

HILLSBOROUGH COUNTY

Florida

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Frédéric B. Karl

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March 25, 1994

D.E.P.

APR 11 1994
SOUTHWEST DISTRICT
TAMPA

Ms. Allison Amram
Department of Environmental Regulation
Waste Management Section
3804 Coconut Palm Drive
Tampa, Fl. 33619 8318

RE: Permit #S029-158504 - Southeast County Sanitary Landfill

Dear Ms. Amram:

Enclosed are the results of the routine water quality monitoring of the Southeast Landfill, for the period of November 1, 1993 through January 31, 1994 in accordance with Permit No. S029-158504. Samples were collected by the Department of Solid Waste in December, 1993 and analyzed by Post, Buckley, Schuh and Jernigan, Inc.

A map showing site locations and a summary chart are also enclosed.

If you have any questions or comments on this information, please call me at 744-5680.

Sincerely,

A handwritten signature in cursive script that reads "James G. Clayton".

James G. Clayton,
Environmental Supervisor
Department of Solid Waste

Enclosures

xc: Chongman Lee, Department of Environmental Regulation
Paul Schipfer, EPC
Ron Antevy, Waste Management Inc.
Matt Mathews, Department of Solid Waste
Irene Barnes, Southeast Hillsborough Civic Association
Thomas G. Smith, Department of Solid Waste, w/o enclosures
Greg Walk, General Manager Southeast Landfill
Jim Lukens, Waste Management

GROUNDWATER MONITORING REPORT

Hillsborough County Solid Waste Dept.
 Att.: James Clayton
 Post Office Box 1110
 Tampa, FL 33601

Report No. HC-162

Sample date: 12/27/93

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

Well Type:

SURF. SITE 3C2

GMS:

Well Purged Prior to
 Sample Collection (Yes/No):

Groundwater Elevation
 (above MSL) ~~NA~~ (ft.)
 Water Level \downarrow (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
94	conductivity in field	Grab	APHA205	222	umhos/cm		
403	ph	Grab	EPA180.1	7.22	pH UNITS		
70300	total dissolved solids	Grab	EPA160.1	114	mg/l	U	NONE
82079	turbidity	Grab	EPA180.1	3.2	ntu	U	NONE
630	nitrate + nitrite	Grab	EPA353.2	0.47	mg/l as N	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	<0.1	mg/l as N	U	H2SO4 to pH<2
600	total nitrogen	Grab	EPA353.2	0.47	mg/l as N		
665	total phosphorus	Grab	EPA365.4	1.11	mg/l as P	U	H2SO4 to pH<2
310	biochemical oxygen demand	Grab	EPA405.1	3	mg/liter	U	NONE
340	chemical oxygen demand	Grab	EPA410.2	31	mg/l	U	H2SO4 to pH<2
940	chloride	Grab	EPA325.2	22.1	mg/l	U	NONE
300	dissolved oxygen, field	Grab	EPA360.1	9.45	mg/liter		
560	grease & oil	Grab	EPA413.2	<10	mg/l	U	H2SO4 to pH<2
1045	iron-icp method	Grab	EPA200.7	210	ug/l	U	HNO3 to pH<2
406	ph in field	Grab	EPA150.1	6.76	pH UNITS		
945	sulfate	Grab	EPA375.4	29.5	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	12.2	oC		
410	total alkalinity	Grab	EPA310.1	29.7	mg/l CaCO3	U	NONE
680	total organic carbon	Grab	EPA415.1	11.7	mg/l as C	U	H2SO4 to pH<2

GROUNDWATER MONITORING REPORT

Hillsborough County Solid Waste Dept.
 Att.: James Clayton
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PARAMETER MONITORING REPORT
 (Rule 17-3.402, 17-3.404-17-3.406)

Well Type:

SURF. SITE 3C2

GMS:
 Well Purged Prior to
 Sample Collection (Yes/No):

Groundwater Elevation
 (above MSL) *NA* (ft.)
 Water Level ↓ (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
95	conductivity	Grab	EPA120.1	227	umhos/cm		NONE

GROUNDWATER MONITORING REPORT

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 Att.: James Clayton
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Report No. HC-162

