

June 7, 2012

Rick Potts
The Colinas Group, Inc.
377 Maitland Avenue
Suite 2012
Altamonte Springs, FL 32701

RE: Workorder: A1204268 Sumter Co Landfill

Dear Rick Potts:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, May 23, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,



Myrna Santiago
MSantiago@AELLab.com

Enclosures

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SAMPLE SUMMARY

Workorder: A1204268 Sumter Co Landfill

Lab ID	Sample ID	Matrix	Date Collected	Date Received
A1204268001	MW-2	Water	5/22/2012 15:22	5/23/2012 16:47
A1204268002	MW-4	Water	5/22/2012 14:25	5/23/2012 16:47
A1204268003	MW-4A	Water	5/22/2012 13:35	5/23/2012 16:47
A1204268004	MW-4B	Water	5/23/2012 12:25	5/23/2012 16:47
A1204268005	MW-4C	Water	5/22/2012 12:45	5/23/2012 16:47
A1204268006	MW-4D	Water	5/23/2012 13:30	5/23/2012 16:47
A1204268007	MW-6A	Water	5/23/2012 15:00	5/23/2012 16:47
A1204268008	MW-8	Water	5/23/2012 10:52	5/23/2012 16:47
A1204268009	MW-9A	Water	5/23/2012 10:08	5/23/2012 16:47
A1204268010	MW-10	Water	5/23/2012 11:42	5/23/2012 16:47
A1204268011	MW-11	Water	5/22/2012 10:45	5/23/2012 16:47
A1204268012	EQ BLANK	Water	5/22/2012 09:45	5/23/2012 16:47

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268001**
Sample ID: **MW-2**

Date Received: 05/23/12 16:47 Matrix: Water
Date Collected: 05/22/12 15:22

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	192	umhos/cm		1			5/22/2012 15:07	A^
Dissolved Oxygen	4.62	mg/L		1			5/22/2012 15:07	A^
Groundwater Elevation	41.56	feet		1			5/22/2012 15:07	A^
Temperature	27.91	°C		1			5/22/2012 15:07	A^
Turbidity	1.21	NTU		1			5/22/2012 15:07	A^
pH	6.74	pH unit		1			5/22/2012 15:07	A^
METALS								
Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Aluminum	61	ug/L	U	1	200	61	5/30/2012 23:33	J
Barium	13	ug/L		1	2.0	0.28	5/30/2012 23:33	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	5/30/2012 23:33	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	5/30/2012 23:33	J
Chromium	0.81	ug/L	I	1	4.0	0.50	5/30/2012 23:33	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	5/30/2012 23:33	J
Iron	38	ug/L	U	1	200	38	5/30/2012 23:33	J
Manganese	0.24	ug/L	U	1	1.0	0.24	5/30/2012 23:33	J
Nickel	1.1	ug/L	U	1	6.5	1.1	5/31/2012 15:19	J
Sodium	3.8	mg/L	V	1	0.20	0.026	5/30/2012 23:33	J
Vanadium	1.1	ug/L	I	1	1.5	0.18	5/30/2012 23:33	J
Zinc	9.3	ug/L	I	1	10	2.0	5/30/2012 23:33	J
Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.20	ug/L	I	1	0.60	0.073	5/29/2012 22:10	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	5/29/2012 22:10	J
Copper	2.1	ug/L		1	0.70	0.10	5/29/2012 22:10	J
Lead	0.076	ug/L	U	1	0.70	0.076	5/29/2012 22:10	J
Selenium	2.2	ug/L	U	1	5.0	2.2	5/29/2012 22:10	J
Silver	0.059	ug/L	U	1	0.30	0.059	5/29/2012 22:10	J
Thallium	0.067	ug/L	U	1	0.20	0.067	5/29/2012 22:10	J
Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.014	ug/L	U	1	0.10	0.014	6/5/2012 13:54	J

Report ID: 214034 - 472031

Page 3 of 61

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268001**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-2**

Date Collected: 05/22/12 15:22

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water			Analytical Method: EPA 300.0					
Chloride	4.7	mg/L	I	1	10	0.87	5/24/2012 07:34	A
Fluoride	0.13	mg/L	I	1	0.20	0.078	5/24/2012 07:34	A
Nitrate	2.6	mg/L		1	0.20	0.094	5/24/2012 07:34	A
Analysis Desc: Ammonia,E350.1,Water			Analytical Method: EPA 350.1					
Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	5/29/2012 13:43	T
Analysis Desc: Tot Dissolved Solids,SM2540C			Analytical Method: SM 2540C					
Total Dissolved Solids	170	mg/L		1	20	20	5/29/2012 12:27	M

Lab ID: **A1204268002**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-4**

Date Collected: 05/22/12 14:25

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	549	umhos/cm		1			5/22/2012 14:12	A^
Dissolved Oxygen	0.77	mg/L		1			5/22/2012 14:12	A^
Groundwater Elevation	40.92	feet		1			5/22/2012 14:12	A^
Temperature	26.05	°C		1			5/22/2012 14:12	A^
Turbidity	5.52	NTU		1			5/22/2012 14:12	A^
pH	7.2	pH unit		1			5/22/2012 14:12	A^

METALS

Analysis Desc: SW846 6010B			Preparation Method: SW-846 3010A					
Analysis,Water			Analytical Method: SW-846 6010					
Aluminum	190	ug/L	I	1	200	61	5/30/2012 23:57	J
Barium	8.2	ug/L		1	2.0	0.28	5/30/2012 23:57	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	5/30/2012 23:57	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	5/30/2012 23:57	J
Chromium	3.4	ug/L	I	1	4.0	0.50	5/30/2012 23:57	J

Report ID: 214034 - 472031

Page 4 of 61

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268002**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-4**

