QUARTERLY GROUNDWATER MONITORING REPORT
SUMTER COUNTY SOLID WASTE
MANAGEMENT FACILITY
SUMTERVILLE, SUMTER COUNTY, FLORIDA

D.E.P.
MAY 27 1999
Southwest District Tampa

DEP Form # 62-522.900(2)

Form Title GROUND WATER MONITORING REPORT

Effective Date

DEP Application No.

Florida Department of Environmental Protection

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Sumter County Solid Waste Management Facility

Address 319 E. Anderson Avenue

City Bushnell Zip 33513

Telephone Number (352) 793-0240

(2) The GMS Identification Number 4060C00092

(3) DEP Permit Number 22926-002-SF

(4) Authorized Representative Name Garry Breedon

Address 319 E. Anderson Avenue

City Bushnell Zip 33513

Telephone Number (352) 793-0240

(5) Type of Discharge

(6) Method of Discharge Groundwater Slow Rate Infiltration

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date: 5-21-99

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # 92011G

Analytical Lab Comp QAP #/HRS Certification # 860008G

Comp QAP #/HRS Certification # E83018 & 83139

Lab Name Flowers Chemical Laboratory

Address 481 Newburyport Avenue Altamonte Springs, FL 32701

Phone Number (407) 339-5984

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4060C00092
Monitoring Well 4060A12054
Well Name MONITOR WELL 1
Classification of Groundwater G-II

Well Developed* Prior to
Sample Collection (Yes/No) YES

Sample Date 04-20-99
Well Type ( ) Background
( ) Site Boundary
(x) Intermediate
( ) Compliance
Groundwater Elevation
(above MSL) 42.92 ft.

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	SAMPLE FILTERED/ UNFILTERED	PRESERVATIVES ADDED
000010	TEMPERATURE	GRAB	EPA 170.1	13.2	°C	UNFILTERED	NONE
000095	SPECIFIC CONDUCTANCE	GRAB	EPA 120.1	145	umhos	UNFILTERED	NONE
	ANTIMONY	GRAB	EPA 204.2	0.00409	mg/ℓ	UNFILTERED	HNO_3
	ARSENIC	GRAB	EPA 206.3	0.00024	mg/ℓ	UNFILTERED	HNO_3
	BARIUM	GRAB	EPA 200.7	0.0344	mg/ℓ	UNFILTERED	HNO_3
	BERYLLIUM	GRAB	EPA 210.1	<0.0001	mg/ℓ	UNFILTERED	HNO_3
001027	CADMIUM	GRAB	EPA 200.7	0.00032	mg/ℓ	UNFILTERED	HNO_3
001034	CHROMIUM	GRAB	EPA 200.7	0.00750	mg/ℓ	UNFILTERED	HNO_3
	CYANIDE	GRAB	EPA 335.2	<0.005	mg/ℓ	UNFILTERED	NaOH
	FLUORIDE	GRAB	EPA 340.2	0.244	mg/ℓ	UNFILTERED	NONE
	LEAD	GRAB	EPA 239.1	0.00521	mg/ℓ	UNFILTERED	HNO_3
	MERCURY	GRAB	EPA 245.1	0.00075	mg/ℓ	UNFILTERED	HNO_3
	NICKEL	GRAB	EPA 200.7	0.00182	mg/ℓ	UNFILTERED	HNO_3
000620	NITRATE	GRAB	EPA 353.1	4.01	mg/ℓ	UNFILTERED	H_2SO_4
	NITRITE	GRAB	EPA 354.1	0.0190	mg/ℓ	UNFILTERED	H_2SO_4
	TOTAL NITRATE AND NITRITE	GRAB	EPA 343.1	4.029	mg/ℓ	UNFILTERED	H_2SO_4
	SELENIUM	GRAB	EPA 270.3	0.00108	mg/ℓ	UNFILTERED	HNO_3
000929	SODIUM	GRAB	EPA 200.7	2.90	mg/ℓ	UNFILTERED	NONE
	THALLIUM	GRAB	EPA 279.2	<0.0001	mg/ℓ	UNFILTERED	HNO_3
	ALUMINUM	GRAB	EPA 200.7	2.98	mg/ℓ	UNFILTERED	HNO_3
	CHLORIDE	GRAB	EPA 325.3	3.87	mg/ℓ	UNFILTERED	NONE
000080	COLOR	GRAB	EPA 110.1	35.0	PTU	UNFILTERED	NONE
	COPPER	GRAB	EPA 220.1	0.00939	mg/ℓ	UNFILTERED	HNO_3
	FLUORIDE	GRAB	EPA 340.1	0.244	mg/ℓ	UNFILTERED	NONE
	FOAMING AGENTS	GRAB	EPA 425.1	<0.100	mg/ℓ	UNFILTERED	NONE
900219	IRON	GRAB	EPA 236.1	0.532	mg/ℓ	UNFILTERED	HNO_3

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.
DER Form 17-1.216(2)
Effective January 1, 1983

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4060C00092
Monitoring Well 4060A12054
Well Name MONITOR WELL 1
Classification of Groundwater G-II

Well Developed* Prior to
Sample Collection (Yes/No) YES

Sample Date 04-20-99
Well Type ( ) Background
( ) Site Boundary
(x) Intermediate
( ) Compliance
Groundwater Elevation
(above MSL) 42.92 ft.

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	SAMPLE FILTERED/ UNFILTERED	PRESERV ATIVES ADDED
	MANGANESE	GRAB	EPA 200.7	0.0271	mg/ℓ	UNFILTERED	NONE
	ODOR	GRAB	EPA 140.1	<1.0	TON	UNFILTERED	NONE
000400	Ph	GRAB	EPA 150.1	7.56	ST.UN.	UNFILTERED	HNO_3
	SILVER	GRAB	EPA 200.7	0.00018	mg/ℓ	UNFILTERED	NONE
000945	SULFATE	GRAB	EPA 300.0	1.04	mg/ℓ	UNFILTERED	HNO_3
070300	TOTAL DISSOLVED SOLIDS	GRAB	EPA 160.1	108	mg/ℓ	UNFILTERED	NONE
082079	TURBIDITY	GRAB	EPA 180.1	33.0	NTU	UNFILTERED	NONE
900221	ZINC	GRAB	EPA 289.1	0.00717	mg/ℓ	UNFILTERED	HNO_3
	AMMONIUM	GRAB	EPA 350.1	0.0293	mg/ℓ	UNFILTERED	H_2SO_4
	GROSS ALPHA Excl. Ra & U	GRAB	EPA 900	22.0	pCi/ℓ	UNFILTERED	HNO_3
	RADIUM 226	GRAB	EPA 903.1	1.80	pCi/ℓ	UNFILTERED	HNO_3
	RADIUM 228	GRAB	EPA 904	<0.300	pCi/ℓ	UNFILTERED	HNO

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PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 406000092
Monitoring Well 4060A12055
Well Name MONITOR WELL 2
Classification of Groundwater G-II

Well Developed* Prior to
Sample Collection (Yes/No) YES

Sample Date 04-20-99
Well Type (x) Background
( ) Site Boundary
( ) Intermediate
( ) Compliance
Groundwater Elevation
(above MSL) 42.89 ft.

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	SAMPLE FILTERED/ UNFILTERED	PRESERVATIVES ADDED
000010	TEMPERATURE	GRAB	EPA 170.1	12.5	°C	UNFILTERED	NONE
000095	SPECIFIC CONDUCTANCE	GRAB	EPA 120.1	308	umhos	UNFILTERED	NONE
	ANTIMONY	GRAB	EPA 204.2	0.00423	mg/ℓ	UNFILTERED	HNO_3
	ARSENIC	GRAB	EPA 206.3	0.00349	mg/ℓ	UNFILTERED	HNO_3
	BARIUM	GRAB	EPA 200.7	0.600	mg/ℓ	UNFILTERED	HNO_3
	BERYLLIUM	GRAB	EPA 210.1	0.00989	mg/ℓ	UNFILTERED	HNO_3
001027	CADMIUM	GRAB	EPA 200.7	0.00889	mg/ℓ	UNFILTERED	HNO_3
001034	CHROMIUM	GRAB	EPA 200.7	0.133	mg/ℓ	UNFILTERED	HNO_3
	CYANIDE	GRAB	EPA 335.2	<0.005	mg/ℓ	UNFILTERED	NaOH
	FLUORIDE	GRAB	EPA 340.2	0.375	mg/ℓ	UNFILTERED	NONE
	LEAD	GRAB	EPA 239.1	0.0828	mg/ℓ	UNFILTERED	HNO_3
	MERCURY	GRAB	EPA 245.1	0.00125	mg/ℓ	UNFILTERED	HNO_3
	NICKEL	GRAB	EPA 200.7	0.0361	mg/ℓ	UNFILTERED	HNO_3
000620	NITRATE	GRAB	EPA 353.1	2.06	mg/ℓ	UNFILTERED	H_2SO_4
	NITRITE	GRAB	EPA 354.1	<0.0100	mg/ℓ	UNFILTERED	H_2SO_4
	TOTAL NITRATE AND NITRITE	GRAB	EPA 343.1	2.07	mg/ℓ	UNFILTERED	H_2SO_4
	SELENIUM	GRAB	EPA 270.3	0.00221	mg/ℓ	UNFILTERED	HNO_3
000929	SODIUM	GRAB	EPA 200.7	14.5	mg/ℓ	UNFILTERED	NONE
	THALLIUM	GRAB	EPA 279.2	0.00119	mg/ℓ	UNFILTERED	HNO_3
	ALUMINUM	GRAB	EPA 200.7	68.1	mg/ℓ	UNFILTERED	HNO_3
	CHLORIDE	GRAB	EPA 325.3	13.5	mg/ℓ	UNFILTERED	NONE
000080	COLOR	GRAB	EPA 110.1	350.0	PTU	UNFILTERED	NONE
	COPPER	GRAB	EPA 220.1	0.0479	mg/ℓ	UNFILTERED	HNO_3
	FLUORIDE	GRAB	EPA 340.1	0.375	mg/ℓ	UNFILTERED	NONE
	FOAMING AGENTS	GRAB	EPA 425.1	<0.100	mg/ℓ	UNFILTERED	NONE
	MANGANESE	GRAB	EPA 200.7	3.92	mg/ℓ	UNFILTERED	NONE
900219	IRON	GRAB	EPA 236.1	14.9	mg/ℓ	UNFILTERED	HNO_3

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PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 406000092
Monitoring Well 4060A12055
Well Name MONITOR WELL 2
Classification of Groundwater G-II

Well Developed* Prior to
Sample Collection (Yes/No) YES

Sample Date 04-20-99
Well Type (x) Background
( ) Site Boundary
( ) Intermediate
( ) Compliance
Groundwater Elevation
(above MSL) 42.89 ft.