Sample date: 12/27/93

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

Well Type:

SURF. SITE 3B2B

GMS:

Well Purged Prior to
 Sample Collection (Yes/No):

Groundwater Elevation
 (above MSL) ~~NA~~ (ft.)
 Water Level ↓ (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
94	conductivity in field	Grab	APHA205	251	umhos/cm		
403	ph	Grab	EPA180.1	6.9	pH UNITS		
70300	total dissolved solids	Grab	EPA160.1	114	mg/l	U	NONE
82079	turbidity	Grab	EPA180.1	2.68	ntu	U	NONE
630	nitrate + nitrite	Grab	EPA353.2	0.81	mg/l as N	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	0.19	mg/l as N	U	H2SO4 to pH<2
600	total nitrogen	Grab	EPA353.2	1	mg/l as N		
665	total phosphorus	Grab	EPA365.4	0.34	mg/l as P	U	H2SO4 to pH<2
310	biochemical oxygen demand	Grab	EPA405.1	2	mg/liter	U	NONE
340	chemical oxygen demand	Grab	EPA410.2	17	mg/l	U	H2SO4 to pH<2
940	chloride	Grab	EPA325.2	33.3	mg/l	U	NONE
300	dissolved oxygen, field	Grab	EPA360.1	11.13	mg/liter		
560	grease & oil	Grab	EPA413.2	<10	mg/l	U	H2SO4 to pH<2
1045	iron-icp method	Grab	EPA200.7	260	ug/l	U	HNO3 to pH<2
406	ph in field	Grab	EPA150.1	7.19	pH UNITS		
945	sulfate	Grab	EPA375.4	34	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	11.4	oC		
410	total alkalinity	Grab	EPA310.1	15.6	mg/l CaCO3	U	NONE
680	total organic carbon	Grab	EPA415.1	19.5	mg/l as C	U	H2SO4 to pH<2

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

Well Type:

SURF. SITE 3B2B

GMS:
Well Purged Prior to
Sample Collection (Yes/No):

Groundwater Elevation
(above MSL) NA (ft.)
Water Level √ (ft.)

Storet Code	Parameter Monitored	Sampling Analysis		Analysis		F-U	Preservative
		Method	Method	Results	Units		
95	conductivity	Grab	EPA120.1	245	umhos/cm		NONE

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Sample date: 12/27/93

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

Well Type:

SURF. SITE 3A

GMS:
 Well Purged Prior to
 Sample Collection (Yes/No):

Groundwater Elevation
 (above MSL) **NA** (ft.)
 Water Level **↓** (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
94	conductivity in field	Grab	APHA205	311	umhos/cm		
403	ph	Grab	EPA180.1	6.38	pH UNITS		
70300	total dissolved solids	Grab	EPA160.1	130	mg/l	U	NONE
82079	turbidity	Grab	EPA180.1	4.1	ntu	U	NONE
630	nitrate + nitrite	Grab	EPA353.2	1.75	mg/l as N	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	<0.1	mg/l as N	U	H2SO4 to pH<2
600	total nitrogen	Grab	EPA353.2	1.75	mg/l as N		
665	total phosphorus	Grab	EPA365.4	0.18	mg/l as P	U	H2SO4 to pH<2
310	biochemical oxygen demand	Grab	EPA405.1	6	mg/liter	U	NONE
340	chemical oxygen demand	Grab	EPA410.2	25	mg/l	U	H2SO4 to pH<2
940	chloride	Grab	EPA325.2	44.1 ^{ok}	mg/l	U	NONE
300	dissolved oxygen, field	Grab	EPA360.1	10.11	mg/liter		
560	grease & oil	Grab	EPA413.2	<10	mg/l	U	H2SO4 to pH<2
1045	iron-icp method	Grab	EPA200.7	140	ug/l	U	HNO3 to pH<2
406	ph in field	Grab	EPA150.1	6.44	pH UNITS		
945	sulfate	Grab	EPA375.4	53	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	12.6	oC		
410	total alkalinity	Grab	EPA310.1	9.7	mg/l CaCO3	U	NONE
680	total organic carbon	Grab	EPA415.1	5.9	mg/l as C	U	H2SO4 to pH<2