Date Collected: 05/22/12 14:25

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	0.91	ug/L	I	1	4.0	0.60	5/30/2012 23:57	J
Iron	38	ug/L	U	1	200	38	5/30/2012 23:57	J
Manganese	3.3	ug/L		1	1.0	0.24	5/30/2012 23:57	J
Nickel	1.1	ug/L	U	1	6.5	1.1	5/31/2012 15:34	J
Sodium	33	mg/L	V	1	0.20	0.026	5/30/2012 23:57	J
Vanadium	9.1	ug/L		1	1.5	0.18	5/30/2012 23:57	J
Zinc	8.7	ug/L	I	1	10	2.0	5/30/2012 23:57	J
Analysis Desc: SW846 6020B Preparation Method: SW-846 3010A								
Analysis, Total Analytical Method: SW-846 6020								
Antimony	0.11	ug/L	I	1	0.60	0.073	5/29/2012 22:19	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	5/29/2012 22:19	J
Copper	1.6	ug/L		1	0.70	0.10	5/29/2012 22:19	J
Lead	0.11	ug/L	I	1	0.70	0.076	5/29/2012 22:19	J
Selenium	2.2	ug/L	U	1	5.0	2.2	5/29/2012 22:19	J
Silver	0.059	ug/L	U	1	0.30	0.059	5/29/2012 22:19	J
Thallium	0.10	ug/L	I	1	0.20	0.067	5/29/2012 22:19	J
Analysis Desc: SW846 7470A Preparation Method: SW-846 7470A								
Analysis, Water Analytical Method: SW-846 7470A								
Mercury	0.022	ug/L	I	1	0.10	0.014	6/5/2012 14:02	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water Analytical Method: EPA 300.0								
Chloride	17	mg/L		1	10	0.87	5/24/2012 08:21	A
Fluoride	0.12	mg/L	I	1	0.20	0.078	5/24/2012 08:21	A
Nitrate	7.3	mg/L		1	0.20	0.094	5/24/2012 08:21	A
Analysis Desc: Ammonia,E350.1,Water Analytical Method: EPA 350.1								
Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	5/29/2012 13:43	T
Analysis Desc: Tot Dissolved Solids,SM2540C Analytical Method: SM 2540C								
Total Dissolved Solids	350	mg/L		1	20	20	5/29/2012 12:27	M

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268003**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-4A**

Date Collected: 05/22/12 13:35

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	649	umhos/cm		1			5/22/2012 13:26	A^
Dissolved Oxygen	0.59	mg/L		1			5/22/2012 13:26	A^
Groundwater Elevation	36.17	feet		1			5/22/2012 13:26	A^
Temperature	26.55	°C		1			5/22/2012 13:26	A^
Turbidity	3.12	NTU		1			5/22/2012 13:26	A^
pH	7.11	pH unit		1			5/22/2012 13:26	A^

METALS

Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Aluminum	61	ug/L	U	1	200	61	5/31/2012 00:01	J
Barium	12	ug/L		1	2.0	0.28	5/31/2012 00:01	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	5/31/2012 00:01	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	5/31/2012 00:01	J
Chromium	1.9	ug/L	I	1	4.0	0.50	5/31/2012 00:01	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	5/31/2012 00:01	J
Iron	38	ug/L	U	1	200	38	5/31/2012 00:01	J
Manganese	1.8	ug/L		1	1.0	0.24	5/31/2012 00:01	J
Nickel	1.1	ug/L	U	1	6.5	1.1	5/31/2012 16:01	J
Sodium	25	mg/L	V	1	0.20	0.026	5/31/2012 00:01	J
Vanadium	5.3	ug/L		1	1.5	0.18	5/31/2012 00:01	J
Zinc	9.4	ug/L	I	1	10	2.0	5/31/2012 00:01	J

Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.073	ug/L	U	1	0.60	0.073	5/29/2012 22:28	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	5/29/2012 22:28	J
Copper	0.74	ug/L		1	0.70	0.10	5/29/2012 22:28	J
Lead	0.076	ug/L	U	1	0.70	0.076	5/29/2012 22:28	J
Selenium	2.2	ug/L	U	1	5.0	2.2	5/29/2012 22:28	J
Silver	0.059	ug/L	U	1	0.30	0.059	5/29/2012 22:28	J
Thallium	0.23	ug/L		1	0.20	0.067	5/29/2012 22:28	J

Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.014	ug/L	U	1	0.10	0.014	6/5/2012 14:09	J

Report ID: 214034 - 472031

Page 6 of 61

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268003**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-4A**

Date Collected: 05/22/12 13:35

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water			Analytical Method: EPA 300.0					
Chloride	26	mg/L		1	10	0.87	5/24/2012 09:07	A
Fluoride	0.078	mg/L	U	1	0.20	0.078	5/24/2012 09:07	A
Nitrate	15	mg/L		1	0.20	0.094	5/24/2012 09:07	A
Analysis Desc: Ammonia,E350.1,Water			Analytical Method: EPA 350.1					
Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	5/29/2012 13:43	T
Analysis Desc: Tot Dissolved Solids,SM2540C			Analytical Method: SM 2540C					
Total Dissolved Solids	430	mg/L		1	20	20	5/25/2012 13:24	M

Lab ID: **A1204268004**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-4B**

Date Collected: 05/23/12 12:25

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	148	umhos/cm		1			5/23/2012 12:15	A^
Dissolved Oxygen	4.11	mg/L		1			5/23/2012 12:15	A^
Groundwater Elevation	41.54	feet		1			5/23/2012 12:15	A^
Temperature	25.71	°C		1			5/23/2012 12:15	A^
Turbidity	2.13	NTU		1			5/23/2012 12:15	A^
pH	8.69	pH unit		1			5/23/2012 12:15	A^

METALS

Analysis Desc: SW846 6010B			Preparation Method: SW-846 3010A					
Analysis,Water			Analytical Method: SW-846 6010					
Aluminum	130	ug/L	I	1	200	61	5/31/2012 00:06	J
Barium	3.3	ug/L		1	2.0	0.28	5/31/2012 00:06	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	5/31/2012 00:06	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	5/31/2012 00:06	J
Chromium	3.4	ug/L	I	1	4.0	0.50	5/31/2012 00:06	J