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	SAMPLE FILTERED/ UNFILTERED	PRESERVATIVES ADDED
	ODOR	GRAB	EPA 140.1	<1.0	TON	UNFILTERED	NONE
000400	Ph	GRAB	EPA 150.1	6.94	ST. UN.	UNFILTERED	HNO_3
	SILVER	GRAB	EPA 200.7	0.00144	mg/ℓ	UNFILTERED	NONE
000945	SULFATE	GRAB	EPA 300.0	9.92	mg/ℓ	UNFILTERED	HNO_3
070300	TOTAL DISSOLVED SOLIDS	GRAB	EPA 160.1	225	mg/ℓ	UNFILTERED	NONE
082079	TURBIDITY	GRAB	EPA 180.1	630	NTU	UNFILTERED	NONE
900221	ZINC	GRAB	EPA 289.1	0.0917	mg/ℓ	UNFILTERED	HNO_3
	AMMONIUM	GRAB	EPA 350.1	<.0100	mg/ℓ	UNFILTERED	H_2SO_4
	GROSS ALPHA Excl. Ra & U	GRAB	EPA 900	164.	pCi/ℓ	UNFILTERED	HNO_3
	RADIUM 226	GRAB	EPA 903.1	7.60	pCi/ℓ	UNFILTERED	HNO_3
	RADIUM 228	GRAB	EPA 904	<0.300	pCi/ℓ	UNFILTERED	HNO_3

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PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4060C00092
Monitoring Well 4060A12057
Well Name MONITOR WELL 4
Classification of Groundwater G-II

Well Developed* Prior to
Sample Collection (Yes/No) YES

Sample Date 04-20-99
Well Type ( ) Background
(x) Site Boundary
( ) Intermediate
( ) Compliance
Groundwater Elevation
(above MSL) 42.86 ft.

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	SAMPLE FILTERED/ UNFILTERED	PRESERVATIVES ADDED
000010	TEMPERATURE	GRAB	EPA 170.1	13.8	°C	UNFILTERED	NONE
000095	SPECIFIC CONDUCTANCE	GRAB	EPA 120.1	1208	umhos	UNFILTERED	NONE
	ANTIMONY	GRAB	EPA 204.2	0.00170	mg/ℓ	UNFILTERED	HNO_3
	ARSENIC	GRAB	EPA 206.3	0.00191	mg/ℓ	UNFILTERED	HNO_3
	BARIUM	GRAB	EPA 200.7	0.452	mg/ℓ	UNFILTERED	HNO_3
	BERYLLIUM	GRAB	EPA 210.1	.00428	mg/ℓ	UNFILTERED	HNO_3
001027	CADMIUM	GRAB	EPA 200.7	0.00739	µg/ℓ	UNFILTERED	HNO_3
001034	CHROMIUM	GRAB	EPA 200.7	0.0794	µg/ℓ	UNFILTERED	HNO_3
	CYANIDE	GRAB	EPA 335.2	<0.005	mg/ℓ	UNFILTERED	NaOH
	FLUORIDE	GRAB	EPA 340.2	0.306	mg/ℓ	UNFILTERED	NONE
	LEAD	GRAB	EPA 239.1	0.0694	mg/ℓ	UNFILTERED	HNO_3
	MERCURY	GRAB	EPA 245.1	0.00113	mg/ℓ	UNFILTERED	HNO_3
	NICKEL	GRAB	EPA 200.7	0.0152	mg/ℓ	UNFILTERED	HNO_3
000620	NITRATE	GRAB	EPA 353.1	21.0	mg/ℓ	UNFILTERED	H_2SO_4
	NITRITE	GRAB	EPA 354.1	0.526	mg/ℓ	UNFILTERED	H_2SO_4
	TOTAL NITRATE AND NITRITE	GRAB	EPA 343.1	21.526	mg/ℓ	UNFILTERED	H_2SO_4
	SELENIUM	GRAB	EPA 270.3	0.00373	mg/ℓ	UNFILTERED	HNO_3
000929	SODIUM	GRAB	EPA 200.7	63.7	mg/ℓ	UNFILTERED	NONE
	THALLIUM	GRAB	EPA 279.2	0.00271	mg/ℓ	UNFILTERED	HNO_3
	ALUMINUM	GRAB	EPA 200.7	27.9	mg/ℓ	UNFILTERED	HNO_3
	CHLORIDE	GRAB	EPA 325.3	134.0	mg/ℓ	UNFILTERED	NONE
000080	COLOR	GRAB	EPA 110.1	175.0	PTU	UNFILTERED	NONE
	COPPER	GRAB	EPA 220.1	0.0238	mg/ℓ	UNFILTERED	HNO_3
	FLUORIDE	GRAB	EPA 340.1	0.306	mg/ℓ	UNFILTERED	NONE
	FOAMING AGENTS	GRAB	EPA 425.1	<0.1	mg/ℓ	UNFILTERED	NONE
900219	IRON	GRAB	EPA 236.1	3.13	mg/ℓ	UNFILTERED	HNO_3
	MANGANESE	GRAB	EPA 200.7	0.0553	mg/ℓ	UNFILTERED	NONE
	ODOR	GRAB	EPA 140.1	<1.0	TON	UNFILTERED	NONE

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PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4060C00092
Monitoring Well 4060A12057
Well Name MONITOR WELL 4
Classification of Groundwater G-II

Well Developed* Prior to
Sample Collection (Yes/No) YES

Sample Date 04-20-99
Well Type ( ) Background
(x) Site Boundary
( ) Intermediate
( ) Compliance
Groundwater Elevation
(above MSL) 42.86 ft.

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	SAMPLE FILTERED/ UNFILTERED	PRESERVATIVES ADDED
000400	Ph	GRAB	EPA 150.1	6.86	ST.UN.	UNFILTERED	HNO_3
	SILVER	GRAB	EPA 200.7	0.00042	mg/ℓ	UNFILTERED	NONE
000945	SULFATE	GRAB	EPA 300.0	13.5	mg/ℓ	UNFILTERED	HNO_3
070300	TOTAL DISSOLVED SOLIDS	GRAB	EPA 160.1	745	mg/ℓ	UNFILTERED	NONE
082079	TURBIDITY	GRAB	EPA 180.1	940.0	NTU	UNFILTERED	NONE
900221	ZINC	GRAB	EPA 289.1	0.0567	mg/ℓ	UNFILTERED	HNO_3
	AMMONIUM	GRAB	EPA 350.1	0.171	mg/ℓ	UNFILTERED	H_2SO_4
	GROSS ALPHA Excl. Ra & U	GRAB	EPA 900	334.0	pCi/ℓ	UNFILTERED	HNO_3
	RADIUM 226	GRAB	EPA 903.1	13.7	pCi/ℓ	UNFILTERED	HNO_3
	RADIUM 228	GRAB	EPA 904	70.0	pCi/ℓ	UNFILTERED	HNO_3

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PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4060C00092
Monitoring Well 4060A12057
Well Name MONITOR WELL 6A
Classification of Groundwater G-II

Well Developed* Prior to
Sample Collection (Yes/No) YES

Sample Date 04-20-99
Well Type ( ) Background
( ) Site Boundary
( ) Intermediate
(x) Compliance
Groundwater Elevation
(above MSL) 42.87 ft.

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	SAMPLE FILTERED/ UNFILTERED	PRESERVATIVES ADDED
000010	TEMPERATURE	GRAB	EPA 170.1	11.4	°C	UNFILTERED	NONE
000095	SPECIFIC CONDUCTANCE	GRAB	EPA 120.1	271	umhos	UNFILTERED	NONE
	ANTIMONY	GRAB	EPA 204.2	0.00124	mg/ℓ	UNFILTERED	HNO_3
	ARSENIC	GRAB	EPA 206.3	0.00064	mg/ℓ	UNFILTERED	HNO_3
	BARIUM	GRAB	EPA 200.7	0.0661	mg/ℓ	UNFILTERED	HNO_3
	BERYLLIUM	GRAB	EPA 210.1	0.00026	mg/ℓ	UNFILTERED	HNO_3
001027	CADMIUM	GRAB	EPA 200.7	0.00203	mg/ℓ	UNFILTERED	HNO_3
001034	CHROMIUM	GRAB	EPA 200.7	0.0314	mg/ℓ	UNFILTERED	HNO_3
	CYANIDE	GRAB	EPA 335.2	<0.005	mg/ℓ	UNFILTERED	NaOH
	FLUORIDE	GRAB	EPA 340.2	0.201	mg/ℓ	UNFILTERED	NONE
	LEAD	GRAB	EPA 239.1	0.00744	mg/ℓ	UNFILTERED	HNO_3
	MERCURY	GRAB	EPA 245.1	0.00062	mg/ℓ	UNFILTERED	HNO_3
	NICKEL	GRAB	EPA 200.7	0.00894	mg/ℓ	UNFILTERED	HNO_3
000620	NITRATE	GRAB	EPA 353.1	5.97	mg/ℓ	UNFILTERED	H_2SO_4
	NITRITE	GRAB	EPA 354.1	<0.0100	mg/ℓ	UNFILTERED	H_2SO_4
	TOTAL NITRATE AND NITRITE	GRAB	EPA 343.1	5.98	mg/ℓ	UNFILTERED	H_2SO_4
	SELENIUM	GRAB	EPA 270.3	0.00118	mg/ℓ	UNFILTERED	HNO_3
000929	SODIUM	GRAB	EPA 200.7	3.43	mg/ℓ	UNFILTERED	NONE
	THALLIUM	GRAB	EPA 279.2	0.00016	mg/ℓ	UNFILTERED	HNO_3
	ALUMINUM	GRAB	EPA 200.7	3.41	mg/ℓ	UNFILTERED	HNO_3
	CHLORIDE	GRAB	EPA 325.3	10.1	mg/ℓ	UNFILTERED	NONE
000080	COLOR	GRAB	EPA 110.1	75.0	PTU	UNFILTERED	NONE
	COPPER	GRAB	EPA 220.1	0.0183	mg/ℓ	UNFILTERED	HNO_3
	FLUORIDE	GRAB	EPA 340.1	0.201	mg/ℓ	UNFILTERED	NONE
	FOAMING AGENTS	GRAB	EPA 425.1	<0.1	mg/ℓ	UNFILTERED	NONE
900219	IRON	GRAB	EPA 236.1	1.12	mg/ℓ	UNFILTERED	HNO_3
	MANGANESE	GRAB	EPA 200.7	0.0528	mg/ℓ	UNFILTERED	NONE
	ODOR	GRAB	EPA 140.1	<1.0	TON	UNFILTERED	NONE

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PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4060C00092
Monitoring Well 4060A12057
Well Name MONITOR WELL 6A
Classification of Groundwater G-II

Well Developed* Prior to
Sample Collection (Yes/No) YES

Sample Date 04-20-99
Well Type ( ) Background
( ) Site Boundary
( ) Intermediate
(x) Compliance
Groundwater Elevation
(above MSL) 42.87 ft.

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	SAMPLE FILTERED/ UNFILTERED	PRESERV ATIVES ADDED
000400	Ph	GRAB	EPA 150.1	7.57	ST.UN.	UNFILTERED	HNO_3
	SILVER	GRAB	EPA 200.7	0.00030	mg/ℓ	UNFILTERED	NONE
000945	SULFATE	GRAB	EPA 300.0	5.12	mg/ℓ	UNFILTERED	HNO_3
070300	TOTAL DISSOLVED SOLIDS	GRAB	EPA 160.1	275	mg/ℓ	UNFILTERED	NONE
082079	TURBIDITY	GRAB	EPA 180.1	320.0	NTU	UNFILTERED	NONE
900221	ZINC	GRAB	EPA 289.1	0.0144	mg/ℓ	UNFILTERED	HNO_3
	AMMONIUM	GRAB	EPA 350.1	0.0124	mg/ℓ	UNFILTERED	H_2SO_4
	GROSS ALPHA Excl. Ra & U	GRAB	EPA 900	19.1	pCi/ℓ	UNFILTERED	HNO_3
	RADIUM 226	GRAB	EPA 903.1	2.00	pCi/ℓ	UNFILTERED	HNO_3
	RADIUM 228	GRAB	EPA 904	1.50	pCi/ℓ	UNFILTERED	HNO_3

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DER Form 17-1.216(2)
Effective January 1, 1983

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4060C00092
Monitoring Well 4060A14304
Well Name MONITOR WELL 7
Classification of Groundwater G-II

Well Developed* Prior to
Sample Collection (Yes/No) YES

Sample Date 04-20-99
Well Type ( ) Background
( ) Site Boundary
( ) Intermediate
(x) Compliance
Groundwater Elevation
(above MSL) 43.31 ft.