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PARAMETER MONITORING REPORT
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Well Type:

SURF. SITE 3A

GMS:

Well Purged Prior to
 Sample Collection (Yes/No):

Groundwater Elevation
 (above MSL) *NA* (ft.)
 Water Level *↓* (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
95	conductivity	Grab	EPA120.1	307	umhos/cm		NONE

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

Well Type:

SURF. SITE 2

GMS:
 Well Purged Prior to
 Sample Collection (Yes/No):

Groundwater Elevation
 (above MSL) *NA* (ft.)
 Water Level *✓* (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
94	conductivity in field	Grab	APHA205	148	umhos/cm		
403	ph	Grab	EPA180.1	5.06	pH UNITS		
70300	total dissolved solids	Grab	EPA160.1	164	mg/l	U	NONE
82079	turbidity	Grab	EPA180.1	34.2	ntu	U	NONE
630	nitrate + nitrite	Grab	EPA353.2	0.31	mg/l as N	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	4.95	mg/l as N	U	H2SO4 to pH<2
600	total nitrogen	Grab	EPA353.2	5.26	mg/l as N		
665	total phosphorus	Grab	EPA365.4	2.07	mg/l as P	U	H2SO4 to pH<2
310	biochemical oxygen demand	Grab	EPA405.1	8	mg/liter	U	NONE
340	chemical oxygen demand	Grab	EPA410.2	555	mg/l	U	H2SO4 to pH<2
940	chloride	Grab	EPA325.2	23.3	mg/l	U	NONE
300	dissolved oxygen, field	Grab	EPA360.1	3.12	mg/liter		
560	grease & oil	Grab	EPA413.2	<10	mg/l	U	H2SO4 to pH<2
1045	iron-icp method	Grab	EPA200.7	1520	ug/l	U	HNO3 to pH<2
406	ph in field	Grab	EPA150.1	5.02	pH UNITS		
945	sulfate	Grab	EPA375.4	12.1	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	9.1	oC		
410	total alkalinity	Grab	EPA310.1	<1	mg/l CaCO3	U	NONE
680	total organic carbon	Grab	EPA415.1	60	mg/l as C	U	H2SO4 to pH<2

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

Well Type:

SURF. SITE 2

GMS:

Well Purged Prior to
 Sample Collection (Yes/No):

Groundwater Elevation
 (above MSL) *NA* (ft.)
 Water Level ↓ (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
95	conductivity	Grab	EPA120.1	140	umhos/cm		NONE

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

Well Type:

SURF SITE 1A-1E COMP SMITH

GMS:

Well Purged Prior to
 Sample Collection (Yes/No):

Groundwater Elevation
 (above MSL) *NA* (ft.)
 Water Level *↓* (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
94	conductivity in field	Grab	APHA205	194	coc units		
403	ph	Grab	EPA180.1	7.54	pH UNITS		
70300	total dissolved solids	Grab	EPA160.1	29	mg/l	U	NONE
82079	turbidity	Grab	EPA180.1	7.11	ntu	U	NONE
630	nitrate + nitrite	Grab	EPA353.2	0.01	mg/l as N	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	1.78	mg/l as N	U	H2SO4 to pH<2
600	total nitrogen	Grab	EPA353.2	1.79	mg/l as N		
665	total phosphorus	Grab	EPA365.4	3.04	mg/l as P	U	H2SO4 to pH<2
310	biochemical oxygen demand	Grab	EPA405.1	5	mg/liter	U	NONE
340	chemical oxygen demand	Grab	EPA410.2	50	mg/l	U	H2SO4 to pH<2
940	chloride	Grab	EPA325.2	17.6	mg/l	U	NONE
300	dissolved oxygen, field	Grab	EPA360.1	10.85	mg/liter		
560	grease & oil	Grab	EPA413.2	<10	mg/l	U	H2SO4 to pH<2
1045	iron-icp method	Grab	EPA200.7	30	ug/l	U	HNO3 to pH<2
406	ph in field	Grab	EPA150.1	7.57	pH UNITS		
945	sulfate	Grab	EPA375.4	4.9	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	14	oC		
410	total alkalinity	Grab	EPA310.1	53.1	mg/l CaCO3	U	NONE
680	total organic carbon	Grab	EPA415.1	20	mg/l as C	U	H2SO4 to pH<2