Report ID: 214034 - 472031

Page 7 of 61

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268004**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-4B**

Date Collected: 05/23/12 12:25

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	0.60	ug/L	U	1	4.0	0.60	5/31/2012 00:06	J
Iron	38	ug/L	U	1	200	38	5/31/2012 00:06	J
Manganese	0.24	ug/L	U	1	1.0	0.24	5/31/2012 00:06	J
Nickel	1.1	ug/L	U	1	6.5	1.1	5/31/2012 16:06	J
Sodium	9.2	mg/L	V	1	0.20	0.026	5/31/2012 00:06	J
Vanadium	12	ug/L		1	1.5	0.18	5/31/2012 00:06	J
Zinc	8.6	ug/L	I	1	10	2.0	5/31/2012 00:06	J
Analysis Desc: SW846 6020B Preparation Method: SW-846 3010A								
Analysis, Total Analytical Method: SW-846 6020								
Antimony	0.54	ug/L	I	1	0.60	0.073	5/29/2012 22:56	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	5/29/2012 22:56	J
Copper	1.2	ug/L		1	0.70	0.10	5/29/2012 22:56	J
Lead	0.58	ug/L	I	1	0.70	0.076	5/29/2012 22:56	J
Selenium	2.2	ug/L	U	1	5.0	2.2	5/29/2012 22:56	J
Silver	0.071	ug/L	I	1	0.30	0.059	5/29/2012 22:56	J
Thallium	0.072	ug/L	I	1	0.20	0.067	5/29/2012 22:56	J
Analysis Desc: SW846 7470A Preparation Method: SW-846 7470A								
Analysis, Water Analytical Method: SW-846 7470A								
Mercury	0.014	ug/L	U	1	0.10	0.014	6/5/2012 14:11	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water Analytical Method: EPA 300.0								
Chloride	4.5	mg/L	I	1	10	0.87	5/24/2012 23:09	A
Fluoride	0.13	mg/L	I	1	0.20	0.078	5/24/2012 23:09	A
Nitrate	3.9	mg/L		1	0.20	0.094	5/24/2012 23:09	A
Analysis Desc: Ammonia,E350.1,Water Analytical Method: EPA 350.1								
Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	5/29/2012 13:43	T
Analysis Desc: Tot Dissolved Solids,SM2540C Analytical Method: SM 2540C								
Total Dissolved Solids	96	mg/L		1	20	20	5/29/2012 12:27	M

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268005**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-4C**

Date Collected: 05/22/12 12:45

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	499	umhos/cm		1			5/22/2012 12:32	A^
Dissolved Oxygen	1.35	mg/L		1			5/22/2012 12:32	A^
Groundwater Elevation	41.14	feet		1			5/22/2012 12:32	A^
Temperature	26.79	°C		1			5/22/2012 12:32	A^
Turbidity	16.8	NTU		1			5/22/2012 12:32	A^
pH	7.21	pH unit		1			5/22/2012 12:32	A^
METALS								
Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Aluminum	810	ug/L		1	200	61	5/31/2012 00:11	J
Barium	15	ug/L		1	2.0	0.28	5/31/2012 00:11	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	5/31/2012 00:11	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	5/31/2012 00:11	J
Chromium	3.3	ug/L	I	1	4.0	0.50	5/31/2012 00:11	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	5/31/2012 00:11	J
Iron	89	ug/L	I	1	200	38	5/31/2012 00:11	J
Manganese	17	ug/L		1	1.0	0.24	5/31/2012 00:11	J
Nickel	1.1	ug/L	U	1	6.5	1.1	5/31/2012 16:11	J
Sodium	15	mg/L	V	1	0.20	0.026	5/31/2012 00:11	J
Vanadium	5.6	ug/L		1	1.5	0.18	5/31/2012 00:11	J
Zinc	9.4	ug/L	I	1	10	2.0	5/31/2012 00:11	J
Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.30	ug/L	I	1	0.60	0.073	5/29/2012 23:05	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	5/29/2012 23:05	J
Copper	0.41	ug/L	I	1	0.70	0.10	5/29/2012 23:05	J
Lead	0.076	ug/L	U	1	0.70	0.076	5/29/2012 23:05	J
Selenium	2.2	ug/L	U	1	5.0	2.2	5/29/2012 23:05	J
Silver	0.059	ug/L	U	1	0.30	0.059	5/29/2012 23:05	J
Thallium	0.067	ug/L	U	1	0.20	0.067	5/29/2012 23:05	J
Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.014	ug/L	U	1	0.10	0.014	6/5/2012 14:13	J

Report ID: 214034 - 472031

Page 9 of 61

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268005**
Sample ID: **MW-4C**

Date Received: 05/23/12 16:47 Matrix: Water
Date Collected: 05/22/12 12:45

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water			Analytical Method: EPA 300.0					
Chloride	14	mg/L		1	10	0.87	5/24/2012 09:22	A
Fluoride	0.15	mg/L	I	1	0.20	0.078	5/24/2012 09:22	A
Nitrate	7.6	mg/L		1	0.20	0.094	5/24/2012 09:22	A
Analysis Desc: Ammonia,E350.1,Water			Analytical Method: EPA 350.1					
Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	5/29/2012 13:43	T
Analysis Desc: Tot Dissolved Solids,SM2540C			Analytical Method: SM 2540C					
Total Dissolved Solids	300	mg/L		1	20	20	5/25/2012 13:24	M

Lab ID: **A1204268006**
Sample ID: **MW-4D**

Date Received: 05/23/12 16:47 Matrix: Water
Date Collected: 05/23/12 13:30

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	358	umhos/cm		1			5/23/2012 13:21	A^
Dissolved Oxygen	3.78	mg/L		1			5/23/2012 13:21	A^
Groundwater Elevation	41.25	feet		1			5/23/2012 13:21	A^
Temperature	25.22	°C		1			5/23/2012 13:21	A^
Turbidity	11.3	NTU		1			5/23/2012 13:21	A^
pH	7.75	pH unit		1			5/23/2012 13:21	A^