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	SAMPLE FILTERED/ UNFILTERED	PRESERVATIVES ADDED
000010	TEMPERATURE	GRAB	EPA 170.1	11.4	°C	UNFILTERED	NONE
000095	SPECIFIC CONDUCTANCE	GRAB	EPA 120.1	372	umhos	UNFILTERED	NONE
	ANTIMONY	GRAB	EPA 204.2	0.00023	mg/ℓ	UNFILTERED	HNO_3
	ARSENIC	GRAB	EPA 206.3	0.000279	mg/ℓ	UNFILTERED	HNO_3
	BARIUM	GRAB	EPA 200.7	0.0105	mg/ℓ	UNFILTERED	HNO_3
	BERYLLIUM	GRAB	EPA 210.1	<0.000100	mg/ℓ	UNFILTERED	HNO_3
001027	CADMIUM	GRAB	EPA 200.7	0.00035	mg/ℓ	UNFILTERED	HNO_3
001034	CHROMIUM	GRAB	EPA 200.7	0.00678	mg/ℓ	UNFILTERED	HNO_3
	CYANIDE	GRAB	EPA 335.2	<0.005	mg/ℓ	UNFILTERED	NaOH
	FLUORIDE	GRAB	EPA 340.2	0.218	mg/ℓ	UNFILTERED	NONE
	LEAD	GRAB	EPA 239.1	0.00108	mg/ℓ	UNFILTERED	HNO_3
	MERCURY	GRAB	EPA 245.1	0.00206	mg/ℓ	UNFILTERED	HNO_3
	NICKEL	GRAB	EPA 200.7	0.00194	mg/ℓ	UNFILTERED	HNO_3
000620	NITRATE	GRAB	EPA 353.1	6.80	mg/ℓ	UNFILTERED	H_2SO_4
	NITRITE	GRAB	EPA 354.1	0.0439	mg/ℓ	UNFILTERED	H_2SO_4
	TOTAL NITRATE AND NITRITE	GRAB	EPA 343.1	6.0439	mg/ℓ	UNFILTERED	H_2SO_4
	SELENIUM	GRAB	EPA 270.3	0.00080	mg/ℓ	UNFILTERED	HNO_3
000929	SODIUM	GRAB	EPA 200.7	3.89	mg/ℓ	UNFILTERED	NONE
	THALLIUM	GRAB	EPA 279.2	0.00016	mg/ℓ	UNFILTERED	HNO_3
	ALUMINUM	GRAB	EPA 200.7	0.522	mg/ℓ	UNFILTERED	HNO_3
	CHLORIDE	GRAB	EPA 325.3	11.7	mg/ℓ	UNFILTERED	NONE
000080	COLOR	GRAB	EPA 110.1	10.00	PTU	UNFILTERED	NONE
	COPPER	GRAB	EPA 220.1	0.00394	mg/ℓ	UNFILTERED	HNO_3
	FLUORIDE	GRAB	EPA 340.1	0.218	mg/ℓ	UNFILTERED	NONE
	FOAMING AGENTS	GRAB	EPA 425.1	<0.1	mg/ℓ	UNFILTERED	NONE
900219	IRON	GRAB	EPA 236.1	0.355	mg/ℓ	UNFILTERED	HNO_3
	MANGANESE	GRAB	EPA 200.7	0.0134	mg/ℓ	UNFILTERED	NONE
	ODOR	GRAB	EPA 140.1	<1.00	TON	UNFILTERED	NONE

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4060C00092
Monitoring Well 4060A14304
Well Name MONITOR WELL 7
Classification of Groundwater G-II

Well Developed* Prior to
Sample Collection (Yes/No) YES

Sample Date 04-20-99
Well Type ( ) Background
( ) Site Boundary
( ) Intermediate
(x) Compliance
Groundwater Elevation
(above MSL) 43.31 ft.

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	SAMPLE FILTERED/ UNFILTERED	PRESERV ATIVES ADDED
000400	Ph	GRAB	EPA 150.1	7.33	ST.UN.	UNFILTERED	HNO_3
	SILVER	GRAB	EPA 200.7	0.00744	mg/ℓ	UNFILTERED	NONE
000945	SULFATE	GRAB	EPA 300.0	2.40	mg/ℓ	UNFILTERED	HNO_3
070300	TOTAL DISSOLVED SOLIDS	GRAB	EPA 160.1	256	mg/ℓ	UNFILTERED	NONE
082079	TURBIDITY	GRAB	EPA 180.1	23.0	NTU	UNFILTERED	NONE
900221	ZINC	GRAB	EPA 289.1	0.00340	mg/ℓ	UNFILTERED	HNO_3
	AMMONIUM	GRAB	EPA 350.1	0.0163	mg/ℓ	UNFILTERED	H_2SO_4
	GROSS ALPHA Excl. Ra & U	GRAB	EPA 900	2.20	pCi/ℓ	UNFILTERED	HNO_3
	RADIUM 226	GRAB	EPA 903.1	0.600	pCi/ℓ	UNFILTERED	HNO_3
	RADIUM 228	GRAB	EPA 904	1.00	pCi/ℓ	UNFILTERED	HNO_3

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.
DER Form 17-1.216(2)
Effective January 1, 1983

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4060C00092
Monitoring Well 4060A17008
Well Name MONITOR WELL 8
Classification of Groundwater G-II

Well Developed* Prior to
Sample Collection (Yes/No) YES

Sample Date 04-20-99
Well Type (x) Background
( ) Site Boundary
( ) Intermediate
( ) Compliance
Groundwater Elevation
(above MSL) 44.93 ft.

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	SAMPLE FILTERED/ UNFILTERED	PRESERVATIVES ADDED
000010	TEMPERATURE	GRAB	EPA 170.1	11.7	°C	UNFILTERED	NONE
000095	SPECIFIC CONDUCTANCE	GRAB	EPA 120.1	417	umhos	UNFILTERED	NONE
	ANTIMONY	GRAB	EPA 204.2	<.0002	mg/ℓ	UNFILTERED	HNO_3
	ARSENIC	GRAB	EPA 206.3	0.00038	mg/ℓ	UNFILTERED	HNO_3
	BARIUM	GRAB	EPA 200.7	0.00639	mg/ℓ	UNFILTERED	HNO_3
	BERYLLIUM	GRAB	EPA 210.1	<0.0001	mg/ℓ	UNFILTERED	HNO_3
001027	CADMIUM	GRAB	EPA 200.7	0.00009	mg/ℓ	UNFILTERED	HNO_3
001034	CHROMIUM	GRAB	EPA 200.7	0.00360	mg/ℓ	UNFILTERED	HNO_3
	CYANIDE	GRAB	EPA 335.2	<0.005	mg/ℓ	UNFILTERED	NaOH
	FLUORIDE	GRAB	EPA 340.2	0.259	mg/ℓ	UNFILTERED	NONE
	LEAD	GRAB	EPA 239.1	0.00066	mg/ℓ	UNFILTERED	HNO_3
	MERCURY	GRAB	EPA 245.1	0.00062	mg/ℓ	UNFILTERED	HNO_3
	NICKEL	GRAB	EPA 200.7	0.00961	mg/ℓ	UNFILTERED	HNO_3
000620	NITRATE	GRAB	EPA 353.1	2.12	mg/ℓ	UNFILTERED	H_2SO_4
	NITRITE	GRAB	EPA 354.1	<0.0100	mg/ℓ	UNFILTERED	H_2SO_4
	TOTAL NITRATE AND NITRITE	GRAB	EPA 343.1	2.13	mg/ℓ	UNFILTERED	H_2SO_4
	SELENIUM	GRAB	EPA 270.3	<0.0003	mg/ℓ	UNFILTERED	HNO_3
000929	SODIUM	GRAB	EPA 200.7	4.92	mg/ℓ	UNFILTERED	NONE
	THALLIUM	GRAB	EPA 279.2	<0.0001	mg/ℓ	UNFILTERED	HNO_3
	ALUMINUM	GRAB	EPA 200.7	0.119	mg/ℓ	UNFILTERED	HNO_3
	CHLORIDE	GRAB	EPA 325.3	12.8	mg/ℓ	UNFILTERED	NONE
000080	COLOR	GRAB	EPA 110.1	<5.00	PTU	UNFILTERED	NONE
	COPPER	GRAB	EPA 220.1	0.00711	mg/ℓ	UNFILTERED	HNO_3
	FLUORIDE	GRAB	EPA 340.1	0.259	mg/ℓ	UNFILTERED	NONE
	FOAMING AGENTS	GRAB	EPA 425.1	<0.1	mg/ℓ	UNFILTERED	NONE
900219	IRON	GRAB	EPA 236.1	0.147	mg/ℓ	UNFILTERED	HNO_3
	MANGANESE	GRAB	EPA 200.7	0.0158	mg/ℓ	UNFILTERED	NONE
	ODOR	GRAB	EPA 140.1	<1	TON	UNFILTERED	NONE

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.
DER Form 17-1.216(2)
Effective January 1, 1983

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4060C00092
Monitoring Well 4060A17008
Well Name MONITOR WELL 8
Classification of Groundwater G-II

Well Developed* Prior to
Sample Collection (Yes/No) YES

Sample Date 04-20-99
Well Type (x) Background
( ) Site Boundary
( ) Intermediate
( ) Compliance
Groundwater Elevation
(above MSL) 44.93 ft.

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	SAMPLE FILTERED/ UNFILTERED	PRESERV ATIVES ADDED
000400	Ph	GRAB	EPA 150.1	7.01	ST.UN.	UNFILTERED	HNO_3
	SILVER	GRAB	EPA 200.7	0.00010	mg/ℓ	UNFILTERED	NONE
000945	SULFATE	GRAB	EPA 300.0	2.20	mg/ℓ	UNFILTERED	HNO_3
070300	TOTAL DISSOLVED SOLIDS	GRAB	EPA 160.1	258	mg/ℓ	UNFILTERED	NONE
082079	TURBIDITY	GRAB	EPA 180.1	5.60	NTU	UNFILTERED	NONE
900221	ZINC	GRAB	EPA 289.1	0.0231	mg/ℓ	UNFILTERED	HNO_3
	AMMONIUM	GRAB	EPA 350.1	<0.010	mg/ℓ	UNFILTERED	H_2SO_4
	GROSS ALPHA Excl. Ra & U	GRAB	EPA 900	2.00	pCi/ℓ	UNFILTERED	HNO_3
	RADIUM 266	GRAB	EPA 903.1	0.700	pCi/ℓ	UNFILTERED	HNO_3
	RADIUM 228	GRAB	EPA 904	1.20	pCi/ℓ	UNFILTERED	HNO_3

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DER Form 17-1.216(2)
Effective January 1, 1983

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4060C00092
Monitoring Well 4060A17009
Well Name MONITOR WELL 9
Classification of Groundwater G-II

Well Developed* Prior to
Sample Collection (Yes/No) YES

Sample Date 04-20-99
Well Type (x) Background
( ) Site Boundary
( ) Intermediate
( ) Compliance
Groundwater Elevation
(above MSL) 43.28 ft.

