead, total	50	U	6.8	J	--	
Manganese, total	15	U	170		200	
Mercury, total	2.0	U	2.0	U	--	
Nickel, total	40	U	40	U	40	U
Selenium, total	10	U	10	U	--	
Silver, total	50	U	50	U	50	U
Sodium, total	5,000	U	5,200		5,300	
Units	(ug/l)		(ug/l)		(ug/l)	

Sample Designation

Parameter	Method Blank		A83679-2 MW-9		A83679-3 MW-7A	
Arsenic, total	10	U	10	U	10	U
Cadmium, total	10	U	10	U	21	
Calcium, total	5,000	U	1,600	J	31,000	
Chromium, total	50	U	50	U	50	U
Iron, total	100	U	2,000		1,200	
Lead, total	50	U	50	U	50	U
Manganese, total	15	U	70		5,100	
Mercury, total	2.0	U	2.0	U	2.0	U
Nickel, total	40	U	40	U	32	J
Selenium, total	10	U	10	U	10	U
Silver, total	50	U	50	U	50	U
Sodium, total	5,000	U	4,300	J	9,000	
Units	(ug/l)		(ug/l)		(ug/l)	

Note: The samples had to be reprepped for Iron because the duplicate RPD exceeded 20%. These samples for Iron were prepped outside hold times.

IV. Methodology (Cont'd)

General Chemistry

Method 9252, Chloride (Titrimetric, Mercuric Nitrate), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9050, Conductance (Specific Conductance, umhos at 25 degrees C), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 340.2, Fluoride (Potentiomentric, Ion Selective Electrode), Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

Method 9200, Nitrate, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9040, pH Electrometric Measurement, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with al promulgated revisions.

Method 9066, Phenolics (Colorimetric, Automated 4-AAP with Distillation), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW8 Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9038, Sulfate (Turbidimetric), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with al promulgated revisions.

Method 160.1, Total Dissolved Solids (Dried at 180 degrees C), Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

Method 9060, Total Organic Carbon, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

IV. Methodology

AnalytiKE

Metals

Method 3030C, Preliminary Treatment for Acid-Extractable Metals, Standard Methods for the Examination of Water and Wastewater, APHA, 18th Edition, 1992.

Method 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metal for Analysis by Furnace Atomic Absorption Spectroscopy, Test Methods for Evaluating Solid Waste. Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 6010, Inductively Coupled Plasma Atomic Emission Spectroscopy, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 7000, Atomic Absorption Methods, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with a promulgated revisions.

- Method 7060, Arsenic, AA, Furnace
- Method 7421, Lead, AA, Furnace
- Method 7470, Mercury in Liquid Waste (Manual Cold-Vapor Technique)
- Method 7740, Selenium, AA, Furnace

III. Sample Designations

AnalytiKEM

AnalytiKEM Designation	Client Designation	Matrix	Date Sampled
A83679-1	MW-10	Aqueous	5/27/93
A83679-2	MW-9	Aqueous	5/27/93
A83679-3	MW-7A	Aqueous	5/27/93
A83679-4	MW-8	Aqueous	5/27/93
A83679-5	MW-11	Aqueous	5/27/93
A83679-6	MW-1A	Aqueous	5/27/93

Note: Samples will be held for 30 days beyond the test report date unless otherwise requested.

AnalytiKEM

II. Definition of Terms

Term	Definition
D	Detected; result must be greater than zero.
DI	Deionized Water
J	Compound was detected at levels below the practical quantitation limit. The level reported is approximate.
MS/MSD	Matrix Spike/Matrix Spike Duplicate.
NA	Analysis not applicable to the sample matrix.
ND	Not Detected
NR	Not Requested
NTU	Nephelometric Turbidity Units
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
U	Compound was analyzed for but not detected. The preceding number is the practical quantitation limit for the compound.
ppb	Parts-per-billion; may be converted to ppm by dividing by 1,000.
ppm	Parts-per-million; may be converted to ppb by multiplying by 1,000.
ug/l	Micrograms of constituent per liter of sample; equivalent to parts-per-billion.
ug/kg	Micrograms of constituent per kilogram of sample; equivalent to parts-per-billion.
ug/kg dw	Micrograms of constituent per kilogram of sample reported on a dry weight basis.
CCC	Calibration Check Compound; used to verify the precision of a GC/MS calibration curve.
SPCC	System Performance Check Compound; used to verify the correct operation of a GC/MS instrument.
PQL	Practical Quantitation Limit; the minimum level at which compounds can be dependably quantitated.
B	Analyte detected in associated blank as well as the sample. It indicates possible/probable blank contamination.

I. Certification

AnalytiKEM, Inc.
Current Certifications/Regulatory Approvals

Tabulated below are the current laboratory certifications that are held by each AnalytiKEM Laboratory.

Cherry Hill, NJ		Rock Hill, SC		Houston Analytical, TX	
State	Cert #	State	Cert #	State	Cert #
Arkansas	*	S. Carolina	46067	N. Dakota	R-006
Connecticut	PH-0715	N. Carolina	316	Oklahoma	8403
Florida	880985G	New Jersey	79795	Texas Water Commission *	
Massachusetts	NJ117			Louisiana	92-07
New Jersey	04012			S. Carolina	82011
New York	10815			N. Carolina	367
N. Carolina	258			Wisconsin	998010530
N. Dakota	R-038			New Jersey	82869
Pennsylvania	68366			West Virginia	*
S. Carolina	94004			Alaska UST	AKL008
Tennessee	02908				
Vermont	*				
Oklahoma	9107				

* No certification numbers are issued for these states.

AnalytiKEM An American NuKEM Company

AnalytiKEM Inc.
454 S. Anderson Road, BTC 532
Rock Hill, SC 29730
803/329-9690
Fax: 803/324-3982

TEST REPORT NO. A83661

June 11, 1993

Prepared for:

Rust Environment & Infrastructure
15 Brendan Way
Greenville, SC 29615

Attention: Joseph Harrigan

Project: Champion Intl-LF #6

Reviewed &
Approved by: _____

Name: Carmine M. Fioriglio

Title: QA/QC Manager

Analytik

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I.	Certification	1
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III.	Sample Designations	3
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V.	Analytical Results	6 - 8
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AnalytiKI

I. Certification

AnalytiKEM, Inc.
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State	Cert #	State	Cert #	State	Cert #
Arkansas	*	S. Carolina	46067	N. Dakota	R-006
Connecticut	PH-0715	N. Carolina	316	Oklahoma	8403
Florida	880985G	New Jersey	79795	Texas Water Commission	*
Massachusetts	NJ117			Louisiana	92-07
New Jersey	04012			S. Carolina	82011
New York	10815			N. Carolina	367
N. Carolina	258			Wisconsin	998010530
N. Dakota	R-038			New Jersey	82869
Pennsylvania	68366			West Virginia	*
S. Carolina	94004			Alaska UST	AKL008
Tennessee	02908				
Vermont	*				
Oklahoma	9107				

* No certification numbers are issued for these states.

Analytik

II. Definition of Terms

Term	Definition
D	Detected: result must be greater than zero.
DI	Deionized Water
J	Compound was detected at levels below the practical quantitation limit. The level reported is approximate.
MS/MSD	Matrix Spike/Matrix Spike Duplicate.
NA	Analysis not applicable to the sample matrix.
ND	Not Detected
NR	Not Requested
NTU	Nephelometric Turbidity Units
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
U	Compound was analyzed for but not detected. The preceding number is the practical quantitation limit for the compound.
ppb	Parts-per-billion; may be converted to ppm by dividing by 1,000.
ppm	Parts-per-million; may be converted to ppb by multiplying by 1,000.
ug/l	Micrograms of constituent per liter of sample; equivalent to parts-per-billion.
ug/kg	Micrograms of constituent per kilogram of sample; equivalent to parts-per-billion.
ug/kg dw	Micrograms of constituent per kilogram of sample reported on a dry weight basis.
CCC	Calibration Check Compound; used to verify the precision of a GC/MS calibration curve.
SPCC	System Performance Check Compound; used to verify the correct operation of a GC/MS instrument.
PQL	Practical Quantitation Limit; the minimum level at which compounds can be dependably quantitated.
B	Analyte detected in associated blank as well as the sample. It indicates possible/probable blank contamination.

III. Sample Designations

AnalytiKEM

AnalytiKEM Designation	Client Designation	Matrix	Date Sampled
A83661-1	MW-12	Aqueous	5/24/93
A83661-2	MW-6	Aqueous	5/24/93

Note 1: Samples will be held for 30 days beyond the test report date unless otherwise requested.

Note 2: The Total Organic Halogen analysis was subcontracted to Savannah Laboratories, Inc. Please see the attached copy of their report.

IV. Methodology

Metals

Method 3030C, Preliminary Treatment for Acid-Extractable Metals, Standard Methods for the Examination of Water and Wastewater, APHA, 18th Edition, 1992.

Method 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by Furnace Atomic Absorption Spectroscopy, Test Methods for Evaluating Solid Waste. Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 7000, Atomic Absorption Methods, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

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- Method 7060, Arsenic, AA, Furnace
- Method 7421, Lead, AA, Furnace
- Method 7470, Mercury in Liquid Waste (Manual Cold-Vapor Technique)
- Method 7740, Selenium, AA, Furnace

IV. Methodology (Cont'd)

AnalytiKEM

General Chemistry

Method 9066, Phenolics (Colorimetric, Automated 4-AAP with Distillation), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9040, pH Electrometric Measurement, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 160.1, Total Dissolved Solids (Dried at 180 degrees C), Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

Method 9050, Conductance (Specific Conductance, umhos at 25 degrees C), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9200, Nitrate, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9038, Sulfate (Turbidimetric), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9252, Chloride (Titrimetric, Mercuric Nitrate), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 340.2, Fluoride (Potentiomentric, Ion Selective Electrode), Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

Method 9060, Total Organic Carbon, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

V. Analytical Results

Metals

Sample Designation

Parameter	Method Blank		A83661-1 MW-12		A83661-1 (Duplicate) MW-12	
Arsenic, total	10	U	10	U	--	
Cadmium, total	10	U	10	U	10	U
Calcium, total	5,000	U	5,500		6,000	
Chromium, total	50	U	50	U	50	U
Iron, total	100	U	1,100		1,100	
Lead, total	50	U	50	U	50	U
Manganese, total	15	U	81		--	
Mercury, total	2.0	U	2.0	U	--	
Nickel, total	40	U	40	U	40	U
Selenium, total	10	U	10	U	--	
Silver, total	50	U	50	U	50	U
Sodium, total	1,300	J	7,900		8,000	
Units	(ug/l)		(ug/l)		(ug/l)	

V. Analytical Results (Cont'd)

Metals

Parameter	Sample Designation: Method Blank		Sample Designation: A83661-2 MW-6	
Arsenic, total	10	U	10	U
Cadmium, total	10	U	10	U
Calcium, total	5,000	U	9,600	
Chromium, total	50	U	50	U
Iron, total	100	U	4,600	
Lead, total	50	U	13	J
Manganese, total	15	U	180	
Mercury, total	2.0	U	2.0	U
Nickel, total	40	U	40	U
Selenium, total	10	U	10	U
Silver, total	50	U	50	U
Sodium, total	1,300	J	12,000	
Units	(ug/l)		(ug/l)	

V. Analytical Results (Cont'd)

General Chemistry

AnalytiKEM

Parameter	Method Blank		A83661-1 MW-12		A83661-2 MW-6	
	Sample Designation					
Phenolics, total, as phenol	50	U	50	U	50	U
pH, units	NA		6.15		5.79	
Total Dissolved Solids	10,000	U	91,000		110,000	
Conductivity, umhos/cm @ 25°C	1.0	U	740; 730	*	1,300	
Nitrate-N	100		810		240	
Sulfate	10,000	U	20,000		26,000	
Chloride	1,000	U	3,500		4,000	
Fluoride	50	U	72		350	
Total Organic Carbon	500	U	11,000		4,100	
Units	(ug/l)		(ug/l)		(ug/l)	

* Duplicate analysis

Note: Samples A83661-1 and A83661-2, were submitted after holding time had expired for the pH anaylses.

V. Analytical Results (Cont'd)

AnalytiKE

General Chemistry

Parameter	Method Blank		A83661-1 MW-12		A83661-2 MW-6	
			Sample Designation			
Phenolics, total, as phenol	50	U	50	U	50	U
pH, units	NA		6.15		5.79	
Total Dissolved Solids	10,000	U	91,000		110,000	
Conductivity, umhos/cm @ 25°C	1.0	U	740; 730	*	1,300	
Nitrate-N	100		810		240	
Sulfate	10,000	U	20,000		26,000	
Chloride	1,000	U	3,500		4,000	
Fluoride	50	U	72		350	
Total Organic Carbon	500	U	11,000		4,100	
Units	(ug/l)		(ug/l)		(ug/l)	

* Duplicate analysis

Note: Samples A83661-1 and A83661-2, were submitted after holding time had expired for the pH anaylses.

VI. Quality Control Data

Metals

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Arsenic	A83664-3	100	94	97	3	70-116	10
Cadmium	A83661-2	300	99	106	7	66-110	4
Calcium	A83661-2	300	82	106	26	22-134	30
Chromium	A83661-2	300	95	102	7	72-106	4
Chromium	DI Water	300	102	--	--	72-106	4
Iron	A83661-2	300	81	79	2	65-109	15
Lead	A83664-3	100	95	99	4	65-110	4
Manganese	A83672-2	300	108	108	0	28-136	13
Mercury	A83664-4	300	105	107	2	63-129	5
Nickel	A83661-2	300	99	103	4	66-111	7
Selenium	A83664-3	100	81	86	6	75-125	30
Silver	A83661-2	300	40	42	5	10-131	30
Sodium	A83661-2	300	82	91	10	10-175	50
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 25 outside control limits

RPD: 2 out of 12 outside control limits

VI. Quality Control Data (Cont'd)

AnalytiKEM

General Chemistry

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Phenolics	A75518-G	500	102	101	1	28-156	30
Nitrate-N	A83661-1	500	91	80	13	70-130	25
Sulfate	A75518-C	10,000	100	100	0	67-133	19
Chloride	A83661-1	20,000	98	96	2	49-146	18
Fluoride	A83679-2	133	76	80	5	75-125	20
Total Organic Carbon	A83664-4	30+	99	100	1	49-158	36
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

+ (ug)

Recovery: 0 out of 12 outside control limits

RPD: 0 out of 6 outside control limits

83661

SEC DONOHUE
Environment & Infrastructure

Chain Of Custody Record

Page 1 of 1

SECD Project No 86130

Custody No

Project/Location: CHAMPION INTL - LF #6

Client Name: CHAMPION INTL. CANTON

Collected By: K. VORLES

F Filtered P Preserved

Analytical Program
CWA SDWA CMP RCRA

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	(F P)	(F P)	REMARKS
MW-12	5.24.93	1715			X	LANDFILL #6	8	X	X	X	X	X		X			X				X			
MW-6	5.24.93	1815			X	LANDFILL #6	8	X	X	X	X	X		X			X				X			

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K Vorl (RUST E&I)	FED EX	5/24/93	1930
2.	FED EX	Ship Lawyer	5/25/93	1100
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☒

Method of Shipment: FED EX Airbill #: 6135935515

Analytical Lab: ANALYTICHEM Location: ROCK HILL SC

Lab Recipient: _____ Date: _____ Time: _____
(Signature)

Additional Remarks:
(Action Upon Lab Receipt, Etc.)

Original Report - White; Client Copy - Yellow; Laboratory Copy - Pink; File Copy - Gold

SL SAVANNAH LABORATORIES
& NVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-43071

Received: 27 MAY 93

Purchase Order: RH3143

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 83661
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
43071-1	83661-1	05-24-93/1715
43071-2	83661-2	05-24-93/1815

PARAMETER	43071-1	43071-2
Total Organic Halogen, mg/l	0.044	0.055

SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-43071

Received: 27 MAY 93

Purchase Order: RH3143

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 83661
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
43071-3	Method Blank
43071-4	LCS (Mean % Recovery)
43071-5	LCS % RPD
43071-6	Date Analyzed

PARAMETER	43071-3	43071-4	43071-5	43071-6
Total Organic Halogen, mg/l	<0.010	92 %	15 %	06.09.93

Methods: EPA 40 CFR Part 136

Linda A. Wolfe

Linda A. Wolfe

Final Page Of Report

Springdale Road
erry Hill, New Jersey 08003
9) 751-1122 • (215) 923-2068
(609) 751-0824

[ ] 2925 Richmond Avenue
Houston, Texas 77098
(713) 520 1495
Fax: (713) 523-7107

Analysis Request and Chain-of-Custody

[✓] 2324 Vernsdale Road
Rock Hill, South Carolina 29730
(803) 324 5310
Fax (803) 324-3982

Client: ANALYTIKEM Project: 83661 AnalytiKEM Contact: Patti de ANDINO

FIELD SAMPLE I.D. NO.	DATE	USE 24 HR CLOCK TIME	MATRIX	40 ml vials	950 ml Org. Pres.	250 ml Unpres. ~~Septa~~	ml Unpres.	ml HNO_3	ml H_2SO_4	ml H_2SO_4	ml NaOH				ANALYSIS REQUESTED PARAMETERS
83661 - 1	5/24/93	1715	Water			1									TOX
↓ - 2	↓	1815	↓			1									↓
															RESULTS DUE 6-10-93

Field Measurements:

Data Sheets: Y N

Filtered: Y Not Required

Chain of Custody

Seal No.

II. Field Conditions/Comments:

III. Special Instructions:
(Detection Limits, Data Package, etc.)

Relinquished By:	Date/Time (use 24 hr. clock)	Received By:	Date/Time (use 24 hr. clock)
Name: SKIP SAWYER	5/26/93 1700	Print Name: FED EX	5/26/93 1700
Signature: Skip Sawyer		Signature: L. Bonds 43071 55-	
Name: FED EX	5/27/93	Print Name: L. Bonds	5/27/93 10:20 am
Signature:		Signature:	

AnalytiKEM *An American NuKEM Company*

AnalytiKEM Inc.
454 S. Anderson Road, BTC 532
Rock Hill, SC 29730
803/329-9690
Fax: 803/324-3982

TEST REPORT NO. A83679

June 16, 1993

Prepared for:

Rust Environmental & Infrastructure
15 Brendan Way
Greenville, SC 29615

Attention: Joseph Harrigan

Project: Champion, Canton, NC

Reviewed &
Approved by: _____

Name: Carmine M. Fioriglio

Title: QA/QC Manager

Analytical

TABLE OF CONTENTS

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AnalytiKEM *An American NuKEM Company*

AnalytiKEM Inc.
2324 Vernesdale Road
Rock Hill, SC 29731
TEL 803/324-5310
FAX 803/324-3982

DATE 6/28/93

TO Joe Harrigan

COMPANY Rust Environmental

FROM Tom Smith QA

EXTENSION 1252

If you do not receive 6 pages plus this cover, please contact me as soon as posible.

COMMENTS

CONFIDENTIALITY NOTICE:

The information contained in this facsimile message is confidential information intended only for the use of the individual or entity named above. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copy of this telecopy is strictly prohibited. If you have received this telecopy in error, please immediately notify us by telephone and return the original message to us at the above address.

II. Definition of Terms

Term	Definition
D	Detected; result must be greater than zero.
DI	Deionized Water
J	Compound was detected at levels below the practical quantitation limit. The level reported is approximate.
MS/MSD	Matrix Spike/Matrix Spike Duplicate.
NA	Analysis not applicable to the sample matrix.
ND	Not Detected
NR	Not Requested
NTU	Nephelometric Turbidity Units
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
U	Compound was analyzed for but not detected. The preceding number is the practical quantitation limit for the compound.
ppb	Parts-per-billion; may be converted to ppm by dividing by 1,000.
ppm	Parts-per-million; may be converted to ppb by multiplying by 1,000.
ug/l	Micrograms of constituent per liter of sample; equivalent to parts-per-billion.
ug/kg	Micrograms of constituent per kilogram of sample; equivalent to parts-per-billion.
ug/kg dw	Micrograms of constituent per kilogram of sample reported on a dry weight basis.
CCC	Calibration Check Compound; used to verify the precision of a GC/MS calibration curve.
SPCC	System Performance Check Compound; used to verify the correct operation of a GC/MS instrument.
PQL	Practical Quantitation Limit; the minimum level at which compounds can be dependably quantitated.
B	Analyte detected in associated blank as well as the sample. It indicates possible/probable blank contamination.

AnalytiKEM, Inc.-Laboratory
2324 Vernesdale Road
Rock Hill, SC 29730

Lab phone: 803-324-5310
FAX number: 803-324-3982

AnalytiKEM, Inc.-Sales Office
454 S. Anderson Rd. BTC 532
Rock Hill, SC 29732

Sales Phone: 803-329-9679
FAX number: 803-329-8542

AnalytiKEM Job # 836811
Client Rust Environment + Infrastructure
Project Champion Landfill #5, #6

Client Contact Joe Harrigan
Date Sampled 5-28-93
Released by K. Talausky

General Form

AnalytiKEM #	Blank	-1	-2	-3	-4
Client designation		MW-14	MW-15	Clyde Bridge	Champion Bridge
Units ppb	ug/l	ug/l	ug/l	ug/l	ug/l
Parameters:					
NITRITE*	74u	890	420	290	260

Comments * these values recalculated from nitrate values

All available data is preliminary, final approved data will be included in final report.

AnalytiKEM, Inc.-Laboratory
2324 Vernesdale Road
Rock Hill, SC 29730

Lab Phone: 803-324-5310
FAX number: 803-324-3982

AnalytiKEM, Inc.-Sales Office
454 S. Anderson Rd. RTC 532
Rock Hill, SC 29732

Sales Phone: 803-329-9879
FAX number: 803-329-8642

AnalytiKEM Job # 836811
Client RUST ENVIRONMENT + Infrastructure
Project Champion Landfill #5, #6

Client Contact Joe Harrigan
Date Sampled 5-28-93
Released by K. Talavsky

General Form

AnalytiKEM #	Blank	-5	-7	-8	-
Client designation		Bowen Cr. upstream	Bowen Cr. Downstream	Beaver Dam Down	
Units ppb	ug/l	ug/l	ug/l	ug/l	
Parameters:					
NITRITE *	74u	630	500	390	

Comments * these values recalculated from nitrate values

All available data is preliminary, final approved data will be included in final report.

AnalytiKEM, Inc.-Laboratory
2324 Vernesdale Road
Rock Hill, SC 29730

Lab phone: 803-324-5310
FAX number: 803-324-3982

AnalytiKEM, Inc.-Sales Office
454 S. Anderson Rd. BTC 532
Rock Hill, SC 29732

Sales Phone: 803-329-9679
FAX number: 803-329-8642

AnalytiKEM Job # 836721
Client Rust Environment + Infrastructure
Project Champion Landfill #5, #6

Client Contact Joe Harrigan
Date Sampled 5-26-93
Released by K. Talaunis

General Form

AnalytiKEM #	Blank	-1	-2	-3	-5	-6
Client designation	—	5C 3	5C2	5B1	5B2	5B3
Units ppb	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Parameters:						
NITRITE*	74u	160	410	96	74u	74u

Comments * these values were recalculated from nitrate values

All available data is preliminary, final approved data will be included in final report.

AnalytiKEM, Inc.-Laboratory
2324 Vernesdale Road
Rock Hill, SC 29730

Lab phone: 803-324-5310
FAX number: 803-324-3982

AnalytiKEM, Inc.-Sales Office
454 S. Anderson Rd. BTC 532
Rock Hill, SC 29732

Sales Phone: 803-329-9679
FAX number: 803-329-8542

AnalytiKEM Job # 836641
Client Rust Environment + Infrastructure
Project Champion Landfill #5, #6

Client Contact: Joe Harrigan
Date Sampled 6-25-93
Released by K. Talewsky

General Form

AnalytiKEM #	Blank	-1	-2	-3	-4
Client designation	—	MW-3A	MW-5A	MW-13	MW-4
Units ppb	ug/l	ug/l	ug/l	ug/l	ug/l
Parameters:					
NITRITE *	74u	74u	1000	100	74u

Comments * these values calculated from nitrate values

All available data is preliminary, final approved data will be included in final report.

AnalytiKEM, Inc.-Laboratory
2324 Vernesdale Road
Rock Hill, SC 29730

Lab phone: 803-324-5310
FAX number: 803-324-3982

AnalytiKEM, Inc.-Sales Office
454 S. Anderson Rd. BTC 532
Rock Hill, SC 29732

Sales Phone: 803-329-9679
FAX number: 803-329-8642

AnalytiKEM Job # 836611
Client Rust Environment + Infrastructure
Project Champion Landfill #5, #6

Client Contact Joe Harrigan
Date Sampled 5-24-93
Released by K. Talewsky

General Form

AnalytiKEM #	Blank	-1	-2		
Client designation		HW-12	HW-6		
Units ppb	ug/l	ug/l	ug/l		
Parameters:					
NITRITE *	74u	600	180		

Comments * these values calculated from nitrate values

All available data is preliminary, final approved data will be included in final report.

SEC DONOHUE
Environment & Infrastructure

Chain Of Custody Record

Page 1 of 1

SECD Project No. 6130

Custody No.

Project/Location: Champion Int LF #6

Client Name: Champion Int Canton

Collected By: K Little

F-Filtered P-Preserved

Analytical Program: CWA SDWA CMP RCRA

SAMPLE ANALYSIS (x)

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	(F P)	(F P)	REMARKS
MW-12	5/21/93	1715			X	Canton #6	1	X	X	X	X	X		X			X				X			
MW-6	5/21/93	1715			X	Canton #6	1	X	X	X	X	X		X			X				X			

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K Little (Anal-Tech)	[illegible]	5/21/93	1930
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☒

Method of Shipment: [illegible] Airbill #:

Analytical Lab: Anal-Tech Location: Rockhouse

Lab Recipient: _____ (Signature) Date: Time:

Additional Remarks:
(Condition Upon Receipt, Etc.)

SEC DONOHUE
Environment & Infrastructure

REQUEST FOR ANALYSIS

• This form must accompany samples – Do Not send under separate cover

• Separate forms should be completed for each shipping container

PROJECT NAME: CHAMPION, INC CANTON
SECD PROJECT NO.: 86130
PROJECT MANAGER: JOE HAMRICK
SHIPPING DATE: 5-21-95
SHIPPING NO.:

CUSTODY NO.: OK
LAB NAME: ANALYTICAL
LOCATION: ROCK HILL SC
LAB CONTACT:
LAB PHONE: 803-329-9690

SAMPLE NO.	SAMPLE TYPE	SAMPLE VOLUME	PRESERVATIVE	REQUIRED TESTING PROGRAM	SPECIFIC INSTRUCTIONS
MW-12	AQUEOUS	500 ml	NONE	SULFATE / NITRATE	
MW-12	AQUEOUS	500 ml		TOTAL PHENOLS	
MW-12	AQUEOUS	250 ml	NONE	pH / CONDUCTIVITY	
MW-12	AQUEOUS	250 ml	~~CHLORINATED~~ NONE	TOC	
MW-12	AQUEOUS	250 ml		TOX	
MW-12	AQUEOUS	250 ml	NONE	TDS	
MW-12	AQUEOUS	1 l	NONE	CHLORIDE / FLORIDE	
MW-12	AQUEOUS	500 ml	NITRIC ACID	ICP SCAN	3030 C PREP
MW-6	AQUEOUS	500 ml	NONE	SULFATE / NITRATE	
MW-6	AQUEOUS	500 ml		TOTAL PHENOLS	
MW-6	AQUEOUS	250 ml	NONE	pH / CONDUCTIVITY	
MW-6	AQUEOUS	250 ml	NONE	TOC	
MW-6	AQUEOUS	250 ml		TOX	
MW-6	AQUEOUS	250 ml	NONE	TDS	
MW-6	AQUEOUS	1 l	NONE	CHLORIDE / FLORIDE	
MW-6	AQUEOUS	500 ml	NITRIC ACID	ICP SCAN	3030 C PREP

TURNAROUND TIME REQUIRED:
(Must be arranged with lab prior to shipment)
NORMAL ☒ _____ RUSH ☐ _____

BILLING ADDRESS: SEC DONOHUE INC.
P.O. BOX 24000
GREENVILLE, SOUTH CAROLINA 29616

HAZARD IDENTIFICATION: (Indicate if samples are hazardous materials and/or suspected to contain high levels of chemical compounds.)

A: LOW CONCENTRATION/ENVIRONMENTAL SAMPLES ONLY ☒ _____

B: MEDIUM OR HIGH CONCENTRATION SAMPLES/DOT HAZ MAT CLASSIFICATION ☐ _____ OTHER ☐ _____ (Please specify)

SAMPLE DISPOSAL : RETURN TO CLIENT ☐ _____ DISPOSAL BY LAB ☒ _____

FOR LAB USE ONLY RECEIVED BY: _____ DATE/TIME _____

Rev. 9/92

Original Report – White; Laboratory Copy – Yellow; File Copy – Pink

SEC DONOHUE
Environment & Infrastructure

REQUEST FOR ANALYSIS

- This form must accompany samples – Do Not send under separate cover
- Separate forms should be completed for each shipping container

PROJECT NAME: CHAMPION INT'L CANYON
SECD PROJECT NO.: 86130
PROJECT MANAGER: JOE HARRIGAN
SHIPPING DATE: 5.25.93
SHIPPING NO.: 6603,004202

CUSTODY NO.: —
LAB NAME: ANALYTICON
LOCATION: ROCK HILL, SC
LAB CONTACT: —
LAB PHONE: 803-1329-9690

SAMPLE NO.	SAMPLE TYPE	SAMPLE VOLUME	PRESERVATIVE	REQUIRED TESTING PROGRAM	SPECIFIC INSTRUCTIONS
MW-3A	AQUEOUS	500ml	~~NONE~~ ICE	SULFATE/NITRATE	
MW-3A	AQUEOUS	500ml		TOTAL PHENOLS	
MW-3A	AQUEOUS	250ml	~~NONE~~ ICE	pH/CONDUCTIVITY	
MW-3A	AQUEOUS	250ml	~~NONE~~ ICE	TOC	
MW-3A	AQUEOUS	250ml		TOX	
MW-3A	AQUEOUS	250ml	~~NONE~~ ICE	TDS	
MW-3A	AQUEOUS	1l	~~NONE~~ ICE	CHLORIDE/FLOURIDE	
MW-3A	AQUEOUS	500ml	NITRIC ACID	ICP SCAN	3030C PREP
MW-5A	AQUEOUS	500ml	ICE	SULFATE/NITRATE	
MW-5A	AQUEOUS	500ml		TOTAL PHENOLS	
MW-5A	AQUEOUS	250ml	ICE	pH/CONDUCTIVITY	
MW-5A	AQUEOUS	250ml	ICE	TOC	
MW-5A	AQUEOUS	250ml		TOX	
MW-5A	AQUEOUS	250ml	ICE	TDS	
MW-5A	AQUEOUS	1l	ICE	CHLORIDE/FLOURIDE	
MW-5A	AQUEOUS	500ml	NITRIC ACID	ICP SCAN	3030C PREP

TURNAROUND TIME REQUIRED:
(Must be arranged with lab prior to shipment)
NORMAL ☒ _____ RUSH ☐ _____

BILLING ADDRESS: SEC DONOHUE INC.
P.O. BOX 24000
GREENVILLE, SOUTH CAROLINA 29616

HAZARD IDENTIFICATION: (Indicate if samples are hazardous materials and/or suspected to contain high levels of chemical compounds.)
A: LOW CONCENTRATION/ENVIRONMENTAL SAMPLES ONLY ☒ _____
B: MEDIUM OR HIGH CONCENTRATION SAMPLES/DOT HAZ MAT CLASSIFICATION ☐ _____ OTHER ☐ _____ (Please specify)

SAMPLE DISPOSAL : RETURN TO CLIENT ☐ _____ DISPOSAL BY LAB ☒ _____

FOR LAB USE ONLY RECEIVED BY: _____ DATE/TIME _____

SEC DONOHUE
Environment & Infrastructure

Chain Of Custody Record

Page 1 of 1

SECD Project No. 150

Custody No —

Project/Location: [illegible] CANYON

Client Name: [illegible]

Collected By: [illegible]

F-Filtered P-Preserved

Analytical Program: CWA SDWA CMP RCRA

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	T (F P)	(F P)	(F P)	REMARKS
[illegible]	[illegible]	[illegible]			X	[illegible] 6	5	X	X	X	X	X		X			X				X			
16W-4	5-25-95	1425			X	LF #6	5	X	X	X	X	X		X			X				X			

Custody Transfers Prior to Receipt By Lab

Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
[illegible]	[illegible]	[illegible]93	

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☒

Method of Shipment: [illegible] Airbill #: 6605[illegible]091

Analytical Lab: [illegible] Location: Rock Hill, SC

Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

9/92

Original Report - White; Client Copy - Yellow; Laboratory Copy - Pink; File Copy - Gold

SEC DONOHUE
Environment & Infrastructure

• This form must accompany samples – Do Not send under separate cover

• Separate forms should be completed for each shipping container

PROJECT NAME: CHAMPION INK, CANTON, NC
SECD PROJECT NO.: 96130
PROJECT MANAGER: TOM HAMMOCK
SHIPPING DATE: 5.25.93
SHIPPING NO.: 6605 8841291

CUSTODY NO.: —
LAB NAME: ANALYTICOM
LOCATION: ROCK HILL, SC
LAB CONTACT: —
LAB PHONE: 803-329-9690

SAMPLE NO.	SAMPLE TYPE	SAMPLE VOLUME	PRESERVATIVE	REQUIRED TESTING PROGRAM	SPECIFIC INSTRUCTIONS
MW-13	AQUEOUS	500 ml	ICE ~~NONE~~	SULFATE/NITRATE	
MW-13	AQUEOUS	500 ml		TOTAL PHENOLS	
MW-13	AQUEOUS	250 ml	ICE ~~NONE~~	pH/CONDUCTIVITY	
MW-13	AQUEOUS	250 ml	ICE ~~NONE~~	TOC	
MW-13	AQUEOUS	250 ml		TOX	
MW-13	AQUEOUS	250 ml	ICE ~~NONE~~	TDS	
MW-13	AQUEOUS	1 l	ICE ~~NONE~~	CHLORIDE/FLOURIDE	
MW-13	AQUEOUS	500 ml	NITRIC ACID	ICP SCAN	3030C PREP
MW-4	AQUEOUS	500 ml	ICE	SULFATE/NITRATE	
MW-4	AQUEOUS	500 ml		TOTAL PHENOLS	
MW-4	AQUEOUS	250 ml ~~500 ml~~	ICE	pH/CONDUCTIVITY	
MW-4	AQUEOUS	250 ml	ICE	TOC	
MW-4	AQUEOUS	250 ml		TOX	
MW-4	AQUEOUS	250 ml	ICE	TDS	
MW-4	AQUEOUS	1 l	ICE	CHLORIDE/FLOURIDE	
MW-4	AQUEOUS	500 ml	NITRIC ACID	ICP SCAN	3030C PREP

TURNAROUND TIME REQUIRED:
(Must be arranged with lab prior to shipment)
NORMAL ☒ _____ RUSH ☐ _____

BILLING ADDRESS: SEC DONOHUE INC.
P.O. BOX 24000
GREENVILLE, SOUTH CAROLINA 29616

HAZARD IDENTIFICATION: (Indicate if samples are hazardous materials and/or suspected to contain high levels of chemical compounds.)