METALS

Analysis Desc: SW846 6010B			Preparation Method: SW-846 3010A					
Analysis,Water			Analytical Method: SW-846 6010					
Aluminum	1200	ug/L		1	200	61	5/31/2012 00:40	J
Barium	9.8	ug/L		1	2.0	0.28	5/31/2012 00:40	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	5/31/2012 00:40	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	5/31/2012 00:40	J
Chromium	5.4	ug/L		1	4.0	0.50	5/31/2012 00:40	J

Report ID: 214034 - 472031

Page 10 of 61

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268006**
Sample ID: **MW-4D**

Date Received: 05/23/12 16:47 Matrix: Water
Date Collected: 05/23/12 13:30

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	0.60	ug/L	U	1	4.0	0.60	5/31/2012 00:40	J
Iron	88	ug/L	I	1	200	38	5/31/2012 00:40	J
Manganese	0.24	ug/L	U	1	1.0	0.24	5/31/2012 00:40	J
Nickel	1.1	ug/L	U	1	6.5	1.1	5/31/2012 16:16	J
Sodium	8.8	mg/L	V	1	0.20	0.026	5/31/2012 00:40	J
Vanadium	18	ug/L		1	1.5	0.18	5/31/2012 00:40	J
Zinc	11	ug/L		1	10	2.0	5/31/2012 00:40	J

Analysis Desc: SW846 6020B
Analysis, Total

Preparation Method: SW-846 3010A
Analytical Method: SW-846 6020

Antimony	0.21	ug/L	I	1	0.60	0.073	5/29/2012 23:14	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	5/29/2012 23:14	J
Copper	1.2	ug/L		1	0.70	0.10	5/29/2012 23:14	J
Lead	0.58	ug/L	I	1	0.70	0.076	5/29/2012 23:14	J
Selenium	2.2	ug/L	U	1	5.0	2.2	5/29/2012 23:14	J
Silver	0.059	ug/L	U	1	0.30	0.059	5/29/2012 23:14	J
Thallium	0.093	ug/L	I	1	0.20	0.067	5/29/2012 23:14	J

Analysis Desc: SW846 7470A
Analysis, Water

Preparation Method: SW-846 7470A
Analytical Method: SW-846 7470A

Mercury	0.014	ug/L	U	1	0.10	0.014	6/5/2012 14:14	J
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WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	10	mg/L		1	10	0.87	5/24/2012 23:56	A
Fluoride	0.15	mg/L	I	1	0.20	0.078	5/24/2012 23:56	A
Nitrate	7.8	mg/L		1	0.20	0.094	5/24/2012 23:56	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	5/29/2012 13:43	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	240	mg/L		1	20	20	5/29/2012 12:27	M
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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268007**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-6A**

Date Collected: 05/23/12 15:00

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	265	umhos/cm		1			5/23/2012 14:50	A^
Dissolved Oxygen	6.88	mg/L		1			5/23/2012 14:50	A^
Groundwater Elevation	41.71	feet		1			5/23/2012 14:50	A^
Temperature	24.92	°C		1			5/23/2012 14:50	A^
Turbidity	10.5	NTU		1			5/23/2012 14:50	A^
pH	7.83	pH unit		1			5/23/2012 14:50	A^
METALS								
Analysis Desc: Ammonia,E350.1,Water			Analytical Method: EPA 350.1					
Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	5/29/2012 13:43	T
Analysis Desc: SW846 6010B Analysis,Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Aluminum	61	ug/L	U	1	200	61	5/31/2012 00:45	J
Barium	2.1	ug/L		1	2.0	0.28	5/31/2012 00:45	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	5/31/2012 00:45	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	5/31/2012 00:45	J
Chromium	5.2	ug/L		1	4.0	0.50	5/31/2012 00:45	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	5/31/2012 00:45	J
Iron	38	ug/L	U	1	200	38	5/31/2012 00:45	J
Manganese	0.24	ug/L	U	1	1.0	0.24	5/31/2012 00:45	J
Nickel	1.1	ug/L	U	1	6.5	1.1	5/31/2012 16:21	J
Sodium	3.3	mg/L	V	1	0.20	0.026	5/31/2012 00:45	J
Vanadium	7.5	ug/L		1	1.5	0.18	5/31/2012 00:45	J
Zinc	8.6	ug/L	I	1	10	2.0	5/31/2012 00:45	J
Analysis Desc: SW846 6020B Analysis,Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.074	ug/L	I	1	0.60	0.073	5/29/2012 23:24	J
Arsenic	0.57	ug/L	I	1	1.0	0.36	5/29/2012 23:24	J
Copper	0.38	ug/L	I	1	0.70	0.10	5/29/2012 23:24	J
Lead	0.076	ug/L	U	1	0.70	0.076	5/29/2012 23:24	J
Selenium	2.2	ug/L	U	1	5.0	2.2	5/29/2012 23:24	J
Silver	0.059	ug/L	U	1	0.30	0.059	5/29/2012 23:24	J
Thallium	0.067	ug/L	U	1	0.20	0.067	5/29/2012 23:24	J

Report ID: 214034 - 472031

Page 12 of 61

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268007**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-6A**

Date Collected: 05/23/12 15:00

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 7470A		Preparation Method: SW-846 7470A						
Analysis, Water		Analytical Method: SW-846 7470A						
Mercury	0.014	ug/L	U	1	0.10	0.014	6/5/2012 14:16	J

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water		Analytical Method: EPA 300.0						
Chloride	8.2	mg/L	I	1	10	0.87	5/25/2012 00:11	A
Fluoride	0.13	mg/L	I	1	0.20	0.078	5/25/2012 00:11	A
Nitrate	5.8	mg/L		1	0.20	0.094	5/25/2012 00:11	A
Analysis Desc: Tot Dissolved Solids,SM2540C		Analytical Method: SM 2540C						
Total Dissolved Solids	210	mg/L	J3	1	20	20	5/29/2012 12:27	M