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	SAMPLE FILTERED/ UNFILTERED	PRESERV ATIVES ADDED
000010	TEMPERATURE	GRAB	EPA 170.1	13.0	°C	UNFILTERED	NONE
000095	SPECIFIC CONDUCTANCE	GRAB	EPA 120.1	875	umhos	UNFILTERED	NONE
	ANTIMONY	GRAB	EPA 204.2	0.00251	mg/ℓ	UNFILTERED	HNO_3
	ARSENIC	GRAB	EPA 206.3	0.00099	mg/ℓ	UNFILTERED	HNO_3
	BARIUM	GRAB	EPA 200.7	0.0733	mg/ℓ	UNFILTERED	HNO_3
	BERYLLIUM	GRAB	EPA 210.1	0.00053	mg/ℓ	UNFILTERED	HNO_3
001027	CADMIUM	GRAB	EPA 200.7	0.00119	µg/ℓ	UNFILTERED	HNO_3
001034	CHROMIUM	GRAB	EPA 200.7	0.00589	µg/ℓ	UNFILTERED	HNO_3
	CYANIDE	GRAB	EPA 335.2	<0.005	mg/ℓ	UNFILTERED	NaOH
	FLUORIDE	GRAB	EPA 340.2	0.215	mg/ℓ	UNFILTERED	NONE
	LEAD	GRAB	EPA 239.1	0.00186	mg/ℓ	UNFILTERED	HNO_3
	MERCURY	GRAB	EPA 245.1	0.00062	mg/ℓ	UNFILTERED	HNO_3
	NICKEL	GRAB	EPA 200.7	0.00617	mg/ℓ	UNFILTERED	HNO_3
000620	NITRATE	GRAB	EPA 353.1	0.527	mg/ℓ	UNFILTERED	H_2SO_4
	NITRITE	GRAB	EPA 354.1	<0.0100	mg/ℓ	UNFILTERED	H_2SO_4
	TOTAL NITRATE AND NITRITE	GRAB	EPA 343.1	0.537	mg/ℓ	UNFILTERED	H_2SO_4
	SELENIUM	GRAB	EPA 270.3	0.00214	mg/ℓ	UNFILTERED	HNO_3
000929	SODIUM	GRAB	EPA 200.7	9.48	mg/ℓ	UNFILTERED	NONE
	THALLIUM	GRAB	EPA 279.2	0.00049	mg/ℓ	UNFILTERED	HNO_3
	ALUMINUM	GRAB	EPA 200.7	1.55	mg/ℓ	UNFILTERED	HNO_3
	CHLORIDE	GRAB	EPA 325.3	13.2	mg/ℓ	UNFILTERED	NONE
000080	COLOR	GRAB	EPA 110.1	45.00	PTU	UNFILTERED	NONE
	COPPER	GRAB	EPA 220.1	0.00633	mg/ℓ	UNFILTERED	HNO_3
	FLUORIDE	GRAB	EPA 340.1	0.215	mg/ℓ	UNFILTERED	NONE
	FOAMING AGENTS	GRAB	EPA 425.1	<0.100	mg/ℓ	UNFILTERED	NONE
900219	IRON	GRAB	EPA 236.1	0.921	mg/ℓ	UNFILTERED	HNO_3
	MANGANESE	GRAB	EPA 903.1	0.0264	mg/ℓ	UNFILTERES	NONE
	ODOR	GRAB	EPA 140.1	<1	TON	UNFILTERED	NONE

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.
DER Form 17-1.216(2)
Effective January 1, 1983

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4060C00092
Monitoring Well 4060A17009
Well Name MONITOR WELL 9
Classification of Groundwater G-II

Well Developed* Prior to
Sample Collection (Yes/No) YES

Sample Date 04-20-99
Well Type (x) Background
( ) Site Boundary
( ) Intermediate
( ) Compliance
Groundwater Elevation
(above MSL) 43.28 ft.

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	ANALYSIS METHOD	ANALYSIS RESULTS	UNITS	SAMPLE FILTERED/ UNFILTERED	PRESERVATIVES ADDED
000400	Ph	GRAB	EPA 150.1	6.42	ST.UN.	UNFILTERED	HNO_3
	SILVER	GRAB	EPA 200.7	0.00027	mg/ℓ	UNFILTERED	NONE
000945	SULFATE	GRAB	EPA 300.0	4.12	mg/ℓ	UNFILTERED	HNO_3
070300	TOTAL DISSOLVED SOLIDS	GRAB	EPA 160.1	508	mg/ℓ	UNFILTERED	NONE
082079	TURBIDITY	GRAB	EPA 180.1	87.0	NTU	UNFILTERED	NONE
900221	ZINC	GRAB	EPA 289.1	0.0141	mg/ℓ	UNFILTERED	HNO_3
	AMMONIUM	GRAB	EPA 350.1	0.0270	mg/ℓ	UNFILTERED	H_2SO_4
	GROSS ALPHA Excl. Ra & U	GRAB	EPA 900	15.2	pCi/ℓ	UNFILTERED	HNO_3
	RADIUM 226	GRAB	EPA 903.1	5.40	pCi/ℓ	UNFILTERED	HNO_3
	RADIUM 228	GRAB	EPA 904	3.10	pCi/ℓ	UNFILTERED	HNO_3

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.
DER Form 17-1.216(2)
Effective January 1, 1983

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Cent.Testing Lab
PO Box 883
FloralCity,FL 34436

Date Reported : May12 1999
Project Number : Sumter Landfill
PO Number : N/A
FDHRSDW Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	11935 SL1	11936 SL2	11937 SL4	11938 SL6A	11939 SL7
Arsenic	mg/L	.00005	100.	2.48	.00024	.00349	.00191	.00064	.00027
Barium	mg/L	.00040	112.	1.87	0.0344	0.600	0.452	0.0661	0.0105
Cadmium	mg/L	.00005	99.3	3.81	.00032	.00889	.00739	.00203	.00035
Chromium	mg/L	.00020	97.2	2.73	.00750	0.133	0.0794	0.0314	.00678
Cyanide	mg/L	.00500	101.	.780	<.0050	<.0050	<.0050	<.0050	<.0050
Fluoride	mg/L	0.0100	81.1	2.50	0.244	0.375	0.306	0.201	0.218
Lead	mg/L	.00010	98.4	1.75	.00521	0.0828	0.0694	.00744	.00108
Mercury	mg/L	.00020	101.	20.5	.00075	.00125	.00113	.00062	.00206
Nickel	mg/L	.00020	95.7	2.10	.00182	0.0361	0.0152	.00894	.00194
Nitrate(as N)	mg/L	0.0200	104.	.080	4.01	2.06	21.0	5.97	6.80
Nitrite(as N)	mg/L	0.0100	101.	1.00	0.0190	<.0100	0.526	<.0100	0.0439
Selenium	mg/L	.00030	100.	2.58	.00108	.00221	.00373	.00118	.00080
Sodium	mg/L	0.0100	85.0	.100	2.90	14.5	63.7	3.43	3.89
Antimony	mg/L	.00020	93.7	1.11	.00409	.00423	.00170	.00124	.00023
Beryllium	mg/L	.00010	117.	6.10	<.0001	.00989	.00428	.00026	<.0001
Thallium	mg/L	.00010	101.	3.18	<.0001	.00119	.00271	.00016	.00016
Asbestos	MF/L	1.00			-	-	-	-	-
Aluminum	mg/L	.00100	108.	12.3	2.98	68.1	27.9	3.41	0.522
Chloride	mg/L	0.100	74.1	3.97	3.87	13.5	134.	10.1	11.7
Copper	mg/L	.00020	94.9	.910	.00939	0.0479	0.0238	0.0183	.00394
Fluoride	mg/L	0.0100			-	-	-	-	-
Iron	mg/L	.00400	101.	.650	0.532	14.9	3.13	1.12	0.355
Manganese	mg/L	.00050	81.8	.380	0.0271	3.92	0.0553	0.0528	0.0134
Silver	mg/L	.00005	106.	7.63	.00018	.00144	.00042	.00030	.00744
Sulfate	mg/L	1.00	109.	13.5	1.04	9.92	13.5	5.12	2.40
Zinc	mg/L	.00070	93.7	1.84	.00717	0.0917	0.0567	0.0144	.00340

Data Release Authorization

Sample integrity certified prior to analysis.Deficiencies are in QA Report Sec.4
Methods of analysis in accordance with FCL QA and EPA approved methodology .
This Report may not be reproduced in part, results relate only to items tested.

Jefferson S. Flowers, Ph.d.
President/Technical Director

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FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Cent.Testing Lab
PO Box 883
FloralCity,FL 34436

Date Reported : May12 1999
Project Number : Sumter Landfill
PO Number : N/A
FDHRSDW Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	11940 SL8	11941 SL9
Arsenic	mg/L	.00005	100.	2.48	.00038	.00099
Barium	mg/L	.00040	112.	1.87	.00639	0.0733
Cadmium	mg/L	.00005	99.3	3.81	.00009	.00119
Chromium	mg/L	.00020	97.2	2.73	.00360	.00589
Cyanide	mg/L	.00500	101.	.780	<.0050	<.0050
Fluoride	mg/L	0.0100	81.1	2.50	0.259	0.215
Lead	mg/L	.00010	98.4	1.75	.00066	.00186
Mercury	mg/L	.00020	101.	20.5	.00062	.00062
Nickel	mg/L	.00020	95.7	2.10	.00961	.00617
Nitrate(as N)	mg/L	0.0200	104.	.080	2.12	0.527
Nitrite(as N)	mg/L	0.0100	101.	1.00	<.0100	<.0100
Selenium	mg/L	.00030	100.	2.58	<.0003	.00214
Sodium	mg/L	0.0100	85.0	.100	4.92	9.48
Antimony	mg/L	.00020	93.7	1.11	<.0002	.00251
Beryllium	mg/L	.00010	117.	6.10	<.0001	.00053
Thallium	mg/L	.00010	101.	3.18	<.0001	.00049
Asbestos	MF/L	1.00			-	-
Aluminum	mg/L	.00100	108.	12.3	0.119	1.55
Chloride	mg/L	0.100	74.1	3.97	12.8	13.2
Copper	mg/L	.00020	94.9	.910	.00711	.00633
Fluoride	mg/L	0.0100			-	-
Iron	mg/L	.00400	101.	.650	0.147	0.921
Manganese	mg/L	.00050	81.8	.380	0.0158	0.0264
Silver	mg/L	.00005	106.	7.63	.00010	.00027
Sulfate	mg/L	1.00	109.	13.5	2.20	4.12
Zinc	mg/L	.00070	93.7	1.84	0.0231	0.0141

Data Release Authorization

Sample integrity certified prior to analysis.Deficiencies are in QA Report Sec.4
Methods of analysis in accordance with FCL QA and EPA approved methodology .
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Jefferson S. Flowers, Ph.d.
President/Technical Director

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FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Cent.Testing Lab
PO Box 883
FloralCity,FL 34436