A: LOW CONCENTRATION/ENVIRONMENTAL SAMPLES ONLY ☒ _____

B: MEDIUM OR HIGH CONCENTRATION SAMPLES/DOT HAZ MAT CLASSIFICATION ☐ _____ OTHER ☐ _____ (Please specify)

SAMPLE DISPOSAL : RETURN TO CLIENT ☐ _____ DISPOSAL BY LAB ☒ _____

FOR LAB USE ONLY RECEIVED BY: _____ DATE/TIME _____

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Chain Of Custody Record

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SECD Project No. 96130

Custody No. A

Project/Location: CHAMPION CANYON

Client Name: CHAMPION TUZE

Collected By: K. [illegible]

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	(F P)	(F P)
5B2	[illegible]	1635			X	LF [illegible]	5	X	X	X	X	X		X			X				X		
5B3	2/[illegible]/93	1530			X	LF [illegible]	5	X	X	X	X	X		X			X				X		

F-Filtered P-Preserved

Analytical Program: CWA SDWA CMP RCRA

REMARKS

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.				
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☑

Method of Shipment: FEDEX Airbill #: 6617255901

Analytical Lab: [illegible] Location: [illegible]

Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

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SEC DONOHUE
Environment & Infrastructure

REQUEST FOR ANALYSIS

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This form must accompany samples
Do Not send under separate cover

Separate forms should be completed for each shipping container

PROJECT NAME: CHAMPION - GAFFNEY
SECD PROJECT NO.: 86130
PROJECT MANAGER: JOE HARRIGAN
SHIPPING DATE: 5-26-93
SHIPPING NO.: 6617255901

CUSTODY NO.: A
LAB NAME: ANALYTICAL
LOCATION: ROCK HILL, SC
LAB CONTACT:
LAB PHONE: 803-328-5310

SAMPLE NO.	SAMPLE TYPE	SAMPLE VOLUME	PRESERVATIVE	REQUIRED TESTING PROGRAM	SPECIFIC INSTRUCTIONS
SB2	AQUEOUS	500 ml	ICE	SULFATE / NITRATE	
SB2		500 ml		TP ~~PHOSPHATE~~ PHENOLS	
SB2		250 ml	ICE	pH / CONDUCTIVITY	
SB2		250 ml	ICE	TOC	
SB2		250 ml		TOX	
SB2		250 ml	ICE	TDS	
SB2		1 L	ICE	CHLORIDE / FLOURIDE	
SB2		500 ml	NITRIC ACID	ICP SCAN	3030C PREP
SB3	AQUEOUS	500 ml	ICE	SULFATE / NITRATE	
SB3		500 ml		TP PHENOLS	
SB3		250 ml	ICE	pH / CONDUCTIVITY	
SB3		250 ml	ICE	TOC	
SB3		250 ml		TOX	
SB3		250 ml	ICE	TDS	
SB3		1 L	ICE	CHLORIDE / FLOURIDE	
SB3		500 ml	NITRIC ACID	ICP SCAN	3030C PREP

TURNAROUND TIME REQUIRED:
(Must be arranged with lab prior to shipment)

NORMAL ☒ _____ RUSH ☐ _____

BILLING ADDRESS: SEC DONOHUE INC.
P.O. BOX 24000
GREENVILLE, SOUTH CAROLINA 29616

HAZARD IDENTIFICATION: (Indicate if samples are hazardous materials and/or suspected to contain high levels of chemical compounds.)

A: LOW CONCENTRATION/ENVIRONMENTAL SAMPLES ONLY ☒ _____

B: MEDIUM OR HIGH CONCENTRATION SAMPLES/DOT HAZ MAT CLASSIFICATION ☐ _____ OTHER ☐ _____ (Please specify)

SAMPLE DISPOSAL : RETURN TO CLIENT ☐ _____ DISPOSAL BY LAB ☒ _____

FOR LAB USE ONLY RECEIVED BY: _____ DATE/TIME _____

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SECD Project No 6130

Custody No. B

Project/Location: CHAMPION CANYON

Client Name: CHAMPION INC

Collected By: K [illegible]

SAMPLE ANALYSIS (x)

F-Filtered P-Preserved

Analytical Program: CWA SDWA CMP RCRA

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	(F P)	(F P)	(F P)	REMARKS
SC 3	5-26-93	1730			X	LF "5	[illegible]	X	X	X	X	X		X			X				Y				
SC 2	5-26-93	1705			Y	LF "5	[illegible]	X	X	Y	Y	Y		Y			Y				Y				

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K [illegible]	[illegible]	-93	1530
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☑

Method of Shipment: [illegible] Airbill #: 6617255556

Analytical Lab: [illegible] Location:

Lab Recipient: (Signature) Date: Time:

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

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Environment & Infrastructure

REQUEST FOR ANALYSIS

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PROJECT NAME: CHAMPION · CANTON
SECD PROJECT NO.: 56130
PROJECT MANAGER: JOE HARRIGAN
SHIPPING DATE: 5-26-93
SHIPPING NO.: 6617255516

CUSTODY NO.: 6B
LAB NAME: ANALYTIKEM
LOCATION: ROCK HILL, SC
LAB CONTACT:
LAB PHONE: 803-324-5310

SAMPLE NO.	SAMPLE TYPE	SAMPLE VOLUME	PRESERVATIVE	REQUIRED TESTING PROGRAM	SPECIFIC INSTRUCTIONS
5C3	AQUEOUS	500 ml	ICE	SULFATE/NITRATE	
5C3		500 ml		T. PHENOLS	
5C3		250 ml	ICE	pH/CONDUCTIVITY	
5C3		250 ml	ICE	TOC	
5C3		250 ml		TOX	
5C3		250 ml	ICE	TDS	
5C3		1 L	ICE	CHROMIUM/CHROMIUM	
5C3		500 ml	NITRIC ACID	ICP SCAN	3030C PREP
5C2	AQUEOUS	500 ml	ICE	SULFATE/NITRATE	
5C2		500 ml		T. PHENOLS	
5C2		250 ml	ICE	pH/CONDUCTIVITY	
5C2		250 ml	ICE	TOC	
5C2		250 ml		TOX	
5C2		250 ml	ICE	TDS	
5C2		1L ~~250 ml~~	~~ICE~~ ICE	CHROMIUM/CHROMIUM	
5C2		500 ml + 1	~~Ac~~ NITRIC ACID	ICP SCAN	3030C PREP
		~~500 ml~~			

TURNAROUND TIME REQUIRED:
(Must be arranged with lab prior to shipment)
NORMAL ☑ _____ RUSH ☐ _____

BILLING ADDRESS: SEC DONOHUE INC.
P.O. BOX 24000
GREENVILLE, SOUTH CAROLINA 29616

HAZARD IDENTIFICATION: (Indicate if samples are hazardous materials and/or suspected to contain high levels of chemical compounds.)

A: LOW CONCENTRATION/ENVIRONMENTAL SAMPLES ONLY ☑ _____

B: MEDIUM OR HIGH CONCENTRATION SAMPLES/DOT HAZ MAT CLASSIFICATION ☐ _____ OTHER ☐ _____ (Please specify)

SAMPLE DISPOSAL : RETURN TO CLIENT ☐ _____ DISPOSAL BY LAB ☑ _____

FOR LAB USE ONLY RECEIVED BY: _____ DATE/TIME _____

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SECD Project No. 6130

Custody No. C

Project/Location: CHAMPION CANYON

Client Name: CHAMPION INC

Collected By: K Voyles

F-Filtered P-Preserved

Analytical Program: CWA SDWA CMP RCRA

SAMPLE ANALYSIS (x)

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	(F P)	(F P)	REMARKS
5B1	5.26.1	1015			1	LF #5	5	X	X	X	X	X		X			X				X			
5C1	5.26.9	1130			1	LF #5	1																	

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K Voyles (Non Ent)	[illegible]	5.26.93	1130
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☒

Method of Shipment: FedEx Airbill #: 6617255 1590

Analytical Lab: Analytica Location: Berkeley, CA

Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

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SEC DONOHUE
Environment & Infrastructure

REQUEST FOR ANALYSIS

- This form must accompany samples – Do Not send under separate cover
- Separate forms should be completed for each shipping container

PROJECT NAME: CHAMPION - CANTON
SECD PROJECT NO.: 86139
PROJECT MANAGER: JOE HARRISON
SHIPPING DATE: 1-26-93
SHIPPING NO.: 6617255190

CUSTODY NO.: C
LAB NAME: ANALYTIKEM
LOCATION: FORT MILL, SC
LAB CONTACT: –
LAB PHONE: 803-324-5310

SAMPLE NO.	SAMPLE TYPE	SAMPLE VOLUME	PRESERVATIVE	REQUIRED TESTING PROGRAM	SPECIFIC INSTRUCTIONS
5B1	AQUEOUS	500 ml	ICE	SULFATE / NITRATE	
5B1		500 ml		T. PHENOLS	
5B1		250 ml	ICE	pH / CONDUCTIVITY	
5B1		250 ml	ICE	TOC	
5B1		250 ml		TOX	
5B1		250 ml	ICE	TDS	
5B1		1 l	ICE	CHLORIDE / FLOURIDE	
5B1		500 ml	NITRIC ACID	ICP SCAN	3030C PREP
5C1	AQUEOUS	500 ml	ICE	SULFATE / NITRATE	
5C1		500 ml		T. PHENOLS	
5C1		250 ml	ICE	pH / CONDUCTIVITY	
5C1		250 ml	ICE	TOC	
5C1		250 ml		TOX	
5C1		250 ml	ICE	TDS	
5C1		1 l	ICE	CHLORIDE / FLOURIDE	
5C1		500 ml	NITRIC ACID	ICP SCAN	3030C PREP

TURNAROUND TIME REQUIRED:
(Must be arranged with lab prior to shipment)
NORMAL ☒ _____ RUSH ☐ _____

BILLING ADDRESS: SEC DONOHUE INC.
P.O. BOX 24000
GREENVILLE, SOUTH CAROLINA 29616

HAZARD IDENTIFICATION: (Indicate if samples are hazardous materials and/or suspected to contain high levels of chemical compounds.)

A: LOW CONCENTRATION/ENVIRONMENTAL SAMPLES ONLY ☒ _____

B: MEDIUM OR HIGH CONCENTRATION SAMPLES/DOT HAZ MAT CLASSIFICATION ☐ _____ OTHER ☐ _____ (Please specify)

SAMPLE DISPOSAL : RETURN TO CLIENT ☐ _____ DISPOSAL BY LAB ☒ _____

FOR LAB USE ONLY RECEIVED BY: _____ DATE/TIME _____

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SECD Project No. 26130

Custody No. KD

Project/Location: CHAMPION CANTON NC

Client Name: CHAMPION INC

Collected By: K Vaile

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	(F P)	(F P)	REMARKS
MW-7A	5/27/93	1030			X	LF #6	9	X	X	X	X	X		X			X				X			
MW-8	5/27/93	1125			X	LF #6	9	X	X	X	X	X		X			X				X			

F-Filtered P-Preserved

Analytical Program: CWA SDWA CMP RCRA

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K Vaile (KVT)	FED EX	5-27-93	1530
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☒

Method of Shipment: FED EX Airbill #: 6617255 1753

Analytical Lab: Analytikem Location: Rockville MD

Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

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SEC DONOHUE
Environment & Infrastructure

REQUEST FOR ANALYSIS

- This form must accompany samples – Do Not send under separate cover
- Separate forms should be completed for each shipping container

PROJECT NAME: CHAMPION, CANTON NC
SECD PROJECT NO.: 86130
PROJECT MANAGER: JOE HARRIGAN
SHIPPING DATE: 5.27.93
SHIPPING NO.: 0617255853

CUSTODY NO.: D
LAB NAME: ANALYTICHEM
LOCATION: PORT HOLE SC
LAB CONTACT: —
LAB PHONE: 803 [illegible] - 5510

SAMPLE NO.	SAMPLE TYPE	SAMPLE VOLUME	PRESERVATIVE	REQUIRED TESTING PROGRAM	SPECIFIC INSTRUCTIONS
MW-7A	Aqueous	500 ml	ICE	SULFATE / NITRATE	
MW-7A		500 ml		T. PHENOLS	
MW-7A		250 ml	ICE	pH / CONDUCTIVITY	
MW-7A		250 ml	~~ICE~~ Sulfuric Acid	TOC	
MW-7A		250 ml	SULFURIC ACID	TOX	
MW-7A		250 ml	ICE	TDS	
MW-7A		1 l	ICE	CHLORIDE / FLOURIDE	
MW-7A		2 X 500 ml	NITRIC ACID	ICP SCAN	3030C PREP
MW-8	Aqueous	500 ml	ICE	SULFATE / NITRATE	
MW-8		500 ml		T. PHENOLS	
MW-8		250 ml	ICE	pH / CONDUCTIVITY	
MW-8		250 ml	~~ICE~~ Sulfuric Acid	TOC	
MW-8		250 ml	~~SULFURIC ACID~~ Sulfuric Acid	TOX	
MW-8		250 ml	ICE	TDS	
MW-8		1 l	ICE	CHLORIDE / FLOURIDE	
MW-8		2 X 500 ml	NITRIC ACID	ICP SCAN	3030C PREP

TURNAROUND TIME REQUIRED:
(Must be arranged with lab prior to shipment)

NORMAL ☒ _____ RUSH ☐ _____

BILLING ADDRESS: SEC DONOHUE INC.
P.O. BOX 24000
GREENVILLE, SOUTH CAROLINA 29616

HAZARD IDENTIFICATION: (Indicate if samples are hazardous materials and/or suspected to contain high levels of chemical compounds.)

A: LOW CONCENTRATION/ENVIRONMENTAL SAMPLES ONLY ☒ _____

B: MEDIUM OR HIGH CONCENTRATION SAMPLES/DOT HAZ MAT CLASSIFICATION ☐ _____ OTHER ☐ _____ (Please specify)

SAMPLE DISPOSAL : RETURN TO CLIENT ☐ _____ DISPOSAL BY LAB ☒ _____

FOR LAB USE ONLY RECEIVED BY: _____ DATE/TIME _____

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SECD Project No. 16130

Custody No. E

Project/Location: CHAMPION CANYON

Client Name: CHAMPION TMC

Collected By: K Voll

F-Filtered P-Preserved

Analytical Program: CWA SDWA CMP RCRA

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	(F P)	(F P)	REMARKS
MW-10	3/27/93	1355			Y	LF #6	9	Y	Y	Y	Y	Y		Y			Y				Y			
MW-9	3/27/93	1335			Y	LF #6	9	Y	Y	Y	Y	Y		Y			Y				Y			

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K Voll (Champion)	[illegible]	3/27/93	1530
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☑

Method of Shipment: Courier Airbill #: 6617255875

Analytical Lab: Analytikem Location: Rock Hill SC

Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

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V. Analytical Results (Cont'd)

General Chemistry

AnalytiKEM

Parameter	Sample Designation: Method Blank		Sample Designation: A83681-9 MW-2
Sulfate	10,000	U	1,400,000; 1,500,000 *
Chloride	1,000	U	350,000
Fluoride	50	U	6,200
Units	(ug/l)		(ug/l)

* Duplicate analysis.

VI. Quality Control Data

Analytic

Metals

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Arsenic	A83681-7	100	84	98	15	70-116	10
Arsenic	DI Water	100	106	--	--	70-116	10
Cadmium	A83681-6	300	97	101	4	66-110	4
Calcium	A83681-6	300	121	130	7	22-134	30
Chromium	A83681-6	300	99	101	2	72-106	4
Iron	A83681-6	300	99	101	2	65-109	15
Lead	A83681-7	100	90	93	3	65-110	4
Manganese	A83681-6	300	98	100	2	28-136	13
Mercury	A83681-9	20	101	100	1	63-129	5
Nickel	A83681-6	300	99	100	1	66-111	7
Selenium	A83681-7	100	96	100	4	75-125	30
Silver	A83681-6	300	32	30	6	10-131	30
Sodium	A83681-6	300	97	106	9	10-175	50
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 25 outside control limits

RPD: 1 out of 12 outside control limits

83681

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Environment & Infrastructure

Chain Of Custody Record

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SECD Project No 86130

Custody No 1

Project/Location: CHAMPION - CANTON

Client Name: CHAMPION

Collected By: K. VOYLES

	Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	(F P)	(F P)	(F P)
3	CLYDE BRIDGE	5-28-93	1330		X		PIGEON RIVER	1	X	X	X	X	X		X			X				X			
4	CHAMPION BRIDGE	5-28-93	1250		X		PIGEON RIVER	1	X	X	X	X	X		X			X				X			

F Filtered P Preserved

Analytical Program
CWA SDWA CMP RCRA

REMARKS

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K. Voyles (RUST)	FED EX	5-28-93	1500
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☑

Method of Shipment: FED EX Airbill #: 6665882076

Analytical Lab: ANALYTICON Location: ROCK HILL SC

Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

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SECD Project No 86130

Custody No H

Project/Location: CHAMPION - CANTON

Client Name: CHAMPION

Collected By: K. VOYLES

F Filtered P Preserved

Analytical Program
CWA SDWA CMP RCRA

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	(F P)	(F P)	REMARKS
Dawson Cr. Upstream	5-28-93	1420		Y		LF #6	8	X	X	X	X	X		X			X				X			
Dawson Cr. Upstream	5-28-93	1600		Y		LF #5	8	X	X	X	X	X		X			X				X			

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K Voyles (Rust)	FED EX	5-28-93	1800
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☒

Method of Shipment: FED EX Airbill #: 6605882076

Analytical Lab: Analytical Location: Rock Hill SC

Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

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VI. Quality Control Data (Cont'd)

AnalytiKEM

General Chemistry

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Phenolics	A83681-4	500	97	95	2	28-156	16
Nitrate-N	A83681-8	500	113	113	0	75-125	20
Sulfate	A83681-7	30,000	99	99	0	67-133	19
Chloride	A83681-5	20,000	98	98	0	49-146	18
Fluoride	A83681-6	133	79	85	7	75-125	20
Total Organic Carbon	A83681-3	20 +	98	102	4	29-180	36
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

+ (ug)

Recovery: 0 out of 12 outside control limits

RPD: 0 out of 6 outside control limits

83681

SEC DONOHUE
Environment & Infrastructure

Chain Of Custody Record

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SECD Project No. 86130

Custody No. 6

Project/Location: CHAMPION CANYON

Client Name: CHAMPION

Collected By: K. VOYLES

F-Filtered P Preserved

Analytical Program
CWA SDWA CMP RCRA

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	(F P)	(F P)	REMARKS
MW-14	5-28-93	0950			Y	LF #6	8	X	X	X	X	X		X			X				X			
MW-15	5-28-93	1040			Y	LF #6	8	X	X	X	X	X		X			X				X			

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K. Voyles (Russ)	FED EX	5-28-93	1500
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☑

Method of Shipment: FED EX Airbill #: 6605882076

Analytical Lab: ANALYTICHEM Location: ROCK HILL SC

Lab Recipient: _____ Date: _____ Time: _____
(Signature)

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

Rev. 9/92

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83681

SEC DONOHUE
Environment & Infrastructure

Chain Of Custody Record

Page 1 of 1

SECD Project No 6102

Custody No J

Project/Location: CHAMPION - CANTON

Client Name: CHAMPION

Collected By: K. VOREC

	Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	(F P)	(F P)	REMARKS
#7	Tower Cr. Downstream	5.28.93	1150		✓		~~A9~~ LF #6	8	✓	✓	✓	✓	✓		✓			✓				✓			
#8	Beaverdam Cr. Downstream	5.28.93	1520		✓		LF #5	8	✓	✓	✓	✓	✓		✓			✓				✓			
#9	MW-2	5.28.93	1630			✓	LF #6	3			✓	✓			✓										

F-Filtered P-Preserved

Analytical Program
CWA SDWA CMP RCRA

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K. Vorec (RWST)	FED EX	5.28.93	1900
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☑

Method of Shipment: FED EX Airbill #: 6605882076

Analytical Lab: ANALYTICON Location: ROCKHILL SC

Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

SAMPLE RECEIPT CHECKLIST

CLIENT: RUST E & I

PROJECT NAME: Champion Land Fill

LABORATORY NUMBER: ~~83682~~ 83681

1. ✓ Shipped
   ___ Hand Delivered
   Notes: ___

2. ✓ COC Present on Receipt
   ___ No COC
   Notes: ___

3. ___ COC Tape on Shipping Container
   ✓ No COC Tape on Shipping Container
   Notes: ___

4. ✓* Samples Broken/Leaking
   ✓ Samples Intact
   ___ Other (See Notes)
   Notes: * 1-950ml Unpr. on Beaver Dam Upstream & Beaver Dam Down. broken upon receipt.

5. ___ Ambient upon Receipt
   ✓ Chilled upon Receipt
   Notes: ___

6. ✓ Samples Preserved Correctly
   ___ Improper Preservatives
   ___ N/A (None Recommended)
   ___ Other (See Notes)
   Notes: ___

7. ✓ Received Within Holding Times
   ___ Not Received Within Holding Times
   ___ N/A (None Recommended)
   ___ Other (See Notes)
   Notes: ___

8. ___ COC Tapes on Samples
   ✓ No COC Tapes on Samples
   Notes: ___

9. ___ Discrepancies Between COC and Samples
   ✓ No Discrepancies Noted
   ___ N/A (No COC Received)
   Notes: ___

Additional Comments: 1-250ml w/Septa (For TOX) missing upon receipt for Beaver Dam Upstream (83681-6).

Inspected and Logged in by: S. Sawyer

Date/Time: 5/29/93 1220

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-43178

Received: 02 JUN 93

Purchase Order: RH3165

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 83681
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
43178-1	83681-1	05-28-93/0950
43178-2	83681-2	05-28-93/1040
43178-3	83681-3	05-28-93/1330
43178-4	83681-4	05-28-93/1250
43178-5	83681-5	05-28-93/1420

PARAMETER	43178-1	43178-2	43178-3	43178-4	43178-5
›tal Organic Halogen, mg/l	0.023	<0.010	0.43	0.44	<0.010

X B up

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRocne Avenue • Savannan, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-43178

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

Received: 02 JUN 93

Purchase Order: RH3165

CC: Sharon Burrell

Project: 83681
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
43178-6	83681-9	05-28-93/1520
43178-7	83681-7	05-28-93/1150
43178-8	83681-8	05-28-93/1630

PARAMETER	43178-6	43178-7	43178-8
Total Organic Halogen, mg/l	0.21*F14	<0.010	<0.010

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-43178

Received: 02 JUN 93

Purchase Order: RH3165

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 83681
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
43178-6	83681-9	05-28-93/1520
43178-7	83681-7	05-28-93/1150
43178-8	83681-8	05-28-93/1630

PARAMETER	43178-6	43178-7	43178-8
Total Organic Halogen, mg/l	0.21*F14	<0.010	<0.010

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-43178

Received: 02 JUN 93

Purchase Order: RH3165

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 83681
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
43178-9	Method Blank
43178-10	LCS (Mean % Recovery)
43178-11	LCS % RPD
43178-12	Date Analyzed

PARAMETER	43178-9	43178-10	43178-11	43178-12
Total Organic Halogen, mg/l	<0.010	85 %	7.1 %	06.10.93

Methods: EPA 40 CFR Part 136

*F14 = Repeated sample analysis demonstrates that the TOX amount on the secondary activated carbon column consistently exceeds 10 % of the two-column total TOX amount. This is apparently caused by weakly adsorbed organohalide components of the sample. Thus, the reported TOX concentration of this sample may be biased low.

Linda A. Wolfe

Linda A. Wolfe

Final Page Of Report

AnalytiKEM *An American NuKEM Company*

AnalytiKEM Inc.
454 S. Anderson Road, BTC 532
Rock Hill, SC 29730
803/329-9690

TEST REPORT NO. A83681, Supplemental

June 24, 1993

Prepared for:

Rust Environmental & Infrastructure
15 Brendan Way
Greenville, SC 29615

Attention: Joseph Harrigan

Project: Champion, Canton

Reviewed &
Approved by: _____

Name: Carmine M. Fiorglio

Title: QA/QC Manager

III. Sample Designations

AnalytiKEM Designation	Client Designation	Matrix	Date Sampled
A83681-5	Bowen Cr. Upstream	Aqueous	6/15/93
A83681-6	Beaver Dam Cr. Upstream	Aqueous	6/16/93
A83681-8	Beaver Dam Cr. Downstream	Aqueous	6/15/93

Note: Samples will be held for 30 days beyond the test report date unless otherwise requested.

IV. Methodology

AnalytiKEM

Metals

Method 3030C, Preliminary Treatment for Acid-Extractable Metals, Standard Methods for the Examination of Water and Wastewater, APHA, 18th Edition, 1992.

Method 3010, Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by Flame Atomic Absorption Spectroscopy or Inductively Coupled Plasma Spectroscopy, Test Methods for Evaluating Solid Waste. Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 6010, Inductively Coupled Plasma Atomic Emission Spectroscopy, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

General Chemistry

Method 354.1, Nitrogen, Nitrite (Spectrophotometric), Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

V. Analytical Results

Metals

Parameter	Sample Designation: Method Blank 1	A83681-5 Bowen Cr. Upstream	A83681-8 Beaver Dam Downstream
Sodium, total	5,000 U	5,300	5,800
Units	(ug/l)	(ug/l)	(ug/l)

Parameter	Sample Designation: Method Blank 2	A83681-6 Beaver Dam Cr.Upstream
Sodium, total	5,000 U	7,700
Units	(ug/l)	(ug/l)

V. Analytical Results (Cont'd)

AnalytiKEM

General Chemistry

Parameter	Sample Designation: Method Blank	Sample Designation: A83681-6 Beaver Dam Cr.Upstream
Nitrite-N	20 U	20 U
Units	(ug/l)	(ug/l)

VI. Quality Control Data

AnalytiK

Metals

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Sodium	A83679-3	300	92	109	17	10-175	50
Sodium	A83679-4	100	118	111	6	10-175	50
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of - outside control limits

RPD: 0 out of 2 outside control limits

VI. Quality Control Data (Cont'd)

AnalytiKEM

General Chemistry

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Sample Spiked A83679-6

Parameter	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Nitrite-N	100	102	101	1	81-110	8
Units	(ppb)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 2 outside control limits

RPD: 0 out of 1 outside control limits

SEC DONOHUE
Environment & Infrastructure

Chain Of Custody Record

Page 1 of 1

SECD Project No. 86130.100

Custody No. ~~14~~ 1

Project/Location: CHAMPION, CANTON

Client Name: CHAMPION, INTL

Collected By: K. VOYLES

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	NITRATE (F P)	TDS (F P)	(F P)	REMARKS
BEAVERDAM DOWNSTREAM	6-15-93	1010		X		LF#5 BEAVERDAM CR. DOWNSTREAM	1							X							X	X		
MW-1A	6-15-93	1225			X	LF#6 MW-1A	2														X	X		
MW-7A	6-15-93	1315			X	LF#6 MW-7A	3							X							X	X		
BOWEN CR. UPSTREAM	6-15-93	1340		X		LF#6 BOWEN CR. UPSTREAM	1							X										
MW-11	6-15-93	1420			X	LF#6 MW-11	2														X	X		
MW-10	6-15-93	1525			X	LF#6 MW-10	3							X							X	X		
MW-9	6-15-93	1630			X	LF#6 MW-9	3							X							X	X		

F-Filtered P-Preserved

Analytical Program: CWA SDWA CMP RCRA

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K. Voyles (KUST)	FED EX	6-15-93	1800
2.	Fed Ex	Skip Sawyer	6/16/93	1100
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☒

Method of Shipment: FED EX Airbill #: 9931529005

Analytical Lab: ANALYTECHEM Location: ROCK HILL SC

Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks: (Condition Upon Lab Receipt, Etc.)

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SAMPLE RECEIPT CHECKLIST

CLIENT: Rust

PROJECT NAME: Champion Landfill LABORATORY NUMBER: 836810

1. ✓ Shipped
   Hand Delivered
   Notes:

2. ✓ COC Present on Receipt
   No COC
   Notes:

3. ✓ COC Tape on Shipping Container
   No COC Tape on Shipping Container
   Notes:

4. ✓ Samples Broken/Leaking
   Samples Intact
   Other (See Notes)
   Notes:

5. ✓ Ambient upon Receipt
   Chilled upon Receipt
   Notes:

6. ✓ Samples Preserved Correctly
   Improper Preservatives
   N/A (None Recommended)
   Other (See Notes)
   Notes:

7. ✓ Received Within Holding Times
   Not Received Within Holding Times
   N/A (None Recommended)
   Other (See Notes)
   Notes:

8. ✓ COC Tapes on Samples
   No COC Tapes on Samples
   Notes:

9. ✓ Discrepancies Between COC and Samples
   No Discrepancies Noted
   N/A (No COC Received)
   Notes:

Additional Comments:

Inspected and Logged in by: [signature]
Date/Time: 6/17/93 2300

AnalytiKEM *An American NuKEM Company*

AnalytiKEM Inc.
454 S. Anderson Road, BTC 532
Rock Hill, SC 29730
803/329-9690

TEST REPORT NO. A83672, Supplemental

June 24, 1993

Prepared for:

Rust Environmental & Infrastructure
15 Brendan Way
Greenville, SC 29615

Attention: Joseph Harrigan

Project: Champion, Canton

Reviewed &
Approved by: _____

Name: Carmine M. Fiorigliio

Title: QA/QC Manager

III. Sample Designations

AnalytiKEM

AnalytiKEM Designation	Client Designation	Matrix	Date Sampled
A83672-4	5C1	Aqueous	6/16/93

Note: Samples will be held for 30 days beyond the test report date unless otherwise requested.

IV. Methodology

AnalytiKEM

General Chemistry

Method 354.1, Nitrogen, Nitrite (Spectrophotometric), Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

V. Analytical Results

General Chemistry

Parameter	Sample Designation: Method Blank	Sample Designation: A83672-4 5C1
Nitrite-N	20 U	20 U
Units	(ug/l)	(ug/l)

VI. Quality Control Data (Cont'd)

AnalytiKEM

General Chemistry

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Sample Spiked A83679-6

Parameter	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Nitrite-N	100	102	101	1	81-110	8
Units	(ppb)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 2 outside control limits

RPD: 0 out of 1 outside control limits

836130 0

Page 1 of 1

SEC DONOHUE
Environment & Infrastructure

Chain Of Custody Record

SECD Project No. 86130.150
Custody No. 2

Project/Location: CHAMPION, CANTON
Client Name: CHAMPION, INTL
Collected By: K. VOYLES

F-Filtered P-Preserved

Analytical Program
CWA SDWA CMP RCRA

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	Nitrate (F P)	(F P)	REMARKS
~~MW-8~~	~~6-16-93~~	~~1055~~			~~Y~~	~~LF #6 MW-8~~	~~6~~			~~X~~	~~X~~										~~X~~	~~X~~		~~836790-4~~
5C1	6-16-93	1210			Y	LF #5 5C1	1															X		836720-4
~~DONNELLY CR UPSTREAM~~	~~6-16-93~~	~~1220~~			~~Y~~	~~LF #5 DONNELLY CR~~	~~3~~			~~X~~				~~X~~								~~X~~		~~836810-6~~

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K. Voyles (RUST)	FED EX	6-16-93	13:45
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☑
Method of Shipment: FED EX Airbill #: 9931528924
Analytical Lab: ANALYTIKON Location: ROCK HILL SC
Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

Rev. 9/92

Original Report - White; Client Copy - Yellow; Laboratory Copy - Pink; File Copy - Gold

SAMPLE RECEIPT CHECKLIST

CLIENT: Rust E&I

PROJECT NAME: Champion Landfill

LABORATORY NUMBER: 836720

1. ✓ Shipped
   ___ Hand Delivered
   Notes: ___

2. ✓ COC Present on Receipt
   ___ No COC
   Notes: ___

3. ✓ COC Tape on Shipping Container
   ___ No COC Tape on Shipping Container
   Notes: ___

4. ___ ~~Samples Broken/Leaking~~
   ✓ ~~Samples Intact~~
   ___ Other (See Notes)
   Notes: ___

5. ✓ Ambient upon Receipt
   ___ Chilled upon Receipt
   Notes: ___

6. ___ Samples Preserved Correctly
   ___ Improper Preservatives
   ✓ N/A (None Recommended)
   ___ Other (See Notes)
   Notes: ___

7. ✓ Received Within Holding Times
   ___ Not Received Within Holding Times
   ___ N/A (None Recommended)
   ___ Other (See Notes)
   Notes: ___

8. ___ COC Tapes on Samples
   ✓ No COC Tapes on Samples
   Notes: ___

9. ___ Discrepancies Between COC and Samples
   ___ No Discrepancies Noted
   ___ N/A (No COC Received)
   Notes: ___

Additional Comments: ___

Inspected and Logged in by: [signature]

Date/Time: 6/17/93 22:00

SAMPLE RECEIPT CHECKLIST

CLIENT: Rust Env. Infra

PROJECT NAME: Champion Landfill

LABORATORY NUMBER: 836790

1. ✓ Shipped
   ___ Hand Delivered
   Notes: ___

2. ✓ COC Present on Receipt
   ___ No COC
   Notes: ___

3. ✓ COC Tape on Shipping Container
   ___ No COC Tape on Shipping Container
   Notes: ___

4. ✓ Samples Broken/Leaking
   ✓ Samples Intact
   ___ Other (See Notes)
   Notes: ___

5. ___ Ambient upon Receipt
   ✓ Chilled upon Receipt
   Notes: ___

6. ___ Samples Preserved Correctly
   ___ Improper Preservatives
   ✓ N/A (None Recommended)
   ___ Other (See Notes)
   Notes: ___

7. ✓ Received Within Holding Times
   ___ Not Received Within Holding Times
   ___ N/A (None Recommended)
   ___ Other (See Notes)
   Notes: ___

8. ___ COC Tapes on Samples
   ✓ No COC Tapes on Samples
   Notes: ___

9. ✓ Discrepancies Between COC and Samples
   ___ No Discrepancies Noted
   ___ N/A (No COC Received)
   Notes: ___

Additional Comments: ___

Inspected and Logged in by: [signature]

Date/Time: 4/16/96 21:00

SEC DONOHUE
Environment & Infrastructure

Chain Of Custody Record

Page 1 of 1

SECD Project No 6150.150

Custody No. 2

Project/Location: CHAMPION, CANTON

Client Name: CHAMPION INTL.

Collected By: K VOLKES

F-Filtered P-Preserved

Analytical Program: CWA SDWA CMP RCRA

Sample ID	Date	Time	Comp	Grab	Well	Sample Location	# Of Containers	pH, Sp. Cond.	TOC (F P)	TOX	Cl, Fl, SO4 (F)	NITRATES (F P)	VOC	METALS (F P)	PESTICIDE	HERBICIDE	PHENOL (P)	ACID/B/N Ext.	COLIFORM (P)	CYANIDE (P)	TDS (F P)	NITRATE (F P)	(F P)	REMARKS
MW-8	6.16.93	1055			Y	LF #6 MW-8	6			X	X										X	X		836790-4
~~SC1~~	~~6.16.93~~	~~1210~~			Y	~~LF #5 SC1~~	~~1~~															X		~~836790-4~~
~~CANTON CA~~ CANTON	6.16.93	1220		Y		~~LF #5~~ CANTON CA	3			X				X								X		~~836810-6~~

Custody Transfers Prior to Receipt By Lab

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K Volk (RVST)	FED EX	6.16.93	1515
2.				
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☑

Method of Shipment: FED EX Airbill #: 9931528924

Analytical Lab: ANALYTICON Location: ROCK HILL SC

Lab Recipient: _____ (Signature) Date: _____ Time: _____

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

VI. Quality Control Data (Cont'd)

AnalytiKEM

General Chemistry

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Nitrite-N	A83679-6	100	102	101	1	81-110	8
Sulfate	A83681-7	30,000	99	99	0	67-133	19
Chloride	A75638-Comp	20,000	96	96	0	49-146	18
Fluoride	A83681-6	133	79	85	7	75-125	20
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 8 outside control limits

RPD: 0 out of 4 outside control limits

VI. Quality Control Data

AnalytiKEM

Metals

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Iron	A83679-4	300	99	97	2	65-109	15
Iron	A83679-3	300	93	107	14	65-109	15
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 4 outside control limits

RPD: 0 out of 2 outside control limits

V. Analytical Results (Cont'd)

AnalytiKEM

General Chemistry

Parameter	Method Blank	A83679-1 MW-10	A83679-2 MW-9	A83679-3 MW-7A
	Sample Designation			
Total Dissolved Solids	10,000 U	37,000	48,000	240,000
Nitrite-N	20 U	20 U	20 U	20 U
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)

Parameter	Method Blank	A83679-4 MW-8
	Sample Designation	
Nitrite-N	20 U	33
Sulfate	10,000 U	20,000
Chloride	1,000 U	1,500
Fluoride	50 U	130
Total Dissolved Solids	10,000 U	91,000
Units	(ug/l)	(ug/l)

Parameter	Method Blank	A83679-5 MW-11	A83679-6 MW-1A
	Sample Designation		
Total Dissolved Solids	10,000 U	81,000	52,000
Nitrite-N	20 U	20 U	20 U
Units	(ug/l)	(ug/l)	(ug/l)

* Duplicate analysis.

V. Analytical Results

Metals

Sample Designation

Parameter	Method Blank	A83679-1 MW-10	A83679-2 MW-9
Iron, total	100 U	1,100	3,100
Units	(ug/l)	(ug/l)	(ug/l)

Sample Designation

Parameter	Method Blank	A83679-3 MW-7A	A83679-4 MW-8
Iron, total	100 U	3,500; 3,500 *	6,200; 6,100 *
Units	(ug/l)	(ug/l)	(ug/l)

Sample Designation

Parameter	Method Blank	A83679-5 MW-11	A83679-6 MW-1A
Iron, total	100 U	3,100	15,000
Units	(ug/l)	(ug/l)	(ug/l)

* Duplicate analysis

AnalytiKEM *An American NuKEM Company*

AnalytiKEM Inc.
454 S. Anderson Road, BTC 532
Rock Hill, SC 29730
803/329-9690

TEST REPORT NO. A83679, Supplemental

June 25, 1993

Prepared for:

Rust Environmental & Infrastructure
15 Brendan Way
Greenville, SC 29615

Attention: Joseph Harrigan

Project: Champion, Canton

Reviewed &
Approved by: _____

Name: Carmine M. Fioriglio

Title: QA/QC Manager

AnalytiKEM

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AnalytiKEM

I. Certification

AnalytiKEM, Inc.
Current Certifications/Regulatory Approvals

Tabulated below are the current laboratory certifications that are held by each AnalytiKEM Laboratory.