Lab ID: **A1204268008**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-8**

Date Collected: 05/23/12 10:52

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: FIELD - Conductance		Analytical Method: DISRES						
Conductance	341	umhos/cm		1			5/23/2012 10:41	A^
Dissolved Oxygen	4.85	mg/L		1			5/23/2012 10:41	A^
Groundwater Elevation	42.72	feet		1			5/23/2012 10:41	A^
Temperature	24.38	°C		1			5/23/2012 10:41	A^
Turbidity	3.29	NTU		1			5/23/2012 10:41	A^
pH	7.3	pH unit		1			5/23/2012 10:41	A^

METALS

Analysis Desc: SW846 6010B		Preparation Method: SW-846 3010A						
Analysis, Water		Analytical Method: SW-846 6010						
Aluminum	61	ug/L	U	1	200	61	5/31/2012 00:49	J
Barium	3.1	ug/L		1	2.0	0.28	5/31/2012 00:49	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	5/31/2012 00:49	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	5/31/2012 00:49	J

Report ID: 214034 - 472031

Page 13 of 61

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268008**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-8**

Date Collected: 05/23/12 10:52

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chromium	3.6	ug/L	I	1	4.0	0.50	5/31/2012 00:49	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	5/31/2012 00:49	J
Iron	44	ug/L	I	1	200	38	5/31/2012 00:49	J
Manganese	0.58	ug/L	I	1	1.0	0.24	5/31/2012 00:49	J
Nickel	1.1	ug/L	U	1	6.5	1.1	5/31/2012 16:25	J
Sodium	5.0	mg/L	V	1	0.20	0.026	5/31/2012 00:49	J
Vanadium	8.0	ug/L		1	1.5	0.18	5/31/2012 00:49	J
Zinc	4.3	ug/L	I	1	10	2.0	5/31/2012 00:49	J

Analysis Desc: SW846 6020B
Analysis, Total

Preparation Method: SW-846 3010A

Analytical Method: SW-846 6020

Antimony	0.073	ug/L	U	1	0.60	0.073	5/29/2012 23:33	J
Arsenic	0.54	ug/L	I	1	1.0	0.36	5/29/2012 23:33	J
Copper	0.30	ug/L	I	1	0.70	0.10	5/29/2012 23:33	J
Lead	0.076	ug/L	U	1	0.70	0.076	5/29/2012 23:33	J
Selenium	2.2	ug/L	U	1	5.0	2.2	5/29/2012 23:33	J
Silver	0.059	ug/L	U	1	0.30	0.059	5/29/2012 23:33	J
Thallium	0.067	ug/L	U	1	0.20	0.067	5/29/2012 23:33	J

Analysis Desc: SW846 7470A
Analysis, Water

Preparation Method: SW-846 7470A

Analytical Method: SW-846 7470A

Mercury	0.014	ug/L	U	1	0.10	0.014	6/5/2012 14:18	J
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WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	7.9	mg/L	I	1	10	0.87	5/25/2012 00:26	A
Fluoride	0.11	mg/L	I	1	0.20	0.078	5/25/2012 00:26	A
Nitrate	1.9	mg/L		1	0.20	0.094	5/25/2012 00:26	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	5/29/2012 13:43	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	220	mg/L		1	20	20	5/29/2012 12:27	M
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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268009**
Sample ID: **MW-9A**

Date Received: 05/23/12 16:47 Matrix: Water
Date Collected: 05/23/12 10:08

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	908	umhos/cm		1			5/23/2012 09:59	A^
Dissolved Oxygen	0.41	mg/L		1			5/23/2012 09:59	A^
Groundwater Elevation	35.06	feet		1			5/23/2012 09:59	A^
Temperature	25.19	°C		1			5/23/2012 09:59	A^
Turbidity	13.5	NTU		1			5/23/2012 09:59	A^
pH	6.45	pH unit		1			5/23/2012 09:59	A^
METALS								
Analysis Desc: SW846 6010B			Preparation Method: SW-846 3010A					
Analysis, Water			Analytical Method: SW-846 6010					
Aluminum	360	ug/L		1	200	61	5/31/2012 00:54	J
Barium	12	ug/L		1	2.0	0.28	5/31/2012 00:54	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	5/31/2012 00:54	J
Cadmium	0.83	ug/L		1	0.60	0.32	5/31/2012 00:54	J
Chromium	7.6	ug/L		1	4.0	0.50	5/31/2012 00:54	J
Cobalt	18	ug/L		1	4.0	0.60	5/31/2012 00:54	J
Iron	860	ug/L		1	200	38	5/31/2012 00:54	J
Manganese	81	ug/L		1	1.0	0.24	5/31/2012 00:54	J
Nickel	9.5	ug/L		1	6.5	1.1	5/31/2012 16:30	J
Sodium	19	mg/L	V	1	0.20	0.026	5/31/2012 00:54	J
Vanadium	2.4	ug/L		1	1.5	0.18	5/31/2012 00:54	J
Zinc	12	ug/L		1	10	2.0	5/31/2012 00:54	J
Analysis Desc: SW846 6020B			Preparation Method: SW-846 3010A					
Analysis, Total			Analytical Method: SW-846 6020					
Antimony	0.10	ug/L	I	1	0.60	0.073	5/29/2012 23:42	J
Arsenic	1.2	ug/L		1	1.0	0.36	5/29/2012 23:42	J
Copper	2.1	ug/L		1	0.70	0.10	5/29/2012 23:42	J
Lead	0.22	ug/L	I	1	0.70	0.076	5/29/2012 23:42	J
Selenium	2.2	ug/L	U	1	5.0	2.2	5/29/2012 23:42	J
Silver	0.059	ug/L	U	1	0.30	0.059	5/29/2012 23:42	J
Thallium	0.15	ug/L	I	1	0.20	0.067	5/29/2012 23:42	J
Analysis Desc: SW846 7470A			Preparation Method: SW-846 7470A					
Analysis, Water			Analytical Method: SW-846 7470A					
Mercury	0.082	ug/L	I	1	0.10	0.014	6/5/2012 14:19	J