Date Reported : May12 1999
Project Number : Sumter Landfill
PO Number : N/A
FDHRSDW Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	11935 SL1	11936 SL2	11937 SL4	11938 SL6A	11939 SL7
Color (color units)	PCU	5.00			35.0	350.	175.	75.0	10.0
Odor (total odor num	TON	1.00			<1.00	<1.00	<1.00	<1.00	<1.00
pH	pH	0.0100			7.85	7.55	7.15	7.85	7.65
TDS	mg/L	2.50	106.	15.1	108.	225.	745.	275.	256.
Foaming_Agents	mg/L	0.100	105.	.120	<0.100	<0.100	<0.100	<0.100	<0.100
Turbidity	NTU	0.0500	102.	3.33	33.0	630.	940.	320.	23.0
Ammonia(as N)	mg/L	0.0100	123.	3.05	0.0293	<.0100	0.171	0.0124	0.0163
Gross alpha	pCi/L	0.100			22.0	164.	334.	19.1	2.20
Analysis Error	pCi/L	0.100			1.00	8.00	21.0	3.80	0.800
Radium 226	pCi/L	0.100			1.80	7.60	13.7	2.00	0.600
Analysis_Error(226)	pCi/L	0.100			0.200	1.30	1.70	0.200	0.100
Radium 228	pCi/L	0.300			<0.300	<0.300	70.0	1.50	1.00
Analysis_Error(228)	pCi/L	0.300			0.600	2.40	7.00	0.800	0.700
Gross_Beta	pCi/L	0.100			-	-	-	-	-
Analysis_Error(Gb)	pCi/L	0.100			-	-	-	-	-
Field Temp. (C)	oC	1.00			13.2	12.5	13.8	11.4	11.4
Field pH (units)	pH	0.0100			7.56	6.94	6.86	7.57	7.33

Data Release Authorization

Sample integrity certified prior to analysis.Deficiencies are in QA Report Sec.4
Methods of analysis in accordance with FCL QA and EPA approved methodology .
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Jefferson S. Flowers, Ph.d.
President/Technical Director

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Date Reported : May12 1999
Project Number : Sumter Landfill
PO Number : N/A
FDHRSDW Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	11940 SL8	11941 SL9
Color (color units)	PCU	5.00			<5.00	45.0
Odor (total odor num	TON	1.00			<1.00	<1.00
pH	pH	0.0100			7.30	6.75
TDS	mg/L	2.50	106.	15.1	258.	508.
Foaming_Agents	mg/L	0.100	105.	.120	<0.100	<0.100
Turbidity	NTU	0.0500	102.	3.33	5.60	87.0
Ammonia(as N)	mg/L	0.0100	123.	3.05	<.0100	0.0270
Gross alpha	pCi/L	0.100			2.00	15.2
Analysis Error	pCi/L	0.100			0.800	2.60
Radium 226	pCi/L	0.100			0.700	5.40
Analysis_Error(226)	pCi/L	0.100			0.100	0.400
Radium 228	pCi/L	0.300			1.20	3.10
Analysis_Error(228)	pCi/L	0.300			0.700	0.900
Gross_Beta	pCi/L	0.100			-	-
Analysis_Error(Gb)	pCi/L	0.100			-	-
Field Temp. (C)	oC	1.00			11.7	13.0
Field pH (units)	pH	0.0100			7.01	6.42

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FDHRS Number : 83139
FHRS ENVNumber : E83018
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

Parameter	Unit	Limit	Expected	Value	Range	Correlation
				11935		
Arsenic	mg/L	18.2	0.486	.00024		
Barium	mg/L	171.	4.02	0.0344		
Cadmium	mg/L	76.7	0.839	.00032		
Chromium	mg/L	359.	4.69	.00750		
Fluoride	mg/L	3050	62.6	0.244		
Lead	mg/L	5360	53.7	.00521		
Mercury	mg/L	0.497	0.0167	.00075		
Nickel	mg/L	57.5	1.13	.00182		
Nitrate(as N)	mg/L	30.7	3.03	4.01		
Nitrite(as N)	mg/L	3.21	0.136	0.0190		
Selenium	mg/L	0.659	0.0226	.00108		
Sodium	mg/L	44600	1090	2.90		
Antimony	mg/L	5.69	0.270	.00409		
Aluminum	mg/L	791.	73.9	2.98		174
Chloride	mg/L	4110	183.	3.87		
Copper	mg/L	2810	47.8	.00939		
Fluoride	mg/L	3050	62.6	0.000		
Iron	mg/L	2140	53.7	0.532		
Manganese	mg/L	67.9	0.750	0.0271		
Silver	mg/L	5.72	0.262	.00018		
Sulfate	mg/L	116000	2080	1.04		
Zinc	mg/L	12000	131.	.00717		
Color (color units)	PCU	14500	720.	35.0		
pH	pH	9.66	7.57	7.85		
TDS	mg/L	40200	2360	108.		
Turbidity	NTU	1850	53.7	33.0		

The above information is intended to highlight exceptional data as compared to the upper control limits (Limit) established for each of the parameters. Range exceedances are flagged by integer values in the Range column. The Expected values are derived from historical data. Expected is computed as either the mean or computed directly from another parameter using linear regression. All known correlation rule exceedances are listed as enumerated rule numbers in the Correlation column. Correlation pair rules are defined on the last page.

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FHRS ENVNumber : E83018
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

Parameter	Unit	Limit	Expected	Value	Range	Correlation
				11935		
Ammonia(as N)	mg/L	632.	23.2	0.0293		
Gross alpha	pCi/L	-	-	22.0		
Analysis Error	pCi/L	231.	13.3	1.00		
Radium 226	pCi/L	93.0	7.79	1.80		
Analysis_Error(226)	pCi/L	-	-	0.200		
Analysis_Error(228)	pCi/L	-	-	0.600		
Field Temp. (C)	oC	25.2	25.0	13.2		
Field pH (units)	pH	12.1	6.98	7.56		

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SCDHEC Number : 96019

For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

Parameter	Unit	Limit	Expected	Value	Range	Correlation
				11936		
Arsenic	mg/L	18.2	0.486	.00349		
Barium	mg/L	171.	4.02	0.600		
Cadmium	mg/L	76.7	0.839	.00889		
Chromium	mg/L	359.	4.69	0.133		
Fluoride	mg/L	3050	62.6	0.375		
Lead	mg/L	5360	53.7	0.0828		
Mercury	mg/L	0.497	0.0167	.00125		
Nickel	mg/L	57.5	1.13	0.0361		
Nitrate(as N)	mg/L	30.7	3.03	2.06		
Selenium	mg/L	0.659	0.0226	.00221		
Sodium	mg/L	44600	1090	14.5		
Antimony	mg/L	5.69	0.270	.00423		
Beryllium	mg/L	0.625	0.0249	.00989		
Thallium	mg/L	44.6	1.12	.00119		
Aluminum	mg/L	791.	73.9	68.1		174
Chloride	mg/L	4110	183.	13.5		
Copper	mg/L	2810	47.8	0.0479		
Fluoride	mg/L	3050	62.6	0.000		
Iron	mg/L	2140	53.7	14.9		
Manganese	mg/L	67.9	0.750	3.92		
Silver	mg/L	5.72	0.262	.00144		
Sulfate	mg/L	116000	2080	9.92		
Zinc	mg/L	12000	131.	0.0917		
Color (color units)	PCU	14500	720.	350.		
pH	pH	9.66	4.19	7.55		
TDS	mg/L	40200	2360	225.		

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SCDHEC Number : 96019

For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

Parameter	Unit	Limit	Expected Value	Range	Correlation
				11936	
Turbidity	NTU	1850	53.7	630.	
Gross alpha	pCi/L	-	-	164.	
Analysis Error	pCi/L	231.	13.3	8.00	
Radium 226	pCi/L	93.0	7.79	7.60	
Analysis_Error(226)	pCi/L	-	-	1.30	
Analysis_Error(228)	pCi/L	-	-	2.40	
Field Temp. (C)	oC	25.2	25.0	12.5	
Field pH (units)	pH	12.1	6.98	6.94	

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LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

Parameter	Unit	Limit	Expected	Value	Range	Correlation
				11937		
Arsenic	mg/L	18.2	0.486	.00191		
Barium	mg/L	171.	4.02	0.452		
Cadmium	mg/L	76.7	0.839	.00739		
Chromium	mg/L	359.	4.69	0.0794		
Fluoride	mg/L	3050	62.6	0.306		
Lead	mg/L	5360	53.7	0.0694		
Mercury	mg/L	0.497	0.0167	.00113		
Nickel	mg/L	57.5	1.13	0.0152		
Nitrate(as N)	mg/L	30.7	3.03	21.0		263
Nitrite(as N)	mg/L	3.21	0.136	0.526		
Selenium	mg/L	0.659	0.0226	.00373		
Sodium	mg/L	44600	1090	63.7		
Antimony	mg/L	5.69	0.270	.00170		
Beryllium	mg/L	0.625	0.0249	.00428		
Thallium	mg/L	44.6	1.12	.00271		
Aluminum	mg/L	791.	73.9	27.9		174
Chloride	mg/L	4110	183.	134.		
Copper	mg/L	2810	47.8	0.0238		
Fluoride	mg/L	3050	62.6	0.000		
Iron	mg/L	2140	53.7	3.13		
Manganese	mg/L	67.9	0.750	0.0553		
Silver	mg/L	5.72	0.262	.00042		
Sulfate	mg/L	116000	2080	13.5		
Zinc	mg/L	12000	62.9	0.0567		
Color (color units)	PCU	14500	720.	175.		
pH	pH	9.66	6.27	7.15		

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FHRS ENVNumber : E83018
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

Parameter	Unit	Limit	Expected	Value	Range	Correlation
				11937		
TDS	mg/L	40200	2360	745.		
Turbidity	NTU	1850	53.7	940.		
Ammonia(as N)	mg/L	632.	23.2	0.171		
Gross alpha	pCi/L	-	-	334.		
Analysis Error	pCi/L	231.	13.3	21.0		
Radium 226	pCi/L	93.0	7.79	13.7		
Analysis_Error(226)	pCi/L	-	-	1.70		
Radium 228	pCi/L	10.5	1.48	70.0		
Analysis_Error(228)	pCi/L	-	-	7.00		
Field Temp. (C)	oC	25.2	25.0	13.8		
Field pH (units)	pH	12.1	6.98	6.86		

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For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

Parameter	Unit	Limit	Expected	Value	Range	Correlation
				11938		
Arsenic	mg/L	18.2	0.486	.00064		
Barium	mg/L	171.	4.02	0.0661		
Cadmium	mg/L	76.7	0.839	.00203		
Chromium	mg/L	359.	4.69	0.0314		
Fluoride	mg/L	3050	62.6	0.201		
Lead	mg/L	5360	53.7	.00744		
Mercury	mg/L	0.497	0.0167	.00062		
Nickel	mg/L	57.5	1.13	.00894		
Nitrate(as N)	mg/L	30.7	3.03	5.97		
Selenium	mg/L	0.659	0.0226	.00118		
Sodium	mg/L	44600	1090	3.43		
Antimony	mg/L	5.69	0.270	.00124		
Beryllium	mg/L	0.625	0.0249	.00026		
Thallium	mg/L	44.6	1.12	.00016		
Aluminum	mg/L	791.	73.9	3.41		174
Chloride	mg/L	4110	183.	10.1		
Copper	mg/L	2810	47.8	0.0183		
Fluoride	mg/L	3050	62.6	0.000		
Iron	mg/L	2140	53.7	1.12		
Manganese	mg/L	67.9	0.750	0.0528		
Silver	mg/L	5.72	0.262	.00030		
Sulfate	mg/L	116000	2080	5.12		
Zinc	mg/L	12000	131.	0.0144		
Color (color units)	PCU	14500	720.	75.0		
pH	pH	9.66	7.54	7.85		
TDS	mg/L	40200	2360	275.		