Cherry Hill, NJ		Rock Hill, SC		Houston Analytical, TX	
State	Cert #	State	Cert #	State	Cert #
Arkansas	*	S. Carolina	46067	N. Dakota	R-006
Connecticut	PH-0715	N. Carolina	316	Oklahoma	8403
Florida	880985G	New Jersey	79795	Texas Water Commission *	
Massachusetts	NJ117			Louisiana	92-07
New Jersey	04012			S. Carolina	82011
New York	10815			N. Carolina	367
N. Carolina	258			Wisconsin	998010530
N. Dakota	R-038			New Jersey	82869
Pennsylvania	68366			West Virginia	*
S. Carolina	94004			Alaska UST	AKL008
Tennessee	02908				
Vermont	*				
Oklahoma	9107				

* No certification numbers are issued for these states.

II. Definition of Terms

AnalytiKEM

Term	Definition
D	Detected; result must be greater than zero.
DI	Deionized Water
J	Compound was detected at levels below the practical quantitation limit. The level reported is approximate.
MS/MSD	Matrix Spike/Matrix Spike Duplicate.
NA	Analysis not applicable to the sample matrix.
ND	Not Detected
NR	Not Requested
NTU	Nephelometric Turbidity Units
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
U	Compound was analyzed for but not detected. The preceding number is the practical quantitation limit for the compound.
ppb	Parts-per-billion; may be converted to ppm by dividing by 1,000.
ppm	Parts-per-million; may be converted to ppb by multiplying by 1,000.
ug/l	Micrograms of constituent per liter of sample; equivalent to parts-per-billion.
ug/kg	Micrograms of constituent per kilogram of sample; equivalent to parts-per-billion.
ug/kg dw	Micrograms of constituent per kilogram of sample reported on a dry weight basis.
CCC	Calibration Check Compound; used to verify the precision of a GC/MS calibration curve.
SPCC	System Performance Check Compound; used to verify the correct operation of a GC/MS instrument.
PQL	Practical Quantitation Limit; the minimum level at which compounds can be dependably quantitated.
B	Analyte detected in associated blank as well as the sample. It indicates possible/probable blank contamination.

III. Sample Designations

AnalytiKEM

AnalytiKEM Designation	Client Designation	Matrix	Date Sampled
A83679-1	MW-10	Aqueous	6/15/93
A83679-2	MW-9	Aqueous	6/15/93
A83679-3	MW-7A	Aqueous	6/15/93
A83679-4	MW-8	Aqueous	6/16/93
A83679-5	MW-11	Aqueous	6/15/93
A83679-6	MW-1A	Aqueous	6/15/93

Note: Samples will be held for 30 days beyond the test report date unless otherwise requested.

AnalytiKEM

IV. Methodology

Metals

Method 3030C, Preliminary Treatment for Acid-Extractable Metals, Standard Methods for the Examination of Water and Wastewater, APHA, 18th Edition, 1992.

Method 6010, Inductively Coupled Plasma Atomic Emission Spectroscopy, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

General Chemistry

Method 160.1, Total Dissolved Solids (Dried at 180 degrees C), Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

Method 354.1, Nitrogen, Nitrite (Spectrophotometric), Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

Method 9038, Sulfate (Turbidimetric), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 9252, Chloride (Titrimetric, Mercuric Nitrate), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, 1986, with all promulgated revisions.

Method 340.2, Fluoride (Potentiomentric, Ion Selective Electrode), Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1979.

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46431

Received: 13 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46431-1	84412-22	11-11-93
46431-2	84412-23	11-11-93
46431-3	84412-24	11-11-93
46431-4	84412-25	11-11-93
46431-5	84412-26	11-11-93

PARAMETER	46431-1	46431-2	46431-3	46431-4	46431-5
Total Organic Halogen, mg/l	0.22	<0.010	<0.010	<0.010	<0.010
	MW-2	MW-15	MW-1A	MW-5A	MW-3A

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LOG NO: S3-46431

Received: 13 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46431-6	84412-27	11-11-93

PARAMETER	46431-6
Total Organic Halogen, mg/l	0.14

AW-13

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LOG NO: S3-46431

Received: 13 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
46431-7	Method Blank
46431-8	LCS/LCS Duplicate % Recovery
46431-9	LCS % RPD
46431-10	Date Analyzed

PARAMETER	46431-7	46431-8	46431-9	46431-10
Total Organic Halogen, mg/l	<0.010	91/100 %	9.4 %	11.24.93

Methods: EPA 40 CFR Part 136

Linda A. Wolfe

Linda A. Wolfe

Final Page Of Report

AnalytiKEM An [illegible]ican NuKEM Company AB# 7125344225 **JOB #** 4412

☐ 28 Springdale Road
Cherry Hill, New Jersey 08003
(609) 751-1122 • (215) 923-2068
Fax: (609) 751-0824

☐ 2925 Richmond Avenue
Houston, Texas 77098
(713) 520-1495
Fax: (713) 523-7107

Analysis Request and Chain-of-Custody

☑ 2324 Vernsdale Road
Rock Hill, South Carolina 29730
(803) 324-5310
Fax: (803) 324-3982

Client: Analytikem Project: 84412 AnalytiKEM Contact: Patti de Andino

LAB I.D. NO.	FIELD SAMPLE I.D. NO.	DATE	USE 24 HR. CLOCK TIME	MATRIX	40 ml vials	950 ml Org. Pres.	ml Unpres.	ml Unpres.	ml HNO_3	250 ml H_2SO_4	ml H_2SO_4	ml NaOH				ANALYSIS REQUESTED PARAMETERS
MW-2	84412-22	11/11/93	0845	Water						1						TOX
MW-15	-23		0950							1						
MW-1A	-24		1045							1						
MW-5A	-25		1130							1						
MW-3A	-26		1215							1						
MW-13	-27		1300							1						
																Results Due By: 12-2-93

1. Field Measurements:
   Data Sheets: Y N
   Filtered: Y Not Required
2. Chain of Custody
   Seal No. _____

II. Field Conditions/Comments: _____

III. Special Instructions: _____
(Detection Limits, Data Package, etc.)

Relinquished By:	Date/Time (use 24 hr. clock)	Received By:	Date/Time (use 24 hr. clock)
Print Name: Skip Sawyer	11/12/93 1700	Print Name: FED EX	11/12/93 1700
Signature: Skip Sawyer		Signature:	
Print Name: FED EX	11/13/93	Print Name: L. Bonds	11-13-93 10:45 am
Signature:		Signature: D. Bonds 52-46431	

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46473

Received: 16 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46473-1	84412-18	11-12-93

PARAMETER	46473-1
Total Organic Halogen, mg/l	<0.010

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LOG NO: S3-46473

Received: 16 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
46473-2	Method Blank
46473-3	LCS/LCS Duplicate % Recovery
46473-4	LCS % RPD
46473-5	Date Analyzed

PARAMETER	46473-2	46473-3	46473-4	46473-5
Total Organic Halogen, mg/l	<0.010	91/100 %	9.4 %	11.24.93

Methods: EPA 40 CFR Part 136

Linda A. Wolfe

Linda A. Wolfe

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AnalytiKEM An American NuKEM Company AB# 7125344214 JOB # 84412

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Fax: (609) 751-0824

☐ 2925 Richmond Avenue
Houston, Texas 77098
(713) 520-1495
Fax: (713) 523-7107

Analysis Request and Chain-of-Custody

☑ 2324 Vernsdale Road
Rock Hill, South Carolina 29730
(803) 324-5310
Fax: (803) 324-3982

Client: Analytikem Project: 84412 AnalytiKEM Contact: Patti de Andino

LAB I.D. NO.	FIELD SAMPLE I.D. NO.	DATE	USE 24 HR. CLOCK TIME	MATRIX	40 ml vials	950 ml Org. Pres.	ml Unpres.	ml Unpres.	ml HNO_3	250 ml H_2SO_4 w/ Bisulfate	ml H_2SO_4	ml NaOH				ANALYSIS REQUESTED PARAMETERS
BD-4P	84412-18	11/12/93	1520	Water						1						TOX
																Results Due By: 12-2-93

1. Field Measurements:
   Data Sheets: Y N
   Filtered: Y Not Required
2. Chain of Custody
   Seal No. _____

II. Field Conditions/Comments: _____

III. Special Instructions: _____
(Detection Limits, Data Package, etc.)

Relinquished By:	Date/Time (use 24 hr. clock)	Received By:	Date/Time (use 24 hr. clock)
Print Name: Skip Sawyer	11/15/93 1700	Print Name: Fed Ex	11/15/93 1700
Signature: Skip Sawyer		Signature:	
Print Name: Fed Ex	11/16/93	Print Name: L. Baker 46473	111
Signature:		Signature:	

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& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46400

Received: 12 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46400-1	84412-13	11-10-93
46400-2	84412-14	11-10-93
46400-3	84412-15	11-10-93
46400-4	84412-16	11-10-93
46400-5	84412-17	11-10-93

PARAMETER	46400-1	46400-2	46400-3	46400-4	46400-5
Total Organic Halogen, mg/l	0.89	0.92	<0.010	<0.010	<0.010
	Clyde Br.	Fibrville Br.	Bowen Dn.	Bowen Up	Beaver Dam Dn.

Nov 93

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LOG NO: S3-46400

Received: 12 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46400-6	84412-19	11-10-93
46400-7	84412-20	11-10-93
46400-8	84412-21	11-10-93

PARAMETER	46400-6	46400-7	46400-8
Total Organic Halogen, mg/l	<0.010	<0.010	<0.010
	MW-8	MW-12	MW-14

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LOG NO: S3-46400

Received: 12 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
46400-9	Method Blank
46400-10	LCS/LCS Duplicate % Recovery
46400-11	LCS % RPD
46400-12	Date Analyzed

PARAMETER	46400-9	46400-10	46400-11	46400-12
Total Organic Halogen, mg/l	<0.010	91/100 %	9.4 %	11.24.93

Methods: EPA 40 CFR Part 136

Linda A. Wolfe

Linda A. Wolfe

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AnalytiKEM An A[illegible]can NuKEM Company AB# 7125344236 **JOB #** [illegible]412

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Fax: (609) 751-0824

☐ 2925 Richmond Avenue
Houston, Texas 77098
(713) 520-1495
Fax: (713) 523-7107

Analysis Request and Chain-of-Custody

☑ 2324 Vernsdale Road
Rock Hill, South Carolina 29730
(803) 324-5310
Fax: (803) 324-3982

Client: Analytikem Project: 84412 AnalytiKEM Contact: Patti de Andino

LAB I.D. NO.	FIELD SAMPLE I.D. NO.	DATE	USE 24 HR. CLOCK TIME	MATRIX	40 ml vials	950 ml Org. Pres.	ml Unpres.	ml Unpres.	ml HNO_3	250 ml H_2SO_4 to pH<2	ml H_2SO_4	ml NaOH				ANALYSIS REQUESTED PARAMETERS
C Br	84412 - 13	11/10/93	0815	Water						1						TOX
FV Br	-14		0845							1						
B. dn	-15		1030							1						
B. up	-16		1110							1						
BD dn	-17		1140							1						
NW-8	-19		1405 ~~1200~~							1						
NW-12	-20		1530							1						
NW-14	-21		1630							1						

RESULTS DUE BY 12-2-93

1. Field Measurements:
   Data Sheets: Y N
   Filtered: Y Not Required
2. Chain of Custody
   Seal No. _____

II. Field Conditions/Comments: _____

III. Special Instructions: _____
(Detection Limits, Data Package, etc.)

Relinquished By:	Date/Time (use 24 hr. clock)	Received By:	Date/Time (use 24 hr. clock)
Print Name: Skip Sawyer Signature: Skip Sawyer	11/11/93 1700	Print Name: FED EX Signature:	11/11/93 1700
Print Name: FED EX Signature:	11/12/93	Print Name: L. Baker Signature: L Baker 4/6400	11/12/93 10:21

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46377

Received: 11 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46377-1	84412-7	11-09-93
46377-2	84412-8	11-09-93
46377-3	84412-9	11-09-93
46377-4	84412-10	11-09-93
46377-5	84412-11	11-09-93

PARAMETER	46377-1	46377-2	46377-3	46377-4	46377-5
Total Organic Halogen, mg/l	<0.010	<0.010	0.025	0.046	0.086
	5B1	5C1	5C2	5B2	5B3

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& ENVIRONMENTAL SERVICES, INC.

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LOG NO: S3-46377

Received: 11 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46377-6	84412-12	11-09-93

PARAMETER	46377-6
Total Organic Halogen, mg/l	0.063

SC3

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46377

Received: 11 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
46377-7	Method Blank
46377-8	LCS/LCS Duplicate % Recovery
46377-9	LCS % RPD
46377-10	Date Analyzed

PARAMETER	46377-7	46377-8	46377-9	46377-10
Total Organic Halogen, mg/l	<0.010	90/92 %	2.2 %	11.23.93

Methods: EPA 40 CFR Part 136

Linda A. Wolfe

Linda A. Wolfe

Final Page Of Report

AnalytiKEM An American NuKEM Company AB# 712534240 **JOB #** 44412

☐ 28 Springdale Road
Cherry Hill, New Jersey 08003
(609) 751-1122 • (215) 923-2068
Fax: (609) 751-0824

☐ 2925 Richmond Avenue
Houston, Texas 77098
(713) 520-1495
Fax: (713) 523-7107

☑ 2324 Vernsdale Road
Rock Hill, South Carolina 29730
(803) 324-5310
Fax: (803) 324-3982

Analysis Request and Chain-of-Custody

Client: Analytikem Project: 84412 AnalytiKEM Contact: Pati de Andino

LAB I.D. NO.	FIELD SAMPLE I.D. NO.	DATE	USE 24 HR. CLOCK TIME	MATRIX	40 ml vials	950 ml Org. Pres.	ml Unpres.	ml Unpres.	ml HNO_3	250 ml H_2SO_4 w/ Sulfate	ml H_2SO_4	ml NaOH				ANALYSIS REQUESTED PARAMETERS
SB1	84412-7	11/9/93	0900	Water						1						TOX
SC1	-8		1010							1						
SC2	-9		1100							1						
SB2	-10		1300							1						
SB3	-11		1400							1						
SC3	-12		1230							1						
																Results Due By 12-2-93

1. Field Measurements:
   Data Sheets: Y N
   Filtered: Y Not Required
2. Chain of Custody
   Seal No. _____

II. Field Conditions/Comments: _____

III. Special Instructions: _____
(Detection Limits, Data Package, etc.)

Relinquished By:	Date/Time (use 24 hr. clock)	Received By:	Date/Time (use 24 hr. clock)
Print Name: Skip Sawyer	11/10/93 1700	Print Name: Fed Ex	11/10/93 1700
Signature: Skip Sawyer		Signature:	
Print Name: Fed Ex	11/11/93	Print Name: L. Baker	11/11/93 10 09
Signature:		Signature: L Baker 46377	

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46340

Received: 10 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46340-1	84412-1	11-08-93
46340-2	84412-2	11-08-93
46340-3	84412-3	11-08-93
46340-4	84412-4	11-08-93
46340-5	84412-5	11-08-93

PARAMETER	46340-1	46340-2	46340-3	46340-4	46340-5
Total Organic Halogen, mg/l	0.030	<0.010	<0.010	<0.010	0.035
	mw-4	mw-10	mw-9	mw-11	mw-7A

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46340

Received: 10 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46340-6	84412-6	11-08-93

PARAMETER	46340-6
Total Organic Halogen, mg/l	0.035

MW-6

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46340

Received: 10 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
46340-7	Method Blank
46340-8	LCS/LCS Duplicate % Recovery
46340-9	LCS % RPD
46340-10	Date Analyzed

PARAMETER	46340-7	46340-8	46340-9	46340-10
Total Organic Halogen, mg/l	<0.010	99/91 %	8.4 %	11.22.93

Methods: EPA 40 CFR Part 136

Linda A. Wolfe

Linda A. Wolfe

Final Page Of Report

AnalytiKEM An American NuKEM Company AB# 7125 34425 / JOB 84412

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Cherry Hill, New Jersey 08003
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(713) 520-1495
Fax: (713) 523-7107

Analysis Request and Chain-of-Custody

☑ 2324 Vernsdale Road
Rock Hill, South Carolina 29730
(803) 324-5310
Fax: (803) 324-3982

Client: AnalytiKem Project: 84412 AnalytiKEM Contact: Patti de Andino

LAB I.D. NO.	FIELD SAMPLE I.D. NO.	DATE	USE 24 HR. CLOCK TIME	MATRIX	40 ml vials	950 ml Org. Pres.	ml Unpres.	ml Unpres.	ml HNO_3	250 ml H_2SO_4	ml H_2SO_4	ml NaOH				ANALYSIS REQUESTED PARAMETERS
MW-4	84412-1	11/8/93	1050							1						TOX
MW-10	-2		1215							1						
MW-9	-3		1350							1						
MW-11	-4		1300							1						
MW-9A	-5		1555							1						
MW-6	-6		1635							1						
																Results Due By 12-2-93

1. Field Measurements:
   Data Sheets: Y N
   Filtered: Y Not Required
2. Chain of Custody
   Seal No. _____

II. Field Conditions/Comments: _____

III. Special Instructions: _____
(Detection Limits, Data Package, etc.)

Relinquished By:	Date/Time (use 24 hr. clock)	Received By:	Date/Time (use 24 hr. clock)
Print Name: Skip Sawyer	11/9/93 1700	Print Name: FED EX ~~J. Baker~~ LAB	11/9/93 1700
Signature: Skip Sawyer		Signature: /	
Print Name: Fed Ex	11/10/93	Print Name: L. Baker	11/10/93 10:24
Signature:		Signature: L. Baker 46340	

Box 2110
Canton, North Carolina 28716

Champion
Champion International Corporation

January 11, 1994

Ms. Sherri Hoyt
North Carolina Department of Environment,
Health and Natural Resources
Solid Waste Section
PO Box 27687
Raleigh, NC 27611-7687

Dear Ms. Hoyt:

Please find enclosed information relating to the sampling of ground water monitoring wells at Champion's Landfill Number 6 (Permit No. 44-06). Resampling of several locations was required because containers were broken in transit to the laboratory. The original sampling was conducted between November 8 and November 12, 1993. The resampling was completed December 3, 1993.

Enclosed are the following:

- Joseph A. Harrigan letter of December 22, 1993;
- Summary of water level and indicator parameter measurements made prior to sampling;
- Results of chemical analysis performed on the groundwater samples;
- Chain-of-custody records.

The analytical results were received by my office on December 27, 1993.

If you have any questions, please feel free to call me at (704) 646-2028.

Sincerely,

Jim Giauque
Process Engineer

JAG/jab

Attachments

xc: Mr. Bobby Lutfy
North Carolina Department of Environment,
Health and Natural Resources
Solid Waste Section
PO Box 27687
Raleigh, NC 27611-7687

Mr. Larry Rose
North Carolina Department of Environment,
Health and Natural Resources
Solid Waste Section
PO Box 27687
Raleigh, NC 27611-7687

bxc: John Bengal - Stamford
Derric Brown
Bill Freuler
Bob Williams

RUST ENVIRONMENT & INFRASTRUCTURE

Formerly SEC Donohue

RUST Environment & Infrastructure Inc
15 Brendan Way • Greenville, SC 29615
P.O. Box 24000 • Greenville, SC 29616
Tel. (803) 234-3000 • FAX (803) 234-3069

RECEIVED DEC 27 1993

December 22, 1993

Champion International Corporation
P.O. Box C10
Canton, North Carolina 29716

Attention: Mr. Jim Giauque

Re: Semi-Annual Ground Water and Surface Water Sampling and Analysis at Landfills No. 5 and No. 6.
RUST E&I Job No. 86130.000

Dear Mr. Giauque:

Please find transmitted with this letter the following Semi-Annual report information for the No. 5 and No. 6 Landfill sites located near Canton, North Carolina:

- Ground water and surface water monitoring results;
- The recorded ground-water sampling indicator parameters; and
- The original sample Chain-of-Custody Records.

This Quarterly sampling by RUST E&I took place from November 08 to 11, 1993, and two minor resamplings occurred, the first on November 12, 1993, and the second on December 3, 1993. RUST will maintain in our file the field log documentation of these sampling events.

The November 1993 sampling, conducted between Monday the 8th and Thursday the 11th, included 15 wells at the No. 6 Landfill site, 6 wells at the No. 5 Landfill Site, and 6 surface water samples from various locations near the landfills. On Friday, November 12, 1993, three water sample sites were resampled and additional samples were collected from MW-2. On December 3, 1993, monitoring well MW-2 and one surface water site were resampled for reasons explained below. All samples were collected by RUST E&I field personnel according to the procedures described in the "Quality Control Plan for Sampling and Analysis of Ground Water and Surface Water" prepared for this work by Sirrine (10/89). All samples were collected under chain-of-custody protocol, and analyzed under our subcontract to AnalitiKEM in Rock Hill, South Carolina.

During the sampling effort monitoring well MW-2 bailed dry and recovered very slowly. As a result, there was insufficient sample for fluoride, chloride, sulfate, and total dissolved solids. However, on November 12, 1993, an effort was made to collect additional samples for these for parameters at the same time that the three streams were resampled.

The first resampling was required when one cooler had glass sample jars which were broken. This was a cooler shipped via Federal Express by the RUST E&I field staff to AnalitiKEM's Rock Hill, S.C., office. The second resampling was required when broken glass sample containers resulted from shipping a cooler from AnalitiKEM's Rock Hill, S.C., lab to their Cherry Hill, New Jersey, lab by an express carrier. AnalytiKEM has agreed to pay for this resampling effort. The locations requiring resampling were monitoring well MW-2 and surface water site Bowen Creek Upstream. This resampling took place on December 3, 1993.

The wells and stream points requiring resampling for the parameters listed are as follows:

Sample Point	Analyte (s)					
	PHENOL	TDS	SULFATE	CHLORIDE	FLUORIDE	TOX
Landfill No. 6 MW-2		(X)	(X)	(X)	(X)	
Bowen Cr. Upstream			X	X	X	
Beaver Dam Upstream						X
Clyde Bridge	X					

X indicates sample container arrived broken at Lab.
(X) X in parenthesis indicates samples which were collected twice.

This sampling event occurred following a protracted dry spell resulting in lower than normal ground water levels and lower stream flows. This may be the reason that the concentration of some analytes increased, such as phenolics, chromium, iron, manganese, sulfate, and total dissolved solids (TDS) for MW-15, and sodium, sulfate, and TDS for Fiberville Bridge and Clyde Bridge surface water samples.

If you have any questions or if you would like to discuss the resampling effort or the issues related to the cause of it please contact me at (803) 234-2294.

Sincerely,

RUST Environment & Infrastructure

Joseph Harrigan

Joseph A. Harrigan
Hydrogeologist

cc: Project File

NOVEMBER/DECEMBER 1993 GROUND WATER INDICATOR PARAMETERS

Well Location	Date	Depth to Groundwater from Top of Casing (feet)	pH	Specific Conductivity	Temperature °C
Landfill No.5					
5B1	11/09/93	8.98	6.11	33	14
5B2	11/09/93	5.35	5.96	314	15
5B3	11/09/93	10.41	6.14	192	14
5C1	11/09/93	14.54	5.52	90	12
5C2	11/09/93	5.0	6.18	99	14
5C3	11/09/93	2.40	5.66	205	14
Landfill No. 6					
MW-1A	11/11/93	50.12	5.52	24	11
MW-2	11/10//93	4.49	9.96	9,330	8
MW-3A	11/11/93	6.27	6.81	113	14
MW-4	11/08/93	59.71	6.17	2790	18
MW-5A	11/11/93	35.23	5.44	117	15
MW-6	11/08/93	15.61	5.34	128	14
MW-7A	11/08/93	9.74	5.66	227	15
MW-8	11/10/93	11.01	6.24	79	15
MW-9	11/08/93	36.82	5.52	38	14
MW-10	11/08/93	37.15	5.75	28	13
MW-11	11/08/93	12.10	4.82	54	14
MW-12	11/10/93	11.88	5.88	63	13
MW-13	11/11/93	19.5	5.68	5180	14
MW-14	11/10/93	27.92	5.57	96	13
MW-15	11/11/93	25.05	5.74	26	11

AnalytiKEM *An American NuKEM Company*

AnalytiKEM Inc.
454 S. Anderson Road, BTC 532
Rock Hill, SC 29730
803/329-9690
Fax: 803/324-3982

TEST REPORT NO. A84412

December 20, 1993

Prepared for:

Rust Environmental & Infrastructure
15 Brendan Way
Greenville, SC 29615

Attention: Joseph Barrigan

Project: Champion Canton 86130.000

Certification No. SC 46067
SC 94004

Date Sampled: November 8-11, 1993

Date of Sample Receipt: November 9-13, 1993

Note: The Total Organic Halogens analyses was subcontracted to Savannah Laboratories, Inc. Please see the attached copy of their report.

Reviewed & Approved by: Gerold J. Miller

Name: Gerold J. Miller, Ph.D.

Title: QA/QC Manager

JOB NUMBER A84412 - ANALYTICAL RESULTS - PAGE 1

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-1	MW-4	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-1	MW-4	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-1	MW-4	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-1	MW-4	Calcium, total		84000	<	5000	UG/L	11/23/93	METALS
A84412-1	MW-4	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-1	MW-4	Iron, total		330000	<	100	UG/L	11/23/93	METALS
A84412-1	MW-4	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-1	MW-4	Manganese, total		7200	<	15	UG/L	11/23/93	METALS
A84412-1	MW-4	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-1	MW-4	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-1	MW-4	Selenium, total	<	10	<	10	UG/L	11/20/93	METALS
A84412-1	MW-4	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-1	MW-4	Sodium, total		180000	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-1	MW-4	pH, units		5.78		--	--	11/10/93	pH
A84412-1	MW-4	Total Dissolved Solids		2000000	<	10000	UG/L	11/10/93	TOTAL DISSOLVED SOLIDS
A84412-1	MW-4	Conductivity, umhos/cm @25°C		2400	<	1.0	--	11/11/93	CONDUCTIVITY
A84412-1	MW-4	Nitrite-N	<	20	<	20	UG/L	11/9/93	NITRITE
A84412-1	MW-4	Chloride		250000		--	UG/L	11/19/93	CHLORIDE
A84412-1	MW-4	Fluoride	<	100		--	UG/L	11/19/93	FLUORIDE
A84412-1	MW-4	Phenolics, total, as phenol	<	10	<	10	UG/L	11/20/93	PHENOLICS
A84412-1	MW-4	Sulfate		1500000		--	UG/L	11/15/93	SULFATE
A84412-1	MW-4	Total Organic Carbon		9500	<	500	UG/L	11/14/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-2	MW-10	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-2	MW-10	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-2	MW-10	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-2	MW-10	Calcium, total	<	5000	<	5000	UG/L	11/23/93	METALS
A84412-2	MW-10	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-2	MW-10	Iron, total		1900	<	100	UG/L	11/23/93	METALS
A84412-2	MW-10	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-2	MW-10	Manganese, total		24	<	15	UG/L	11/23/93	METALS
A84412-2	MW-10	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
			<	2.0 *					
A84412-2	MW-10	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-2	MW-10	Selenium, total	<	10	<	10	UG/L	11/20/93	METALS
A84412-2	MW-10	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-2	MW-10	Sodium, total	<	5000	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-2	MW-10	pH, units		6.40		--	--	11/10/93	pH
A84412-2	MW-10	Total Dissolved Solids		27000	<	10000	UG/L	11/10/93	TOTAL DISSOLVED SOLIDS
A84412-2	MW-10	Conductivity, umhos/cm @25°C		43	<	--	--	11/11/93	CONDUCTIVITY
A84412-2	MW-10	Nitrite-N	<	20	<	20	UG/L	11/9/93	NITRITE
A84412-2	MW-10	Chloride	<	1000		--	UG/L	11/19/93	CHLORIDE
A84412-2	MW-10	Fluoride	<	100		--	UG/L	11/19/93	FLUORIDE
A84412-2	MW-10	Phenolics, total, as phenol	<	10	<	10	UG/L	11/20/93	PHENOLICS
A84412-2	MW-10	Sulfate	<	12000		--	UG/L	11/15/93	SULFATE
A84412-2	MW-10	Total Organic Carbon	<	2600	<	500	UG/L	11/14/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

* Duplicate Analysis

CHAMPION ENG 10:704-646-6892 MAR 01'95 12:54 No.007 P.10

JOB NUMBER A84412 - ANALYTICAL RESULTS - PAGE 3

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-3	MW-9	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-3	MW-9	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-3	MW-9	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-3	MW-9	Calcium, total	<	5000	<	5000	UG/L	11/23/93	METALS
A84412-3	MW-9	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-3	MW-9	Iron, total		3100	<	100	UG/L	11/23/93	METALS
A84412-3	MW-9	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-3	MW-9	Manganese, total		120	<	15	UG/L	11/23/93	METALS
A84412-3	MW-9	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-3	MW-9	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-3	MW-9	Selenium, total	<	10	<	10	UG/L	11/20/93	METALS
A84412-3	MW-9	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-3	MW-9	Sodium, total	<	5000	<	5000	UG/L	11/23/93	METALS
A84412-3 Duplicate	MW-9	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-3 Duplicate	MW-9	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-3 Duplicate	MW-9	Calcium, total	<	5000	<	5000	UG/L	11/23/93	METALS
A84412-3 Duplicate	MW-9	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-3 Duplicate	MW-9	Iron, total		3100	<	100	UG/L	11/23/93	METALS
A84412-3 Duplicate	MW-9	Manganese, total		120	<	15	UG/L	11/23/93	METALS
A84412-3 Duplicate	MW-9	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-3 Duplicate	MW-9	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-3 Duplicate	MW-9	Sodium, total	<	5000	<	5000	UG/L	11/23/93	METALS

JOB NUMBER A84412 - ANALYTICAL RESULTS - PAGE 4

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	11/23/93 ANALYSIS DATE	ANALYSIS GROUP
GENERAL CHEMISTRY									
A84412-3	MW-9	pH, units		5.68		--	--	11/10/93	pH
A84412-3	MW-9	Total Dissolved Solids		38000	<	10000	UG/L	11/10/93	TOTAL DISSOLVED SOLIDS
A84412-3	MW-9	Conductivity, umhos/cm @25°C		41	<	--	--	11/11/93	CONDUCTIVITY
A84412-3	MW-9	Nitrite-N	<	20	<	20	UG/L	11/9/93	NITRITE
A84412-3	MW-9	Chloride	<	1000		--	UG/L	11/19/93	CHLORIDE
A84412-3	MW-9	Fluoride	<	100		--	UG/L	11/19/93	FLUORIDE
A84412-3	MW-9	Phenolics, total, as phenol		14	<	10	UG/L	11/20/93	PHENOLICS
A84412-3	MW-9	Sulfate	<	1000		--	UG/L	11/15/93	SULFATE
A84412-3	MW-9	Total Organic Carbon	<	500	<	500	UG/L	11/14/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-4	MW-11	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-4	MW-11	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-4	MW-11	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-4	MW-11	Calcium, total	<	5000	<	5000	UG/L	11/23/93	METALS
A84412-4	MW-11	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-4	MW-11	Iron, total		6000	<	100	UG/L	11/23/93	METALS
A84412-4	MW-11	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-4	MW-11	Manganese, total		18	<	15	UG/L	11/23/93	METALS
A84412-4	MW-11	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-4	MW-11	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-4	MW-11	Selenium, total	<	10	<	10	UG/L	11/20/93	METALS
A84412-4	MW-11	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-4	MW-11	Sodium, total	<	5000	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-4	MW-11	pH, units		5.43		--	--	11/10/93	pH
A84412-4	MW-11	Total Dissolved Solids		43000	<	10000	UG/L	11/10/93	TOTAL DISSOLVED SOLIDS
A84412-4	MW-11	Conductivity, umhos/cm @25°C		62	<	--	--	11/11/93	CONDUCTIVITY
A84412-4	MW-11	Nitrite-N	<	20	<	20	UG/L	11/9/93	NITRITE
A84412-4	MW-11	Chloride		7500		--	UG/L	11/19/93	CHLORIDE
A84412-4	MW-11	Fluoride	<	100		--	UG/L	11/19/93	FLUORIDE
A84412-4	MW-11	Phenolics, total, as phenol	<	10	<	10	UG/L	11/20/93	PHENOLICS
A84412-4	MW-11	Sulfate	<	1000		--	UG/L	11/15/93	SULFATE
A84412-4	MW-11	Total Organic Carbon		3300	<	500	UG/L	11/14/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

JOHNSTON ENTS 10:704-640-6892 DEC 01 '93 12:55 NO.007 P.13

CHAMPION ECHS 10:704-646-5892 MAR 01 '95 12:58 NO.007 P.17

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-5	MW-7A	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-5	MW-7A	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-5	MW-7A	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-5	MW-7A	Calcium, total		21000	<	5000	UG/L	11/23/93	METALS
A84412-5	MW-7A	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-5	MW-7A	Iron, total		11000	<	100	UG/L	11/23/93	METALS
A84412-5	MW-7A	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-5	MW-7A	Manganese, total		3200	<	15	UG/L	11/23/93	METALS
A84412-5	MW-7A	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-5	MW-7A	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-5	MW-7A	Selenium, total	<	10	<	10	UG/L	11/20/93	METALS
A84412-5	MW-7A	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-5	MW-7A	Sodium, total		5900	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-5	MW-7A	pH, units		5.92		--	--	11/10/93	pH
A84412-5	MW-7A	Total Dissolved Solids		230000 ; 240000 *	<	10000	UG/L	11/10/93	TOTAL DISSOLVED SOLIDS
A84412-5	MW-7A	Conductivity, umhos/cm @25°C		330	<	--	--	11/11/93	CONDUCTIVITY
A84412-5	MW-7A	Nitrite-N	<	20	<	20	UG/L	11/9/93	NITRITE
A84412-5	MW-7A	Chloride		23000		--	UG/L	11/19/93	CHLORIDE
A84412-5	MW-7A	Fluoride	<	100		--	UG/L	11/19/93	FLUORIDE
A84412-5	MW-7A	Phenolics, total, as phenol		50	<	10	UG/L	11/20/93	PHENOLICS
A84412-5	MW-7A	Sulfate		81000		--	UG/L	11/15/93	SULFATE
A84412-5	MW-7A	Total Organic Carbon		4300	<	500	UG/L	11/14/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

* Duplicate analysis.

AnalytiKEM

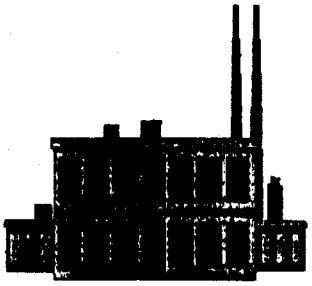
Quality Control Data for Metals

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Arsenic	A84412-20	100	96	102	6	70-116	10
Barium	A84412-19	300	105	100	5	60-119	5
Cadmium	A84412-19	300	96	91	5	66-110	4
Cadmium	DI Water	300	93	--	--	66-110	4
Calcium	A84412-19	300	99	87	13	22-134	30
Chromium	A84412-19	300	103	99	4	72-106	4
Iron	A84412-19	300	102	74	32	65-109	15
Iron	DI Water	300	96	--	--	65-109	15
Lead	A84412-20	100	84	90	7	65-110	4
Lead	DI Water	100	92	--	--	65-110	4
Manganese	A84412-19	300	100	94	6	28-136	13
Mercury	A84412-16	20	98	92	6	63-129	5
Mercury	DI Water	20	99	--	--	63-129	5
Nickel	A84412-19	300	100	96	4	66-111	7
Selenium	A84412-20	100	85	98	14	75-125	30
Silver	A84412-19	300	49	43	13	10-131	30
Sodium	A84412-19	300	98	85	14	10-175	50
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 30 outside control limits

RPD: 4 out of 13 outside control limits



FAX COVER SHEET
ENVIRONMENTAL, OCCUPATIONAL, HEALTH AND SAFETY.
CHAMPION INTERNATIONAL CORP.
CANTON MILL

TO: Anita Trecartin

FROM: Jim Giangue

DATE: **TIME:** 3/1/95 12:50

NUMBER OF PAGES:
(INCLUDING COVER) 67

NOTE: Landfill #6 Monitoring Well data per request of Bill Morris

SENDERS PHONE NUMBER: (704) 646- 2028
FAX NUMBER:(704) 646-6892
FAX PROBLEMS: (704) 646-6700

Continued

84412B

RUST ENVIRONMENT & INFRASTRUCTURE — Custody Chain and Analytical Request

Page 1 of 1

RUST E&I Project No. 86130.000
RUST E&I Project Name CHAMPION
Custody No./LIMS No. —

Project/Location: CHAMPION CANTON, NC
Client Name: CHAMPION INTL
Collected By: K. Voyles

	Sample ID (Minimize Characters)	Date	Time (24-Hour)	See Comments: Comp	Grab	Well	Sample Information (location, depth, filtered, etc.)	# Of Containers	ENDRIN FLUORIDE SULFATE										COMMENTS (add preservative information)	Cooler Letter
RESAMPLE #16	BOWEN UP	12-3-93			A		BOWEN CR UP	1	1				UNPRESERVED						A = Aqueous, S = Solid, M = Aqueous / Solid Mixture, W = Waste	4
#22	MW-2	12-3-93				A	MW-2, LF6	1	1				UNPRESERVED							4

Custody Transfers Prior to Receipt By Laboratory

	Relinquished by/(Signed) (Organization)	Received by/(Signed) (Organization)	Date	Time
1.	K. Voyles (RUST)	FED EX	12-3-93	1600
2.	Fed Exp	Janet Winks	12/8/93	1000
3.				