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

Well Type:

SURF SITE 1A-1E COMP SMITH
 GMS:
 Well Purged Prior to
 Sample Collection (Yes/No):

Groundwater Elevation
 (above MSL) ~~NA~~ (ft.)
 Water Level \checkmark (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
95	conductivity	Grab	EPA120.1	191	umhos/cm		NONE

GROUNDWATER MONITORING REPORT

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Report No. HC-162

Sample date: 12/28/93

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

Well Type:

WEEKS

GMS:

Well Purged Prior to

Sample Collection (Yes/No):

22 minute purge

Groundwater Elevation

(above MSL) NA (ft.)

Water Level ✓ (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
95	conductivity	Grab	EPA120.1	550	umhos/cm		NONE
94	conductivity in field	Grab	APHA205	527	coc units		
403	ph	Grab	EPA180.1	7.31	pH UNITS		
70300	total dissolved solids	Grab	EPA160.1	246	mg/l	U	NONE
82079	turbidity	Grab	EPA180.1	3.7	ntu	U	NONE
620	nitrate	Grab	EPA353.2	0.02	mg/l as N	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	<0.1	mg/l as N	U	H2SO4 to pH<2
1501	alpha, total	Grab	EPA900.0	14.5	pCi/l	U	HNO3 to pH<2
1502	alpha-counting error	Grab	EPA900.0	3	pCi/l	U	HNO3 to pH<2
916	calcium-icp method	Grab	EPA200.7	48.9	mg/l	U	HNO3 to pH<2
940	chloride	Grab	EPA325.2	17.4	mg/l	U	NONE
1045	iron-icp method	Grab	EPA200.7	1530	ug/l	U	HNO3 to pH<2
927	magnesium-icp method	Grab	EPA200.7	28.4	mg/l	U	HNO3 to pH<2
406	ph in field	Grab	EPA150.1	7.29	pH UNITS		
9051	radium 226 in water	Grab	EPA903.1	8.5	pCi/l	U	HNO3 to pH<2
9502	radium 226-counting error	Grab	EPA903.1	0.3	pCi/l	U	HNO3 to pH<2
945	sulfate	Grab	EPA375.4	4.4	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	21.6	oC		
900	total hardness	Grab	EPA130.2	239	mg/l as Ca	U	NONE
680	total organic carbon	Grab	EPA415.1	5.6	mg/l as C	U	H2SO4 to pH<2

GROUNDWATER MONITORING REPORT

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Sample date: 12/28/93

HOLLAND

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

Well Type:

GMS:

Well Purged Prior to
 Sample Collection (Yes/No):
 26 minute purge

Groundwater Elevation
 (above MSL) NA (ft.)
 Water Level ↓ (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
95	conductivity	Grab	EPA120.1	364	umhos/cm		NONE
94	conductivity in field	Grab	APHA205	384	coc units		
403	ph	Grab	EPA180.1	7.37	pH UNITS		
70300	total dissolved solids	Grab	EPA160.1	163	mg/l	U	NONE
82079	turbidity	Grab	EPA180.1	12	ntu	U	NONE
620	nitrate	Grab	EPA353.2	<0.01	mg/l as N	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	<0.1	mg/l as N	U	H2SO4 to pH<2
1501	alpha, total	Grab	EPA900.0	2.7	pCi/l	U	HNO3 to pH<2
1502	alpha-counting error	Grab	EPA900.0	1.3	pCi/l	U	HNO3 to pH<2
916	calcium-icp method	Grab	EPA200.7	35	mg/l	U	HNO3 to pH<2
940	chloride	Grab	EPA325.2	19.5	mg/l	U	NONE
1045	iron-icp method	Grab	EPA200.7	1260	ug/l	U	HNO3 to pH<2
927	magnesium-icp method	Grab	EPA200.7	18.6	mg/l	U	HNO3 to pH<2
406	ph in field	Grab	EPA150.1	7.23	pH UNITS		
945	sulfate	Grab	EPA375.4	21	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	23.4	oC		
900	total hardness	Grab	EPA130.2	164	mg/l as Ca	U	NONE
680	total organic carbon	Grab	EPA415.1	2.2	mg/l as C	U	H2SO4 to pH<2

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

Well Type:

BARNES

GMS:

Well Purged Prior to

Sample Collection (Yes/No):

22 minute purge

Groundwater Elevation

(above MSL) NA (ft.)