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For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

Parameter	Unit	Limit	Expected	Value	Range	Correlation
				11938		
Turbidity	NTU	1850	53.7	320.		
Ammonia(as N)	mg/L	632.	23.2	0.0124		
Gross alpha	pCi/L	-	-	19.1		
Analysis Error	pCi/L	231.	13.3	3.80		
Radium 226	pCi/L	93.0	7.79	2.00		
Analysis_Error(226)	pCi/L	-	-	0.200		
Radium 228	pCi/L	10.5	1.48	1.50		
Analysis_Error(228)	pCi/L	-	-	0.800		
Field Temp. (C)	oC	25.2	25.0	11.4		
Field pH (units)	pH	12.1	6.98	7.57		

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Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

Parameter	Unit	Limit	Expected	Value	Range	Correlation
				11939		
Arsenic	mg/L	18.2	0.486	.00027		
Barium	mg/L	171.	4.02	0.0105		
Cadmium	mg/L	76.7	0.839	.00035		
Chromium	mg/L	359.	4.69	.00678		
Fluoride	mg/L	3050	62.6	0.218		
Lead	mg/L	5360	53.7	.00108		
Mercury	mg/L	0.497	0.0167	.00206		
Nickel	mg/L	57.5	1.13	.00194		
Nitrate(as N)	mg/L	30.7	3.03	6.80		
Nitrite(as N)	mg/L	3.21	0.136	0.0439		
Selenium	mg/L	0.659	0.0226	.00080		
Sodium	mg/L	44600	1090	3.89		
Antimony	mg/L	5.69	0.270	.00023		
Thallium	mg/L	44.6	1.12	.00016		
Aluminum	mg/L	791.	73.9	0.522		174
Chloride	mg/L	4110	183.	11.7		
Copper	mg/L	2810	47.8	.00394		
Fluoride	mg/L	3050	62.6	0.000		
Iron	mg/L	2140	53.7	0.355		
Manganese	mg/L	67.9	0.750	0.0134		
Silver	mg/L	5.72	0.262	.00744		
Sulfate	mg/L	116000	2080	2.40		
Zinc	mg/L	12000	131.	.00340		
Color (color units)	PCU	14500	720.	10.0		
pH	pH	9.66	7.69	7.65		
TDS	mg/L	40200	2360	256.		

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Project Number : Sumter Landfill
PO Number : N/A
FDHRS Number : 83139
FHRS ENVNumber : E83018
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

Parameter	Unit	Limit	Expected	Value	Range	Correlation
				11939		
Turbidity	NTU	1850	53.7	23.0		
Ammonia(as N)	mg/L	632.	23.2	0.0163		
Gross alpha	pCi/L	-	-	2.20		
Analysis Error	pCi/L	231.	13.3	0.800		
Radium 226	pCi/L	93.0	7.79	0.600		
Radium 228	pCi/L	10.5	1.48	1.00		
Analysis_Error(228)	pCi/L	-	-	0.700		
Field Temp. (C)	oC	25.2	25.0	11.4		
Field pH (units)	pH	12.1	6.98	7.33		

The above information is intended to highlight exceptional data as compared to the upper control limits (Limit) established for each of the parameters. Range exceedances are flagged by integer values in the Range column. The Expected values are derived from historical data. Expected is computed as either the mean or computed directly from another parameter using linear regression. All known correlation rule exceedances are listed as enumerated rule numbers in the Correlation column. Correlation pair rules are defined on the last page.

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Date Reported : May12 1999
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SCDHEC Number : 96019

For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

Parameter	Unit	Limit	Expected	Value	Range	Correlation
				11940		
Arsenic	mg/L	18.2	0.486	.00038		
Barium	mg/L	171.	4.02	.00639		
Cadmium	mg/L	76.7	0.839	.00009		
Chromium	mg/L	359.	4.69	.00360		
Fluoride	mg/L	3050	62.6	0.259		
Lead	mg/L	5360	53.7	.00066		
Mercury	mg/L	0.497	0.0167	.00062		
Nickel	mg/L	57.5	1.13	.00961		
Nitrate(as N)	mg/L	30.7	3.03	2.12		
Sodium	mg/L	44600	1090	4.92		
Aluminum	mg/L	791.	73.9	0.119		174
Chloride	mg/L	4110	183.	12.8		
Copper	mg/L	2810	47.8	.00711		
Fluoride	mg/L	3050	62.6	0.000		
Iron	mg/L	2140	53.7	0.147		
Manganese	mg/L	67.9	0.750	0.0158		
Silver	mg/L	5.72	0.262	.00010		
Sulfate	mg/L	116000	2080	2.20		
Zinc	mg/L	12000	131.	0.0231		
pH	pH	9.66	7.71	7.30		
TDS	mg/L	40200	2360	258.		
Turbidity	NTU	1850	53.7	5.60		
Gross alpha	pCi/L	-	-	2.00		
Analysis Error	pCi/L	231.	13.3	0.800		
Radium 226	pCi/L	93.0	7.79	0.700		
Radium 228	pCi/L	10.5	1.48	1.20		

The above information is intended to highlight exceptional data as compared to the upper control limits (Limit) established for each of the parameters. Range exceedances are flagged by integer values in the Range column. The Expected values are derived from historical data. Expected is computed as either the mean or computed directly from another parameter using linear regression. All known correlation rule exceedances are listed as enumerated rule numbers in the Correlation column. Correlation pair rules are defined on the last page.

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LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

Parameter	Unit	Limit	Expected	Value	Range	Correlation
				11940		
Analysis_Error(228)	pCi/L	-	-	0.700		
Field Temp. (C)	oC	25.2	25.0	11.7		
Field pH (units)	pH	12.1	6.98	7.01		

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For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

Parameter	Unit	Limit	Expected	Value	Range	Correlation
				11941		
Arsenic	mg/L	18.2	0.486	.00099		
Barium	mg/L	171.	4.02	0.0733		
Cadmium	mg/L	76.7	0.839	.00119		
Chromium	mg/L	359.	4.69	.00589		
Fluoride	mg/L	3050	62.6	0.215		
Lead	mg/L	5360	53.7	.00186		
Mercury	mg/L	0.497	0.0167	.00062		
Nickel	mg/L	57.5	1.13	.00617		
Nitrate(as N)	mg/L	30.7	3.03	0.527		
Selenium	mg/L	0.659	0.0226	.00214		
Sodium	mg/L	44600	1090	9.48		
Antimony	mg/L	5.69	0.270	.00251		
Beryllium	mg/L	0.625	0.0249	.00053		
Thallium	mg/L	44.6	1.12	.00049		
Aluminum	mg/L	791.	73.9	1.55		174
Chloride	mg/L	4110	183.	13.2		
Copper	mg/L	2810	47.8	.00633		
Fluoride	mg/L	3050	62.6	0.000		
Iron	mg/L	2140	53.7	0.921		
Manganese	mg/L	67.9	0.750	0.0264		
Silver	mg/L	5.72	0.262	.00027		
Sulfate	mg/L	116000	2080	4.12		
Zinc	mg/L	12000	131.	0.0141		
Color (color units)	PCU	14500	720.	45.0		
pH	pH	9.66	7.64	6.75		
TDS	mg/L	40200	2360	508.		

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LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: Secs93 Ino93 GA TB NH4 Ra226/228
Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

Parameter	Unit	Limit	Expected	Value	Range	Correlation
				11941		
Turbidity	NTU	1850	53.7	87.0		
Ammonia(as N)	mg/L	632.	23.2	0.0270		
Gross alpha	pCi/L	-	-	15.2		
Analysis Error	pCi/L	231.	13.3	2.60		
Radium 226	pCi/L	93.0	7.79	5.40		
Analysis_Error(226)	pCi/L	-	-	0.400		
Radium 228	pCi/L	10.5	1.48	3.10		
Analysis_Error(228)	pCi/L	-	-	0.900		
Field Temp. (C)	oC	25.2	25.0	13.0		
Field pH (units)	pH	12.1	6.98	6.42		

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Date Sampled:Apr20 1999 Date Received:Apr20 1999 Lab Numbers: 11935-11941

REPORT OF INFORMATION

On this Last Page 15 Correlation Pairs Referenced

174	pH	Aluminum
263	Zinc	Nitrate(as N)

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FLOWERS CHEMICAL LABORATORIES