Sample Delivery Details/Laboratory Receipt

Delivered Directly to Lab ☐ Shipped ☒
Method of Shipment: FEDEX Airbill #: 8094188793
Analytical Lab: ANALYTICAL Location: ROCK HILL, SC
Lab Recipient: _____ Date: _____ Time: _____
(Signature)

Additional Remarks:
(Condition Upon Lab Receipt, Etc.)

Rev. 09/01/93

White - Laboratory; Yellow - RUST E&I; Pink - Project Files

CHAMPION EUHS ID:704-645-6892 MAR 01'95 13:17 NO.006 P.02

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-6	MW-6	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-6	MW-6	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-6	MW-6	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-6	MW-6	Calcium, total		8400	<	5000	UG/L	11/23/93	METALS
A84412-6	MW-6	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-6	MW-6	Iron, total		14000	<	100	UG/L	11/23/93	METALS
A84412-6	MW-6	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-6	MW-6	Manganese, total		200	<	15	UG/L	11/23/93	METALS
A84412-6	MW-6	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-6	MW-6	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-6	MW-6	Selenium, total	<	10	<	10	UG/L	11/20/93	METALS
A84412-6	MW-6	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-6	MW-6	Sodium, total		7600	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-6	MW-6	pH, units		5.86		--	--	11/10/93	pH
A84412-6	MW-6	Total Dissolved Solids		120000	<	10000	UG/L	11/10/93	TOTAL DISSOLVED SOLIDS
A84412-6	MW-6	Conductivity, umhos/cm @25°C		140	<	--	--	11/11/93	CONDUCTIVITY
A84412-6	MW-6	Nitrite-N	<	20	<	20	UG/L	11/9/93	NITRITE
A84412-6	MW-6	Chloride		16000		--	UG/L	11/19/93	CHLORIDE
A84412-6	MW-6	Fluoride	<	100		--	UG/L	11/19/93	FLUORIDE
A84412-6	MW-6	Phenolics, total, as phenol		17	<	10	UG/L	11/20/93	PHENOLICS
A84412-6	MW-6	Sulfate		14000		--	UG/L	11/15/93	SULFATE
A84412-6	MW-6	Total Organic Carbon		6500	<	500	UG/L	11/14/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

TEMPLION ECHS 11:704-649-5892 MAR 01'95 15:18 No.005 P.03

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-7	5B1	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-7	5B1	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-7	5B1	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-7	5B1	Calcium, total	<	5000	<	5000	UG/L	11/23/93	METALS
A84412-7	5B1	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-7	5B1	Iron, total		3100	<	100	UG/L	11/23/93	METALS
A84412-7	5B1	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-7	5B1	Manganese, total		160	<	15	UG/L	11/23/93	METALS
A84412-7	5B1	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-7	5B1	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-7	5B1	Selenium, total	<	10	<	10	UG/L	11/20/93	METALS
A84412-7	5B1	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-7	5B1	Sodium, total	<	5000	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-7	5B1	pH, units		6.78		--	--	11/10/93	pH
A84412-7	5B1	Total Dissolved Solids		25000	<	10000	UG/L	11/11-12/93	TOTAL DISSOLVED SOLIDS
A84412-7	5B1	Conductivity, umhos/cm @25°C		42	<	--	--	11/11/93	CONDUCTIVITY
A84412-7	5B1	Nitrite-N	<	20	<	20	UG/L	11/10/93	NITRITE
A84412-7	5B1	Chloride		2300		--	UG/L	11/19/93	CHLORIDE
A84412-7	5B1	Fluoride	<	100		--	UG/L	11/19/93	FLUORIDE
A84412-7	5B1	Phenolics, total, as phenol	<	10	<	10	UG/L	11/29/93	PHENOLICS
A84412-7	5B1	Sulfate		3200		--	UG/L	11/19/93	SULFATE
A84412-7	5B1	Total Organic Carbon		3000	<	500	UG/L	11/29-30/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

CHAMPION ENTS 10:704-646-6892 MAR 01'95 15:19 No.006 P.05

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-8	5C1	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-8	5C1	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-8	5C1	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-8	5C1	Calcium, total		6500	<	5000	UG/L	11/23/93	METALS
A84412-8	5C1	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-8	5C1	Iron, total		140	<	100	UG/L	11/23/93	METALS
A84412-8	5C1	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-8	5C1	Manganese, total		15	<	15	UG/L	11/23/93	METALS
A84412-8	5C1	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-8	5C1	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-8	5C1	Selenium, total	<	10	<	10	UG/L	11/20/93	METALS
A84412-8	5C1	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-8	5C1	Sodium, total		5500	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-8	5C1	pH, units		6.2		--	--	11/10/93	pH
A84412-8	5C1	Total Dissolved Solids		63000	<	10000	UG/L	11/11-12/93	TOTAL DISSOLVED SOLIDS
				75000 *					
A84412-8	5C1	Conductivity, umhos/cm @25°C		97	<	--	--	11/11/93	CONDUCTIVITY
A84412-8	5C1	Nitrite-N	<	20	<	20	UG/L	11/10/93	NITRITE
A84412-8	5C1	Chloride		8100		--	UG/L	11/19/93	CHLORIDE
A84412-8	5C1	Fluoride	<	100		--	UG/L	11/19/93	FLUORIDE
A84412-8	5C1	Phenolics, total, as phenol	<	10	<	10	UG/L	11/29/93	PHENOLICS
A84412-8	5C1	Sulfate		5900		--	UG/L	11/19/93	SULFATE
A84412-8	5C1	Total Organic Carbon		1400	<	500	UG/L	11/29-30/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

* Duplicate analysis.

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-9	5C2	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-9	5C2	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-9	5C2	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-9	5C2	Calcium, total		9300	<	5000	UG/L	11/23/93	METALS
A84412-9	5C2	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-9	5C2	Iron, total		2300	<	100	UG/L	11/23/93	METALS
A84412-9	5C2	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-9	5C2	Manganese, total		36	<	15	UG/L	11/23/93	METALS
A84412-9	5C2	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-9	5C2	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-9	5C2	Selenium, total	<	10	<	10	UG/L	11/20/93	METALS
A84412-9	5C2	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-9	5C2	Sodium, total		5600	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-9	5C2	pH, units		6.84		--	--	11/10/93	pH
A84412-9	5C2	Total Dissolved Solids		97000	<	10000	UG/L	11/11-12/93	TOTAL DISSOLVED SOLIDS
A84412-9	5C2	Conductivity, umhos/cm @25°C		99	<	--	--	11/11/93	CONDUCTIVITY
A84412-9	5C2	Nitrite-N	<	20	<	20	UG/L	11/10/93	NITRITE
A84412-9	5C2	Chloride		11000		--	UG/L	11/19/93	CHLORIDE
A84412-9	5C2	Fluoride	<	100		--	UG/L	11/19/93	FLUORIDE
A84412-9	5C2	Phenolics, total, as phenol	<	10	<	10	UG/L	11/29/93	PHENOLICS
A84412-9	5C2	Sulfate		8600		--	UG/L	11/19/93	SULFATE
A84412-9	5C2	Total Organic Carbon		950		500	UG/L	11/29-30/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

CHEMFLOW EQTS 10:704-645-6892 MAR 01'95 15:20 No.006 P.06

CHAMPION ECHS 11:704-646-6892 MAR 01'95 15:20 No.006 P.07

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-10	5B2	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
			<	10 *					
A84412-10	5B2	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-10	5B2	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-10	5B2	Calcium, total		32000	<	5000	UG/L	11/23/93	METALS
A84412-10	5B2	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-10	5B2	Iron, total		28000	<	100	UG/L	11/23/93	METALS
A84412-10	5B2	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
			<	50 *					
A84412-10	5B2	Manganese, total		360	<	15	UG/L	11/23/93	METALS
A84412-10	5B2	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-10	5B2	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-10	5B2	Selenium, total	<	10	<	10	UG/L	11/20/93	METALS
			<	10 *					
A84412-10	5B2	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-10	5B2	Sodium, total		14000	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-10	5B2	pH, units		6.76		--	--	11/10/93	pH
A84412-10	5B2	Total Dissolved Solids		190000	<	10000	UG/L	11/11-12/93	TOTAL DISSOLVED SOLIDS
A84412-10	5B2	Conductivity, umhos/cm @25°C		320	<	--	--	11/11/93	CONDUCTIVITY
A84412-10	5B2	Nitrite-N	<	20	<	20	UG/L	11/10/93	NITRITE
A84412-10	5B2	Chloride		33000		--	UG/L	11/19/93	CHLORIDE
A84412-10	5B2	Fluoride	<	100		--	UG/L	11/19/93	FLUORIDE
A84412-10	5B2	Phenolics, total, as phenol	<	10	<	10	UG/L	11/29/93	PHENOLICS
A84412-10	5B2	Sulfate	<	1000		--	UG/L	11/19/93	SULFATE
A84412-10	5B2	Total Organic Carbon		2900	<	500	UG/L	11/29-30/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

* Duplicate analysis.

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
AB4412-11	5B3	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
			<	10 *					
AB4412-11	5B3	Barium, total		530	<	200	UG/L	11/22/93	METALS
AB4412-11	5B3	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
AB4412-11	5B3	Calcium, total		15000	<	5000	UG/L	11/23/93	METALS
AB4412-11	5B3	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
AB4412-11	5B3	Iron, total		13000	<	100	UG/L	11/23/93	METALS
AB4412-11	5B3	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
			<	50 *					
AB4412-11	5B3	Manganese, total		5300	<	15	UG/L	11/23/93	METALS
AB4412-11	5B3	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
AB4412-11	5B3	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
AB4412-11	5B3	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
			<	10 *					
AB4412-11	5B3	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
AB4412-11	5B3	Sodium, total		7400	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
AB4412-11	5B3	pH, units		6.57		--	--	11/10/93	pH
AB4412-11	5B3	Total Dissolved Solids		140000	<	10000	UG/L	11/11-12/93	TOTAL DISSOLVED SOLIDS
AB4412-11	5B3	Conductivity, umhos/cm @25°C		210	<	--	--	11/11/93	CONDUCTIVITY
				200 *					
AB4412-11	5B3	Nitrite-N	<	20	<	20	UG/L	11/10/93	NITRITE
AB4412-11	5B3	Chloride		20000	<	--	UG/L	11/19/93	CHLORIDE
AB4412-11	5B3	Fluoride	<	100	<	--	UG/L	11/19/93	FLUORIDE
AB4412-11	5B3	Phenolics, total, as phenol		14	<	10	UG/L	11/29/93	PHENOLICS
AB4412-11	5B3	Sulfate		23000	<	--	UG/L	11/19/93	SULFATE
AB4412-11	5B3	Total Organic Carbon		1900	<	500	UG/L	11/29-30/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

* Duplicate analysis.

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-12	5C3	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-12	5C3	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-12	5C3	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-12	5C3	Calcium, total		17000	<	5000	UG/L	11/23/93	METALS
A84412-12	5C3	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-12	5C3	Iron, total		390	<	100	UG/L	11/23/93	METALS
A84412-12	5C3	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-12	5C3	Manganese, total		600	<	15	UG/L	11/23/93	METALS
A84412-12	5C3	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-12	5C3	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-12	5C3	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-12	5C3	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-12	5C3	Sodium, total		9000	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-12	5C3	pH, units		6.2		--	--	11/10/93	pH
				6.18 *					
A84412-12	5C3	Total Dissolved Solids		170000	<	10000	UG/L	11/11-12/93	TOTAL DISSOLVED SOLIDS
A84412-12	5C3	Conductivity, umhos/cm @25°C		250	<	--	--	11/11/93	CONDUCTIVITY
A84412-12	5C3	Nitrite-N	<	20	<	20	UG/L	11/10/93	NITRITE
A84412-12	5C3	Chloride		46000		--	UG/L	11/19/93	CHLORIDE
A84412-12	5C3	Fluoride	<	100		--	UG/L	11/19/93	FLOORIDE
A84412-12	5C3	Phenolics, total, as phenol	<	10	<	10	UG/L	11/29/93	PHENOLICS
A84412-12	5C3	Sulfate	<	1000		--	UG/L	11/19/93	SULFATE
A84412-12	5C3	Total Organic Carbon		750	<	500	UG/L	11/29-30/93	SULFATE

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

* Duplicate analysis.

CHEMPICN EDHS ID:704-646-6892 MAR 01'95 13:22 No.008 P.10

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
AB4412-13	Clyde Bridge	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
AB4412-13	Clyde Bridge	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
AB4412-13	Clyde Bridge	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
AB4412-13	Clyde Bridge	Calcium, total		33000	<	5000	UG/L	11/23/93	METALS
AB4412-13	Clyde Bridge	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
AB4412-13	Clyde Bridge	Iron, total		360	<	100	UG/L	11/23/93	METALS
AB4412-13	Clyde Bridge	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
AB4412-13	Clyde Bridge	Manganese, total		140	<	15	UG/L	11/23/93	METALS
AB4412-13	Clyde Bridge	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
AB4412-13	Clyde Bridge	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
AB4412-13	Clyde Bridge	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
AB4412-13	Clyde Bridge	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
AB4412-13	Clyde Bridge	Sodium, total		180000	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
AB4412-13	Clyde Bridge	pH, units		7.91		--	--	11/11/93	pH
AB4412-13	Clyde Bridge	Total Dissolved Solids		730000	<	10000	UG/L	11/11-12/93	TOTAL DISSOLVED SOLIDS
				800000 *					
AB4412-13	Clyde Bridge	Conductivity, umhos/cm @25°C		920	<	--	--	11/13/93	CONDUCTIVITY
AB4412-13	Clyde Bridge	Nitrite-N	<	20	<	20	UG/L	11/11/93	NITRITE
AB4412-13	Clyde Bridge	Chloride		110000		--	UG/L	11/30/93	CHLORIDE
AB4412-13	Clyde Bridge	Fluoride	<	100		--	UG/L	11/24/93	FLUORIDE
AB4412-13	Clyde Bridge	Phenolics, total, as phenol	<	10	<	10	UG/L	11/29/93	PHENOLICS
AB4412-13	Clyde Bridge	Sulfate		270000		--	UG/L	11/16/93	SULFATE
AB4412-13	Clyde Bridge	Total Organic Carbon		20000	<	500	UG/L	11/29-30/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

* Duplicate analysis.

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-14	FV Bridge	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-14	FV Bridge	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-14	FV Bridge	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-14	FV Bridge	Calcium, total		32000	<	5000	UG/L	11/23/93	METALS
A84412-14	FV Bridge	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-14	FV Bridge	Iron, total		210	<	100	UG/L	11/23/93	METALS
A84412-14	FV Bridge	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-14	FV Bridge	Manganese, total		56	<	15	UG/L	11/23/93	METALS
A84412-14	FV Bridge	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-14	FV Bridge	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-14	FV Bridge	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-14	FV Bridge	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-14	FV Bridge	Sodium, total		180000	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-14	FV Bridge	pH, units		7.91		--	--	11/11/93	pH
A84412-14	FV Bridge	Total Dissolved Solids		680000	<	10000	UG/L	11/17-18/93	TOTAL DISSOLVED SOLIDS
A84412-14	FV Bridge	Conductivity, umhos/cm @25°C		840	<	--	--	11/13/93	CONDUCTIVITY
A84412-14	FV Bridge	Nitrite-N	<	20	<	20	UG/L	11/11/93	NITRITE
A84412-14	FV Bridge	Chloride		92000		--	UG/L	11/30/93	CHLORIDE
A84412-14	FV Bridge	Fluoride	<	100		--	UG/L	11/24/93	FLUORIDE
A84412-14	FV Bridge	Phenolics, total, as phenol	<	10	<	10	UG/L	11/29/93	PHENOLICS
A84412-14	FV Bridge	Sulfate		250000		--	UG/L	11/16/93	SULFATE
A84412-14	FV Bridge	Total Organic Carbon		18000	<	500	UG/L	11/18/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-15	Bowen Down	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-15	Bowen Down	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-15	Bowen Down	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-15	Bowen Down	Calcium, total	<	5000	<	5000	UG/L	11/23/93	METALS
A84412-15	Bowen Down	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-15	Bowen Down	Iron, total		220	<	100	UG/L	11/23/93	METALS
A84412-15	Bowen Down	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-15	Bowen Down	Manganese, total		35	<	15	UG/L	11/23/93	METALS
A84412-15	Bowen Down	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-15	Bowen Down	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-15	Bowen Down	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-15	Bowen Down	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-15	Bowen Down	Sodium, total	<	5000	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-15	Bowen Down	pH, units		7.39		--	--	11/11/93	pH
A84412-15	Bowen Down	Total Dissolved Solids		68000	<	10000	UG/L	11/11-12/93	TOTAL DISSOLVED SOLIDS
A84412-15	Bowen Down	Conductivity, umhos/cm @25°C		65	<	--	--	11/13/93	CONDUCTIVITY
A84412-15	Bowen Down	Nitrite-N	<	20	<	20	UG/L	11/11/93	NITRITE
A84412-15	Bowen Down	Chloride		3700		--	UG/L	11/30/93	CHLORIDE
A84412-15	Bowen Down	Fluoride	<	100		--	UG/L	11/24/93	FLUORIDE
A84412-15	Bowen Down	Phenolics, total, as phenol	<	10	<	10	UG/L	11/29/93	PHENOLICS
A84412-15	Bowen Down	Sulfate	<	1000		--	UG/L	11/16/93	SULFATE
A84412-15	Bowen Down	Total Organic Carbon		1200	<	500	UG/L	11/18/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

CHAMPION ECOLOGY 10:704-646-6892 MAR 01 '95 15:24 NO.006 P.12

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-16	Bowen Up	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-16	Bowen Up	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-16	Bowen Up	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-16	Bowen Up	Calcium, total	<	5000	<	5000	UG/L	11/23/93	METALS
A84412-16	Bowen Up	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-16	Bowen Up	Iron, total		280	<	100	UG/L	11/23/93	METALS
A84412-16	Bowen Up	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-16	Bowen Up	Manganese, total		22	<	15	UG/L	11/23/93	METALS
A84412-16	Bowen Up	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-16	Bowen Up	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-16	Bowen Up	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-16	Bowen Up	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-16	Bowen Up	Sodium, total	<	5000	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-16	Bowen Up	pH, units		7.32		--	--	11/11/93	pH
A84412-16	Bowen Up	Total Dissolved Solids		66000	<	10000	UG/L	11/11-12/93	TOTAL DISSOLVED SOLIDS
A84412-16	Bowen Up	Conductivity, umhos/cm @25°C		60	<	--	--	11/13/93	CONDUCTIVITY
A84412-16	Bowen Up	Nitrite-N	<	20	<	20	UG/L	11/11/93	NITRITE
A84412-16	Bowen Up	Chloride		3400	<	1000	UG/L	12/14/93	CHLORIDE
A84412-16	Bowen Up	Fluoride	<	150	<	150	UG/L	12/14 & 15/93	PHENOLICS
A84412-16	Bowen Up	Phenolics, total, as phenol		17	<	10	UG/L	11/29/93	FLUORIDE
A84412-16	Bowen Up	Sulfate	<	10000	<	10000	UG/L	12/15/93	SULFATE
A84412-16	Bowen Up	Total Organic Carbon		2400	<	500	UG/L	11/18/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

CORRECTION EDTS 11:704-646-5892 MAR 01'95 13:24 NO.008 P.18

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-17	Beaver Dam Down	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-17	Beaver Dam Down	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-17	Beaver Dam Down	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-17	Beaver Dam Down	Calcium, total		5700	<	5000	UG/L	11/23/93	METALS
A84412-17	Beaver Dam Down	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-17	Beaver Dam Down	Iron, total		510	<	100	UG/L	11/23/93	METALS
A84412-17	Beaver Dam Down	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-17	Beaver Dam Down	Manganese, total		71	<	15	UG/L	11/23/93	METALS
A84412-17	Beaver Dam Down	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-17	Beaver Dam Down	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-17	Beaver Dam Down	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-17	Beaver Dam Down	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-17	Beaver Dam Down	Sodium, total	<	5000	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-17	Beaver Dam Down	pH, units		7.45		--	--	11/11/93	pH
A84412-17	Beaver Dam Down	Total Dissolved Solids		110000	<	10000	UG/L	11/11-12/93	TOTAL DISSOLVED SOLIDS
A84412-17	Beaver Dam Down	Conductivity, umhos/cm @25°C		80	<	--	--	11/13/93	CONDUCTIVITY
A84412-17	Beaver Dam Down	Nitrite-N	<	20	<	20	UG/L	11/11/93	NITRITE
A84412-17	Beaver Dam Down	Chloride		5200		--	UG/L	11/30/93	CHLORIDE
A84412-17	Beaver Dam Down	Fluoride	<	100		--	UG/L	11/24/93	FLUORIDE
A84412-17	Beaver Dam Down	Phenolics, total, as phenol		12	<	10	UG/L	11/29/93	PHENOLICS
A84412-17	Beaver Dam Down	Sulfate		9600		--	UG/L	11/16/93	SULFATE
A84412-17	Beaver Dam Down	Total Organic Carbon		2500	<	500	UG/L	11/18/93	SULFATE

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-18	Beaver Dam Up	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-18	Beaver Dam Up	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-18	Beaver Dam Up	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-18	Beaver Dam Up	Calcium, total		5200	<	5000	UG/L	11/23/93	METALS
A84412-18	Beaver Dam Up	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-18	Beaver Dam Up	Iron, total		410	<	100	UG/L	11/23/93	METALS
A84412-18	Beaver Dam Up	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-18	Beaver Dam Up	Manganese, total		36	<	15	UG/L	11/23/93	METALS
A84412-18	Beaver Dam Up	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-18	Beaver Dam Up	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-18	Beaver Dam Up	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-18	Beaver Dam Up	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-18	Beaver Dam Up	Sodium, total	<	5000	<	5000	UG/L	11/23/93	METALS
A84412-18 Duplicate	Beaver Dam Up	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-18 Duplicate	Beaver Dam Up	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-18 Duplicate	Beaver Dam Up	Calcium, total		5100	<	5000	UG/L	11/23/93	METALS
A84412-18 Duplicate	Beaver Dam Up	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-18 Duplicate	Beaver Dam Up	Iron, total		390	<	100	UG/L	11/23/93	METALS
A84412-18 Duplicate	Beaver Dam Up	Manganese, total		37	<	15	UG/L	11/23/93	METALS
A84412-18 Duplicate	Beaver Dam Up	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-18 Duplicate	Beaver Dam Up	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-18 Duplicate	Beaver Dam Up	Sodium, total	<	5000	<	5000	UG/L	11/23/93	METALS

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
GENERAL CHEMISTRY									
A84412-18	Beaver Dam Up	pH, units		7.50		--	--	11/11/93	pH
A84412-18	Beaver Dam Up	Total Dissolved Solids		75000	<	10000	UG/L	11/11-12/93	TOTAL DISSOLVED SOLIDS
A84412-18	Beaver Dam Up	Conductivity, umhos/cm @25°C		72	<	--	--	11/13/93	CONDUCTIVITY
A84412-18	Beaver Dam Up	Nitrite-N	<	20	<	20	UG/L	11/11/93	NITRITE
A84412-18	Beaver Dam Up	Chloride		2900		--	UG/L	11/30/93	CHLORIDE
A84412-18	Beaver Dam Up	Fluoride	<	100		--	UG/L	11/24/93	FLUORIDE
A84412-18	Beaver Dam Up	Phenolics, total, as phenol	<	10	<	10	UG/L	11/29/93	PHENOLICS
A84412-18	Beaver Dam Up	Sulfate		4100		--	UG/L	11/16/93	SULFATE
A84412-18	Beaver Dam Up	Total Organic Carbon		2600	<	500	UG/L	11/18/93	TOTAL ORGANIC CARBON

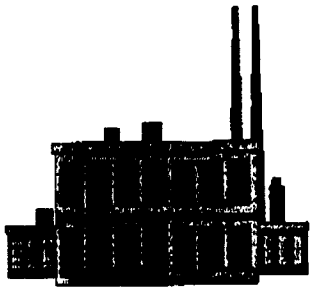
Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

COMPLETION FORM 10:704-646-6892 MAR 01'95 13:26 NO.008 P.12

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-19	MW-8	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-19	MW-8	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-19	MW-8	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-19	MW-8	Calcium, total	<	5000	<	5000	UG/L	11/23/93	METALS
A84412-19	MW-8	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-19	MW-8	Iron, total		7700	<	100	UG/L	11/23/93	METALS
A84412-19	MW-8	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-19	MW-8	Manganese, total		120	<	15	UG/L	11/23/93	METALS
A84412-19	MW-8	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-19	MW-8	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-19	MW-8	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-19	MW-8	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-19	MW-8	Sodium, total	<	5000	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-19	MW-8	pH, units		6.82		--	--	11/11/93	pH
A84412-19	MW-8	Total Dissolved Solids		81000	<	10000	UG/L	11/11-12/93	TOTAL DISSOLVED SOLIDS
A84412-19	MW-8	Conductivity, umhos/cm @25°C		80	<	--	--	11/13/93	CONDUCTIVITY
A84412-19	MW-8	Nitrite-N	<	20	<	20	UG/L	11/11/93	NITRITE
A84412-19	MW-8	Chloride		1200		--	UG/L	11/30/93	CHLORIDE
A84412-19	MW-8	Fluoride		110		--	UG/L	11/24/93	FLUORIDE
A84412-19	MW-8	Phenolics, total, as phenol	<	10	<	10	UG/L	11/29/93	PHENOLICS
A84412-19	MW-8	Sulfate		15000		--	UG/L	11/16/93	SULFATE
A84412-19	MW-8	Total Organic Carbon		1500	<	500	UG/L	11/18/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

MAR 01 '95 13:26 No.008 P.17



FAX COVER SHEET
ENVIRONMENTAL, OCCUPATIONAL, HEALTH AND SAFETY.
CHAMPION INTERNATIONAL CORP.
CANTON MILL

TO: Anita Trecartin

FROM: Jim Giangue

DATE: **TIME:** 3/1/95 12:50

NUMBER OF PAGES:
(INCLUDING COVER) 67

NOTE: Landfill #6 Monitoring Well data per request of Bill Morris

SENDERS PHONE NUMBER: (704) 646- 2028
FAX NUMBER:(704) 646-6892
FAX PROBLEMS: (704) 646-6700

Continued
Again

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-20	MW-12	Arsenic, total	<	10	<	10	UG/L	11/21-22/93	METALS
A84412-20	MW-12	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-20	MW-12	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-20	MW-12	Calcium, total	<	5000	<	5000	UG/L	11/23/93	METALS
A84412-20	MW-12	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-20	MW-12	Iron, total		2800	<	100	UG/L	11/23/93	METALS
A84412-20	MW-12	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-20	MW-12	Manganese, total		84	<	15	UG/L	11/23/93	METALS
A84412-20	MW-12	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-20	MW-12	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-20	MW-12	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-20	MW-12	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-20	MW-12	Sodium, total	<	5000	<	5000	UG/L	11/23/93	METALS
GENERAL CHEMISTRY									
A84412-20	MW-12	pH, units		6.48		--	--	11/11/93	pH
A84412-20	MW-12	Total Dissolved Solids		78000	<	10000	UG/L	11/11-12/93	TOTAL DISSOLVED SOLIDS
A84412-20	MW-12	Conductivity, umhos/cm @25°C		76	<	--	--	11/13/93	CONDUCTIVITY
A84412-20	MW-12	Nitrite-N	<	20	<	20	UG/L	11/11/93	NITRITE
A84412-20	MW-12	Chloride		1800		--	UG/L	11/30/93	CHLORIDE
A84412-20	MW-12	Fluoride	<	100		--	UG/L	11/24/93	FLUORIDE
A84412-20	MW-12	Phenolics, total, as phenol	<	10	<	10	UG/L	11/29/93	PHENOLICS
A84412-20	MW-12	Sulfate		13000		--	UG/L	11/16/93	SULFATE
A84412-20	MW-12	Total Organic Carbon		2700	<	500	UG/L	11/18/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-21	MW-14	Arsenic, total	<	10	<	10	UG/L	11/23/93	METALS
			<	10 *					
A84412-21	MW-14	Barium, total		710	<	200	UG/L	11/22/93	METALS
A84412-21	MW-14	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-21	MW-14	Calcium, total		6700	<	5000	UG/L	11/23-24/93	METALS
A84412-21	MW-14	Chromium, total		65	<	50	UG/L	11/22/93	METALS
A84412-21	MW-14	Iron, total		34000	<	100	UG/L	11/23-24/93	METALS
A84412-21	MW-14	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
			<	50 *					
A84412-21	MW-14	Manganese, total		1000	<	15	UG/L	11/23-24/93	METALS
A84412-21	MW-14	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-21	MW-14	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-21	MW-14	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
			<	10 *					
A84412-21	MW-14	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-21	MW-14	Sodium, total		7100	<	5000	UG/L	11/24/93	METALS

* Duplicate analysis.

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	
GENERAL CHEMISTRY									
A84412-21	MW-14	pH, units		6.49		--	--	11/11/93	pH
				6.52 *					
A84412-21	MW-14	Total Dissolved Solids		140000	<	10000	UG/L	11/11-12/93	TOTAL DISSOLVED SOLIDS
A84412-21	MW-14	Conductivity, umhos/cm @25°C		110	<	--	--	11/13/93	CONDUCTIVITY
				110 *					
A84412-21	MW-14	Nitrite-N	<	20	<	20	UG/L	11/11/93	NITRITE
A84412-21	MW-14	Chloride		17000		--	UG/L	11/30/93	CHLORIDE
A84412-21	MW-14	Fluoride	<	100		--	UG/L	11/24/93	FLUORIDE
A84412-21	MW-14	Phenolics, total, as phenol	<	10	<	10	UG/L	11/29/93	PHENOLICS
A84412-21	MW-14	Sulfate	<	1000		--	UG/L	11/16/93	SULFATE
A84412-21	MW-14	Total Organic Carbon		2400	<	500	UG/L	11/29-30/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

* Duplicate analysis.

CONFIRMATION COPY 11:704-640-6892 MAR 01 '95 14:55 NO.009 P.04

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-22	MW-2	Arsenic, total		63	<	10	UG/L	11/23/93	METALS
A84412-22	MW-2	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-22	MW-2	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-22	MW-2	Calcium, total	<	5000	<	5000	UG/L	11/23-24/93	METALS
A84412-22	MW-2	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-22	MW-2	Iron, total		4000	<	100	UG/L	11/23-24/93	METALS
A84412-22	MW-2	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-22	MW-2	Manganese, total		27	<	15	UG/L	11/23-24/93	METALS
A84412-22	MW-2	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-22	MW-2	Nickel, total		270	<	40	UG/L	11/22/93	METALS
A84412-22	MW-2	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-22	MW-2	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-22	MW-2	Sodium, total		2400000	<	5000	UG/L	11/24/93	METALS
GENERAL CHEMISTRY									
A84412-22	MW-2	pH, units		9.69		--	--	11/13/93	pH
A84412-22	MW-2	Total Dissolved Solids		8200000	<	10000	UG/L	11/17-18/93	TOTAL DISSOLVED SOLIDS
A84412-22	MW-2	Conductivity, umhos/cm @25°C		10000	<	--	--	11/13/93	CONDUCTIVITY
A84412-22	MW-2	Nitrite-N	<	20	<	20	UG/L	11/12/93	NITRITE
A84412-22	MW-2	Chloride		360000	<	1000	UG/L	12/14/93	CHLORIDE
A84412-22	MW-2	Fluoride		6500	<	150	UG/L	12/14 & 15/93	FLUORIDE
A84412-22	MW-2	Phenolics, total, as phenol		11	<	10	UG/L	12/1/93	PHENOLICS
A84412-22	MW-2	Sulfate		2300000	<	1000000	UG/L	12/15/93	SULFATE
A84412-22	MW-2	Total Organic Carbon		230000	<	500	UG/L	11/29-30/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

CORRELATION EUTS 11:704-640-6892 MAR 01'95 14:55 NO.009 P.05

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-23	MW-15	Arsenic, total	<	10	<	10	UG/L	11/23/93	METALS
A84412-23	MW-15	Barium, total		2500	<	200	UG/L	11/22/93	METALS
A84412-23	MW-15	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-23	MW-15	Calcium, total		5400	<	5000	UG/L	11/23-24/93	METALS
A84412-23	MW-15	Chromium, total		170	<	50	UG/L	11/22/93	METALS
A84412-23	MW-15	Iron, total		190000	<	100	UG/L	11/23-24/93	METALS
A84412-23	MW-15	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-23	MW-15	Manganese, total		2000	<	15	UG/L	11/23-24/93	METALS
A84412-23	MW-15	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-23	MW-15	Nickel, total		90	<	40	UG/L	11/22/93	METALS
A84412-23	MW-15	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-23	MW-15	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-23	MW-15	Sodium, total	<	5000	<	5000	UG/L	11/24/93	METALS
A84412-23 Duplicate	MW-15	Barium, total		2600	<	200	UG/L	11/22/93	METALS
A84412-23 Duplicate	MW-15	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-23 Duplicate	MW-15	Calcium, total		5600	<	5000	UG/L	11/23-24/93	METALS
A84412-23 Duplicate	MW-15	Chromium, total		180	<	50	UG/L	11/22/93	METALS
A84412-23 Duplicate	MW-15	Iron, total		200000	<	100	UG/L	11/23-24/93	METALS
A84412-23 Duplicate	MW-15	Manganese, total		2000	<	15	UG/L	11/23-24/93	METALS
A84412-23 Duplicate	MW-15	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-23 Duplicate	MW-15	Nickel, total		91	<	40	UG/L	11/22/93	METALS
A84412-23 Duplicate	MW-15	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-23 Duplicate	MW-15	Sodium, total	<	5000	<	5000	UG/L	11/24/93	METALS

CHAMPION ECHS ID:704-645-6892 MAR 01'95 14:56 NO.003 P.06

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
GENERAL CHEMISTRY									
A84412-23	MW-15	pH, units		6.91		--	--	11/13/93	pH
A84412-23	MW-15	Total Dissolved Solids		40000	<	10000	UG/L	11/17-18/93	TOTAL DISSOLVED SOLIDS
A84412-23	MW-15	Conductivity, umhos/cm @25°C		46	<	--	--	11/13/93	CONDUCTIVITY
A84412-23	MW-15	Nitrite-N	<	20	<	20	UG/L	11/12/93	NITRITE
A84412-23	MW-15	Chloride	<	1000		--	UG/L	11/30/93	CHLORIDE
A84412-23	MW-15	Fluoride	<	100		--	UG/L	11/30/93	FLUORIDE
A84412-23	MW-15	Phenolics, total, as phenol		32	<	10	UG/L	12/1/93	PHENOLICS
A84412-23	MW-15	Sulfate		7200		--	UG/L	11/17/93	SULFATE
A84412-23	MW-15	Total Organic Carbon		1700	<	500	UG/L	11/29-30/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

CHAMPION ENVS 10:704-846-5892 MAR 02'95 14:56 NO.008 P.07

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-24	MW-1A	Arsenic, total	<	10	<	10	UG/L	11/23/93	METALS
A84412-24	MW-1A	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-24	MW-1A	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-24	MW-1A	Calcium, total	<	5000	<	5000	UG/L	11/23-24/93	METALS
A84412-24	MW-1A	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-24	MW-1A	Iron, total		10000	<	100	UG/L	11/23-24/93	METALS
A84412-24	MW-1A	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-24	MW-1A	Manganese, total		270	<	15	UG/L	11/23-24/93	METALS
A84412-24	MW-1A	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-24	MW-1A	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-24	MW-1A	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-24	MW-1A	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-24	MW-1A	Sodium, total	<	5000	<	5000	UG/L	11/24/93	METALS
GENERAL CHEMISTRY									
A84412-24	MW-1A	pH, units		6.7		--	--	11/13/93	pH
A84412-24	MW-1A	Total Dissolved Solids		31000	<	10000	UG/L	11/17-18/93	TOTAL DISSOLVED SOLIDS
A84412-24	MW-1A	Conductivity, umhos/cm @25°C		43	<	--	--	11/13/93	CONDUCTIVITY
A84412-24	MW-1A	Nitrite-N	<	20	<	20	UG/L	11/12/93	NITRITE
A84412-24	MW-1A	Chloride	<	1000		--	UG/L	11/30/93	CHLORIDE
A84412-24	MW-1A	Fluoride	<	100		--	UG/L	11/30/93	FLUORIDE
A84412-24	MW-1A	Phenolics, total, as phenol	<	10	<	10	UG/L	12/1/93	PHENOLICS
A84412-24	MW-1A	Sulfate	<	1000		--	UG/L	11/17/93	SULFATE
A84412-24	MW-1A	Total Organic Carbon		1600	<	500	UG/L	11/29-30/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

CONFIRMATION COPY ID:704-645-6892 MAR 01 '95 14:56 NO.005 P.08

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-25	MW-5A	Arsenic, total	<	10	<	10	UG/L	11/23/93	METALS
A84412-25	MW-5A	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-25	MW-5A	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-25	MW-5A	Calcium, total	<	5000	<	5000	UG/L	11/23-24/93	METALS
A84412-25	MW-5A	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-25	MW-5A	Iron, total		5800	<	100	UG/L	11/23-24/93	METALS
A84412-25	MW-5A	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-25	MW-5A	Manganese, total		600	<	15	UG/L	11/23-24/93	METALS
A84412-25	MW-5A	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-25	MW-5A	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-25	MW-5A	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-25	MW-5A	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-25	MW-5A	Sodium, total		8000	<	5000	UG/L	11/24/93	METALS
GENERAL CHEMISTRY									
A84412-25	MW-5A	pH, units		6.31 6.34 *		--	--	11/13/93	pH
A84412-25	MW-5A	Total Dissolved Solids		56000	<	10000	UG/L	11/17-18/93	TOTAL DISSOLVED SOLIDS
A84412-25	MW-5A	Conductivity, umhos/cm @25°C		110	<	--	--	11/13/93	CONDUCTIVITY
A84412-25	MW-5A	Nitrite-N	<	20	<	20	UG/L	11/12/93	NITRITE
A84412-25	MW-5A	Chloride		11000		--	UG/L	11/30/93	CHLORIDE
A84412-25	MW-5A	Fluoride	<	100		--	UG/L	11/30/93	FLUORIDE
A84412-25	MW-5A	Phenolics, total, as phenol	<	10	<	10	UG/L	12/1/93	PHENOLICS
A84412-25	MW-5A	Sulfate		54000		--	UG/L	11/17/93	SULFATE
A84412-25	MW-5A	Total Organic Carbon		1300	<	500	UG/L	11/29-30/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

* Duplicate analysis.