Report ID: 214034 - 472031

Page 15 of 61

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268009**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-9A**

Date Collected: 05/23/12 10:08

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water			Analytical Method: EPA 300.0					
Chloride	20	mg/L		1	10	0.87	5/25/2012 08:55	A
Fluoride	0.16	mg/L	I	1	0.20	0.078	5/25/2012 08:55	A
Nitrate	0.32	mg/L		1	0.20	0.094	5/25/2012 08:55	A
Analysis Desc: Ammonia,E350.1,Water			Analytical Method: EPA 350.1					
Ammonia (N)	0.46	mg/L		1	0.10	0.025	5/29/2012 13:43	T
Analysis Desc: Tot Dissolved Solids,SM2540C			Analytical Method: SM 2540C					
Total Dissolved Solids	590	mg/L		1	20	20	5/29/2012 12:27	M

Lab ID: **A1204268010**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-10**

Date Collected: 05/23/12 11:42

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	540	umhos/cm		1			5/23/2012 11:28	A^
Dissolved Oxygen	0.37	mg/L		1			5/23/2012 11:28	A^
Groundwater Elevation	41.38	feet		1			5/23/2012 11:28	A^
Temperature	25.41	°C		1			5/23/2012 11:28	A^
Turbidity	6.5	NTU		1			5/23/2012 11:28	A^
pH	6.99	pH unit		1			5/23/2012 11:28	A^

METALS

Analysis Desc: SW846 6010B Preparation Method: SW-846 3010A
Analysis,Water Analytical Method: SW-846 6010

Aluminum	360	ug/L		1	200	61	5/31/2012 00:59	J
Barium	11	ug/L		1	2.0	0.28	5/31/2012 00:59	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	5/31/2012 00:59	J
Cadmium	0.35	ug/L	I	1	0.60	0.32	5/31/2012 00:59	J
Chromium	1.3	ug/L	I	1	4.0	0.50	5/31/2012 00:59	J

Report ID: 214034 - 472031

Page 16 of 61

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268010**
Sample ID: **MW-10**

Date Received: 05/23/12 16:47 Matrix: Water
Date Collected: 05/23/12 11:42

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	0.60	ug/L	U	1	4.0	0.60	5/31/2012 00:59	J
Iron	140	ug/L	I	1	200	38	5/31/2012 00:59	J
Manganese	13	ug/L		1	1.0	0.24	5/31/2012 00:59	J
Nickel	1.1	ug/L	U	1	6.5	1.1	5/31/2012 16:35	J
Sodium	6.3	mg/L	V	1	0.20	0.026	5/31/2012 00:59	J
Vanadium	10	ug/L		1	1.5	0.18	5/31/2012 00:59	J
Zinc	9.7	ug/L	I	1	10	2.0	5/31/2012 00:59	J

Analysis Desc: SW846 6020B
Analysis, Total

Preparation Method: SW-846 3010A
Analytical Method: SW-846 6020

Antimony	0.16	ug/L	I	1	0.60	0.073	5/29/2012 23:51	J
Arsenic	1.1	ug/L		1	1.0	0.36	5/29/2012 23:51	J
Copper	0.65	ug/L	I	1	0.70	0.10	5/29/2012 23:51	J
Lead	0.19	ug/L	I	1	0.70	0.076	5/29/2012 23:51	J
Selenium	2.2	ug/L	U	1	5.0	2.2	5/29/2012 23:51	J
Silver	0.059	ug/L	U	1	0.30	0.059	5/29/2012 23:51	J
Thallium	0.067	ug/L	U	1	0.20	0.067	5/29/2012 23:51	J

Analysis Desc: SW846 7470A
Analysis, Water

Preparation Method: SW-846 7470A
Analytical Method: SW-846 7470A

Mercury	0.014	ug/L	U	1	0.10	0.014	6/5/2012 14:21	J
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WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	7.2	mg/L	I	1	10	0.87	5/25/2012 01:13	A
Fluoride	0.14	mg/L	I	1	0.20	0.078	5/25/2012 01:13	A
Nitrate	1.8	mg/L		1	0.20	0.094	5/25/2012 01:13	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	5/29/2012 13:43	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	320	mg/L		1	20	20	5/29/2012 12:27	M
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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268011**
Sample ID: **MW-11**

Date Received: 05/23/12 16:47 Matrix: Water
Date Collected: 05/22/12 10:45

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	555	umhos/cm		1			5/22/2012 10:36	A^
Dissolved Oxygen	0.73	mg/L		1			5/22/2012 10:36	A^
Groundwater Elevation	41.38	feet		1			5/22/2012 10:34	A^
Temperature	25.75	°C		1			5/22/2012 10:36	A^
Turbidity	14	NTU		1			5/22/2012 10:36	A^
pH	6.55	pH unit		1			5/22/2012 10:36	A^
METALS								
Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Aluminum	720	ug/L		1	200	61	5/31/2012 01:04	J
Barium	8.8	ug/L		1	2.0	0.28	5/31/2012 01:04	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	5/31/2012 01:04	J
Cadmium	2.3	ug/L		1	0.60	0.32	5/31/2012 01:04	J
Chromium	7.6	ug/L		1	4.0	0.50	5/31/2012 01:04	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	5/31/2012 01:04	J
Iron	120	ug/L	I	1	200	38	5/31/2012 01:04	J
Manganese	3.6	ug/L		1	1.0	0.24	5/31/2012 01:04	J
Nickel	1.5	ug/L	I	1	6.5	1.1	5/31/2012 16:40	J
Sodium	8.8	mg/L	V	1	0.20	0.026	5/31/2012 01:04	J
Vanadium	11	ug/L		1	1.5	0.18	5/31/2012 01:04	J
Zinc	12	ug/L		1	10	2.0	5/31/2012 01:04	J
Analysis Desc: SW846 6020B Analysis, Total			Preparation Method: SW-846 3010A Analytical Method: SW-846 6020					
Antimony	0.095	ug/L	I	1	0.60	0.073	5/30/2012 00:01	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	5/30/2012 00:01	J
Copper	2.0	ug/L		1	0.70	0.10	5/30/2012 00:01	J
Lead	0.57	ug/L	I	1	0.70	0.076	5/30/2012 00:01	J
Selenium	2.2	ug/L	U	1	5.0	2.2	5/30/2012 00:01	J
Silver	0.059	ug/L	U	1	0.30	0.059	5/30/2012 00:01	J
Thallium	0.11	ug/L	I	1	0.20	0.067	5/30/2012 00:01	J
Analysis Desc: SW846 7470A Analysis, Water			Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A					
Mercury	0.046	ug/L	I	1	0.10	0.014	6/5/2012 14:23	J