Water Level ↓ (ft.)

Storet Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Results	Units	F-U	Preservative
95	conductivity	Grab	EPA120.1	408	umhos/cm		NONE
94	conductivity in field	Grab	APHA205	412	coc units		
403	ph	Grab	EPA180.1	7.65	pH UNITS		
70300	total dissolved solids	Grab	EPA160.1	203	mg/l	U	NONE
82079	turbidity	Grab	EPA180.1	0.17	ntu	U	NONE
620	nitrate	Grab	EPA353.2	0.04	mg/l as N	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	0.34	mg/l as N	U	H2SO4 to pH<2
1501	alpha, total	Grab	EPA900.0	3	pCi/l	U	HNO3 to pH<2
1502	alpha-counting error	Grab	EPA900.0	1.6	pCi/l	U	HNO3 to pH<2
916	calcium-icp method	Grab	EPA200.7	36.4	mg/l	U	HNO3 to pH<2
940	chloride	Grab	EPA325.2	10.4	mg/l	U	NONE
1045	iron-icp method	Grab	EPA200.7	<20	ug/l	U	HNO3 to pH<2
927	magnesium-icp method	Grab	EPA200.7	18.6	mg/l	U	HNO3 to pH<2
406	ph in field	Grab	EPA150.1	7.52	pH UNITS		
945	sulfate	Grab	EPA375.4	<1	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	23.3	oC		
900	total hardness	Grab	EPA130.2	167	mg/l as Ca	U	NONE
680	total organic carbon	Grab	EPA415.1	4.3	mg/l as C	U	H2SO4 to pH<2

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Well Type:

MCBRIDE

GMS:

Well Purged Prior to

Sample Collection (Yes/No):

22 minute purge

Groundwater Elevation
 (above MSL) *N/A* (ft.)
 Water Level *↓* (ft.)

Storet Code	Parameter Monitored	Sampling Analysis		Analysis		F-U	Preservative
		Method	Method	Results	Units		
95	conductivity	Grab	EPA120.1	298	umhos/cm		NONE
94	conductivity in field	Grab	APHA205	339	coc units		
403	ph	Grab	EPA180.1	7.61	pH UNITS		
70300	total dissolved solids	Grab	EPA160.1	86	mg/l	U	NONE
82079	turbidity	Grab	EPA180.1	1.19	ntu	U	NONE
620	nitrate	Grab	EPA353.2	<0.01	mg/l as N	U	NONE
625	total kjeldahl nitrogen	Grab	EPA351.2	<0.1	mg/l as N	U	H2SO4 to pH<2
1501	alpha, total	Grab	EPA900.0	2.9	pCi/l	U	HNO3 to pH<2
1502	alpha-counting error	Grab	EPA900.0	1.1	pCi/l	U	HNO3 to pH<2
916	calcium-icp method	Grab	EPA200.7	29	mg/l	U	HNO3 to pH<2
940	chloride	Grab	EPA325.2	6.07	mg/l	U	NONE
1045	iron-icp method	Grab	EPA200.7	230	ug/l	U	HNO3 to pH<2
927	magnesium-icp method	Grab	EPA200.7	14	mg/l	U	HNO3 to pH<2
406	ph in field	Grab	EPA150.1	7.91	pH UNITS		
945	sulfate	Grab	EPA375.4	1.62	mg/l	U	NONE
10	temperature in field	Grab	EPA170.1	23.2	oC		
900	total hardness	Grab	EPA130.2	130	mg/l as Ca	U	NONE
680	total organic carbon	Grab	EPA415.1	2.6	mg/l as C	U	H2SO4 to pH<2