CHAMPION ECHS ID:704-646-5892 MAR 01'95 14:51 No.009 P.09

AKEM ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-26	MW-3A	Arsenic, total	<	10	<	10	UG/L	11/23/93	METALS
A84412-26	MW-3A	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-26	MW-3A	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-26	MW-3A	Calcium, total		11000	<	5000	UG/L	11/23-24/93	METALS
A84412-26	MW-3A	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-26	MW-3A	Iron, total		3800	<	100	UG/L	11/23-24/93	METALS
A84412-26	MW-3A	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-26	MW-3A	Manganese, total		32	<	15	UG/L	11/23-24/93	METALS
A84412-26	MW-3A	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-26	MW-3A	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-26	MW-3A	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-26	MW-3A	Silver, total		18	<	50	UG/L	11/22/93	METALS
A84412-26	MW-3A	Sodium, total		7100	<	5000	UG/L	11/24/93	METALS
GENERAL CHEMISTRY									
A84412-26	MW-3A	pH, units		7.64		--	--	11/13/93	pH
A84412-26	MW-3A	Total Dissolved Solids		98000	<	10000	UG/L	11/17-18/93	TOTAL DISSOLVED SOLIDS
A84412-26	MW-3A	Conductivity, umhos/cm @25°C		130	<	--	--	11/13/93	CONDUCTIVITY
A84412-26	MW-3A	Nitrite-N	<	20	<	20	UG/L	11/12/93	NITRITE
A84412-26	MW-3A	Chloride	<	1000		--	UG/L	11/30/93	CHLORIDE
A84412-26	MW-3A	Fluoride		120		--	UG/L	11/30/93	FLUORIDE
A84412-26	MW-3A	Phenolics, total, as phenol	<	10	<	10	UG/L	12/1/93	PHENOLICS
A84412-26	MW-3A	Sulfate		9200		--	UG/L	11/17/93	SULFATE
A84412-26	MW-3A	Total Organic Carbon		2500	<	500	UG/L	11/29-30/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

CHAMPION ENTS ID:704-646-5892 MAR 01'95 14:57 NO.009 P.10

AKEN ID	CLIENT ID	CONTAMINANT	FLAG	RESULT	FLAG	METHOD BLANK	UNITS	ANALYSIS DATE	ANALYSIS GROUP
METALS									
A84412-27	MW-13	Arsenic, total	<	10	<	10	UG/L	11/23/93	METALS
A84412-27	MW-13	Barium, total	<	200	<	200	UG/L	11/22/93	METALS
A84412-27	MW-13	Cadium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-27	MW-13	Calcium, total		140000	<	5000	UG/L	11/23-24/93	METALS
A84412-27	MW-13	Chromium, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-27	MW-13	Iron, total		5300	<	100	UG/L	11/23-24/93	METALS
A84412-27	MW-13	Lead, total	<	50	<	50	UG/L	11/21/93	METALS
A84412-27	MW-13	Manganese, total		14000	<	15	UG/L	11/23-24/93	METALS
A84412-27	MW-13	Mercury, total	<	2.0	<	2.0	UG/L	11/30/93	METALS
A84412-27	MW-13	Nickel, total	<	40	<	40	UG/L	11/22/93	METALS
A84412-27	MW-13	Selenium, total	<	10	<	10	UG/L	11/22/93	METALS
A84412-27	MW-13	Silver, total	<	50	<	50	UG/L	11/22/93	METALS
A84412-27	MW-13	Sodium, total		910000	<	5000	UG/L	11/24/93	METALS
GENERAL CHEMISTRY									
A84412-27	MW-13	pH, units		6.69		--	--	11/13/93	pH
A84412-27	MW-13	Total Dissolved Solids		4200000	<	10000	UG/L	11/17-18/93	TOTAL DISSOLVED SOLIDS
A84412-27	MW-13	Conductivity, umhos/cm @25°C		4900	<	--	--	11/13/93	CONDUCTIVITY
A84412-27	MW-13	Nitrite-N	<	20	<	20	UG/L	11/12/93	NITRITE
A84412-27	MW-13	Chloride		220000		--	UG/L	11/30/93	CHLORIDE
A84412-27	MW-13	Fluoride	<	100		--	UG/L	11/30/93	FLUORIDE
A84412-27	MW-13	Phenolics, total, as phenol	<	10	<	10	UG/L	12/1/93	PHENOLICS
A84412-27	MW-13	Sulfate		3000000		--	UG/L	11/17/93	SULFATE
A84412-27	MW-13	Total Organic Carbon		7500	<	500	UG/L	11/29-30/93	TOTAL ORGANIC CARBON

Note: The pH analysis was performed in the laboratory and is supplied for informational purposes only.

CHAMPION ECHO 11:704-646-6892 MAR 01'95 14:57 No.009 P.11

AnalytiKEM

Quality Control Data for Metals

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Arsenic	A84412-10	100	100	96	4	70-116	10
Barium	A84412-8	300	97	99	2	60-119	5
Cadmium	A84412-8	300	88	90	2	66-110	4
Calcium	A84412-8	300	87	82	6	22-134	30
Chromium	A84412-8	300	95	95	0	72-106	4
Iron	A84412-8	300	94	96	2	65-109	15
Lead	A84412-10	100	88	90	2	65-110	4
Manganese	A84412-8	300	96	99	3	28-136	13
Mercury	A84412-9	20	102	81	23	63-129	5
Mercury	DI Water	20	103	--	--	63-129	5
Nickel	A84412-8	300	93	92	1	66-111	7
Selenium	A84412-10	100	94	102	8	75-125	30
Silver	A84412-8	300	35	47	29	10-131	30
Sodium	A84412-8	300	87	90	3	10-175	50
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 27 outside control limits

RPD: 0 out of 13 outside control limits

AnalytiKEM

Quality Control Data for Metals

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Arsenic	A84412-27	100	73	77	5	70-116	10
Barium	A84412-25	300	104	104	0	60-119	5
Cadmium	A84412-25	300	95	97	2	66-110	4
Calcium	A84412-25	300	100	107	7	22-134	30
Chromium	A84412-25	300	104	103	1	72-106	4
Iron	A84412-25	300	93	103	10	65-109	15
Lead	A84412-27	100	78	81	4	65-110	4
Manganese	A84412-25	300	102	109	7	28-136	13
Mercury	A84412-26	20	81	68	17	63-129	5
Mercury	DI Water	20	102	--	--	63-129	5
Nickel	A84412-25	300	100	100	0	66-111	7
Selenium	A84412-27	100	84	90	7	75-125	30
Silver	A84412-26	300	61	65	6	10-131	30
Sodium	A84412-26	300	108	108	0	10-175	50
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 27 outside control limits

RPD: 1 out of 13 outside control limits

AnalytiKEM

Quality Control Data for General Chemistry

Aqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Parameter	Sample Spiked	Amount of Spike	Recovery MS	Recovery MSD	RPD	Control Limits Recovery	Control Limits Max. RPD
Nitrite	A84412-1	50	96	96	0	81-110	8
Nitrite	A84412-11	50	101	103	2	81-110	8
Nitrite	A84412-21	50	108	108	0	81-110	8
Nitrite	A84412-27	50	100	100	0	81-110	8
Chloride	A84412-3	1,000 ǂ	107	106	1	72-128	18
Chloride	A84412-26	1,000 ǂ	107	104	3	72-128	18
Chloride	A84412-16	50,000	98	98	0	49-146	18
Fluoride	A84412-1	100 ǂ	114	110	4	57-143	09
Fluoride	A84412-21	100 ǂ	127	130	2	57-143	09
Fluoride	A84412-16	200	121	120	1	78-122	6
Phenolics	A31996-1	10 ǂ	98	98	0	26-144	25
Phenolics	A31923-1	10 ǂ	91	91	0	26-144	25
Phenolics	A31930-6	10 ǂ	87	85	2	26-144	25
Sulfate	A84412-6	1,000 ǂ	92	92	0	57-144	15
Sulfate	A84412-12	1,000 ǂ	96	98	2	57-144	15
Sulfate	A31971-5	1,000 ǂ	104	100	4	57-144	15
Sulfate	A84566-1	10,000	108	116	7	67-133	19
Total Organic Carbon	A84412-23	20 ǂ	105	115	9	29-180	36
Total Organic Carbon	A84447-1	20 ǂ	107	111	4	29-180	36
Total Organic Carbon	A84464-3	20 ǂ	103	122	17	29-180	36
Units		(ppb)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 40 outside control limits

RPD: 0 out of 20 outside control limits

ǂ (ug)

AnalytiKEM An American NuKEM Company

AnalytiKEM Inc.
2324 Vernedale Road
Rock Hill, SC 29731
803/324-6310 (Phone)
803/324-3982 (Fax)

Date	Dec. 17, 1993
To	
Company	
From	QA
Extension	1252

If you do not receive 2 page(s) plus this cover, contact me at the above number and extension as soon as possible.

Message:

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AnalytiKEM An American NuKEM Company

AnalytiKEM Inc.
2324 Vernesdale Road
Rock Hill, SC 29731
803/324-5910

TEST REPORT NO. R084412B

December 17, 1993

Prepared for: Rust Environment & Infrastructure

Verbal

Attention: Joe Harrigan

Project: Landfill 5 & 6

Certification No. 46067

Date Sampled: 12/03/93

Date of Sample Receipt: 12/08/93

Reviewed & Approved by: Karen Talewsky

AnalytiKEM

Analytical Results for General Chemistry (Aqueous)

Sample Designation

Method Number	Parameter	Method Blank	R084412B-16 Seven Up	R084412B-22 MW-2
325.3	Chloride	< 1,000	3,400	360,000
340.1	Fluoride	< 150	< 150	6,500
	Units	(ppb)	(ppb)	(ppb)

Method Number	Parameter	Method Blank	R084412B-16 Seven Up	Method Blank	R084412B-22 MW-2
375.4	Sulfate	< 10,000	< 10,000	< 1,000,000	2,300,000
	Units	(ppb)	(ppb)	(ppb)	(ppb)

Note: Dilution due to high concentration of targeted compounds for sample #22 (SO_4), therefore increased detection limits.

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46431

Received: 13 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46431-1	84412-22	11-11-93
46431-2	84412-23	11-11-93
46431-3	84412-24	11-11-93
46431-4	84412-25	11-11-93
46431-5	84412-26	11-11-93

PARAMETER	46431-1	46431-2	46431-3	46431-4	46431-5
Total Organic Halogen, mg/l	0.22	<0.010	<0.010	<0.010	<0.010
	MW-2	MW-15	MW-1A	MW-5A	MW-3A

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: 93-46431

Received: 13 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46431-6	84412-27	11-11-93

PARAMETER	46431-6
Total Organic Halogen, mg/l	0.14

AW-13

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

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LOG NO: S3-46431

Received: 13 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
46431-7	Method Blank
46431-8	LCS/LCS Duplicate % Recovery
46431-9	LCS % RPD
46431-10	Date Analyzed

PARAMETER	46431-7	46431-8	46431-9	46431-10
Total Organic Halogen, mg/l	<0.010	91/100 %	9.4 %	11.24.93

Methods: EPA 40 CFR Part 136

Linda A. Wolfe

Linda A. Wolfe

Final Page Of Report

AnalytiKEM An American NuKEM Company AB# 7125344225 **JOB #** 4412

☐ 28 Springdale Road
Cherry Hill, New Jersey 08003
(609) 751-1122 • (215) 923-2068
Fax: (609) 751-0824

☐ 2925 Richmond Avenue
Houston, Texas 77098
(713) 520-1495
Fax: (713) 523-7107

☑ 2324 Vernsdale Road
Rock Hill, South Carolina 29730
(803) 324-5310
Fax: (803) 324-3982

Analysis Request and Chain-of-Custody

Client: Analytikem Project: 84412 AnalytiKEM Contact: Patti de Andino

LAB I.D. NO.	FIELD SAMPLE I.D. NO.	DATE	USE 24 HR. CLOCK TIME	MATRIX	40 ml vials	950 ml Org. Pres.	ml Unpres.	ml Unpres.	ml HNO_3	250 ml H_2SO_4	ml H_2SO_4	ml NaOH				ANALYSIS REQUESTED PARAMETERS
MW-2	84412-22	11/11/93	0845	Water						1						TOX
MW-15	-23		0950							1						
MW-1A	-24		1045							1						
MW-5A	-25		1130							1						
MW-3A	-26		1215							1						
MW-13	-27		1300							1						
																Results Due By: 12-2-9

1. Field Measurements:
   Data Sheets: Y N
   Filtered: Y Not Required
2. Chain of Custody
   Seal No. _____

II. Field Conditions/Comments: _____

III. Special Instructions: _____
(Detection Limits, Data Package, etc.)

Relinquished By:	Date/Time (use 24 hr. clock)	Received By:	Date/Time (use 24 hr. clock)
Print Name: Skip Sawyer Signature: Skip Sawyer	11/12/93 1700	Print Name: FED EX Signature:	11/12/93 1700
Print Name: FED EX Signature:	11/13/93	Print Name: L. Bonds Signature: L. Bonds 53-46431	11-13-93 10:45 am

CHAMPION ECHO ID:704-646-6892 MAR 01'95 15:01 No.009 P.21

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: 93-46473

Received: 16 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46473-1	84412-18	11-12-93

PARAMETER	46473-1
Total Organic Halogen, mg/l	<0.010

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46473

Received: 16 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
46473-2	Method Blank
46473-3	LCS/LCS Duplicate % Recovery
46473-4	LCS % RPD
46473-5	Date Analyzed

PARAMETER	46473-2	46473-3	46473-4	46473-5
Total Organic Halogen, mg/l	<0.010	91/100 %	9.4 %	11.24.93

Methods: EPA 40 CFR Part 136

Linda A. Wolfe

Linda A. Wolfe

Final Page Of Report

AnalytiKEM An American NuKEM Company AB# 7125344214 JOB # 84412

☐ 28 Springdale Road
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Fax: (609) 751-0824

☐ 2925 Richmond Avenue
Houston, Texas 77098
(713) 520-1495
Fax: (713) 523-7107

Analysis Request and Chain-of-Custody

☑ 2324 Vernsdale Road
Rock Hill, South Carolina 29730
(803) 324-5310
Fax: (803) 324-3982

Client: Analytikem Project: 84412 AnalytiKEM Contact: Patti de Andino

LAB I.D. NO.	FIELD SAMPLE I.D. NO.	DATE	USE 24 HR. CLOCK TIME	MATRIX	40 ml vials	950 ml Org. Pres.	ml Unpres.	ml Unpres.	ml HNO_3	2.52 ml H_2SO_4	ml H_2SO_4	ml NaOH				ANALYSIS REQUESTED PARAMETERS
BD-4P	84412-18	11/12/93	1520	Water						1						TOX
																Results Due By 12-2-9

1. Field Measurements:
   Data Sheets: Y N
   Filtered: Y Not Required
2. Chain of Custody
   Seal No. _____

II. Field Conditions/Comments: _____

III. Special Instructions: _____
(Detection Limits, Data Package, etc.)

Relinquished By:	Date/Time (use 24 hr. clock)	Received By:	Date/Time (use 24 hr. clock)
Print Name: Skip Sawyer	11/15/93 1700	Print Name: Fed Ex	11/15/93 1700
Signature: Skip Sawyer		Signature:	
Print Name: Fed Ex	11/16/93	Print Name: L. Baker 46473	111
Signature:		Signature: L Baker	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46400

Received: 12 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46400-1	84412-13	11-10-93
46400-2	84412-14	11-10-93
46400-3	84412-15	11-10-93
46400-4	84412-16	11-10-93
46400-5	84412-17	11-10-93

PARAMETER	46400-1	46400-2	46400-3	46400-4	46400-5
Total Organic Halogen, mg/l	0.89	0.92	<0.010	<0.010	<0.010
	Clyde Br.	Fibreville Br.	Bowen Dn.	Bowen Up	Beaver Dam Dn.

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

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LOG NO: S3-46400

Received: 12 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernedale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46400-6	84412-19	11-10-93
46400-7	84412-20	11-10-93
46400-8	84412-21	11-10-93

PARAMETER	46400-6	46400-7	46400-8
Total Organic Halogen, mg/l	<0.010	<0.010	<0.010
	MW-8	MW-12	MW-14

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

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LOG NO: S3-46400

Received: 12 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
46400-9	Method Blank
46400-10	LCS/LCS Duplicate % Recovery
46400-11	LCS % RPD
46400-12	Date Analyzed

PARAMETER	46400-9	46400-10	46400-11	46400-12
Total Organic Halogen, mg/l	<0.010	91/100 %	9.4 %	11.24.93

Methods: EPA 40 CFR Part 136

Linda A. Wolfe

Linda A. Wolfe

Final Page Of Report

AnalytiKEM An American NuKEM Company AB# 7125344236 **JOB #** 1412

☐ 28 Springdale Road
Cherry Hill, New Jersey 08003
(609) 751-1122 • (215) 923-2068
Fax: (609) 751-0824

☐ 2925 Richmond Avenue
Houston, Texas 77098
(713) 520-1495
Fax: (713) 523-7107

Analysis Request and Chain-of-Custody

☑ 2324 Vernsdale Road
Rock Hill, South Carolina 29730
(803) 324-5310
Fax: (803) 324-3982

Client: Analytikem Project: 84412 AnalytiKEM Contact: Patti de Andino

LAB I.D. NO.	FIELD SAMPLE I.D. NO.	DATE	USE 24 HR. CLOCK TIME	MATRIX	40 ml vials	950 ml Org. Pres.	ml Unpres.	ml Unpres.	ml HNO_3	250 ml H_2SO_4 to pH<2	ml H_2SO_4	ml NaOH				ANALYSIS REQUESTED PARAMETERS
C Br	84412 - 13	11/10/93	0815	Water						1						TOX
FV Br	-14		0845							1						
B. dn	-15		1030							1						
B. up	-16		1110							1						
BD dn	-17		1140							1						
MW-8	-19		1405 ~~1500~~							1						
MW-12	-20		1530							1						
MW-14	-21		1630							1						

RESULTS DUE BY 12-2-93

1. Field Measurements:
   Data Sheets: Y N
   Filtered: Y Not Required
2. Chain of Custody
   Seal No. _____

II. Field Conditions/Comments: _____

III. Special Instructions: _____
(Detection Limits, Data Package, etc.)

Relinquished By:	Date/Time (use 24 hr. clock)	Received By:	Date/Time (use 24 hr. clock)
Print Name: Skip Sawyer Signature: Skip Sawyer	11/11/93 1700	Print Name: FED EX Signature:	11/11/93 1700
Print Name: FED EX Signature:	11/12/93	Print Name: L. Baker Signature: L Baker 46400	11/12/93 10:21

CHARLTON EDTS ID:704-646-6832 MAR 01'95 15:04 NO.009 P.26

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: 93-46377

Received: 11 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46377-1	84412-7	11-09-93
46377-2	84412-8	11-09-93
46377-3	84412-9	11-09-93
46377-4	84412-10	11-09-93
46377-5	84412-11	11-09-93

PARAMETER	46377-1	46377-2	46377-3	46377-4	46377-5
Total Organic Halogen, mg/l	<0.010	<0.010	0.025	0.046	0.086
	5B1	5C1	5C2	5B2	5B3

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46377

Received: 11 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46377-6	84412-12	11-09-93

PARAMETER	46377-6
Total Organic Halogen, mg/l	0.063

563

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46377

Received: 11 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
46377-7	Method Blank
46377-8	LCS/LCS Duplicate % Recovery
46377-9	LCS % RPD
46377-10	Date Analyzed

PARAMETER	46377-7	46377-8	46377-9	46377-10
Total Organic Halogen, mg/l	<0.010	90/92 %	2.2 %	11.23.93

Methods: EPA 40 CFR Part 136

Linda A Wolfe

Linda A. Wolfe

Final Page Of Report

AnalytiKEM An American NuKEM Company AB# 7125344240 **JOB #** 4412

☐ 28 Springdale Road
Cherry Hill, New Jersey 08003
(609) 751-1122 • (215) 923-2068
Fax: (609) 751-0824

☐ 2925 Richmond Avenue
Houston, Texas 77098
(713) 520-1495
Fax: (713) 523-7107

☑ 2324 Vernsdale Road
Rock Hill, South Carolina 29730
(803) 324-5310
Fax: (803) 324-3982

Analysis Request and Chain-of-Custody

Client: Analytikem Project: 84412 AnalytiKEM Contact: Pati de Andino

LAB I.D. NO.	FIELD SAMPLE I.D. NO.	DATE	USE 24 HR. CLOCK TIME	MATRIX	40 ml vials	950 ml Org. Pres.	ml Unpres.	ml Unpres.	ml HNO_3	250 ml H_2SO_4	ml H_2SO_4	ml NaOH				ANALYSIS REQUESTED PARAMETERS
SB1	84412-7	11/9/93	0900	Water						1						TOX
SC1	-8		1010							1						
SC2	-9		1100							1						
SB2	-10		1300							1						
SB3	-11		1400							1						
SC3	-12		1230							1						
																Results Due By 12-2-93

1. Field Measurements:
   Data Sheets: Y N
   Filtered: Y Not Required
2. Chain of Custody
   Seal No. _____

II. Field Conditions/Comments: _____

III. Special Instructions: _____
(Detection Limits, Data Package, etc.)

Relinquished By:	Date/Time (use 24 hr. clock)	Received By:	Date/Time (use 24 hr. clock)
Print Name: Skip Sawyer	11/10/93 1700	Print Name: Fed Ex	11/10/93 1700
Signature: Skip Sawyer		Signature:	
Print Name: Fed Ex	11/11/93	Print Name: L. Baker	11/11/93 10 89
Signature:		Signature: L Baker 46377	

CHAMELEON EDTS ID:704-646-6832 MAR 01 '95 15:06 NO.002 P.02

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: 93-46340

Received: 10 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernedale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46340-1	84412-1	11-08-93
46340-2	84412-2	11-08-93
46340-3	84412-3	11-08-93
46340-4	84412-4	11-08-93
46340-5	84412-5	11-08-93

PARAMETER	46340-1	46340-2	46340-3	46340-4	46340-5
Total Organic Halogen, mg/l	0.030	<0.010	<0.010	<0.010	0.035
	MW-4	MW-10	MW-9	MW-11	MW-7A

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46340

Received: 10 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
46340-6	84412-6	11-08-93

PARAMETER	46340-6
Total Organic Halogen, mg/l	0.035

MW-6

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-46340

Received: 10 NOV 93

Purchase Order: RH3683

Ms. Patty deAndino
AnalytiKEM
2324 Vernsdale Rd.
Rock Hill, SC 29731

CC: Sharon Burrell

Project: 84412
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
46340-7	Method Blank
46340-8	LCS/LCS Duplicate % Recovery
46340-9	LCS % RPD
46340-10	Date Analyzed

PARAMETER	46340-7	46340-8	46340-9	46340-10
Total Organic Halogen, mg/l	<0.010	99/91 %	8.4 %	11.22.93

Methods: EPA 40 CFR Part 136

Linda A. Wolfe

Linda A. Wolfe

Final Page Of Report

AnalytiKEM American NuKEM Company AB# 7125344251 JOB # 84412

☐ 28 Springdale Road
Cherry Hill, New Jersey 08003
(609) 751-1122 • (215) 923-2068
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(713) 520-1495
Fax: (713) 523-7107

☑ 2324 Vernsdale Road
Rock Hill, South Carolina 29730
(803) 324-5310
Fax: (803) 324-3982

Analysis Request and Chain-of-Custody

Client: AnalytiKem Project: 84412 AnalytiKEM Contact: Patti de Andino

LAB I.D. NO.	FIELD SAMPLE I.D. NO.	DATE	USE 24 HR. CLOCK TIME	MATRIX	40 ml vials	950 ml Org. Pres.	ml Unpres.	ml Unpres.	ml HNO_3	250 ml H_2SO_4	ml H_2SO_4	ml NaOH				ANALYSIS REQUESTED PARAMETERS
MW-4	84412-1	11/8/93	1050							1						TOX
MW-10	-2		1215							1						
MW-9	-3		1350							1						
MW-11	-4		1300							1						
MW-9A	-5		1555							1						
MW-6	-6		1635							1						
																Results Due By 12-2-93

1. Field Measurements:
   Data Sheets: Y N
   Filtered: Y Not Required
2. Chain of Custody
   Seal No. _____

II. Field Conditions/Comments: _____

III. Special Instructions: _____
(Detection Limits, Data Package, etc.)

Relinquished By:	Date/Time (use 24 hr. clock)	Received By:	Date/Time (use 24 hr. clock)
Print Name: Skip Sawyer Signature: Skip Sawyer	11/9/93 1700	Print Name: FED EX ~~J. Baker~~ LAB Signature: /	11/9/93 1700
Print Name: Fed Ex Signature:	11/10/93	Print Name: L. Baker Signature: J. Baker 46340	11/10/93 10:24

CHAMPION EOHS ID:704-646-6892 MAR 01'95 15:07 No.009 P.56

Roy F. Weston, Inc.
Suite E
1000 Perimeter Park Drive
Morrisville, North Carolina 27560
919-380-7410 • Fax 919-380-7130

21 July 1994

Mr. Jim Giauque
Champion International Corporation
Canton Pulp and Paper Mill
Main Street
Canton, North Carolina 28716

Re: Landfill Number 5 and Landfill Number 6 Semi-annual Groundwater and Surface Water Sampling and Analysis Letter Report

Dear Mr. Giauque:

Please find enclosed two bound copies and one unbound copy of the above referenced letter report. The report includes the chain-of-custodies, laboratory analytical reports and a summary table of field measured parameters for groundwater and surface water samples collected during the first half 1994 sampling at Landfill No.'s 5 and 6.

The samples were collected on 25, 26 and 31 May and 1 June 1994. At four well locations (MW-3A, MW-9, MW-12 and MW-13), the wells were purged on the calendar day prior to the day of sample collection. Slow groundwater recharge into these wells required overnight recovery in order to provide a sufficient volume of groundwater to fill the sample bottles. In all cases, samples were collected within 24 hours of purging at a given well. At well MW-2, very poor recharge of groundwater required that groundwater for different sample parameters be collected at three different dates, as follows: purged 26 May at 1900 hours, phenols sampled 27 May at 1250 hours; purged 31 May at 1425 hours, nitrate/nitrite sampled 31 May at 1855 hours; fluoride, chloride, sulfate, dissolved solids, pH, conductivity and metals sampled 1 June at 1030 hours; Total Organic Carbon and Total Organic Halides sampled 1 June at 1445 hours (with the earlier sampling serving as a purge). All parameters sampled from well MW-2 were collected within 24 hours of purging of the well.

All groundwater and surface water sampling procedures were conducted in accordance with guidelines published by the North Carolina Department of Environment, Health and Natural Resources, Division of Solid Waste Management. All analyses were performed by Hydrologic, Incorporated of Asheville, North Carolina. Analyses for some parameters (Total Organic

Carbon, Total Organic Halides, arsenic, selenium, sodium and barium) were conducted by Hydrologic Incorporated's Brentwood, Tennessee facility.

WESTON appreciates the opportunity to provide consulting services to Champion International Corporation. Please do not hesitate to call me at (919)380-7410 or Mr. Bill Beers at (610)701-3050 if you have any questions or comments regarding this report or other matters.

Very Truly Yours,

ROY F. WESTON, INC.

William C. Morris, Jr., P.G.
Project Manager

attachments

cc: Bill Beers, WESTON

TABLE 1
SUMMARY OF FIELD MEASURED PARAMETERS – FIRST HALF 1994 GROUNDWATER AND SURFACE WATER SAMPLING
LANDFILL NUMBER 5 AND LANDFILL NUMBER 6 – CANTON PULP AND PAPER MILL
CHAMPION INTERNATIONAL CORPORATION

SAMPLE LOCATION	SAMPLING DATE	pH (standard units)	TEMPERATURE (° Celcius)	CONDUCTIVITY (micromhos)	REDOX POTENTIAL (millivolts)	DISSOVED OXYGEN (milligrams/liter)
5B1	5/25/94	6.42	15.0	32	148	8.8
5B2	5/25/94	6.30	14.7	274	80	6.7
5B3	5/25/94	6.41	13.4	185	087	8.9
5C1	5/25/94	5.60	11.0	80	332	11.4
5C2	5/25/94	6.58	16.5	90	319	10.3
5C3	5/25/94	5.82	13.5	200	293	8.8
MW1A	6/01/94	6.07	13.4	32	278	11.68
MW2	5/27/94(a)	9.69	11.8	9000	52	3.7
MW2	5/31/94(b)	9.62	15.7	947	87	6.88
MW2	6/01/94(c)	–	–	–	–	–
MW3A	6/01/94*	6.04	13.7	530	279	6.64
MW4	6/01/94	6.20	14.3	285	41	5.04
MW5A	5/27/94	5.40	17	160	277	6.1
MW6	5/27/94	5.52	13	290	230	5.0
MW7A	5/27/94	5.71	13	250	277	5.9
MW8	5/26/94	6.28	15.2	65	133	6.45
MW9	5/27/94*	5.25	13.2	35	250	9.25
MW10	5/26/94	5.45	11.7	20	247	11.2
MW11	5/26/94	4.83	11.3	40	305	10.9
MW12	6/01/94*	6.26	12.8	94	354	11.25
MW13	6/01/94*	6.04	13.7	530	279	6.64
MW14	5/31/94	5.69	13.6	94	360	7.3
MW15	5/31/94	6.30	13	27	205	11.47
Bowen Creek Downstream	6/01/94	7.08	16.4	5.8	258	9.6
Bowen Creek Upstream	6/01/94	6.44	16.6	56	254	9.10
Beaverdam Creek Downstream	6/01/94	7.04	18.2	67	284	9.30
Beaverdam Creek Upstream	6/01/94	7.10	18.3	65	262	6.61
Fiberville Bridge	6/01/94	7.19	22.8	672	286	7.86
Clyde Bridge	6/01/94	7.56	22.3	524	270	8.66

(a)MW2 recovered very slowly after purging; first sample for phenols only.
(b)MW2 second sample for NOx only.
(c)Third sample for Fl,Cl,etc (taken within 24 hours of last readings).
*Sampling dates given; purge conducted within previous 24 hours.

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
41571	05/31/94	1830	DAVE	06/01/94	1635	WW
41572	05/31/94	1840	DAVE	06/01/94	1635	WW
41573	06/01/94	0820	DAVE	06/01/94	1635	WW

CLIENT STATION ID:		MW-15 CHAMPION	MW-14 CHAMPION	MW-12 CHAMPI
LAB #:		41571	41572	41573
PH.LAB	std units	6.2	5.8	6.1
TOTAL DISSOLVED SOLIDS	mg/l	35.0	80.0	62.0
SPECIFIC CONDUCTIVITY	umhos	25	109	81
CHLORIDE	mg/l	0.9	20.8	3.4
TOTAL ORGANIC CARBON	mg/l	3.0*	6.7*	3.9*
FLUORIDE	mg/l	< 0.5	< 0.5	< 0.5
NITRITE	mg/l	< 0.01	< 0.01	< 0.01
NITRATE	mg/l	1.75	3.02	4.98
SULFATE	mg/l	1.1	1.5	13.6
PHENOL, TOTAL	ug/l	< 6.7	< 6.7	< 6.0
MERCURY, TOTAL	mg/l	< 0.0002	< 0.0002	< 0.0002
TOTAL ORGANIC HALIDES	MG/L	0.006*	0.008*	< 0.005*
SILVER,TOTAL	mg/l	< 0.005	< 0.005	< 0.005
ARSENIC, TOTAL	mg/l	0.002	0.002	<0.001
BARIUM, TOTAL	mg/l	0.1*	0.1*	< 0.1*
CADMIUM, TOTAL	mg/l	0.001	< 0.001	0.001
CALCIUM, TOTAL	mg/l	2.569	6.608	5.219
CHROMIUM, TOTAL	mg/l	< 0.005	< 0.005	< 0.005
COPPER, TOTAL	mg/l	< 0.005	< 0.005	< 0.005

TOC, TOX, As, Se, Ba, & Na analysis performed by HydroLogic
Brentwood, TN.

LABORATORY DIRECTOR

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
41574	06/01/94	0840	DAVE	06/01/94	1635	WW
41575	06/01/94	0915	DAVE	06/01/94	1635	WW
41576	06/01/94	0940	DAVE	06/01/94	1635	WW

CLIENT STATION ID:		MW-3A CHAMPION	MW-13 CHAMPION	MW-4 CHAMP
LAB #:		41574	41575	41576
PH,LAB	std units	7.4	6.0	6.0
TOTAL DISSOLVED SOLIDS	mg/l	107.0	4013.0	2336.0
SPECIFIC CONDUCTIVITY	umhos	158	5350	3030
CHLORIDE	mg/l	2.9	187.8	234.6
TOTAL ORGANIC CARBON	mg/l	4.2*	7.4*	14*
FLUORIDE	mg/l	< 0.5	< 0.5	< 0.5
NITRITE	mg/l	< 0.01	< 0.01	< 0.01
NITRATE	mg/l	1.23	1.57	4.81
SULFATE	mg/l	6.6	4518.0	1250.6
PHENOL, TOTAL	ug/l	< 6.0	< 6.0	< 6.0
MERCURY, TOTAL	mg/l	< 0.0002	0.0003	0.0003
TOTAL ORGANIC HALIDES	MG/L	0.012*	0.236*	0.059*
SILVER,TOTAL	mg/l	< 0.005	< 0.005	< 0.005
ARSENIC, TOTAL	mg/l	<0.001	<0.001	<0.001
BARIUM, TOTAL	mg/l	0.1*	< 0.1*	0.2*
CADMIUM, TOTAL	mg/l	< 0.001	< 0.001	< 0.001
CALCIUM, TOTAL	mg/l	16.574	115.962	95.255
CHROMIUM, TOTAL	mg/l	< 0.005	< 0.005	0.006
COPPER, TOTAL	mg/l	< 0.005	< 0.005	< 0.005

TOC, TOX, As, Se, Ba, & Na analysis performed by HydroLogic
Brentwood, TN.