Report ID: 214034 - 472031

Page 18 of 61

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268011**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **MW-11**

Date Collected: 05/22/12 10:45

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water			Analytical Method: EPA 300.0					
Chloride	3.8	mg/L	I	1	10	0.87	5/24/2012 09:38	A
Fluoride	0.18	mg/L	I	1	0.20	0.078	5/24/2012 09:38	A
Nitrate	4.8	mg/L		1	0.20	0.094	5/24/2012 09:38	A
Analysis Desc: Ammonia,E350.1,Water			Analytical Method: EPA 350.1					
Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	5/29/2012 13:43	T
Analysis Desc: Tot Dissolved Solids,SM2540C			Analytical Method: SM 2540C					
Total Dissolved Solids	320	mg/L		1	20	20	5/25/2012 13:24	M

Lab ID: **A1204268012**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **EQ BLANK**

Date Collected: 05/22/12 09:45

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B			Preparation Method: SW-846 3010A					
Analysis,Water			Analytical Method: SW-846 6010					
Aluminum	61	ug/L	U	1	200	61	5/31/2012 01:09	J
Barium	0.28	ug/L	U	1	2.0	0.28	5/31/2012 01:09	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	5/31/2012 01:09	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	5/31/2012 01:09	J
Chromium	0.50	ug/L	I	1	4.0	0.50	5/31/2012 01:09	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	5/31/2012 01:09	J
Iron	38	ug/L	U	1	200	38	5/31/2012 01:09	J
Manganese	0.24	ug/L	U	1	1.0	0.24	5/31/2012 01:09	J
Nickel	1.1	ug/L	U	1	6.5	1.1	5/31/2012 16:45	J
Sodium	0.32	mg/L	V	1	0.20	0.026	5/31/2012 01:09	J
Vanadium	0.18	ug/L	U	1	1.5	0.18	5/31/2012 01:09	J
Zinc	6.9	ug/L	I	1	10	2.0	5/31/2012 01:09	J

Report ID: 214034 - 472031

Page 19 of 61

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ANALYTICAL RESULTS

Workorder: A1204268 Sumter Co Landfill

Lab ID: **A1204268012**

Date Received: 05/23/12 16:47 Matrix: Water

Sample ID: **EQ BLANK**

Date Collected: 05/22/12 09:45

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B		Preparation Method: SW-846 3010A						
Analysis, Total		Analytical Method: SW-846 6020						
Antimony	0.073	ug/L	U	1	0.60	0.073	5/30/2012 00:10	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	5/30/2012 00:10	J
Copper	0.46	ug/L	I	1	0.70	0.10	5/30/2012 00:10	J
Lead	0.076	ug/L	U	1	0.70	0.076	5/30/2012 00:10	J
Selenium	2.2	ug/L	U	1	5.0	2.2	5/30/2012 00:10	J
Silver	0.059	ug/L	U	1	0.30	0.059	5/30/2012 00:10	J
Thallium	0.067	ug/L	U	1	0.20	0.067	5/30/2012 00:10	J
Analysis Desc: SW846 7470A		Preparation Method: SW-846 7470A						
Analysis, Water		Analytical Method: SW-846 7470A						
Mercury	0.014	ug/L	U	1	0.10	0.014	6/5/2012 14:24	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0, Water		Analytical Method: EPA 300.0						
Chloride	0.87	mg/L	U	1	10	0.87	5/24/2012 09:53	A
Fluoride	0.078	mg/L	U	1	0.20	0.078	5/24/2012 09:53	A
Nitrate	0.094	mg/L	U	1	0.20	0.094	5/24/2012 09:53	A
Analysis Desc: Ammonia,E350.1, Water		Analytical Method: EPA 350.1						
Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	5/29/2012 13:43	T
Analysis Desc: Tot Dissolved Solids, SM2540C		Analytical Method: SM 2540C						
Total Dissolved Solids	20	mg/L	U	1	20	20	5/25/2012 13:24	M

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ANALYTICAL RESULTS QUALIFIERS

Workorder: A1204268 Sumter Co Landfill

PARAMETER QUALIFIERS

- U The compound was analyzed for but not detected.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- V Method Blank Contamination
- J3 Lab QC Failure

LAB QUALIFIERS

- A DOH Certification #E53076(AEL-A)(FL NELAC Certification)
- A^ Not Certified
- J DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)
- M DOH Certification #E82535(AEL-M)(FL NELAC Certification)
- T DOH Certification #E84589(AEL-T)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: A1204268 Sumter Co Landfill

QC Batch: WCAm/1619 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Prepared:
Associated Lab Samples: A1204268003, A1204268005, A1204268011, A1204268012

METHOD BLANK: 972707

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Dissolved Solids	mg/L	20	20 U

LABORATORY CONTROL SAMPLE: 972708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Total Dissolved Solids	mg/L	660	640	98	75-125

SAMPLE DUPLICATE: 972709 Original: A1204190001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY					
Total Dissolved Solids	mg/L	420	410	1	5