ANALYTICAL RESULTS FORM HRS Number 83139

Parameter	Symbol	Unit	SL1 11935	SL2 11936	SL4 11937	SL6A 11938	SL7 11939	SL8 11940	SL9 11941				Method	QA MDL	Section %RSD	%Rec	Analys	Date
Arsenic	*	mg/L	0.000243	0.00349	0.00191	0.000644	0.000274	0.000378	0.000994				EPA6020	0.00005	2.4878274	100.158	LSM	04-23-99
Barium	*	mg/L	0.0344	0.600	0.452	0.0661	0.0105	0.00639	0.0733				EPA6020	0.0004	1.8729222	112.5	LSM	04-23-99
Cadmium	*	mg/L	0.000318	0.00889	0.00739	0.00203	0.000346	0.0000917	0.00119				EPA6020	0.00005	3.8199528	99.3768	LSM	04-23-99
Chromium	*	mg/L	0.00750	0.133	0.0794	0.0314	0.00678	0.00360	0.00589				EPA6020	0.0002	2.7322819	97.2	LSM	04-23-99
Cyanide	*	mg/L	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U	<0.005U				SM4500-C	0.005	0.7854118	101.65913	DRP	04-26-99
Fluoride	*	mg/L	0.244J	0.375J	0.306J	0.201J	0.218J	0.259J	0.215J				SM4500F	0.01	2.5000606	81.104044	YGS	05-06-99
Lead	*	mg/L	0.00521	0.0828	0.0694	0.00744	0.00108	0.000661	0.00186				EPA6020	0.0001	1.7555479	98.48	LSM	04-23-99
Mercury	*	mg/L	0.000748	0.00125	0.00113	0.000625	0.00206	0.000625	0.000625				EPA7470	0.0002	20.592580	101.55980	EVB	04-23-99
Nickel	*	mg/L	0.00182	0.0361	0.0152	0.00894	0.00194	0.00961	0.00617				EPA6020	0.0002	2.1070375	95.72	LSM	04-23-99
Nitrate(as N)	*	mg/L	4.01J	2.06J	21J	5.97J	6.8J	2.12J	0.527J				EPA300.0	0.02	0.0856546	104.75	TJW	04-22-99
Nitrite(as N)	*	mg/L	0.0190	<0.01U	0.526	<0.01U	0.0439	<0.01U	<0.01U				EPA353.2	0.01	1.0046801	101.35	TJW	04-22-99
Selenium	*	mg/L	0.00108	0.00221	0.00373	0.00118	0.000800	<0.0003U	0.00214				EPA6020	0.0003	2.5850703	100.796	LSM	04-23-99
Sodium	*	mg/L	2.90	14.5	63.7	3.43	3.89	4.92	9.48				EPA6010	0.01	0.1069432	85	EVB	04-21-99
Antimony	*	mg/L	0.00409	0.00423	0.00170	0.00124	0.000229	<0.0002U	0.00251				EPA6020	0.0002	1.1108231	93.74	LSM	04-23-99
Beryllium	*	mg/L	<0.0001U	0.00989	0.00428	0.000257	<0.0001U	<0.0001U	0.000526				EPA6020	0.0001	6.1031431	117.328	LSM	04-23-99
Thallium	*	mg/L	<0.0001U	0.00119	0.00271	0.000156	0.000162	<0.0001U	0.000490				EPA6020	0.0001	3.1858407	101.7234	LSM	04-23-99
Asbestos	*	MF/L											TEM	1				
Aluminum	*	mg/L	2.98	68.1	27.9	3.41	0.522	0.119	1.55				EPA6020	0.001	12.394338	108.85	LSM	05-03-99
Chloride	*	mg/L	3.87	13.5	134	10.1	11.7	12.8	13.2				EPA300	0.1	3.9720892	74.1	YGS	05-06-99
Copper	*	mg/L	0.00939	0.0479	0.0238	0.0183	0.00394	0.00711	0.00633				EPA6020	0.0002	0.9132670	94.92	LSM	04-23-99
Fluoride	*	mg/L											SM4500F	0.01				
Iron	*	mg/L	0.532	14.9	3.13	1.12	0.355	0.147	0.921				EPA6010	0.004	0.6531038	101.302	EVB	04-20-99
Manganese	*	mg/L	0.0271	3.92	0.0553	0.0528	0.0134	0.0158	0.0264				EPA6010	0.0005	0.3897529	81.82	EVB	04-20-99
Silver	*	mg/L	0.000184	0.00144	0.000419	0.000304	0.00744	0.0000967	0.000271				EPA6020	0.00005	7.6349123	106.2416	LSM	04-23-99
Sulfate	*	mg/L	1.04	9.92	13.5	5.12	2.40	2.20	4.12				EPA375.4	1	13.560512	109.55767	TRB	04-22-99
Zinc	*	mg/L	0.00717	0.0917	0.0567	0.0144	0.00340	0.0231	0.0141				EPA6020	0.0007	1.8454053	93.76	LSM	04-23-99
Color (color units)	*	PCU	35.0	350	175	75.0	10.0	<5	45.0				SM2120B	5			DRP	04-20-99
Odor (total odor number)	*	TON	<1U	<1U	<1U	<1U	<1U	<1U	<1U				SM2150B	1			TRB	04-20-99
pH (units)	*	pH	7.85	7.55	7.15	7.85	7.65	7.30	6.75				EPA150.1	0.01	0	100.71428	DRP	04-20-99
Total Dissovled Solids	*	mg/L	108J	225J	745J	275J	256J	258J	508J				SM2540C	2.5	15.143627	106.00000	DPL	04-22-99
Foaming Agents	*	mg/L	<0.1U	<0.1U	<0.1U	<0.1U	<0.1U	<0.1U	<0.1U				SM5540C	0.1	0.1241080	105.21800	TRB	04-22-99
Turbidity	*	NTU	33J	630J	940J	320J	23J	5.6J	87J				EPA180.1	0.05	3.3394556	102.5	TRB	04-20-99
Ammonium(as N)	*	mg/L	0.0293	<0.01U	0.171	0.0124	0.0163	<0.01U	0.0270				EPA350.1	0.01	3.0517324	123.15	TJW	04-23-99
Gross alpha	*	pCi/L	22J	164J	334J	19.1J	2.2J	2J	15.2J				EPA900	0.1			PL	05-07-99
Analysis_Error(Ga)	*	pCi/L	1J	8J	21J	3.8J	0.8J	0.8J	2.6J				EPA900	0.1			PL	05-07-99
Radium-226	*	pCi/L	1.8J	7.6J	13.7J	2J	0.6J	0.7J	5.4J				EPA903.1	0.1			PL	05-07-99
Analysis_Error(226)	*	pCi/L	0.2J	1.3J	1.7J	0.2J	0.1J	0.1J	0.4J				EPA903.1	0.1			PL	05-07-99
Radium-228	*	pCi/L	<0.3U	<0.3U	70	1.5	1	1.2	3.1				EPA904	0.3			PL	05-07-99
Analysis_Error(228)	*	pCi/L	0.6J	2.4J	7J	0.8J	0.7J	0.7J	0.9J				EPA904	0.3			PL	05-07-99
Gross beta	*	pCi/L	-	-	-	-	-	-	-				EPA900	0.1			PL	05-07-99
Analysis_Error(Gb)	*	pCi/L	-	-	-	-	-	-	-				EPA900	0.1			PL	05-07-99
Field Temp. (C)	*	oC	13.2	12.5	13.8	11.4	11.4	11.7	13.0				-	1				
Field pH (units)	*	pH	7.56	6.94	6.86	7.57	7.33	7.01	6.42				EPA150.1	0.01				

Date Received: 04-20-99 Typed: 05-12-99 Sent: 05-12-99

Project Number	Sumter Landfill
PO Number	N/A
Date Sampled	1 04-20-99 *
Date Analyzed	0
Compacted	1
Format	NormRR

Unit Cost	Exted	
Secs93	8500	7 *
Ino93	9500	7 *
GA	4000	7 *
TB	700	7 *
NH4	1200	7 *
Ra226/228	27000	7 *
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Quality Assurance Report

Prepared for: Cent.Testing Lab
Project Number: Sumter Landfill
Lab Numbers: 11935 - 11941

Report date: 12-May-99

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FLOWERS CHEMICAL LABORATORIES, INC.

QA Conformance Summary

Client:	Cent.Testing Lab
Project Number:	Sumter Landfill
P.O. Number:	N/A
Date Sampled:	20-Apr-99
Lab Numbers:	11935 - 11941

Sample Handling

Sample handling and holding time criteria were met for all samples.

Samples Collected by Submitter

Surrogate Compound Recoveries:

The requested analytes did not require surrogates.

Accuracy / Precision:

The recovery limits were exceeded for 6 compounds in the matrix spike as shown in section 2. This represents a 79.3% success rate.

The recovery limits were exceeded for 6 compounds in the matrix spike duplicate as shown in section 2. This represents a 79.3% success rate.

The RSD was exceeded for 1 compound as shown in section 2. This represents a 96.6% success rate.

Method Blanks:

No target compounds were found in the method blank in excess of the method limit as shown in section 3.

QCCS Check Sample:

The control limits were met for all compounds as shown in section 4.

Standards Traceability:

The t-test limits were exceeded for 1 calibration standard as shown in section 5. This represents a 96.0% success rate.

The t-test limits were exceeded for 2 QCCS standards as shown in section 5. This represents a 92.0% success rate.

The t-test limits were exceeded for 3 matrix spike standards as shown in section 5. This represents a 88.0% success rate.

FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 2

Matrix Spike Recovery

Client: Cent.Testing Lab
Project Number: Sumter Landfill
P.O. Number: N/A
Date Sampled: 20-Apr-99
Lab Numbers: 11935 - 11941

Analyte	Unit	Analysis Method	Date	Spike Added	Sample Conc.	MS Conc.	MS Rec.	MSD Conc.	MSD Rec.	Acceptable Limits	STD Rec.	Acceptable Limits
Arsenic	mg/L	EPA6020	04-23-99	5	0.042	5.05	100%	4.91	97.4%	3.78 - 6.51	0.099	0 - 0.811
Barium	mg/L	EPA6020	04-23-99	4	14.6	19.1	113%	18.7	103%	13.7 - 23.6	0.283	0 - 0.664
Cadmium	mg/L	EPA6020	04-23-99	5	0.001	4.97	99.4%	4.76	95.2%	3.47 - 6.49	0.148	0 - 0.751
Chromium	mg/L	EPA6020	04-23-99	5	1.06	5.92	97.2%	5.74	93.6%	4.33 - 7.80	0.127	0 - 0.739
Cyanide	mg/L	SM4500-C	04-26-99	0.1	0.001	0.103	102%	0.102	101%	0.075 - 0.118	0.001	0 - 0.013
Fluoride	mg/L	SM4500F	05-06-99	0.5	0.244	0.650	81.1%	0.669	84.8%	0.690 - 0.847	0.013	0 - 0.198
Lead	mg/L	EPA6020	04-23-99	5	0.676	5.60	98.5%	5.49	96.3%	3.94 - 7.52	0.078	0 - 0.784
Mercury	mg/L	EPA7470	04-23-99	0.002	0.001	0.003	102%	0.002	72.6%	0.002 - 0.004	0.000	0 - 0.000
Nickel	mg/L	EPA6020	04-23-99	5	0.314	5.10	95.7%	4.98	93.3%	3.45 - 6.95	0.085	0 - 0.939
Nitrite(as N)	mg/L	EPA353.2	04-22-99	1	1.61	2.63	101%	2.66	104%	1.63 - 3.54	0.021	0 - 0.176
Selenium	mg/L	EPA6020	04-23-99	5	0.020	5.06	101%	5.21	104%	3.48 - 6.49	0.106	0 - 0.887
Sodium	mg/L	EPA6010	04-21-99	5.555	32.1	36.8	85.0%	36.8	84.2%	24.6 - 52.8	0.031	0 - 1.21
Antimony	mg/L	EPA6020	04-23-99	5	0.123	4.81	93.7%	4.75	92.5%	3.71 - 6.76	0.042	0 - 0.891
Beryllium	mg/L	EPA6020	04-23-99	5	0.014	5.88	117%	6.30	126%	3.35 - 7.01	0.297	0 - 0.960
Thallium	mg/L	EPA6020	04-23-99	5	0.004	5.09	102%	4.91	98.1%	3.55 - 6.67	0.127	0 - 0.964
Aluminum	mg/L	EPA6020	05-03-99	0.222	0.035	0.277	109%	0.318	128%	0.165 - 0.351	0.029	0 - 0.045
Chloride	mg/L	EPA300	05-06-99	1	3.87	4.61	74.1%	4.82	95.3%	2.29 - 6.61	0.150	0 - 0.255
Copper	mg/L	EPA6020	04-23-99	5	0.124	4.87	94.9%	4.82	93.9%	3.25 - 6.67	0.035	0 - 1.00
Iron	mg/L	EPA6010	04-20-99	5.555	0.372	6.00	101%	6.04	102%	3.87 - 8.15	0.031	0 - 1.27
Manganese	mg/L	EPA6010	04-20-99	5.555	0.006	4.55	81.8%	4.53	81.5%	3.87 - 7.22	0.014	0 - 1.08
Silver	mg/L	EPA6020	04-23-99	2.5	0.004	2.66	106%	2.44	97.4%	1.49 - 3.33	0.156	0 - 0.558
Sulfate	mg/L	EPA375.4	04-22-99	20	1.04	23.0	110%	26.8	129%	10.6 - 32.4	2.69	0 - 7.01
Zinc	mg/L	EPA6020	04-23-99	5	0.642	5.33	93.8%	5.22	91.6%	3.25 - 7.54	0.078	0 - 1.13
Ammonium(as N)	mg/L	EPA350.1	04-23-99	5	17.1	23.3	123%	24.1	140%	8.00 - 34.7	0.578	0 - 1.67

FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 3

Method Blank Report

Client: Cent.Testing Lab
Project Number: Sumter Landfill
P.O. Number: N/A
Date Sampled: 20-Apr-99
Lab Numbers: 11935 - 11941