LABORATORY DIRECTOR

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE. NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
41577	06/01/94	1005	DAVE	06/01/94	1635	WW
41578	06/01/94	1030	DAVE	06/01/94	1635	WW
41579	06/01/94	1050	DAVE	06/01/94	1635	WW

CLIENT STATION ID:		MW-1A CHAMPION	MW-2 CHAMPION	BOWEN DOWN
LAB #:		41577	41578	41579
PH,LAB	std units	6.1	9.6	7.4
TOTAL DISSOLVED SOLIDS	mg/l	59.0	7768.0	134.0
SPECIFIC CONDUCTIVITY	umhos	33	12020	120
CHLORIDE	mg/l	0.9	395.2	2.7
TOTAL ORGANIC CARBON	mg/l	2.9*	356*	3.7*
FLUORIDE	mg/l	< 0.5	6.1	< 0.5
NITRITE	mg/l	< 0.01	< 0.01	< 0.01
NITRATE	mg/l	1.66	8.35	5.56
SULFATE	mg/l	2.8	1742.0	4.3
PHENOL, TOTAL	ug/l	< 6.0	N.R.	< 6.0
MERCURY, TOTAL	mg/l	< 0.0002	< 0.0002	< 0.0002
TOTAL ORGANIC HALIDES	MG/L	< 0.005*	0.361*	0.033*
SILVER,TOTAL	mg/l	< 0.005	< 0.005	< 0.005
ARSENIC, TOTAL	mg/l	<0.001	0.064	<0.001
BARIUM, TOTAL	mg/l	< 0.1*	< 0.1*	< 0.1*
CADMIUM, TOTAL	mg/l	< 0.001	< 0.001	0.001
CALCIUM, TOTAL	mg/l	2.437	3.298	3.765
CHROMIUM, TOTAL	mg/l	< 0.005	0.005	< 0.005
COPPER, TOTAL	mg/l	< 0.005	< 0.005	< 0.005

TOC, TOX, As, Se, Ba, & Na analysis performed by HydroLogic Brentwood, TN.

NOTE: N. R. = ANALYSIS NOT REQUIRED

LABORATORY DIRECTOR

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

SAMPLE				DELIVERY TO LAB		
LAB No.	DATE	TIME	SAMPLER	DATE	TIME	MATRIX
41580	06/01/94	1120	DAVE	06/01/94	1635	WW
41581	06/01/94	1245	DAVE	06/01/94	1635	WW
41582	06/01/94	1315	DAVE	06/01/94	1635	WW

CLIENT STATION ID:		BOWEN UPSTR.	BEAVER DOWN	BEAVER UPST
LAB #:		41580	41581	41582
PH.LAB	std units	7.3	7.4	7.4
TOTAL DISSOLVED SOLIDS	mg/1	38.0	42.0	37.0
SPECIFIC CONDUCTIVITY	umhos	54	69	64
CHLORIDE	mg/1	2.0	3.2	1.9
TOTAL ORGANIC CARBON	mg/1	4.0*	4.0*	2.8*
FLUORIDE	mg/1	< 0.5	< 0.5	< 0.5
NITRITE	mg/1	< 0.01	< 0.01	< 0.01
NITRATE	mg/1	3.40	3.09	2.28
SULFATE	mg/1	3.7	4.0	4.3
PHENOL, TOTAL	ug/1	6.1	< 6.0	< 6.0
MERCURY, TOTAL	mg/1	< 0.0002	< 0.0002	< 0.0002
TOTAL ORGANIC HALIDES	MG/L	< 0.005*	0.009*	0.005*
SILVER,TOTAL	mg/1	< 0.005	< 0.005	< 0.005
ARSENIC, TOTAL	mg/1	<0.001	<0.001	<0.001
BARIUM, TOTAL	mg/1	< 0.1*	< 0.1*	< 0.1*
CADMIUM, TOTAL	mg/1	0.001	< 0.001	< 0.001
CALCIUM, TOTAL	mg/1	3.392	5.252	4.855
CHROMIUM, TOTAL	mg/1	< 0.005	< 0.005	< 0.005
COPPER, TOTAL	mg/1	< 0.005	< 0.005	< 0.005

TOC, TOX, As, Se, Ba, & Na analysis performed by HydroLogic Brentwood, TN.

NOTE: N. R. = ANALYSIS NOT REQUIRED

LABORATORY DIRECTOR _____

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
41583	06/01/94	1340	DAVE	06/01/94	1635	WW
41584	06/01/94	1415	DAVE	06/01/94	1635	WW

CLIENT STATION ID:		FIBERVILLE	CLYDE
LAB #:		41583	41584
PH,LAB	std units	7.6	7.7
TOTAL DISSOLVED SOLIDS	mg/l	406.0	299.0
SPECIFIC CONDUCTIVITY	umhos	707	534
CHLORIDE	mg/l	54.7	41.7
TOTAL ORGANIC CARBON	mg/l	20*	18*
FLUORIDE	mg/l	< 0.5	< 0.5
NITRITE	mg/l	< 0.01	< 0.01
NITRATE	mg/l	3.17	2.30
SULFATE	mg/l	149.9	115.2
PHENOL, TOTAL	ug/l	< 6.0	< 6.0
MERCURY, TOTAL	mg/l	< 0.0002	< 0.0002
TOTAL ORGANIC HALIDES	MG/L	0.609*	0.438*
SILVER,TOTAL	mg/l	< 0.005	< 0.005
ARSENIC, TOTAL	mg/l	0.003	0.003
BARIUM, TOTAL	mg/l	< 0.1*	0.2*
CADMIUM, TOTAL	mg/l	< 0.001	< 0.001
CALCIUM, TOTAL	mg/l	15.289	12.570
CHROMIUM, TOTAL	mg/l	< 0.005	< 0.005
COPPER, TOTAL	mg/l	< 0.005	< 0.005

TOC, TOX, As, Se, Ba, & Na analysis performed by HydroLogic Brentwood, TN.

NOTE: N. R. = ANALYSIS NOT REQUIRED

LABORATORY DIRECTOR

REPORT OF ANALYSES

ROY WESTON
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SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
41571	05/31/94	1830	DAVE	06/01/94	1635	WW
41572	05/31/94	1840	DAVE	06/01/94	1635	WW
41573	06/01/94	0820	DAVE	06/01/94	1635	WW

		CLIENT STATION ID:	MW-15 CHAMPION	MW-14 CHAMPION	MW-12 CHAMPI
		LAB #:	41571	41572	41573
IRON, TOTAL	mg/l		2.849	0.669	0.416
POTASSIUM, TOTAL	mg/l		2.079	3.019	2.119
LEAD, TOTAL	mg/l		< 0.010	< 0.010	< 0.010
MAGNESIUM, TOTAL	mg/l		1.483	3.498	3.246
MANGANESE, TOTAL	mg/l		0.141	0.270	0.026
NICKEL, TOTAL	mg/l		< 0.005	< 0.005	< 0.005
SELENIUM, TOTAL	mg/l		< 0.002*	< 0.002*	< 0.002*
SODIUM, TOTAL	mg/l		2.790*	6.750*	4.920*
ZINC, TOTAL	mg/l		< 0.025	< 0.025	< 0.025

TOC, TOX, As, Se, Ba, & Na analysis performed by HydroLogic
Brentwood, TN.

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LABORATORY DIRECTOR

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
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MORRISVILLE, NC 27560-
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PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
41574	06/01/94	0840	DAVE	06/01/94	1635	WW
41575	06/01/94	0915	DAVE	06/01/94	1635	WW
41576	06/01/94	0940	DAVE	06/01/94	1635	WW

CLIENT STATION ID:		MW-3A CHAMPION	MW-13 CHAMPION	MW-4 CHAMPI
LAB #:		41574	41575	41576
IRON, TOTAL	mg/l	6.103	0.942	223.912
POTASSIUM, TOTAL	mg/l	3.286	12.544	15.432
LEAD, TOTAL	mg/l	< 0.010	< 0.010	< 0.010
MAGNESIUM, TOTAL	mg/l	3.247	83.021	67.548
MANGANESE, TOTAL	mg/l	0.049	11.701	10.904
NICKEL, TOTAL	mg/l	< 0.005	0.012	< 0.005
SELENIUM, TOTAL	mg/l	< 0.002*	0.067*	0.099*
SODIUM, TOTAL	mg/l	9.130*	1424.00*	220.000*
ZINC, TOTAL	mg/l	< 0.025	0.049	0.053

TOC, TOX, As, Se, Ba, & Na analysis performed by HydroLogic
Brentwood, TN.

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LABORATORY DIRECTOR

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

SAMPLE				DELIVERY TO LAB		
LAB No.	DATE	TIME	SAMPLER	DATE	TIME	MATRIX
41577	06/01/94	1005	DAVE	06/01/94	1635	WW
41578	06/01/94	1030	DAVE	06/01/94	1635	WW
41579	06/01/94	1050	DAVE	06/01/94	1635	WW

CLIENT STATION ID:		MW-1A CHAMPION	MW-2 CHAMPION	BOWEN DOWN
LAB #:		41577	41578	41579
IRON, TOTAL	mg/l	2.076	2.956	0.314
POTASSIUM, TOTAL	mg/l	2.112	51.559	2.037
LEAD, TOTAL	mg/l	0.010	0.018	0.010
MAGNESIUM, TOTAL	mg/l	1.405	0.495	1.489
MANGANESE, TOTAL	mg/l	0.214	0.053	0.042
NICKEL, TOTAL	mg/l	< 0.005	0.203	< 0.005
SELENIUM, TOTAL	mg/l	0.004*	0.018*	< 0.002*
SODIUM, TOTAL	mg/l	2.160*	21080.00	5.800*
ZINC, TOTAL	mg/l	0.065	< 0.025	0.037

TOC, TOX, As, Se, Ba, & Na analysis performed by HydroLogic Brentwood, TN.

NOTE: N. R. = ANALYSIS NOT REQUIRED

LABORATORY DIRECTOR

REPORT OF ANALYSES

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1000 PERIMETER PARK DRIVE
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PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
41580	06/01/94	1120	DAVE	06/01/94	1635	WW
41581	06/01/94	1245	DAVE	06/01/94	1635	WW
41582	06/01/94	1315	DAVE	06/01/94	1635	WW

CLIENT STATION ID:		BOWEN UPSTR.	BEAVER DOWN	BEAVER UPST
LAB #:		41580	41581	41582
IRON, TOTAL	mg/l	0.397	0.343	0.240
POTASSIUM, TOTAL	mg/l	2.041	1.806	1.757
LEAD, TOTAL	mg/l	< 0.010	< 0.010	< 0.010
MAGNESIUM, TOTAL	mg/l	1.401	1.788	1.595
MANGANESE, TOTAL	mg/l	0.038	0.051	0.032
NICKEL, TOTAL	mg/l	< 0.005	< 0.005	< 0.005
SELENIUM, TOTAL	mg/l	< 0.002*	< 0.002*	< 0.002*
SODIUM, TOTAL	mg/l	3.070*	3.685*	6.000*
ZINC, TOTAL	mg/l	0.030	< 0.025	< 0.025

TOC, TOX, As, Se, Ba, & Na analysis performed by HydroLogic
Brentwood, TN.

NOTE: N. R. = ANALYSIS NOT REQUIRED

LABORATORY DIRECTOR

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

(Page 10 of 10)

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
41583	06/01/94	1340	DAVE	06/01/94	1635	WW
41584	06/01/94	1415	DAVE	06/01/94	1635	WW

CLIENT STATION ID:		FIBERVILLE	CLYDE
LAB #:		41583	41584
IRON, TOTAL	mg/l	0.163	0.253
POTASSIUM, TOTAL	mg/l	4.313	3.477
LEAD, TOTAL	mg/l	< 0.010	< 0.010
MAGNESIUM, TOTAL	mg/l	1.933	1.892
MANGANESE, TOTAL	mg/l	0.270	0.184
NICKEL, TOTAL	mg/l	< 0.005	< 0.005
SELENIUM, TOTAL	mg/l	0.013*	0.013*
SODIUM, TOTAL	mg/l	469.000*	116.000*
ZINC, TOTAL	mg/l	0.025	< 0.025

TOC, TOX, As, Se, Ba, & Na analysis performed by HydroLogic
Brentwood, TN.

NOTE: N. R. = ANALYSIS NOT REQUIRED

LABORATORY DIRECTOR _____

QA/QC for Sample Nos: 41571, 41572, 41573, 41574, 41575, 41576, 41577, 41578, 41579, 41580, 41581, 41582, 41583, 41584,

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Analyte	LAB ID	Precision Data: Replicate A	Replicate B	Range	RPD %	Accuracy Data: % Spike Recovery	Reference Sample Data: Reference Sample ID	Target	Found	% Recovery
PH,LAB	41579	7.4	7.4	0	0.00	------	APG 11836	3.84	9.10	106.80
EPA 150.1	41584	7.7	7.7	0	0.00	------	----------	--------	--------	------
std units										
TOTAL DISSOLVED SOLIDS	41580	41.0	35.0	6.0	15.79	------	APG 18678	165.4	170.0	102.80
EPA160.1										
mg/l										
SPECIFIC	41580	54	54	0	0.00	------	APG 13005	173.3	174	100.40
CONDUCTIVITY	41584	534	534	0	0.00	------	----------	--------	--------	------
EPA 120.1										
umhos										
CHLORIDE	41571	0.8	1.0	0.20	22.22	------	APG 13005	19.99	19.50	97.50
EPA 325.3	41574	2.7	3.0	0.30	10.53	------	----------	--------	--------	------
mg/l	41582	--------	--------	--------	--------	96.10	----------	--------	--------	------
	41582	--------	--------	--------	--------	96.70	----------	--------	--------	------
TOTAL ORGANIC CARBON	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
EPA 415.1										
mg/l										
FLUORIDE	41571	< 0.50	< 0.50	0.25	0.00	------	1.0 PPM	1.0	0.96	96.00
EPA 340.2	41572	< 0.50	< 0.50	0.25	0.00	------	APG 11452	1.50	1.49	99.30
mg/l										
NITRITE	41571	< 0.01	< 0.01	0.0050	0.00	------	LDL	0.50	0.55	110.00
EPA 354.2	41578	< 0.01	< 0.01	0.0050	0.00	------	LCS	2.00	2.13	106.50
mg/l	-------	--------	--------	--------	--------	------	HI STD	10.00	10.11	101.10

QA/QC for Sample Nos: 41571, 41572, 41573, 41574, 41575, 41576, 41577, 41578, 41579, 41580, 41581, 41582, 41583, 41584.

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Analyte	LAB ID	Precision Data: Replicate A	Replicate B	Range	RPD %	Accuracy Data: % Spike Recovery	Reference Sample Data: Reference Sample ID	Target	Found	% Recovery
NITRATE	41582	2.29	2.26	0.030	1.32	------	LCS	1.40	1.47	105.00
122	-------	--------	--------	--------	--------	------	APG 11829	9.78	10.20	104.30
mg/l										
SULFATE	41571	1.0	1.1	0.10	9.52	------	LDL	1.0	1.12	111.70
EPA 375.4	41581	4.2	3.8	0.40	10.00	------	LCS	5.0	4.69	93.80
mg/l	-------	--------	--------	--------	--------	------	HI STD	10.00	10.07	100.70
	-------	--------	--------	--------	--------	------	APG 13005	20.05	19.45	97.00
PHENOL, TOTAL	41571	< 6.7	< 6.7	3.4	0.00	------	LCS	6.0	5.6	93.30
420.1	-------	--------	--------	--------	--------	------	LCS	20.0	19.7	99.00
ug/l	-------	--------	--------	--------	--------	------	HI STD	50.0	50.1	100.20
	-------	--------	--------	--------	--------	------	APG 12739	470.0	513.0	109.10
MERCURY, TOTAL	41439	--------	--------	--------	--------	85.50	LDL	0.02	0.023	115.00
245.1	41579	< 0.0002	< 0.0002	0.00010	0.00	100.60	APG 12456	4.29	4.62	107.79
mg/l	940609	--------	--------	--------	--------	99.30	----------	--------	--------	------
TOTAL ORGANIC HALIDES	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
MG/L										
SILVER,TOTAL	41573	< 0.005	< 0.005	0.0025	0.00	------	LDL	5.0	4.6	92.00
200.7	41643	< 0.005	< 0.005	0.0025	0.00	------	LCS	100.0	97.7	97.70
mg/l	940602	--------	--------	--------	--------	88.00	APG 12530	18.0	21.7	120.60
	940603	--------	--------	--------	--------	92.60	APG 12456	282.4	293.5	103.90
ARSENIC, TOTAL	41575	--------	--------	--------	--------	75.00	----------	--------	--------	------
200.7	41579	--------	--------	--------	--------	90.00	----------	--------	--------	------
mg/l	940613	--------	--------	--------	--------	90.00	----------	--------	--------	------

QA/QC for Sample Nos: 41571, 41572, 41573, 41574, 41575, 41576, 41577, 41578, 41579, 41580, 41581, 41582, 41583, 41584.

		Precision Data				Accuracy Data	Reference Sample Data			
Analyte	LAB ID	Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
BARIUM, TOTAL	41579	--------	--------	--------	--------	90.00	----------	--------	--------	------
200.7	41579	--------	--------	--------	--------	90.00	----------	--------	--------	------
mg/l	41581	<0.1	<0.1	0.050	0.00	------	----------	--------	--------	------
	41581	<0.1	<0.1	0.050	0.00	------	----------	--------	--------	------
CADMIUM, TOTAL	41535	0.002	0.001	0.0010	66.67	------	LDL	1.0	1.1	110.00
200.7	41573	0.001	0.001	0	0.00	------	LCS	0.100	0.099	99.00
mg/l	41574	< 0.001	< 0.001	0.00050	0.00	------	APG 12530	0.012	0.015	125.00
	41643	< 0.001	< 0.001	0.00050	0.00	------	APG 12456	0.112	0.123	109.80
CALCIUM, TOTAL	41573	5.225	5.212	0.013	0.25	------	LCS	1.00	1.02	102.00
200.7	41574	16.571	16.578	0.0070	0.04	------	APG 13005	2.87	3.05	106.30
mg/l	41694	43.139	43.296	0.16	0.36	------	----------	--------	--------	------
	41701	1.774	1.821	0.047	2.61	------	----------	--------	--------	------
CHROMIUM, TOTAL	41535	0.016	0.016	0	0.00	92.50	LDL	5.0	4.0	80.00
200.7	41535	--------	--------	--------	--------	98.00	LCS	100.0	99.4	99.40
mg/l	41574	< 0.005	< 0.005	0.0025	0.00	------	APG 12530	23.7	25.2	106.30
	41643	0.046	0.047	0.0010	2.15	96.50	APG 12456	292.8	301.5	103.00
	41643	--------	--------	--------	--------	96.00	----------	--------	--------	------
	41785	--------	--------	--------	--------	93.20	----------	--------	--------	------
	41785	--------	--------	--------	--------	95.00	----------	--------	--------	------
	940602	--------	--------	--------	--------	96.10	----------	--------	--------	------
	940602	--------	--------	--------	--------	102.30	----------	--------	--------	------
	940603	--------	--------	--------	--------	96.40	----------	--------	--------	------
	940604	--------	--------	--------	--------	96.90	----------	--------	--------	------
COPPER, TOTAL	41574	< 0.005	< 0.005	0.0025	0.00	------	LCS	0.100	0.104	104.00
200.7	41582	< 0.005	< 0.005	0.0025	0.00	------	----------	--------	--------	------
mg/l	940602	--------	--------	--------	--------	100.20	----------	--------	--------	------

QA/QC for Sample Nos: 41571, 41572, 41573, 41574, 41575, 41576, 41577, 41578, 41579, 41580, 41581, 41582, 41583, 41584,
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Analyte	LAB ID	Precision Data: Replicate A	Replicate B	Range	RPD %	Accuracy Data: % Spike Recovery	Reference Sample Data: Reference Sample ID	Target	Found	% Recovery
IRON, TOTAL	0	--------	--------	--------	--------	86.20	LDL	25.0	23.3	93.20
200.7	0	--------	--------	--------	--------	91.40	LCS	100.0	97.9	97.90
mg/l	0	--------	--------	--------	--------	95.30	APG 12530	187.0	181.1	96.80
	0	--------	--------	--------	--------	91.40	APG 12456	471.4	455.6	96.70
	40881	--------	--------	--------	--------	92.50	----------	--------	--------	------
	41212	--------	--------	--------	--------	78.80	----------	--------	--------	------
POTASSIUM, TOTAL	41573	2.447	1.791	0.66	30.96	------	LDL	0.100	0.114	114.00
200.7	41574	3.299	3.273	0.026	0.79	------	LCS	1.00	1.04	104.00
mg/l	-------	--------	--------	--------	--------	------	APG 13005	7.36	7.99	108.60
LEAD, TOTAL	41573	< 0.010	< 0.010	0.0050	0.00	------	LCS	0.100	0.093	93.00
6010	41574	< 0.010	< 0.010	0.0050	0.00	------	APG 12530	0.024	0.027	112.50
mg/l	41643	< 0.010	< 0.010	0.0050	0.00	91.70	APG 12456	0.478	0.487	101.90
	41643	--------	--------	--------	--------	91.10	----------	--------	--------	------
	41666	--------	--------	--------	--------	89.20	----------	--------	--------	------
	41666	--------	--------	--------	--------	90.90	----------	--------	--------	------
	940602	--------	--------	--------	--------	91.40	----------	--------	--------	------
	940602	--------	--------	--------	--------	99.00	----------	--------	--------	------
	940603	--------	--------	--------	--------	91.70	----------	--------	--------	------
	940604	--------	--------	--------	--------	94.30	----------	--------	--------	------
MAGNESIUM, TOTAL	41178	1.669	1.675	0.0060	0.36	------	LDL	5.0	5.1	102.00
200.7	41573	3.241	3.250	0.0090	0.28	------	LCS	1000.0	1046.6	104.70
mg/l	41694	5.071	5.176	0.11	2.05	------	APG 13005	2.77	2.33	84.30
	41701	0.586	0.592	0.0060	1.02	------	----------	--------	--------	------
	41708	1.338	1.359	0.021	1.56	------	----------	--------	--------	------
MANGANESE, TOTAL	41573	0.024	0.027	0.0030	11.76	------	LCS	1.00	1.07	107.00
200.7	41574	0.049	0.049	0	0.00	------	APG 12530	0.048	0.057	118.80
mg/l	940602	--------	--------	--------	--------	98.10	APG 12456	0.143	0.146	102.10

QA/QC for Sample Nos: 41571, 41572, 41573, 41574, 41575, 41576, 41577, 41578, 41579, 41580, 41581, 41582, 41583, 41584,

		Precision Data				Accuracy Data	Reference Sample Data			
Analyte	LAB ID	Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
NICKEL, TOTAL	41572	< 0.005	< 0.05	0.0025	163.64	------	LDL	5.0	5.0	100.00
200.7	41574	< 0.005	< 0.005	0.0025	0.00	------	LCS	100.0	100.1	100.10
mg/l	41785	< 0.005	< 0.005	0.0025	0.00	90.50	APG 12530	25.9	26.5	102.30
	41785	--------	--------	--------	--------	91.00	APG 12456	137.1	142.4	103.90
	940602	--------	--------	--------	--------	99.70	----------	--------	--------	------
	940604	--------	--------	--------	--------	93.00	----------	--------	--------	------
	940605	--------	--------	--------	--------	93.00	----------	--------	--------	------
SELENIUM, TOTAL	41575	--------	--------	--------	--------	84.70	----------	--------	--------	------
200.7	41579	--------	--------	--------	--------	95.00	----------	--------	--------	------
mg/l	940609	--------	--------	--------	--------	108.40	----------	--------	--------	------
SODIUM, TOTAL	14581	3.600	3.770	0.17	4.61	------	----------	--------	--------	------
200.7	41580	3.000	3.140	0.14	4.56	------	----------	--------	--------	------
mg/l										
ZINC, TOTAL	41573	0.022	0.023	0.0010	4.44	------	LCS	0.100	0.094	94.00
200.7	41574	0.010	0.031	0.021	102.44	------	APG 12530	0.087	0.109	125.00
mg/l	41643	0.101	0.078	0.023	25.70	89.60	APG 12456	0.234	0.245	104.70
	41694	0.073	0.125	0.052	52.53	------	----------	--------	--------	------
	940603	--------	--------	--------	--------	88.10	----------	--------	--------	------
	940604	--------	--------	--------	--------	90.30	----------	--------	--------	------

DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	ANALYSIS DATE	TIME	ANALYST
AG/T/ICP	200.7	06/06/94	0945	BDL
AS/T/ICP	200.7	06/13/94		TJH
BA/T/ICP	200.7	06/13/94		TJH
CA/T/ICP	200.7	06/08/94	0957	BDL
CD/T/ICP	200.7	06/06/94	1358	LJP
CHLORIDE	EPA 325.3	06/03/94		CDM
CONDUCTIVI	EPA 120.1	06/02/94	0900	KHJ
CR/T/ICP	200.7	06/08/94	0957	BDL
CU/T/ICP	200.7	06/03/94	1046	LJP
FE/T/ICP	200.7	06/07/94	1054	LJP
FLUORIDE	EPA 340.2	06/07/94	1700	APT
HG/T/CVAA	245.1	06/09/94	1600	BDL
K/T/ICP	200.7	06/14/94	1349	LJP
MG/T/ICP	200.7	06/06/94	0945	BDL
MN/T/ICP	200.7	06/06/94	1358	LJP
NO2	EPA 354.2	06/03/94		DCS
NA/T/ICP	200.7	06/08/94		TJH
NI/T/ICP	200.7	06/08/94	0957	BDL
NITRATE	122	06/02/94	1700	APT
PB/T/ICP	6010	06/06/94	1358	LJP
PH	EPA 150.1	06/02/94	0900	KHJ
PHENOL	420.1	06/06/94	1700	APT
SE/T/ICP	200.7	06/09/94		TJH
SULFATE	EPA 375.4	06/02/94		CDM
TDS	EPA160.1	06/02/94		MGN
TOC	EPA 415.1	06/06/94		TWM
TOX		06/06/94		TWM
ZN/T/ICP	200.7	06/06/94	1358	LJP

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	TIME	MATRIX
41404	05/27/94		JOHN/DAVE	05/27/94	1447	WW
41405	05/27/94		JOHN/DAVE	05/27/94	1447	WW
41406	05/27/94		JOHN/DAVE	05/27/94	1447	WW

CLIENT STATION ID:		MW-7A CHAMPION	MW-6 CHAMPION	MW-5A CHAMPION
LAB #:		41404	41405	41406
PH,LAB	std units	5.8	5.7	5.7
TOTAL DISSOLVED SOLIDS	mg/l	151.0	146.0	72.0
SPECIFIC CONDUCTIVITY	umhos	253	233	141
CHLORIDE	mg/l	16.7	20.0	15.2
TOTAL ORGANIC CARBON	mg/l	<1.0	8.7	2.1
FLUORIDE	mg/l	< 0.5	< 0.5	< 0.5
NITRITE	mg/l	< 0.01	< 0.01	< 0.01
NITRATE	mg/l	1.80	3.65	11.40
SULFATE	mg/l	46.9	22.3	4.2
PHENOL, TOTAL	ug/l	< 6.7	< 6.0	< 6.0
MERCURY, TOTAL	mg/l	< 0.0002	0.0011	0.0003
TOTAL ORGANIC HALIDES	MG/L	0.006	<0.005	<0.005
SILVER,TOTAL	mg/l	< 0.005	< 0.005	< 0.005
ARSENIC, TOTAL	mg/l	< 0.001*	0.005*	< 0.001*
BARIUM, TOTAL	mg/l	< 0.1*	< 0.1*	0.5*
CADMIUM, TOTAL	mg/l	< 0.001	< 0.001	< 0.001
CALCIUM, TOTAL	mg/l	18.221	14.528	5.684
CHROMIUM, TOTAL	mg/l	< 0.005	0.021	0.039
COPPER, TOTAL	mg/l	< 0.005	0.033	0.053

TOC,TOX As,Se,Na & Ba Analysis performed by Hydrologic
Brentwood, TN

LABORATORY DIRECTOR _____

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
41407	05/27/94		JOHN/DAVE	05/27/94	1447	WW

CLIENT STATION ID: MW-2 CHAMPION
LAB #: 41407

PH,LAB	std units	N.R.
TOTAL DISSOLVED SOLIDS	mg/l	N.R.
SPECIFIC CONDUCTIVITY	umhos	N.R.
CHLORIDE	mg/l	N.R.
TOTAL ORGANIC CARBON	mg/l	N.R.
FLUORIDE	mg/l	N.R.
NITRITE	mg/l	N.R.
NITRATE	mg/l	N.R.
SULFATE	mg/l	N.R.
PHENOL, TOTAL	ug/l	9.2
MERCURY, TOTAL	mg/l	N.R.
TOTAL ORGANIC HALIDES	MG/L	N.R.
SILVER,TOTAL	mg/l	N.R.
ARSENIC, TOTAL	mg/l	N.R.
BARIUM, TOTAL	mg/l	N.R.
CADMIUM, TOTAL	mg/l	N.R.
CALCIUM, TOTAL	mg/l	N.R.
CHROMIUM, TOTAL	mg/l	N.R.
COPPER, TOTAL	mg/l	N.R.

TOC,TOX As,Se,Na & Ba Analysis performed by Hydrologic
Brentwood, TN

NOTE: N. R. = ANALYSIS NOT REQUIRED

LABORATORY DIRECTOR

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	TIME	MATRIX
41404	05/27/94		JOHN/DAVE	05/27/94	1447	WW
41405	05/27/94		JOHN/DAVE	05/27/94	1447	WW
41406	05/27/94		JOHN/DAVE	05/27/94	1447	WW

		CLIENT STATION ID:	MW-7A CHAMPION	MW-6 CHAMPION	MW-5A CHAMPION
		LAB #:	41404	41405	41406
IRON, TOTAL	mg/l		2.452	12.982	28.798
POTASSIUM, TOTAL	mg/l		2.437	6.082	7.970
LEAD, TOTAL	mg/l		< 0.010	< 0.010	< 0.010
MAGNESIUM, TOTAL	mg/l		12.018	10.506	9.946
MANGANESE, TOTAL	mg/l		2.031	0.525	0.883
NICKEL, TOTAL	mg/l		0.006	0.024	0.048
SELENIUM, TOTAL	mg/l		< 0.002*	0.015*	0.014*
SODIUM, TOTAL	mg/l		5.7*	11*	13*
ZINC, TOTAL	mg/l		< 0.025	0.044	0.118

TOC,TOX As,Se,Na & Ba Analysis performed by Hydrologic
Brentwood, TN

NOTE: N. R. = ANALYSIS NOT REQUIRED

LABORATORY DIRECTOR

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
41407	05/27/94		JOHN/DAVE	05/27/94	1447	WW

CLIENT STATION ID: MW-2 CHAMPION
LAB #: 41407

IRON, TOTAL	mg/l	N.R.
POTASSIUM, TOTAL	mg/l	N.R.
LEAD, TOTAL	mg/l	N.R.
MAGNESIUM, TOTAL	mg/l	N.R.
MANGANESE, TOTAL	mg/l	N.R.
NICKEL, TOTAL	mg/l	N.R.
SELENIUM, TOTAL	mg/l	N.R.
SODIUM, TOTAL	mg/l	N.R.
ZINC, TOTAL	mg/l	N.R.

TOC,TOX As,Se,Na & Ba Analysis performed by Hydrologic
Brentwood, TN

NOTE: N. R. = ANALYSIS NOT REQUIRED

LABORATORY DIRECTOR _____

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
41408	05/25/94		JOHN/DAVE	05/27/94	1225	WW
41409	05/25/94		JOHN/DAVE	05/27/94	1225	WW
41410	05/25/94		JOHN/DAVE	05/27/94	1225	WW

		CLIENT STATION ID: 5B1 CHAMPION	5B2 CHAMPION	5B3 CHAMPION
		LAB #: 41408	41409	41410
PH,LAB	std units	6.4	6.2	6.4
TOTAL DISSOLVED SOLIDS	mg/l	29.0	215.0	153.0
SPECIFIC CONDUCTIVITY	umhos	41	339	254
CHLORIDE	mg/l	< 1.0	42.8	21.4
TOTAL ORGANIC CARBON	mg/l	<1.0	<1.0	18
FLUORIDE	mg/l	< 0.5	< 0.5	< 0.5
NITRITE	mg/l	< 0.01	< 0.01	< 0.01
NITRATE	mg/l	1.31	2.49	2.26
SULFATE	mg/l	< 1.0	7.3	18.1
PHENOL, TOTAL	ug/l	< 6.0	< 6.7	< 6.0
MERCURY, TOTAL	mg/l	0.0015	0.0002	< 0.0002
TOTAL ORGANIC HALIDES	MG/L	<0.005	0.031	0.022
SILVER,TOTAL	mg/l	< 0.005	< 0.005	< 0.005
ARSENIC, TOTAL	mg/l	< 0.001*	< 0.001*	0.002*
BARIUM, TOTAL	mg/l	< 0.1*	0.2*	0.5*
CADMIUM, TOTAL	mg/l	< 0.001	< 0.001	< 0.001
CALCIUM, TOTAL	mg/l	2.462	26.693	16.604
CHROMIUM, TOTAL	mg/l	< 0.005	< 0.005	< 0.005
COPPER, TOTAL	mg/l	< 0.005	< 0.005	< 0.005

TOC,TOX,As,Se,Na & Analysis performed by HydroLogic
Brentwood, TN.

LABORATORY DIRECTOR

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	TIME	MATRIX
41411	05/25/94		JOHN/DAVE	05/27/94	1225	WW
41412	05/25/94		JOHN/DAVE	05/27/94	1225	WW
41413	05/25/94		JOHN/DAVE	05/27/94	1225	WW

		CLIENT STATION ID:	5C1 CHAMPION	5C2 CHAMPION	5C3 CHAMPION
		LAB #:	41411	41412	41413
PH,LAB	std units		5.9	6.6	6.2
TOTAL DISSOLVED SOLIDS	mg/l		76.0	99.0	186.0
SPECIFIC CONDUCTIVITY	umhos		126	125	299
CHLORIDE	mg/l		7.4	12.5	52.2
TOTAL ORGANIC CARBON	mg/l		<1.0	5.5	<1.0
FLUORIDE	mg/l		< 0.5	< 0.5	< 0.5
NITRITE	mg/l		< 0.01	< 0.01	< 0.01
NITRATE	mg/l		12.80	3.18	3.50
SULFATE	mg/l		9.2	2.2	1.8
PHENOL, TOTAL	ug/l		< 6.0	< 6.0	< 6.0
MERCURY, TOTAL	mg/l		< 0.0002	< 0.0002	< 0.0002
TOTAL ORGANIC HALIDES	MG/L		0.016	0.027	0.044
SILVER,TOTAL	mg/l		< 0.005	< 0.005	< 0.005
ARSENIC, TOTAL	mg/l		< 0.001*	< 0.001*	< 0.001*
BARIUM, TOTAL	mg/l		0.2*	< 0.1*	< 0.1*
CADMIUM, TOTAL	mg/l		< 0.001	< 0.001	< 0.001
CALCIUM, TOTAL	mg/l		6.874	10.052	19.481
CHROMIUM, TOTAL	mg/l		< 0.005	< 0.005	< 0.005
COPPER, TOTAL	mg/l		< 0.005	< 0.005	< 0.005

TOC,TOX,As,Se,Na & Analysis performed by HydroLogic
Brentwood, TN.

LABORATORY DIRECTOR

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	TIME	MATRIX
41414	05/26/94		JOHN/DAVE	05/27/94	1225	WW
41415	05/26/94		JOHN/DAVE	05/27/94	1225	WW
41416	05/26/94		JOHN/DAVE	05/27/94	1225	WW

CLIENT STATION ID:		MW8 CHAMPION	MW11 CHAMPION	MW10 CHAMPION
LAB #:		41414	41415	41416
PH,LAB	std units	6.6	5.7	6.1
TOTAL DISSOLVED SOLIDS	mg/l	52.0	71.0	26.0
SPECIFIC CONDUCTIVITY	umhos	79	86	32
CHLORIDE	mg/l	1.4	6.2	< 1.0
TOTAL ORGANIC CARBON	mg/l	3.5	1.4	<1.0
FLUORIDE	mg/l	< 0.5	< 0.5	< 0.5
NITRITE	mg/l	< 0.01	< 0.01	< 0.01
NITRATE	mg/l	0.65	12.20	2.36
SULFATE	mg/l	15.8	< 1.0	1.8
PHENOL, TOTAL	ug/l	< 6.0	< 6.0	< 6.0
MERCURY, TOTAL	mg/l	< 0.0002	< 0.0002	< 0.0002
TOTAL ORGANIC HALIDES	MG/L	0.005	0.022	0.010
SILVER,TOTAL	mg/l	< 0.005	< 0.005	< 0.005
ARSENIC, TOTAL	mg/l	0.001*	< 0.001*	< 0.001*
BARIUM, TOTAL	mg/l	0.3*	0.5*	0.2*
CADMIUM, TOTAL	mg/l	< 0.001	< 0.001	< 0.001
CALCIUM, TOTAL	mg/l	4.392	5.065	1.887
CHROMIUM, TOTAL	mg/l	0.010	0.006	< 0.005
COPPER, TOTAL	mg/l	< 0.005	< 0.005	< 0.005

TOC,TOX,As,Se,Na & Analysis performed by HydroLogic
Brentwood, TN.

LABORATORY DIRECTOR

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	TIME	MATRIX
41417	05/26/94		JOHN/DAVE	05/27/94	1225	WW

CLIENT STATION ID: MW9 CHAMPION
LAB #: 41417

PH,LAB	std units	6.1
TOTAL DISSOLVED SOLIDS	mg/l	20.0
SPECIFIC CONDUCTIVITY	umhos	34
CHLORIDE	mg/l	< 1.0
TOTAL ORGANIC CARBON	mg/l	<1.0
FLUORIDE	mg/l	< 0.5
NITRITE	mg/l	< 0.01
NITRATE	mg/l	1.12
SULFATE	mg/l	1.3
PHENOL, TOTAL	ug/l	< 6.0
MERCURY, TOTAL	mg/l	< 0.0002
TOTAL ORGANIC HALIDES	MG/L	0.012
SILVER,TOTAL	mg/l	< 0.005
ARSENIC, TOTAL	mg/l	< 0.001*
BARIUM, TOTAL	mg/l	0.3*
CADMIUM, TOTAL	mg/l	< 0.001
CALCIUM, TOTAL	mg/l	2.217
CHROMIUM, TOTAL	mg/l	< 0.005
COPPER, TOTAL	mg/l	< 0.005

TOC,TOX,As,Se,Na & Analysis performed by HydroLogic
Brentwood, TN.

LABORATORY DIRECTOR _____

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
41408	05/25/94		JOHN/DAVE	05/27/94	1225	WW
41409	05/25/94		JOHN/DAVE	05/27/94	1225	WW
41410	05/25/94		JOHN/DAVE	05/27/94	1225	WW

CLIENT STATION ID:		5B1 CHAMPION	5B2 CHAMPION	5B3 CHAMPION
LAB #:		41408	41409	41410
IRON, TOTAL	mg/l	2.502	25.001	12.661
POTASSIUM, TOTAL	mg/l	1.189	3.687	3.340
LEAD, TOTAL	mg/l	< 0.010	< 0.010	< 0.010
MAGNESIUM, TOTAL	mg/l	1.281	8.815	4.266
MANGANESE, TOTAL	mg/l	0.210	0.197	6.166
NICKEL, TOTAL	mg/l	< 0.005	< 0.005	0.012
SELENIUM, TOTAL	mg/l	< 0.002*	< 0.002*	< 0.002*
SODIUM, TOTAL	mg/l	1.7*	20*	8.6*
ZINC, TOTAL	mg/l	0.127	0.071	0.081

TOC,TOX,As,Se,Na & Analysis performed by HydroLogic
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LABORATORY DIRECTOR _____

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	TIME	MATRIX
41411	05/25/94		JOHN/DAVE	05/27/94	1225	WW
41412	05/25/94		JOHN/DAVE	05/27/94	1225	WW
41413	05/25/94		JOHN/DAVE	05/27/94	1225	WW

CLIENT STATION ID:		5C1 CHAMPION	5C2 CHAMPION	5C3 CHAMPION
LAB #:		41411	41412	41413
IRON, TOTAL	mg/l	0.078	0.157	0.171
POTASSIUM, TOTAL	mg/l	1.935	1.685	2.348
LEAD, TOTAL	mg/l	< 0.010	< 0.010	< 0.010
MAGNESIUM, TOTAL	mg/l	3.155	3.012	10.305
MANGANESE, TOTAL	mg/l	< 0.010	< 0.010	0.422
NICKEL, TOTAL	mg/l	< 0.005	< 0.005	0.006
SELENIUM, TOTAL	mg/l	< 0.002*	< 0.002*	< 0.002*
SODIUM, TOTAL	mg/l	5.5*	6.4*	10*
ZINC, TOTAL	mg/l	0.045	0.088	0.078

TOC,TOX,As,Se,Na & Analysis performed by HydroLogic
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LABORATORY DIRECTOR _____

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	TIME	MATRIX
41414	05/26/94		JOHN/DAVE	05/27/94	1225	WW
41415	05/26/94		JOHN/DAVE	05/27/94	1225	WW
41416	05/26/94		JOHN/DAVE	05/27/94	1225	WW

		CLIENT STATION ID:	MW8 CHAMPION	MW11 CHAMPION	MW10 CHAMPION
		LAB #:	41414	41415	41416
IRON, TOTAL	mg/l		6.556	4.941	0.569
POTASSIUM, TOTAL	mg/l		4.460	2.564	1.156
LEAD, TOTAL	mg/l		< 0.010	0.012	< 0.010
MAGNESIUM, TOTAL	mg/l		2.621	3.685	1.404
MANGANESE, TOTAL	mg/l		0.150	0.079	0.025
NICKEL, TOTAL	mg/l		0.009	< 0.005	< 0.005
SELENIUM, TOTAL	mg/l		< 0.002*	0.005*	< 0.002*
SODIUM, TOTAL	mg/l		4.5*	3.3*	1.7*
ZINC, TOTAL	mg/l		0.079	0.254	0.075

TOC,TOX,As,Se,Na & Analysis performed by HydroLogic
Brentwood, TN.

LABORATORY DIRECTOR _____

REPORT OF ANALYSES

ROY WESTON
1000 PERIMETER PARK DRIVE
SUITE E
MORRISVILLE, NC 27560-
Attn: BILL MORRIS

PROJECT NAME: CHAMPION INTER.
DATE: 06/17/94

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LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
41417	05/26/94		JOHN/DAVE	05/27/94	1225	WW

CLIENT STATION ID: MW9 CHAMPION
LAB #: 41417

IRON, TOTAL	mg/l	0.075
POTASSIUM, TOTAL	mg/l	1.289
LEAD, TOTAL	mg/l	< 0.010
MAGNESIUM, TOTAL	mg/l	0.918
MANGANESE, TOTAL	mg/l	< 0.010
NICKEL, TOTAL	mg/l	< 0.005
SELENIUM, TOTAL	mg/l	< 0.002*
SODIUM, TOTAL	mg/l	1.7*
ZINC, TOTAL	mg/l	0.097

TOC,TOX,As,Se,Na & Analysis performed by HydroLogic
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LABORATORY DIRECTOR _____

H Y D R O L O G I C , I N C .

QA/QC for Sample Nos: 41408, 41409, 41410, 41411, 41412, 41413, 41414, 41415, 41416, 41417,
Page 1

Analyte	LAB ID	Precision Data: Replicate A	Replicate B	Range	RPD %	Accuracy Data: % Spike Recovery	Reference Sample Data: Reference Sample ID	Target	Found	% Recovery
PH,LAB	-------	--------	--------	--------	--------	------	buffer 10	10.00	9.95	99.50
EPA 150.1	-------	--------	--------	--------	--------	------	APG	3.84	3.85	100.20
std units										
TOTAL DISSOLVED	41414	53.0	51.0	2.0	3.85	------	----------	--------	--------	------
SOLIDS	41417	20.0	20.0	0	0.00	------	----------	--------	--------	------
EPA160.1										
mg/l										
SPECIFIC	41414	79	79	0	0.00	------	APG	471.3	464	98.50
CONDUCTIVITY	41417	34	34	0	0.00	------	----------	--------	--------	------
EPA 120.1										
umhos										
CHLORIDE	41413	52.1	52.3	0.20	0.38	101.10	APG 13005	19.99	19.9	99.50
EPA 325.3	41413	--------	--------	--------	--------	101.10	----------	--------	--------	------
mg/l										
TOTAL ORGANIC CARBON	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
EPA 415.1										
mg/l										
FLUORIDE	41409	--------	--------	--------	--------	87.00	----------	--------	--------	------
EPA 340.2	41417	--------	--------	--------	--------	94.30	----------	--------	--------	------
mg/l										
NITRITE	41194	--------	--------	--------	--------	88.80	LDL	0.50	0.53	106.20
EPA 354.2	41408	--------	--------	--------	--------	96.70	LCS	2.00	2.14	106.90
mg/l	41411	--------	--------	--------	--------	85.90	HI STD	10.00	10.53	105.30

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QA/QC for Sample Nos: 41408, 41409, 41410, 41411, 41412, 41413, 41414, 41415, 41416, 41417,
Page 2

Analyte	LAB ID	Precision Data: Replicate A	Replicate B	Range	RPD %	Accuracy Data: % Spike Recovery	Reference Sample Data: Reference Sample ID	Target	Found	% Recovery
NITRATE	41404	1.81	1.79	0.020	1.11	------	LCS	0.14	0.15	104.30
122	41405	3.63	3.66	0.030	0.82	------	APG 11827	9.78	9.50	97.10
mg/l										
SULFATE	41265	6.4	6.2	0.20	3.17	------	ldl	1.0	0.98	97.90
EPA 375.4	41404	50.4	43.4	7.0	14.93	------	LCS	5.0	4.52	90.40
mg/l	41417	1.3	1.3	0	0.00	------	HI STD	10.00	9.90	99.00
	-------	--------	--------	--------	--------	------	APG 13005	20.1	19.1	95.30
PHENOL, TOTAL	41404	--------	--------	--------	--------	105.00	LDL	6.0	6.0	100.00
420.1	-------	--------	--------	--------	--------	------	LCS	20.0	20.4	102.00
ug/l	-------	--------	--------	--------	--------	------	HI STD	50.0	48.6	97.20
	-------	--------	--------	--------	--------	------	JAPG 12739	470.0	443.0	94.30
MERCURY, TOTAL	41175	0.0006	0.0005	0.00010	18.18	87.00	LDL	0.020	0.018	90.00
245.1	41262	< 0.0002	< 0.0002	0.00010	0.00	96.00	LCS	0.100	0.100	100.00
mg/l	41282	< 0.0002	< 0.0002	0.00010	0.00	------	----------	--------	--------	------
	41413	< 0.0002	< 0.0002	0.00010	0.00	81.00	----------	--------	--------	------
TOTAL ORGANIC HALIDES	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
MG/L										
SILVER,TOTAL	41175	< 0.005	< 0.005	0.0025	0.00	90.20	LDL	5.0	4.4	88.00
200.7	41175	--------	--------	--------	--------	91.60	LCS	100.0	97.1	97.10
mg/l	41176	--------	--------	--------	--------	90.60	APG 12530	108.0	18.8	104.40
	41411	< 0.005	< 0.005	0.0025	0.00	92.00	APG 12456	282.4	290.7	102.90
	41411	--------	--------	--------	--------	89.40	----------	--------	--------	------
	471176	--------	--------	--------	--------	87.00	----------	--------	--------	------
	940527	--------	--------	--------	--------	92.60	----------	--------	--------	------

QA/QC for Sample Nos: 41408, 41409, 41410, 41411, 41412, 41413, 41414, 41415, 41416, 41417,
Page 3

Analyte	LAB ID	Precision Data: Replicate A	Replicate B	Range	RPD %	Accuracy Data: % Spike Recovery	Reference Sample Data: Reference Sample ID	Target	Found	% Recovery
	940527	--------	--------	--------	--------	93.80	----------	--------	--------	------
	940528	--------	--------	--------	--------	88.60	----------	--------	--------	------
	940528	--------	--------	--------	--------	96.00	----------	--------	--------	------
	940529	--------	--------	--------	--------	92.20	----------	--------	--------	------
ARSENIC, TOTAL 200.7 mg/l	41410	0.002	0.002	0	0.00	------	----------	--------	--------	------
BARIUM, TOTAL 200.7 mg/l	41408	--------	--------	--------	--------	90.00	----------	--------	--------	------
CADMIUM, TOTAL 200.7 mg/l	41411	< 0.001	< 0.001	0.00050	0.00	108.00	LCS	100.0	99.4	99.40
	41411	--------	--------	--------	--------	115.60	APG 12456	111.9	122.8	109.70
	940527	--------	--------	--------	--------	87.60	----------	--------	--------	------
CALCIUM, TOTAL 200.7 mg/l	41411	6.861	6.886	0.025	0.36	------	LCS	1000.0	1075	107.50
CHROMIUM, TOTAL 200.7 mg/l	41175	< 0.005	< 0.005	0.0025	0.00	104.90	LDL	5.0	3.9	79.00
	41175	--------	--------	--------	--------	105.60	LCS	100.0	98.2	98.20
	41176	--------	--------	--------	--------	103.70	APG 12530	23.7	24.4	103.00
	41176	--------	--------	--------	--------	103.70	APG 12456	292.7	310.8	106.20
	90527	--------	--------	--------	--------	97.10	----------	--------	--------	------
	940527	--------	--------	--------	--------	103.40	----------	--------	--------	------
COPPER, TOTAL 200.7 mg/l	41411	< 0.005	< 0.005	0.0025	0.00	77.00	LDL	5.0	5.5	110.00
	41411	--------	--------	--------	--------	91.40	LCS	100.0	98.2	98.20
	-------	--------	--------	--------	--------	------	APG 12530	34.1	38.1	111.70
	-------	--------	--------	--------	--------	------	APG 12456	250.1	260.9	104.30

QA/QC for Sample Nos: 41408, 41409, 41410, 41411, 41412, 41413, 41414, 41415, 41416, 41417,
Page 4

Analyte	LAB ID	Precision Data: Replicate A	Replicate B	Range	RPD %	Accuracy Data: % Spike Recovery	Reference Sample Data: Reference Sample ID	Target	Found	% Recovery
IRON, TOTAL	41175	1.303	1.229	0.074	5.85	102.20	LDL	25.0	24.5	98.00
200.7	41175	--------	--------	--------	--------	103.40	LCS	100.0	98.3	98.30
mg/l	41271	2.555	2.587	0.032	1.24	97.80	APG 12456	471.4	469.5	99.60
	41271	--------	--------	--------	--------	98.70	----------	--------	--------	------
	41411	--------	--------	--------	--------	77.80	----------	--------	--------	------
	91176	--------	--------	--------	--------	94.20	----------	--------	--------	------
	940527	--------	--------	--------	--------	92.90	----------	--------	--------	------
	940527	--------	--------	--------	--------	87.10	----------	--------	--------	------
	940528	--------	--------	--------	--------	89.10	----------	--------	--------	------
	940528	--------	--------	--------	--------	84.40	----------	--------	--------	------
POTASSIUM, TOTAL	41406	7.959	7.981	0.022	0.28	------	LCS	1.00	1.02	102.00
200.7	41410	1.945	1.925	0.020	1.03	------	APG 13005	7.36	7.91	107.50
mg/l										
LEAD, TOTAL	41379	--------	--------	--------	--------	93.80	LCS	100.0	98.0	98.00
6010	41411	< 0.010	< 0.010	0.0050	0.00	77.00	APG 12456	478.4	525.0	109.70
mg/l	41411	--------	--------	--------	--------	82.50	----------	--------	--------	------
MAGNESIUM, TOTAL	41175	6.870	6.865	0.0050	0.07	------	LDL	5.0	3.8	76.00
200.7	41176	6.812	6.825	0.013	0.19	------	LCS	100.0	95.7	95.70
mg/l	41228	3.832	3.860	0.028	0.73	------	APG 13005	2.77	2.70	97.30
	41235	0.597	0.615	0.018	2.97	------	----------	--------	--------	------
	41242	1.292	1.302	0.010	0.77	------	----------	--------	--------	------
	41271	2.464	2.502	0.038	1.53	------	----------	--------	--------	------
	41411	3.157	3.153	0.0040	0.13	------	----------	--------	--------	------
MANGANESE, TOTAL	41411	< 0.010	< 0.010	0.0050	0.00	79.20	LCS	100	97.1	97.10
200.7	41411	--------	--------	--------	--------	83.40	----------	--------	--------	------
mg/l	940527	--------	--------	--------	--------	91.40	----------	--------	--------	------

QA/QC for Sample Nos: 41408, 41409, 41410, 41411, 41412, 41413, 41414, 41415, 41416, 41417,
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Analyte	LAB ID	Precision Data: Replicate A	Replicate B	Range	RPD %	Accuracy Data: % Spike Recovery	Reference Sample Data: Reference Sample ID	Target	Found	% Recovery
NICKEL, TOTAL	41411	< 0.005	< 0.005	0.0025	0.00	79.20	LCS	100.0	98.4	98.40
200.7	940527	--------	--------	--------	--------	96.40	APG 12530	25.9	26.5	102.30
mg/l	940527	--------	--------	--------	--------	89.10	APG 12456	137.1	145.1	105.80
SELENIUM, TOTAL	41408	--------	--------	--------	--------	126.00	----------	--------	--------	------
200.7										
mg/l										
SODIUM, TOTAL	41410	8.6	8.6	0	0.00	------	----------	--------	--------	------
200.7										
mg/l										
ZINC, TOTAL	41411	0.047	0.042	0.0050	11.24	82.50	LCS	100	99.9	99.90
200.7	41411	--------	--------	--------	--------	83.90	APG 12456	233.9	257.2	110.00
mg/l										

DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	ANALYSIS DATE	TIME	ANALYST
AG/T/ICP	200.7	05/31/94	1011	BDL
AS/T/ICP	200.7	06/01/94		TJH
BA/T/ICP	200.7	06/03/94		TJH
CA/T/ICP	200.7	05/30/94	0950	BDL
CD/T/ICP	200.7	05/28/94	1125	BDL
CHLORIDE	EPA 325.3	05/31/94	0900	DCS
CONDUCTIVI	EPA 120.1	05/29/94	0900	KHJ
CR/T/ICP	200.7	05/30/94	0950	BDL
CU/T/ICP	200.7	05/31/94	1609	BDL
FE/T/ICP	200.7	05/31/94	1609	BDL
FLUORIDE	EPA 340.2	05/29/94	1700	APT
HG/T/CVAA	245.1	06/01/94	1355	LJP
K/T/ICP	200.7	06/01/94	1256	LJP
MG/T/ICP	200.7	05/31/94	1050	BDL
MN/T/ICP	200.7	05/28/94	1125	BDL
NO2	EPA 354.2	05/27/94	1900	APT
NA/T/ICP	200.7	06/02/94		TJH
NI/T/ICP	200.7	05/30/94	0950	BDL
NITRATE	122	05/27/94	1900	APT
PB/T/ICP	6010	05/28/94	1125	BDL
PH	EPA 150.1	05/27/94	1800	APT
PHENOL	420.1	06/01/94	1700	APT
PHENOL	420.1	06/01/94	1700	APT
SE/T/ICP	200.7	06/01/94		TJH
SULFATE	EPA 375.4	06/01/94	0800	CDM
TDS	EPA160.1	05/29/94		KHJ
TOC	EPA 415.1	05/31/94		TGM
TOX		06/01/94		SPA
ZN/T/ICP	200.7	05/28/94	1125	BDL

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QA/QC for Sample Nos: 41404, 41405, 41406, 41407,
Page 1

Analyte	LAB ID	Precision Data: Replicate A	Replicate B	Range	RPD %	Accuracy Data: % Spike Recovery	Reference Sample Data: Reference Sample ID	Target	Found	% Recovery
PH,LAB	-------	--------	--------	--------	--------	------	buffer 10	10.00	9.95	99.50
EPA 150.1	-------	--------	--------	--------	--------	------	APG	3.84	3.85	100.20
std units										
TOTAL DISSOLVED	41414	53.0	51.0	2.0	3.85	------	----------	--------	--------	------
SOLIDS	41417	20.0	20.0	0	0.00	------	----------	--------	--------	------
EPA160.1										
mg/l										
SPECIFIC	41414	79	79	0	0.00	------	APG	471.3	464	98.50
CONDUCTIVITY	41417	34	34	0	0.00	------	----------	--------	--------	------
EPA 120.1										
umhos										
CHLORIDE	41267	17.9	18.3	0.40	2.21	------	----------	--------	--------	------
EPA 325.3	41268	--------	--------	--------	--------	101.10	----------	--------	--------	------
mg/l	41271	--------	--------	--------	--------	104.50	----------	--------	--------	------
	41271	--------	--------	--------	--------	100.00	----------	--------	--------	------
TOTAL ORGANIC CARBON	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
EPA 415.1										
mg/l										
FLUORIDE	41409	--------	--------	--------	--------	87.00	----------	--------	--------	------
EPA 340.2	41417	--------	--------	--------	--------	94.30	----------	--------	--------	------
mg/l										
NITRITE	41194	--------	--------	--------	--------	88.80	LDL	0.50	0.53	106.20
EPA 354.2	41408	--------	--------	--------	--------	96.70	LCS	2.00	2.14	106.90
mg/l	41411	--------	--------	--------	--------	85.90	HI STD	10.00	10.53	105.30

QA/QC for Sample Nos: 41404, 41405, 41406, 41407,
Page 2

Analyte	LAB ID	Precision Data: Replicate A	Replicate B	Range	RPD %	Accuracy Data: % Spike Recovery	Reference Sample Data: Reference Sample ID	Target	Found	% Recovery
NITRATE	41404	1.81	1.79	0.020	1.11	------	LCS	0.14	0.15	104.30
122	41405	3.63	3.66	0.030	0.82	------	APG 11827	9.78	9.50	97.10
mg/l										
SULFATE	41265	6.4	6.2	0.20	3.17	------	ldl	1.0	0.98	97.90
EPA 375.4	41404	50.4	43.4	7.0	14.93	------	LCS	5.0	4.52	90.40
mg/l	41417	1.3	1.3	0	0.00	------	HI STD	10.00	9.90	99.00
	-------	--------	--------	--------	--------	------	APG 13005	20.1	19.1	95.30
PHENOL, TOTAL	41404	--------	--------	--------	--------	105.00	LDL	6.0	6.0	100.00
420.1	-------	--------	--------	--------	--------	------	LCS	20.0	20.4	102.00
ug/l	-------	--------	--------	--------	--------	------	HI STD	50.0	48.6	97.20
	-------	--------	--------	--------	--------	------	JAPG 12739	470.0	443.0	94.30
MERCURY, TOTAL	41175	0.0006	0.0005	0.00010	18.18	87.00	LDL	0.020	0.018	90.00
245.1	41262	(0.0002	(0.0002	0.00010	0.00	96.00	LCS	0.100	0.100	100.00
mg/l	41282	(0.0002	(0.0002	0.00010	0.00	------	----------	--------	--------	------
	41413	(0.0002	(0.0002	0.00010	0.00	81.00	----------	--------	--------	------
TOTAL ORGANIC HALIDES	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
MG/L										
SILVER.TOTAL	41175	(0.005	(0.005	0.0025	0.00	90.20	LDL	5.0	4.4	88.00
200.7	41175	--------	--------	--------	--------	91.60	LCS	100.0	97.1	97.10
mg/l	41176	--------	--------	--------	--------	90.60	APG 12530	108.0	18.8	104.40
	41411	(0.005	(0.005	0.0025	0.00	92.00	APG 12456	282.4	290.7	102.90
	41411	--------	--------	--------	--------	89.40	----------	--------	--------	------
	471176	--------	--------	--------	--------	87.00	----------	--------	--------	------
	940527	--------	--------	--------	--------	92.60	----------	--------	--------	------

QA/QC for Sample Nos: 41404, 41405, 41406, 41407,
Page 3

Analyte	LAB ID	Precision Data: Replicate A	Replicate B	Range	RPD %	Accuracy Data: % Spike Recovery	Reference Sample Data: Reference Sample ID	Target	Found	% Recovery
	940527	--------	--------	--------	--------	93.80	----------	--------	--------	------
	940528	--------	--------	--------	--------	88.60	----------	--------	--------	------
	940528	--------	--------	--------	--------	96.00	----------	--------	--------	------
	940529	--------	--------	--------	--------	92.20	----------	--------	--------	------
ARSENIC, TOTAL 200.7 mg/l	41410	0.002	0.002	0	0.00	------	----------	--------	--------	------
BARIUM, TOTAL 200.7 mg/l	41408	--------	--------	--------	--------	90.00	----------	--------	--------	------
CADMIUM, TOTAL 200.7 mg/l	41260	< 0.001	< 0.001	0.00050	0.00	------	LDL	1.0	1.1	110.00
	-------	--------	--------	--------	--------	------	LCS	100.0	98.5	98.50
	-------	--------	--------	--------	--------	------	APG 12350	11.8	12.6	106.80
	-------	--------	--------	--------	--------	------	APG 12456	111.9	120.4	107.60
CALCIUM, TOTAL 200.7 mg/l	41411	6.861	6.886	0.025	0.36	------	LCS	1000.0	1075	107.50
CHROMIUM, TOTAL 200.7 mg/l	41175	< 0.005	< 0.005	0.0025	0.00	104.90	LDL	5.0	3.9	79.00
	41175	--------	--------	--------	--------	105.60	LCS	100.0	98.2	98.20
	41176	--------	--------	--------	--------	103.70	APG 12530	23.7	24.4	103.00
	41176	--------	--------	--------	--------	103.70	APG 12456	292.7	310.8	106.20
	90527	--------	--------	--------	--------	97.10	----------	--------	--------	------
	940527	--------	--------	--------	--------	103.40	----------	--------	--------	------
COPPER, TOTAL 200.7 mg/l	41411	< 0.005	< 0.005	0.0025	0.00	77.00	LDL	5.0	5.5	110.00
	41411	--------	--------	--------	--------	91.40	LCS	100.0	98.2	98.20
	-------	--------	--------	--------	--------	------	APG 12530	34.1	38.1	111.70
	-------	--------	--------	--------	--------	------	APG 12456	250.1	260.9	104.30

QA/QC for Sample Nos: 41404, 41405, 41406, 41407,
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Analyte	LAB ID	Precision Data: Replicate A	Replicate B	Range	RPD %	Accuracy Data: % Spike Recovery	Reference Sample Data: Reference Sample ID	Target	Found	% Recovery
IRON, TOTAL	41175	1.303	1.229	0.074	5.85	102.20	LDL	25.0	24.5	98.00
200.7	41175	--------	--------	--------	--------	103.40	LCS	100.0	98.3	98.30
mg/l	41271	2.555	2.587	0.032	1.24	97.80	APG 12456	471.4	469.5	99.60
	41271	--------	--------	--------	--------	98.70	----------	--------	--------	------
	41411	--------	--------	--------	--------	77.80	----------	--------	--------	------
	91176	--------	--------	--------	--------	94.20	----------	--------	--------	------
	940527	--------	--------	--------	--------	92.90	----------	--------	--------	------
	940527	--------	--------	--------	--------	87.10	----------	--------	--------	------
	940528	--------	--------	--------	--------	89.10	----------	--------	--------	------
	940528	--------	--------	--------	--------	84.40	----------	--------	--------	------
POTASSIUM, TOTAL	41406	7.959	7.981	0.022	0.28	------	LCS	1.00	1.02	102.00
200.7	41410	1.945	1.925	0.020	1.03	------	APG 13005	7.36	7.91	107.50
mg/l										
LEAD, TOTAL	41151	< 0.010	< 0.010	0.0050	0.00	81.60	LCS	100.0	95.4	95.40
6010	41151	--------	--------	--------	--------	83.90	APG 12456	478.4	480.4	100.40
mg/l	41254	--------	--------	--------	--------	78.20	----------	--------	--------	------
	41302	--------	--------	--------	--------	82.90	----------	--------	--------	------
	940526	--------	--------	--------	--------	93.10	----------	--------	--------	------
	940527	--------	--------	--------	--------	95.00	----------	--------	--------	------
	940528	--------	--------	--------	--------	91.30	----------	--------	--------	------
	940529	--------	--------	--------	--------	85.40	----------	--------	--------	------
MAGNESIUM, TOTAL	41175	6.870	6.865	0.0050	0.07	------	LDL	5.0	3.8	76.00
200.7	41176	6.812	6.825	0.013	0.19	------	LCS	100.0	95.7	95.70
mg/l	41228	3.832	3.860	0.028	0.73	------	APG 13005	2.77	2.70	97.30
	41235	0.597	0.615	0.018	2.97	------	----------	--------	--------	------
	41242	1.292	1.302	0.010	0.77	------	----------	--------	--------	------
	41271	2.464	2.502	0.038	1.53	------	----------	--------	--------	------
	41411	3.157	3.153	0.0040	0.13	------	----------	--------	--------	------

QA/QC for Sample Nos: 41404, 41405, 41406, 41407.
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Analyte	LAB ID	Precision Data: Replicate A	Replicate B	Range	RPD %	Accuracy Data: % Spike Recovery	Reference Sample Data: Reference Sample ID	Target	Found	% Recovery
MANGANESE, TOTAL	940528	--------	--------	--------	--------	95.30	APG 12530	0.048	0.054	112.50
200.7	-------	--------	--------	--------	--------	------	APG 12456	0.142	0.160	112.70
mg/l										
NICKEL, TOTAL	41411	< 0.005	< 0.005	0.0025	0.00	79.20	LCS	100.0	98.4	98.40
200.7	940527	--------	--------	--------	--------	96.40	APG 12530	25.9	26.5	102.30
mg/l	940527	--------	--------	--------	--------	89.10	APG 12456	137.1	145.1	105.80
SELENIUM, TOTAL	41408	--------	--------	--------	--------	126.00	----------	--------	--------	------
200.7										
mg/l										
SODIUM, TOTAL	41410	8.6	8.6	0	0.00	------	----------	--------	--------	------
200.7										
mg/l										
ZINC, TOTAL	-------	--------	--------	--------	--------	------	LDL	10.0	8.3	83.00
200.7	-------	--------	--------	--------	--------	------	LCS	100.0	98.0	98.00
mg/l	-------	--------	--------	--------	--------	------	APG 12530	87.1	93.5	107.30
	-------	--------	--------	--------	--------	------	APG 12456	233.9	247.6	105.90

DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	ANALYSIS DATE	TIME	ANALYST
AG/T/ICP	200.7	05/31/94	1011	BDL
AS/T/ICP	200.7	06/01/94		TJH
BA/T/ICP	200.7	06/03/94		TJH
CA/T/ICP	200.7	05/30/94	0950	BDL
CD/T/ICP	200.7	05/30/94	1441	LJP
CHLORIDE	EPA 325.3	05/31/94	0900	DCS
CONDUCTIVI	EPA 120.1	05/29/94	0900	KHJ
CR/T/ICP	200.7	05/30/94	0950	BDL
CU/T/ICP	200.7	05/31/94	1609	BDL
FE/T/ICP	200.7	05/31/94	1609	BDL
FLUORIDE	EPA 340.2	05/29/94	1700	APT
HG/T/CVAA	245.1	06/01/94	1355	LJP
K/T/ICP	200.7	06/01/94	1256	LJP
MG/T/ICP	200.7	05/31/94	1050	BDL
MN/T/ICP	200.7	06/02/94	1111	LJP
NO2	EPA 354.2	05/27/94	1900	APT
NA/T/ICP	200.7	06/02/94		TJH
NI/T/ICP	200.7	05/30/94	0950	BDL
NITRATE	122	05/27/94	1900	APT
PB/T/ICP	6010	05/30/94	1441	BDL
PH	EPA 150.1	05/27/94	1800	APT
PHENOL	420.1	06/01/94	1700	APT
SE/T/ICP	200.7	06/01/94		TJH
SULFATE	EPA 375.4	06/01/94	0800	CDM
TDS	EPA160.1	05/29/94		KHJ
TOC	EPA 415.1	05/31/94		TGM
TOX		06/01/94		SPA
ZN/T/ICP	200.7	05/30/94	1441	LJP

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53618 SAMPLE ID- MW-1A CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/10/94 TIME SAMPLED- 1510
DATE RECEIVED- 11/11/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	6.0	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/17/94	KHJ	39.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	26	umhos	
CHLORIDE	EPA 325.3			11/22/94	SBL	1.1	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	4.2	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.69	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	<1.0	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0005	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.018	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	2.688	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.022	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	6.266	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	0.197	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.162	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	191.550	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	63.635	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53618 MW-1A

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	0.011	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	48.425	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	1.568	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	0.095	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	2.285	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.480	mg/l	0.010

LABORATORY DIRECTOR

P.O. BOX 18029 / ASHEVILLE, NC 28814 / 122 LYMAN STREET / ASHEVILLE, NC 28801 / (704) 254-5169 / FAX: (704) 252-9711 / TOLL FREE: 1-800-231-8889

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53515 SAMPLE ID- MW-2 CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/09/94 TIME SAMPLED- 0800
DATE RECEIVED- 11/10/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	< 0.10	mg/l	0.10
PHENOL, TOTAL	420.1			11/29/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/14/94	LJP	< 0.0002	mg/l	0.0002
SILVER,TOTAL	200.7	11/10/94	SLM	11/13/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/10/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	0.009	mg/l	0.005
CADMIUM, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	<0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/10/94	SLM	11/15/94	BDL	16.171	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	0.006	mg/l	0.005
COPPER, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	0.032	mg/l	0.005
IRON, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	3.277	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	56.048	mg/l	0.10
LEAD, TOTAL	6010	11/10/94	SLM	11/14/94	BDL	0.024	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/10/94	SLM	11/13/94	BDL	0.487	mg/l	0.010
MANGANESE, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	0.033	mg/l	0.010
NICKEL, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	0.197	mg/l	0.005
SELENIUM, TOTAL	200.7	11/10/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	2.983	mg/l	0.10
ZINC, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	0.081	mg/l	0.010

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53612 SAMPLE ID- 2-MW CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/10/94 TIME SAMPLED- 0900
DATE RECEIVED- 11/11/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
TOTAL ORGANIC CARBON	EPA 415.1	11/16/94	BRE	348	mg/l	1.0
TOTAL ORGANIC HALIDES		11/16/94	BRE	0.278	MG/L	0.005

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53705 SAMPLE ID- MW-2 CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/11/94 TIME SAMPLED- 0730
DATE RECEIVED- 11/11/94 SAMPLER- B. MORRIS RECEIVED BY- PLB
TIME RECEIVED- 1645 DELIVERED BY-

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1	11/11/94	MGN	9.6	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1	11/17/94	KHJ	8783.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1	12/02/94	MGN	115.6	umhos	
CHLORIDE	EPA 325.3	11/25/94	SAL	414.2	mg/l	0.50
FLUORIDE	EPA 340.2	11/16/94	LJP	4.29	mg/l	0.5
SULFATE	EPA 375.4	11/30/94	APT	1175	mg/l	1.0

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53514 SAMPLE ID- MW-3A CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/09/94 TIME SAMPLED- 1750
DATE RECEIVED- 11/10/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/10/94	MGN	8.0	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/16/94	KHJ	94.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	173	umhos	
CHLORIDE	EPA 325.3			11/18/94	KHJ	4.7	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	7.7	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	< 0.10	mg/l	0.10
SULFATE	EPA 375.4			11/25/94	LJP	6.1	mg/l	1.0
PHENOL, TOTAL	420.1			11/29/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/14/94	LJP	< 0.0002	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/11/94	BRE	0.020	MG/L	0.005
SILVER,TOTAL	200.7	11/10/94	SLM	11/13/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/10/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	0.007	mg/l	0.005
CADMIUM, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	<0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/10/94	SLM	11/17/94	BDL	16.504	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	< 0.005	mg/l	0.005
IRON, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	1.215	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	4.916	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53514 MW-5A

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/10/94	SLM	11/14/94	BDL	0.011	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/10/94	SLM	11/13/94	BDL	3.377	mg/l	0.010
MANGANESE, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	0.057	mg/l	0.010
NICKEL, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	< 0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/10/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	7.878	mg/l	0.10
ZINC, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	0.172	mg/l	0.010