Analyte	Unit	Method	Date	Concentration
Arsenic	mg/L	EPA6020	04-23-99	<0.00005
Barium	mg/L	EPA6020	04-23-99	<0.0004
Cadmium	mg/L	EPA6020	04-23-99	<0.00005
Chromium	mg/L	EPA6020	04-23-99	<0.0002
Cyanide	mg/L	SM4500-CN E	04-26-99	<0.005
Fluoride	mg/L	SM4500F C	05-06-99	<0.01
Lead	mg/L	EPA6020	04-23-99	<0.0001
Mercury	mg/L	EPA7470	04-23-99	<0.0002
Nickel	mg/L	EPA6020	04-23-99	<0.0002
Nitrite(as N)	mg/L	EPA353.2	04-22-99	<0.01
Selenium	mg/L	EPA6020	04-23-99	<0.0003
Sodium	mg/L	EPA6010	04-21-99	<0.01
Antimony	mg/L	EPA6020	04-23-99	<0.0002
Beryllium	mg/L	EPA6020	04-23-99	<0.0001
Thallium	mg/L	EPA6020	04-23-99	<0.0001
Aluminum	mg/L	EPA6020	05-03-99	<0.001
Chloride	mg/L	EPA300	05-06-99	<0.1
Copper	mg/L	EPA6020	04-23-99	<0.0002
Iron	mg/L	EPA6010	04-20-99	<0.004
Manganese	mg/L	EPA6010	04-20-99	<0.0005
Silver	mg/L	EPA6020	04-23-99	<0.00005
Sulfate	mg/L	EPA375.4	04-22-99	<1
Zinc	mg/L	EPA6020	04-23-99	<0.0007
pH (units)	pH	EPA150.1	04-20-99	<0.01
Turbidity	NTU	EPA180.1	04-20-99	<0.05
Ammonium(as N)	mg/L	EPA350.1	04-23-99	<0.01
Gross alpha	pCi/L	EPA900	05-07-99	<0.1
Analysis_Error(Ga)	pCi/L	EPA900	05-07-99	<0.1
Radium-226	pCi/L	EPA903.1	05-07-99	<0.1

FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 3

Method Blank Report

Client: Cent.Testing Lab
Project Number: Sumter Landfill
P.O. Number: N/A
Date Sampled: 20-Apr-99
Lab Numbers: 11935 - 11941

Analyte	Unit	Method	Date	Concentration
Analysis_Error(226)	pCi/L	EPA903.1	05-07-99	<0.1
Radium-228	pCi/L	EPA904	05-07-99	<0.3
Analysis_Error(228)	pCi/L	EPA904	05-07-99	<0.3
Gross beta	pCi/L	EPA900	05-07-99	<0.1
Analysis_Error(Gb)	pCi/L	EPA900	05-07-99	<0.1

FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 4

QCCS Sample Recovery

Client: Cent.Testing Lab
Project Number: Sumter Landfill
P.O. Number: N/A
Date Sampled: 20-Apr-99
Lab Numbers: 11935 - 11941

Analyte	Unit	Method	Date	QCCS Expected	QCCS Measured	Rec. %	Acceptable Limits
Arsenic	mg/L	EPA6020	04-23-99	0.100	0.098	98.0%	0.087 - 0.114
Barium	mg/L	EPA6020	04-23-99	0.100	0.098	97.7%	0.087 - 0.115
Cadmium	mg/L	EPA6020	04-23-99	0.100	0.095	94.9%	0.089 - 0.113
Chromium	mg/L	EPA6020	04-23-99	0.100	0.099	99.0%	0.084 - 0.115
Cyanide	mg/L	SM4500-CN I	04-26-99	0.050	0.044	87.9%	0.039 - 0.057
Fluoride	mg/L	SM4500F C	05-06-99	0.800	0.881	110%	0.837 - 0.900
Lead	mg/L	EPA6020	04-23-99	0.100	0.095	95.1%	0.085 - 0.119
Mercury	mg/L	EPA7470	04-23-99	0.002	0.002	103%	0.002 - 0.002
Nickel	mg/L	EPA6020	04-23-99	0.100	0.095	95.4%	0.083 - 0.115
Nitrite(as N)	mg/L	EPA353.2	04-22-99	0.500	0.493	98.6%	0.435 - 0.555
Selenium	mg/L	EPA6020	04-23-99	0.100	0.100	99.6%	0.084 - 0.116
Sodium	mg/L	EPA6010	04-21-99	1.00	1.15	115%	0.800 - 1.23
Antimony	mg/L	EPA6020	04-23-99	0.100	0.094	93.7%	0.086 - 0.111
Beryllium	mg/L	EPA6020	04-23-99	0.100	0.112	112%	0.066 - 0.131
Thallium	mg/L	EPA6020	04-23-99	0.100	0.100	99.5%	0.085 - 0.119
Aluminum	mg/L	EPA6020	05-03-99	0.100	0.097	97.3%	0.081 - 0.115
Chloride	mg/L	EPA300	05-06-99	1.60	1.65	103%	1.20 - 2.19
Copper	mg/L	EPA6020	04-23-99	0.100	0.094	94.4%	0.081 - 0.118
Iron	mg/L	EPA6010	04-20-99	1.00	1.02	102%	0.898 - 1.17
Manganese	mg/L	EPA6010	04-20-99	1.00	0.990	99.0%	0.856 - 1.12
Silver	mg/L	EPA6020	04-23-99	0.100	0.099	98.8%	0.080 - 0.120
Sulfate	mg/L	EPA375.4	04-22-99	20.0	17.5	87.5%	13.7 - 25.8
Zinc	mg/L	EPA6020	04-23-99	0.100	0.095	94.6%	0.081 - 0.118
pH (units)	pH	EPA150.1	04-20-99	7.00	7.05	101%	6.28 - 7.94
Turbidity	NTU	EPA180.1	04-20-99	4.00	4.10	103%	2.74 - 5.92
Ammonium(as N)	mg/L	EPA350.1	04-23-99	0.500	0.493	98.5%	0.402 - 0.593
Gross alpha	pCi/L	EPA900	05-07-99	100	100	100%	89.5 - 111
Analysis_Error(Ga)	pCi/L	EPA900	05-07-99	100	100	100%	89.5 - 111
Radium-226	pCi/L	EPA903.1	05-07-99	100	100	100%	89.5 - 111
Analysis_Error(226)	pCi/L	EPA903.1	05-07-99	100	100	100%	89.5 - 111
Radium-228	pCi/L	EPA904	05-07-99	100	100	100%	89.5 - 111
Analysis_Error(228)	pCi/L	EPA904	05-07-99	100	100	100%	89.5 - 111
Gross beta	pCi/L	EPA900	05-07-99	100	100	100%	89.5 - 111
Analysis_Error(Gb)	pCi/L	EPA900	05-07-99	100	100	100%	89.5 - 111

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Internal Custody Record Lab Numbers: 11935 - 11941

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CHEMICAL LABORATORIES INCORPORATED

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS: (407) 339-5984
FAX: (407) 260-6110

CHAIN OF CUSTODY RECORD

Client: Central Testing Lab
Address: 5400 S. Florida Av
Floral City FL 34436
Phone: 352-726-6447

FCL Client No.:
FCL Project Manager:
FCL Lab Coordinator:
Requested Due Date: routine

P.O. Number:
Project Name / No.: Sumter Landfill
Contact:

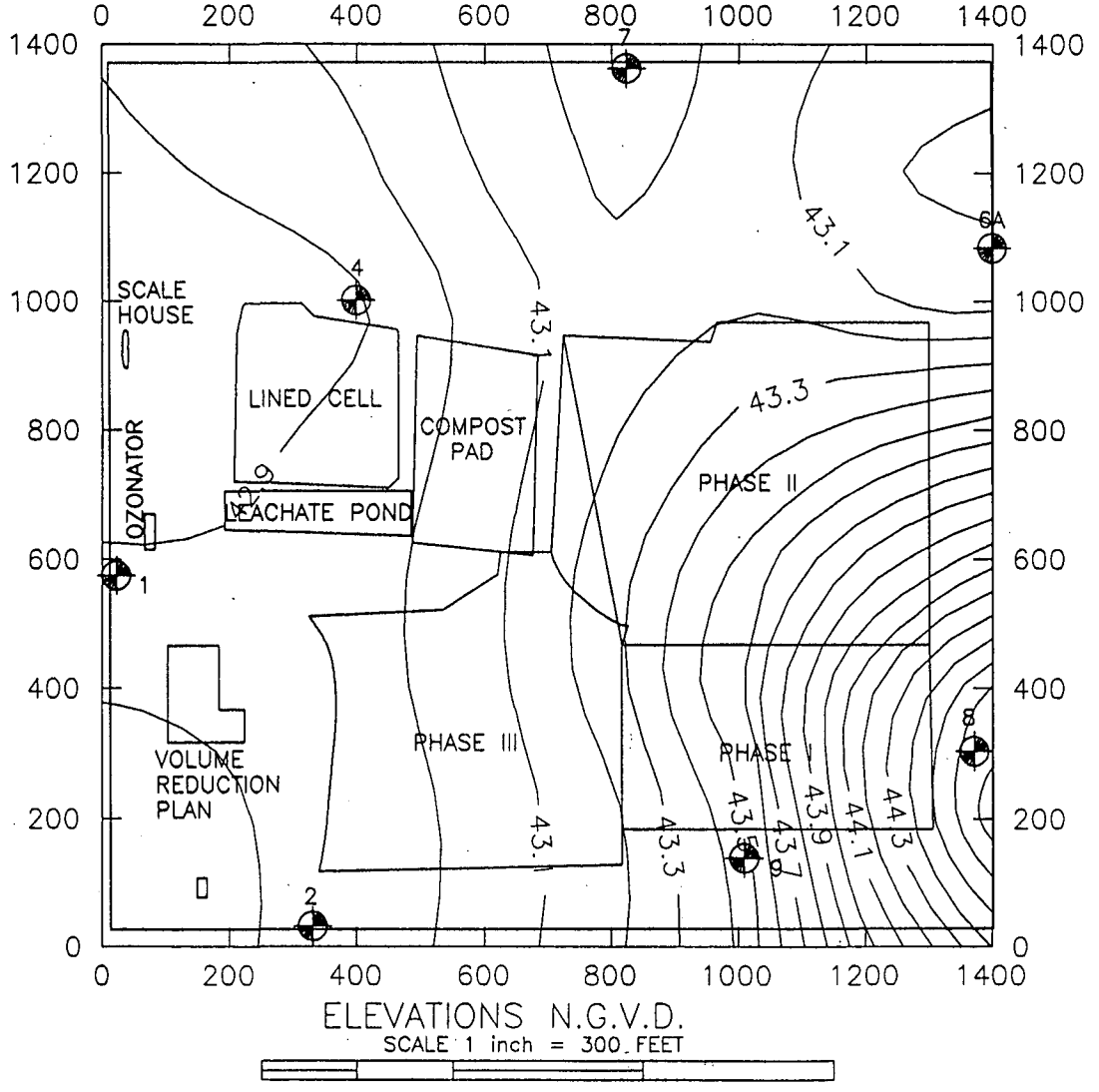
Sampled By (PRINT): Ron Ebel
Sampler Signature: Ron Ebel
Date Sampled: 4-20-99

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	LAB NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	HCl	NaOH		ANALYSES REQUEST: IN0 93	SEC 93	GA	TB	NH4	Ra 226/228		pH (Field)	Temp °C (Field)
1	SL1			11935	7	4	1	1		1		✓	✓	✓	✓	✓	✓		7.56	13.2°
2	SL2			11936	7	4	1	1		1		✓	✓	✓	✓	✓	✓		6.94	12.5
3	SL4	Monitoring		11937	7	4	1	1		1		✓	✓	✓	✓	✓	✓		6.86	13.8°
4	SL5A	Wells		11938	7	4	1	1		1		✓	✓	✓	✓	✓	✓		7.57	11.4°
5	SL7			11939	7	4	1	1		1		✓	✓	✓	✓	✓	✓		7.33	11.4°
6	SL8 SL9			11940 11941	7 7	4 4	1 1	1 1		1 1		✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓			7.01 11.7° 6.42 13.0°

CARRIER	BAILERS	SHIP DATES: OUT / DATE	RETURNED / DATE	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
				Ron Ebel CTL	4-20-99				
								4/20/99	1330

SPECIAL INSTRUCTIONS

SHIP WITH SAMPLES/TO BE RETURNED WITH RESULTS

SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY

GROUNDWATER ELEVATIONS 04/20/99