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53621 SAMPLE ID- MW-4 CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/10/94 TIME SAMPLED- 1608
DATE RECEIVED- 11/11/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	6.1	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/17/94	KHJ	1749.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	2390	umhos	
CHLORIDE	EPA 325.3			11/22/94	SBL	194.8	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	9.1	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/18/94	LJP	< 0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.12	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	92.0	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0004	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.081	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.013	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.162	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.024	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	60.856	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	0.065	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.057	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	240.425	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	16.674	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53621 1w-d

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	51.739	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	6.562	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	0.036	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	184.889	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.229	mg/l	0.010

LABORATORY DIRECTOR

P.O. BOX 18029 / ASHEVILLE, NC 28814 / 122 LYMAN STREET / ASHEVILLE, NC 28801 / (704) 254-5169 / FAX: (704) 252-9711 / TOLL FREE: 1-800-231-8889

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53707 SAMPLE ID- MW-5A CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/11/94 TIME SAMPLED- 0800
DATE RECEIVED- 11/11/94 SAMPLER- B. MORRIS RECEIVED BY- PLB
TIME RECEIVED- 1645 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	5.7	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/17/94	KHJ	151.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	227	umhos	
CHLORIDE	EPA 325.3			11/25/94	SAL	37.7	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	2.0	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/18/94	LJP	0.02	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	1.31	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	16.6	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0006	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.082	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.300	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.007	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	12.503	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	0.067	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.084	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	68.862	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	11.774	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53707 - MW5A

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	23.305	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	1.930	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	0.071	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	10.102	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.208	mg/l	0.010

LABORATORY DIRECTOR

P.O. BOX 18029 / ASHEVILLE, NC 28814 / 122 LYMAN STREET / ASHEVILLE, NC 28801 / (704) 254-5169 / FAX: (704) 252-9711 / TOLL FREE: 1-800-231-8889

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53708 SAMPLE ID- MW-6 CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/11/94 TIME SAMPLED- 0831
DATE RECEIVED- 11/11/94 SAMPLER- B. MORRIS RECEIVED BY- PLB
TIME RECEIVED- 1645 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	5.7	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/17/94	KHJ	166.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	254	umhos	
CHLORIDE	EPA 325.3			11/25/94	SAL	34.9	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	61	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/18/94	LJP	0.03	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.43	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	13.3	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0021	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.072	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.147	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.005	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	15.992	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	0.042	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.060	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	50.872	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	6.657	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53708

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	0.023	mg/l	0.01(
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	13.629	mg/l	0.01(
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.721	mg/l	0.01(
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	0.032	mg/l	0.00:
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.01(
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	10.517	mg/l	0.1(
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.109	mg/l	0.01(

LABORATORY DIRECTOR

P.O. BOX 18029 / ASHEVILLE, NC 28814 / 122 LYMAN STREET / ASHEVILLE, NC 28801 / (704) 254-5169 / FAX: (704) 252-9711 / TOLL FREE: 1-800-231-8889

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53709 SAMPLE ID- MW-7A CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/11/94 TIME SAMPLED- 0856
DATE RECEIVED- 11/11/94 SAMPLER- B. MORRIS RECEIVED BY- PLB
TIME RECEIVED- 1645 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	5.9	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/17/94	KHJ	121.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	203	umhos	
CHLORIDE	EPA 325.3			11/25/94	SAL	11.8	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	<1.0	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/18/94	LJP	0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.28	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	44.1	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0020	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.030	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/18/94	BDL	0.182	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.008	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	15.344	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	0.035	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/18/94	BDL	0.006	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/18/94	BDL	78.866	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	4.620	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53709 MW-6

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	25.414	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	1.042	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	0.051	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	6.392	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.321	mg/l	0.010

LABORATORY DIRECTOR

P.O. BOX 18029 / ASHEVILLE, NC 28814 / 122 LYMAN STREET / ASHEVILLE, NC 28801 / (704) 254-5169 / FAX: (704) 252-9711 / TOLL FREE: 1-800-231-8889

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/05/94

SAMPLE NUMBER- 53364 SAMPLE ID- 8-MW CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/08/94 TIME SAMPLED- 1245
DATE RECEIVED- 11/09/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/09/94	MGN	6.5	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/15/94	MGN	70.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/09/94	KHJ	83	umhos	
CHLORIDE	EPA 325.3			11/18/94	KHJ	2.7	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	13	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			11/09/94	APT	<0.10	mg/l	0.10
SULFATE	EPA 375.4			11/22/94	LJP	7.9	mg/l	1.0
PHENOL, TOTAL	420.1			11/29/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			10/11/94	LJP	0.0002	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/11/94	BRE	0.027	MG/L	0.005
SILVER,TOTAL	200.7	11/09/94	SLM	11/10/94	BDL	< 0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/09/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	0.030	mg/l	0.005
CADMIUM, TOTAL	200.7	11/09/94	SLM	11/10/94	LJP	0.003	mg/l	0.001
CALCIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	4.365	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	0.007	mg/l	0.005
IRON, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	9.229	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	5.467	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53364 MW-8

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/09/94	SLM	11/10/94	BDL	< 0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/09/94	SLM	11/13/94	BDL	102.064	mg/l	0.010
MANGANESE, TOTAL	200.7	11/09/94	SLM	11/10/94	LCS	0.134	mg/l	0.010
NICKEL, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/09/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	3.735	mg/l	0.10
ZINC, TOTAL	200.7	11/09/94	SLM	11/10/94	LJP	0.164	mg/l	0.010

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/05/94

SAMPLE NUMBER- 53361 SAMPLE ID- 9-MW CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/08/94 TIME SAMPLED- 1115
DATE RECEIVED- 11/09/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/09/94	MGN	6.3	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/15/94	MGN	48.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/09/94	KHJ	34	umhos	
CHLORIDE	EPA 325.3			11/18/94	KHJ	2.7	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	2.5	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			11/09/94	APT	0.28	mg/l	0.10
SULFATE	EPA 375.4			11/22/94	LJP	2.9	mg/l	1.0
PHENOL, TOTAL	420.1			11/20/94	APT	<6.0	ug/l	6.0
MERCURY, TOTAL	245.1			10/11/94	LJP	< 0.0002	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/11/94	BRE	0.054	MG/L	0.005
SILVER,TOTAL	200.7	11/09/94	SLM	11/10/94	BDL	< 0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/09/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	0.008	mg/l	0.005
CADMIUM, TOTAL	200.7	11/09/94	SLM	11/10/94	LJP	0.002	mg/l	0.001
CALCIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	2.005	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	< 0.005	mg/l	0.005
IRON, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	1.441	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	1.635	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53361 MW-9

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/09/94	SLM	11/10/94	BDL	0.012	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/09/94	SLM	11/13/94	BDL	2.137	mg/l	0.010
MANGANESE, TOTAL	200.7	11/09/94	SLM	11/10/94	LCS	0.029	mg/l	0.010
NICKEL, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	<0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/09/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	1.904	mg/l	0.10
ZINC, TOTAL	200.7	11/09/94	SLM	11/10/94	LJP	0.101	mg/l	0.010

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/05/94

SAMPLE NUMBER- 53363 SAMPLE ID- 10-MW CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/08/94 TIME SAMPLED- 1215
DATE RECEIVED- 11/09/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/09/94	MGN	6.2	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/15/94	MGN	40.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/09/94	KHJ	37	umhos	
CHLORIDE	EPA 325.3			11/18/94	KHJ	2.7	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	<1.0	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			11/09/94	APT	<0.10	mg/l	0.10
SULFATE	EPA 375.4			11/22/94	LJP	1.7	mg/l	1.0
PHENOL, TOTAL	420.1			11/20/94	APT	<6.0	ug/l	6.0
MERCURY, TOTAL	245.1			10/11/94	LJP	0.0003	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/11/94	BRE	0.057	MG/L	0.005
SILVER,TOTAL	200.7	11/09/94	SLM	11/10/94	BDL	< 0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/09/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	0.013	mg/l	0.005
CADMIUM, TOTAL	200.7	11/09/94	SLM	11/10/94	LJP	0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	2.522	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	0.007	mg/l	0.005
IRON, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	0.830	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	1.043	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53363 MW-1D

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/09/94	SLM	11/10/94	BDL	< 0.010	mg/l	0.01
MAGNESIUM, TOTAL	200.7	11/09/94	SLM	11/13/94	BDL	2.148	mg/l	0.01
MANGANESE, TOTAL	200.7	11/09/94	SLM	11/10/94	LCS	0.016	mg/l	0.01
NICKEL, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	<0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/09/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.01
SODIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	2.535	mg/l	0.1
ZINC, TOTAL	200.7	11/09/94	SLM	11/10/94	LJP	0.067	mg/l	0.01

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/05/94

SAMPLE NUMBER- 53362 SAMPLE ID- 11-MW CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/08/94 TIME SAMPLED- 1145
DATE RECEIVED- 11/09/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/09/94	MGN	5.3	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/15/94	MGN	60.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/09/94	KHJ	63	umhos	
CHLORIDE	EPA 325.3			11/18/94	KHJ	7.1	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	19.1	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			11/09/94	APT	2.64	mg/l	0.10
SULFATE	EPA 375.4			11/22/94	LJP	< 1.0	mg/l	1.0
PHENOL, TOTAL	420.1			11/20/94	APT	<6.0	ug/l	6.0
MERCURY, TOTAL	245.1			10/11/94	LJP	< 0.0002	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/11/94	BRE	0.027	MG/L	0.005
SILVER,TOTAL	200.7	11/09/94	SLM	11/10/94	BDL	< 0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/09/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	0.065	mg/l	0.005
CADMIUM, TOTAL	200.7	11/09/94	SLM	11/10/94	LJP	0.002	mg/l	0.001
CALCIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	1.949	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	0.007	mg/l	0.005
IRON, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	7.367	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	1.816	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53362 MW-11

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/09/94	SLM	11/10/94	BDL	< 0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/09/94	SLM	11/13/94	BDL	0.511	mg/l	0.010
MANGANESE, TOTAL	200.7	11/09/94	SLM	11/10/94	LCS	0.022	mg/l	0.010
NICKEL, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	0.006	mg/l	0.005
SELENIUM, TOTAL	200.7	11/09/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	3.646	mg/l	0.10
ZINC, TOTAL	200.7	11/09/94	SLM	11/10/94	LJP	0.094	mg/l	0.010

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53622 SAMPLE ID- MW-12 CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/10/94 TIME SAMPLED- 1710
DATE RECEIVED- 11/11/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	6.2	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/17/94	KHJ	115.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	88	umhos	
CHLORIDE	EPA 325.3			11/22/94	SBL	3.4	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	9.0	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/18/94	LJP	< 0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.72	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	17.0	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0008	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.020	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.027	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.024	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	4.336	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	3.165	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	1.983	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53622 MW-12

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	3.077	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.107	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	4.821	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.026	mg/l	0.010

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/05/94

SAMPLE NUMBER- 53365 SAMPLE ID- 13-MW CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/08/94 TIME SAMPLED- 1720
DATE RECEIVED- 11/09/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/09/94	MGN	6.7	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/15/94	MGN	4070.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/09/94	KHJ	5520	umhos	
CHLORIDE	EPA 325.3			11/18/94	KHJ	175.7	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	6.9	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			11/09/94	APT	0.14	mg/l	0.10
SULFATE	EPA 375.4			11/22/94	LJP	1880.0	mg/l	1.0
PHENOL, TOTAL	420.1			11/29/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			10/11/94	LJP	0.0022	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/11/94	BRE	0.262	MG/L	0.005
SILVER,TOTAL	200.7	11/09/94	SLM	11/10/94	BDL	< 0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/09/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	0.910	mg/l	0.005
CADMIUM, TOTAL	200.7	11/09/94	SLM	11/10/94	LJP	0.019	mg/l	0.001
CALCIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	106.745	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	0.102	mg/l	0.005
COPPER, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	0.136	mg/l	0.005
IRON, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	137.310	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/09/94	SLM	11/11/94	BDL	42.090	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53365 MW-13

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/09/94	SLM	11/10/94	BDL	0.019	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/09/94	SLM	11/13/94	BDL	104.897	mg/l	0.010
MANGANESE, TOTAL	200.7	11/09/94	SLM	11/10/94	LCS	10.660	mg/l	0.010
NICKEL, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	0.090	mg/l	0.005
SELENIUM, TOTAL	200.7	11/09/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/09/94	SLM	11/12/94	BDL	106.678	mg/l	0.10
ZINC, TOTAL	200.7	11/09/94	SLM	11/10/94	LJP	0.421	mg/l	0.010

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53509 SAMPLE ID- 14-MW CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/09/94 TIME SAMPLED- 1010
DATE RECEIVED- 11/10/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/10/94	MGN	6.7	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/16/94	KHJ	82.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	128	umhos	
CHLORIDE	EPA 325.3			11/18/94	KHJ	23.4	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	6.3	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	0.03	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	1.47	mg/l	0.10
SULFATE	EPA 375.4			11/22/94	LJP	1.5	mg/l	1.0
PHENOL, TOTAL	420.1			11/29/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/14/94	LJP	0.0005	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/11/94	BRE	0.078	MG/L	0.005
SILVER,TOTAL	200.7	11/10/94	SLM	11/13/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/10/94	SLM	11/23/94	BDL	< 0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	11.680	mg/l	0.005
CADMIUM, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	0.076	mg/l	0.001
CALCIUM, TOTAL	200.7	11/10/94	SLM	11/17/94	BDL	29.727	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	1.220	mg/l	0.005
COPPER, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	0.299	mg/l	0.005
IRON, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	521.109	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	237.081	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53509 MW-14

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/10/94	SLM	11/14/94	BDL	0.132	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/10/94	SLM	11/13/94	BDL	213.334	mg/l	0.010
MANGANESE, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	11.896	mg/l	0.010
NICKEL, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	0.636	mg/l	0.005
SELENIUM, TOTAL	200.7	11/10/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	9.713	mg/l	0.10
ZINC, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	1.867	mg/l	0.010

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53508 SAMPLE ID- 15-MW CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/09/94 TIME SAMPLED- 0930
DATE RECEIVED- 11/10/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
'H,LAB	EPA 150.1			11/10/94	MGN	7.0	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/16/94	KHJ	33.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	30	umhos	
CHLORIDE	EPA 325.3			11/18/94	KHJ	3.7	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	<1.0	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.70	mg/l	0.10
SULFATE	EPA 375.4			11/22/94	LJP	2.0	mg/l	1.0
PHENOL, TOTAL	420.1			11/29/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/14/94	LJP	< 0.0002	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/11/94	BRE	0.030	MG/L	0.005
SILVER,TOTAL	200.7	11/10/94	SLM	11/13/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/10/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	2.232	mg/l	0.005
CADMIUM, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	0.019	mg/l	0.001
CALCIUM, TOTAL	200.7	11/10/94	SLM	11/17/94	BDL	7.262	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	0.138	mg/l	0.005
COPPER, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	0.105	mg/l	0.005
IRON, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	142.201	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	54.431	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53508 MW-15

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/10/94	SLM	11/14/94	BDL	0.039	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/10/94	SLM	11/13/94	BDL	37.565	mg/l	0.010
MANGANESE, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	2.002	mg/l	0.010
NICKEL, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	0.076	mg/l	30.005
SELENIUM, TOTAL	200.7	11/10/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	2.460	mg/l	0.10
ZINC, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	0.537	mg/l	0.010

LABORATORY DIRECTOR _____

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53620 SAMPLE ID- BOWEN-UP SAMPLE MATRIX- WW
DATE SAMPLED- 11/10/94 TIME SAMPLED- 1515
DATE RECEIVED- 11/11/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	7.2	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/17/94	KHJ	68.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	92	umhos	
CHLORIDE	EPA 325.3			11/22/94	SBL	3.3	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	6.7	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/18/94	LJP	< 0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.51	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	5.0	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0004	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.032	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/18/94	BDL	0.030	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	3.779	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/18/94	BDL	< 0.005	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/18/94	BDL	1.124	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	3.020	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53620 Bowen Br - up

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	1.719	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.057	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	3.255	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.088	mg/l	0.010

LABORATORY DIRECTOR

P.O. BOX 18029 / ASHEVILLE, NC 28814 / 122 LYMAN STREET / ASHEVILLE, NC 28801 / (704) 254-5169 / FAX: (704) 252-9711 / TOLL FREE: 1-800-231-8889

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53706 SAMPLE ID- BOWEN-DOWN SAMPLE MATRIX- WW
DATE SAMPLED- 11/11/94 TIME SAMPLED- 0715
DATE RECEIVED- 11/11/94 SAMPLER- B. MORRIS RECEIVED BY- PLB
TIME RECEIVED- 1645 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
H,LAB	EPA 150.1			11/11/94	MGN	8.0	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/17/94	KHJ	89.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	68	umhos	
CHLORIDE	EPA 325.3			11/25/94	SAL	3.3	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	1.2	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/18/94	LJP	< 0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.58	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	3.7	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0004	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.024	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.023	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	<0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	4.445	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.581	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	2.321	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53706 Boron Br - Down

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	1.743	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.042	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	4.760	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.029	mg/l	0.010

LABORATORY DIRECTOR

P.O. BOX 18029 / ASHEVILLE, NC 28814 / 122 LYMAN STREET / ASHEVILLE, NC 28801 / (704) 254-5169 / FAX: (704) 252-9711 / TOLL FREE: 1-800-231-8889

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- , 53623 SAMPLE ID- BOWEN-3 SAMPLE MATRIX- WW
DATE SAMPLED- 11/10/94 TIME SAMPLED- 1720
DATE RECEIVED- 11/11/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	7.9	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/17/94	KHJ	105.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	169	umhos	
CHLORIDE	EPA 325.3			11/22/94	SBL	5.5	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	14	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/18/94	LJP	< 0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.43	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	36.9	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0003	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.009	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.064	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	12.675	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.009	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	4.620	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	4.921	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53623 Bowen Br-3

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	2.845	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.243	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	0.020	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	17.244	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53624 SAMPLE ID- BOWEN-4 SAMPLE MATRIX- WW
DATE SAMPLED- 11/10/94 TIME SAMPLED- 1750
DATE RECEIVED- 11/11/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
'H,LAB	EPA 150.1			11/11/94	MGN	7.9	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/17/94	KHJ	122.5	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	193	umhos	
CHLORIDE	EPA 325.3			11/22/94	SBL	6.0	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	5.1	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/18/94	LJP	< 0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.70	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	47.0	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0003	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.009	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.068	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	9.656	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	0.006	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.008	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	5.746	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	4.853	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53624 Bowen Br. 4

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	3.156	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.229	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	0.021	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	21.255	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.165	mg/l	0.010

LABORATORY DIRECTOR

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FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53619 SAMPLE ID- FIBERVILLE
DATE SAMPLED- 11/10/94
DATE RECEIVED- 11/11/94 SAMPLER- BILL MORRIS
TIME RECEIVED- 0800 DELIVERED BY-

SAMPLE MATRIX- WW
TIME SAMPLED- 1445
RECEIVED BY- PLB

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	7.7	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/17/94	KHJ	366.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	589	umhos	
CHLORIDE	EPA 325.3			11/22/94	SBL	3.4	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	11	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	0.11	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.72	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	107	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0003	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.282	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.033	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	<0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	7.328	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.512	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	8.029	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53619 Fiberville Br.

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	1.288	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.098	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	103.589	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.048	mg/l	0.010

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- , 53710 SAMPLE ID- WAYNE BRIDGE SAMPLE MATRIX- WW
DATE SAMPLED- 11/11/94 TIME SAMPLED- 0935
DATE RECEIVED- 11/11/94 SAMPLER- B. MORRIS RECEIVED BY- PLB
TIME RECEIVED- 1645 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
?H,LAB	EPA 150.1			11/11/94	MGN	7.2	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/17/94	KHJ	182.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	301	umhos	
CHLORIDE	EPA 325.3			11/25/94	SAL	15.7	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	10	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/18/94	LJP	0.06	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.82	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	55.8	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0004	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.137	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.023	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	<0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	6.454	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.418	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	4.125	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53710 Waynesville Br.

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	1.149	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.084	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	6.244	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.028	mg/l	0.010

LABORATORY DIRECTOR

P.O. BOX 18029 / ASHEVILLE, NC 28814 / 122 LYMAN STREET / ASHEVILLE, NC 28801 / (704) 254-5169 / FAX: (704) 252-9711 / TOLL FREE: 1-800-231-8889

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53711 SAMPLE ID- 5B-1 CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/11/94 TIME SAMPLED- 1042
DATE RECEIVED- 11/11/94 SAMPLER- B. MORRIS RECEIVED BY- PLB
TIME RECEIVED- 1645 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	7.2	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/17/94	KHJ	35.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	46	umhos	
CHLORIDE	EPA 325.3			11/25/94	SAL	1.1	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	<1.0	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/18/94	LJP	0.02	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.37	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	1.4	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0003	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.014	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.036	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/17/94	BDL	2.387	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/17/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	10.598	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	1.029	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53711 5

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	1.377	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.267	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/17/94	BDL	< 0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/17/94	BDL	0.971	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010

LABORATORY DIRECTOR _____

P.O. BOX 18029 / ASHEVILLE, NC 28814 / 122 LYMAN STREET / ASHEVILLE, NC 28801 / (704) 254-5169 / FAX: (704) 252-9711 / TOLL FREE: 1-800-231-8889

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53617 SAMPLE ID- 5B-2 CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/10/94 TIME SAMPLED- 1228
DATE RECEIVED- 11/11/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	6.3	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/17/94	KHJ	257.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	439	umhos	
CHLORIDE	EPA 325.3			11/22/94	SBL	66.3	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	<1.0	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.93	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	8.8	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0004	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.082	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.160	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.004	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	31.508	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	22.211	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	4.150	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53617 53-2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	11.226	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.292	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	19.814	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010

LABORATORY DIRECTOR

P.O. BOX 18029 / ASHEVILLE, NC 28814 / 122 LYMAN STREET / ASHEVILLE, NC 28801 / (704) 254-5169 / FAX: (704) 252-9711 / TOLL FREE: 1-800-231-8889

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53613 SAMPLE ID- 5B-3 CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/10/94 TIME SAMPLED- 0915
DATE RECEIVED- 11/11/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	6.7	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/16/94	KHJ	142.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	236	umhos	
CHLORIDE	EPA 325.3			11/22/94	SBL	27.1	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	<1.0	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.18	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	11.2	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0002	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.010	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/23/94	BDL	< 0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.601	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.004	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	6.380	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	23.705	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	3.062	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53613 5133

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	4.309	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	6.637	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	0.013	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	7.507	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.191	mg/l	0.010

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53614 SAMPLE ID- 5C-1 CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/10/94 TIME SAMPLED- 1110
DATE RECEIVED- 11/11/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	6.5	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/16/94	KHJ	27.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	110	umhos	
CHLORIDE	EPA 325.3			11/22/94	SBL	7.7	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	6.9	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/18/94	LJP	< 0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	4.37	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	10.9	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0003	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.025	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/23/94	BDL	< 0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.022	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	<0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/17/94	BDL	8.974	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.262	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	1.790	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53614 ·5c(

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	3.038	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.024	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	6.169	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53512 SAMPLE ID- 5C2 CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/09/94 TIME SAMPLED- 1614
DATE RECEIVED- 11/10/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/10/94	MGN	7.2	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/16/94	KHJ	99.5	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	154	umhos	
CHLORIDE	EPA 325.3			11/18/94	KHJ	15.0	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	<1.0	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.60	mg/l	0.10
SULFATE	EPA 375.4			11/22/94	LJP	17.3	mg/l	1.0
PHENOL, TOTAL	420.1			11/29/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/14/94	LJP	< 0.0002	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/11/94	BRE	0.037	MG/L	0.005
SILVER,TOTAL	200.7	11/10/94	SLM	11/13/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/10/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	0.071	mg/l	0.005
CADMIUM, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	<0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/10/94	SLM	11/17/94	BDL	9.756	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	0.007	mg/l	0.005
IRON, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	0.598	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	2.245	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53512 5C-2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/10/94	SLM	11/14/94	BDL	0.015	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/10/94	SLM	11/13/94	BDL	3.247	mg/l	0.010
MANGANESE, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	0.013	mg/l	0.010
NICKEL, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	< 0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/10/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	5.394	mg/l	0.10
ZINC, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	0.138	mg/l	0.010

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53513 SAMPLE ID- 5C3 CHAMPION SAMPLE MATRIX- WW
DATE SAMPLED- 11/09/94 TIME SAMPLED- 1710
DATE RECEIVED- 11/10/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
'H,LAB	EPA 150.1			11/10/94	MGN	6.3	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/16/94	KHJ	187.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	319	umhos	
CHLORIDE	EPA 325.3			11/18/94	KHJ	55.7	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	<1.0	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.12	mg/l	0.10
SULFATE	EPA 375.4			11/22/94	LJP	2.0	mg/l	1.0
PHENOL, TOTAL	420.1			11/29/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/14/94	LJP	< 0.0002	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/11/94	BRE	0.046	MG/L	0.005
SILVER,TOTAL	200.7	11/10/94	SLM	11/13/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/10/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	0.091	mg/l	0.005
CADMIUM, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	<0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/10/94	SLM	11/17/94	BDL	21.289	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	< 0.005	mg/l	0.005
IRON, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	0.597	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/10/94	SLM	11/11/94	BDL	2.902	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53513 5C3

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/10/94	SLM	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/10/94	SLM	11/13/94	BDL	11.917	mg/l	0.010
MANGANESE, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	0.997	mg/l	0.010
NICKEL, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	0.010	mg/l	0.005
SELENIUM, TOTAL	200.7	11/10/94	SLM	11/15/94	BDL	< 0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/10/94	SLM	11/12/94	BDL	10.839	mg/l	0.10
ZINC, TOTAL	200.7	11/10/94	SLM	11/14/94	BDL	0.103	mg/l	0.010

LABORATORY DIRECTOR

P.O. BOX 18029 / ASHEVILLE, NC 28814 / 122 LYMAN STREET / ASHEVILLE, NC 28801 / (704) 254-5169 / FAX: (704) 252-9711 / TOLL FREE: 1-800-231-8889

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53616 SAMPLE ID- BEAVER-UP SAMPLE MATRIX- WW
DATE SAMPLED- 11/10/94 TIME SAMPLED- 1100
DATE RECEIVED- 11/11/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	7.4	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/16/94	KHJ	56.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	68	umhos	
CHLORIDE	EPA 325.3			11/22/94	SBL	3.3	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	6.0	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.39	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	3.7	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	0.0004	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.032	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.037	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	<0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	5.130	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	1.179	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	2.455	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53616 Beaverdam Crk up

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	1.861	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.057	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	3.374	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010

LABORATORY DIRECTOR

FINAL REPORT OF ANALYSES

ROY WESTON
C/O JIM GIAQUE
PO BOX C-10
CANTON, NC 28716-
Attn: JIM GIAUQUE

PROJECT NAME: CHAMPION INTER.
REPORT DATE: 12/03/94

SAMPLE NUMBER- 53615 SAMPLE ID- BEAVER-DOWN SAMPLE MATRIX- WW
DATE SAMPLED- 11/10/94 TIME SAMPLED- 0845
DATE RECEIVED- 11/11/94 SAMPLER- BILL MORRIS RECEIVED BY- PLB
TIME RECEIVED- 0800 DELIVERED BY-

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
PH,LAB	EPA 150.1			11/11/94	MGN	7.3	std units	
TOTAL DISSOLVED SOLIDS	EPA160.1			11/16/94	KHJ	34.0	mg/l	1.0
SPECIFIC CONDUCTIVITY	EPA 120.1			11/13/94	KHJ	76	umhos	
CHLORIDE	EPA 325.3			11/22/94	SBL	4.4	mg/l	0.50
TOTAL ORGANIC CARBON	EPA 415.1			11/16/94	BRE	2.1	mg/l	1.0
FLUORIDE	EPA 340.2			11/16/94	LJP	<0.50	mg/l	0.5
NITRITE	EPA 354.2			11/17/94	LJP	<0.01	mg/l	0.01
NITRATE	EPA 352.1			12/02/94	APT	0.59	mg/l	0.10
SULFATE	EPA 375.4			11/30/94	APT	3.3	mg/l	1.0
PHENOL, TOTAL	420.1			12/01/94	APT	< 7.5	ug/l	6.0
MERCURY, TOTAL	245.1			11/18/94	BDL	< 0.0002	mg/l	0.0002
TOTAL ORGANIC HALIDES				11/16/94	BRE	0.041	MG/L	0.005
SILVER,TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
ARSENIC, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
BARIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.040	mg/l	0.005
CADMIUM, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	<0.001	mg/l	0.001
CALCIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	5.329	mg/l	0.10
CHROMIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.005	mg/l	0.005
IRON, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	0.890	mg/l	0.010
POTASSIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	2.270	mg/l	0.10

CONTINUATION OF DATA FOR SAMPLE NUMBER 53615 Beaverdam Crk Down

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
LEAD, TOTAL	6010	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010
MAGNESIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	1.944	mg/l	0.010
MANGANESE, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	0.065	mg/l	0.010
NICKEL, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	< 0.005	mg/l	0.005
SELENIUM, TOTAL	200.7	11/12/94	LJP	11/16/94	BDL	<0.010	mg/l	0.010
SODIUM, TOTAL	200.7	11/12/94	LJP	11/15/94	BDL	3.486	mg/l	0.10
ZINC, TOTAL	200.7	11/12/94	LJP	11/14/94	BDL	<0.010	mg/l	0.010

LABORATORY DIRECTOR

53365

WESTON Analytics Use Only

Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: CHAMPION
Est. Final Proj. Sampling Date:
Work Order #:
Project Contact/Phone #: BILL MORRIS (919) 380-7410
AD Project Manager:
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #:
#/Type Container: Liquid / Solid
Volume: Liquid / Solid
Preservatives:

ANALYSES REQUESTED →

ORGANIC							INORG							
VOA	BNA	Pest/PCB	Herb				Metal	CN	TOC/TOX	PHENOL	NO2/NO3	Cl, F, SO4, TDS		

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	Metal	CN	TOC/TOX	PHENOL	NO2/NO3	Cl, F, SO4, TDS		
	MW-9			W	8Nov91	1115	X		X	X	X	X		
	MW-11					1145	X		X	X	X	X		
	MW-10					1215	X		X	X	X	X		
	MW-8					1245	X		X	X	X	X		
	MW-13					1720	X		X	X	X	X		

WESTON Analytics Use Only

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
25 SAMPLES TOTAL

DATE/REVISIONS:
1.
2.
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6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

Relinquished by	Received by	Date	Time
[signature]		9/Nov	0800
	[signature]	9/Nov	800

Relinquished by	Received by	Date	Time

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# ____ 381-596a

5508-05515

WESTON Analytics Use Only

Custody Transfer Record/Lab Work Request

WESTON

Page ___ of ___

Client: CITY OF TACOMA
Est. Final Proj. Sampling Date
Work Order #
Project Contact/Phone # BILL MORRIS (9A) 380-7410
AD Project Manager
QC ___ Del ___ TAT ___
Date Rec'd ___ Date Due ___
Account #

Refrigerator #
#/Type Container (Liquid / Solid)
Volume (Liquid / Solid)
Preservatives

ANALYSES REQUESTED →

ORGANIC				INORG							
VOA	BNA	Pest/PCB	Herb	Metal	CN	TOC	Phenols	Hg	Cl, F, SO4, Alkalinity		

WESTON Analytics Use Only

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA	BNA	Pest/PCB	Herb				Metal	CN	TOC	Phenols	Hg	Cl, F, SO4, Alkalinity		
	MW-2					0800								X			X	X			
	MW-15					0930								X		X	X	X	X		
	MW-14					1010								X		X	X	X	X		
	C. PILE-UP					1130								X		X	X	X	X		
	C. PILE-DOWN					1308								X		X	X	X	X		
	5C2					1614								X		X	X	X	X		
	5C3					1710 1750								X		X	X	X	X		
	MW-3A					1750								X		X	X	X	X		

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
38 SAMPLES TOTAL
- 2 COOLERS

DATE/REVISIONS:
1. ___
2. ___
3. ___
4. ___
5. ___
6. ___

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

Relinquished by	Received by	Date	Time
[signature]		10 Nov 94	0800
[signature]	LATB	11-10-94	8004

Relinquished by	Received by	Date	Time

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# ___ 381-596a

WESTON Analytics Use Only

Custody Transfer Record/Lab Work Request

WESTON

Page 2 of 2

Client: CHAMPION
Est. Final Proj. Sampling Date: 11-NOV-94
Work Order #:
Project Contact/Phone #: BILL MORRIS (919-380-7410)
AD Project Manager:
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #																
#/Type Container	Liquid															
	Solid															
Volume	Liquid															
	Solid															
Preservatives																
ANALYSES REQUESTED →		ORGANIC							INORG							
		VOA	BNA	Pest/PCB	Herb	TOC/TOX	EDM		Metal	CN	TOC/TOX	PHENOL	NO3/NO2	Cl, F, Br		
		WESTON Analytics Use Only														

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA	BNA	Pest/PCB	Herb	TOC/TOX	EDM		Metal	CN	TOC/TOX	PHENOL	NO3/NO2	Cl, F, Br		
	MW-12				10-NOV-94	1710								X		X	X	X	X		
	BOWEN-3				↓	1720								X		X	X	X	X		
	BOWEN-4				↓	1750								X		X	X	X	X		

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

DATE/REVISIONS:
1.
2.
3.
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

Relinquished by	Received by	Date	Time
EJM	[signature]	11-11	800

Relinquished by	Received by	Date	Time

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# _____ Cooler# _____ 381-596a

55610 – 53624

WESTON Analytics Use Only

Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 2

Client: HAMPTON
Est. Final Proj. Sampling Date
Work Order #
Project Contact/Phone # BILL NORRIS (919) 380-7410
AD Project Manager
QC ____ Del ____ TAT ____

Date Rec'd ____ Date Due ____
Account # ____

Refrigerator #

#/Type Container	Liquid	Solid
Volume	Liquid	Solid
Preservatives		

ANALYSES REQUESTED →

ORGANIC				INORG											
VOA	BNA	Pest/PCB	Herb	Metal	CN	TPH	Phenol	NO3/NO2	PAH						

MATRIX CODES: S - Soil/Solid; SE - Sediment; SO - Solid; SL - Sludge; W - Water; O - Oil; A - Air; DS - Drum Solids; DL - Drum Liquids; T - EP/TCLP Extract; WI - Wipes; P - Paint

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	WESTON Analytics Use Only														
	5B-3				10/29/91	0915								X		X	X	X	X		
	MW-2					0900										X					
	5C-1					1110								X		X	X	X	X		
	BEAVER-DOWN					0845								X		X	X	X	X		
	BEAVER-UP					1100								X		X	X	X	X		
	5B-2					1228								X		X	X	X	X		
	MW-1A					1510								X		X	X	X	X		
	FIBERVILLE					1445								X		X	X	X	X		
	BOWEN-D.P.					1515								X		X	X	X	X		
	MW-4					1608								X		X	X	X	X		

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

DATE/REVISIONS:
1. ____
2. ____
3. ____
4. ____
5. ____
6. ____

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___ Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

Relinquished by	Received by	Date	Time
EJM	[signature]	11-11	800

Relinquished by	Received by	Date	Time

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# ____ 381-596a

SS/W - SS 11

WESTON Analytics Use Only

Custody Transfer Record/Lab Work Request

WESTON

Page ____ of ____

Client: CHAMPION
Est. Final Proj. Sampling Date: 11-NOV-91
Work Order #:
Project Contact/Phone #: B. MORRIS (919-380-7410)
AD Project Manager:
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account #:

Refrigerator #:
#/Type Container: Liquid / Solid
Volume: Liquid / Solid
Preservatives:

ANALYSES REQUESTED →

ORGANIC				INORG						
VOA	BNA	Pest/PCB	Herb	Metal	CN	TOC/TOX	PHENOL	NO_2/NO_3	Cl, F, SO_4, TDS	

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	WESTON Analytics Use Only														
	BOWEN-DOWN				NOV-11	0715								X		X	X	X	X		
	MW-2					0730													X		
	MW-5A					0800								X		X	X	X	X		
	MW-6					0831								X		X	X	X	X		
	MW-7A					0856								X		X	X	X	X		
	WAYNE BRIDGE					0935								X		X	X	X	X		
	SB-1					1042								X		X	X	X	X		

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

DATE/REVISIONS:
1. ____
2. ____
3. ____
4. ____
5. ____
6. ____

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

Relinquished by	Received by	Date	Time
EJM	[signature]	11-11	1630

Relinquished by	Received by	Date	Time

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# ____ 381-596a