SAMPLE DUPLICATE: 972710 Original: A1204190015

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY					
Total Dissolved Solids	mg/L	680	690	1	5

QC Batch: WCA1/3852 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: A1204268001, A1204268002, A1204268003, A1204268004, A1204268005, A1204268006

METHOD BLANK: 973167

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Ammonia (N)	mg/L	0.025	0.025 U

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QUALITY CONTROL DATA

Workorder: A1204268 Sumter Co Landfill

LABORATORY CONTROL SAMPLE: 973168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	3	3.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 973169 973170 Original: A1204259001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	14	30	47	46	109	109	90-110	0	10	

QC Batch: WCAI/3853

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Prepared:

Associated Lab Samples: A1204268007, A1204268008, A1204268009, A1204268010, A1204268011, A1204268012

METHOD BLANK: 973171

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	0.025	0.025 U	

LABORATORY CONTROL SAMPLE: 973172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	3	3.1	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 973173 973174 Original: A1204268007

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
WET CHEMISTRY											

Report ID: 214034 - 472031

Page 23 of 61

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QUALITY CONTROL DATA

Workorder: A1204268 Sumter Co Landfill

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 973173 973174 Original: A1204268007

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Ammonia (N)	mg/L	0	3	3.0	3.0	101	100	90-110	1	10	

QC Batch: WCAm/1626

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Prepared:

Associated Lab Samples: A1204268001, A1204268002, A1204268004, A1204268006, A1204268007, A1204268008, A1204268009, A1204268010

METHOD BLANK: 973373

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	20	20 U	

LABORATORY CONTROL SAMPLE: 973374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	660	670	101	75-125	

SAMPLE DUPLICATE: 973375 Original: A1204237002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	520	500	4	5	

SAMPLE DUPLICATE: 973376 Original: A1204268007

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	210	190	9	5 J3	

QC Batch: DGMj/1594

Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A

Prepared: 05/29/2012 08:30

Report ID: 214034 - 472031

Page 24 of 61

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QUALITY CONTROL DATA

Workorder: A1204268 Sumter Co Landfill

Associated Lab Samples: A1204268001, A1204268002, A1204268003, A1204268004, A1204268005, A1204268006, A1204268007,

METHOD BLANK: 973481

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Copper	ug/L	0.10	0.10	U
Arsenic	ug/L	0.36	0.36	U
Selenium	ug/L	2.2	2.2	U
Silver	ug/L	0.059	0.059	U
Antimony	ug/L	0.073	0.073	U
Thallium	ug/L	0.067	0.067	U
Lead	ug/L	0.076	0.076	U

LABORATORY CONTROL SAMPLE & LCSD: 973482 973483

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS										
Copper	ug/L	100	100	100	105	104	80-120	1	20	
Arsenic	ug/L	100	100	100	101	100	80-120	1	20	
Selenium	ug/L	100	110	110	106	106	80-120	0	20	
Silver	ug/L	100	100	100	103	100	80-120	2	20	
Antimony	ug/L	100	100	100	102	101	80-120	1	20	
Thallium	ug/L	100	100	100	102	100	80-120	2	20	
Lead	ug/L	100	100	100	102	100	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 973484 973485 Original: A1204119002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Copper	ug/L	0.61	100	110	100	105	102	75-125	3	20	
Arsenic	ug/L	0.38	100	100	100	104	103	75-125	1	20	
Selenium	ug/L	-0.23	100	100	110	103	107	75-125	3	20	
Silver	ug/L	0.083	100	100	99	101	99	75-125	2	20	
Antimony	ug/L	0.15	100	100	100	104	102	75-125	2	20	
Thallium	ug/L	0.092	100	100	100	102	103	75-125	1	20	
Lead	ug/L	0.21	100	100	100	100	102	75-125	2	20	

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QUALITY CONTROL DATA

Workorder: A1204268 Sumter Co Landfill

QC Batch: WCAa/1570 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: A1204268001, A1204268002, A1204268003, A1204268005, A1204268011, A1204268012

METHOD BLANK: 973515

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Fluoride	mg/L	0.078	0.078 U
Chloride	mg/L	0.87	0.87 U
Nitrate	mg/L	0.094	0.094 U

LABORATORY CONTROL SAMPLE: 973516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Fluoride	mg/L	3	2.9	97	90-110
Chloride	mg/L	30	28	93	90-110
Nitrate	mg/L	3	3.0	99	90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 973517 973518 Original: A1204268001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Fluoride	mg/L	0.13	3	2.9	2.9	94	93	90-110	1	10	
Nitrate	mg/L	2.6	3	5.5	5.5	98	98	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 973519 973520 Original: A1204268002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chloride	mg/L	17	10	27	27	95	96	90-110	0	10	

QC Batch: DGMj/1598 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 05/30/2012 03:30
Associated Lab Samples: A1204268001, A1204268002, A1204268003, A1204268004, A1204268005, A1204268006, A1204268007,

Report ID: 214034 - 472031

Page 26 of 61

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QUALITY CONTROL DATA

Workorder: A1204268 Sumter Co Landfill

METHOD BLANK: 973899

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Aluminum	ug/L	61	61	U
Barium	ug/L	0.28	0.28	U
Beryllium	ug/L	0.13	0.13	U
Cadmium	ug/L	0.32	0.32	U
Cobalt	ug/L	0.60	0.60	U
Chromium	ug/L	0.50	0.50	U
Iron	ug/L	38	38	U
Manganese	ug/L	0.24	0.24	U
Nickel	ug/L	1.1	1.1	U
Vanadium	ug/L	0.18	0.18	U
Zinc	ug/L	2.0	2.0	U
Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Sodium	mg/L	0.032	0.026	I

LABORATORY CONTROL SAMPLE & LCSD: 973900 973901

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS										
Aluminum	ug/L	25000	25000	25000	97	97	80-120	1	20	
Barium	ug/L	400	360	370	91	92	80-120	2	20	
Beryllium	ug/L	400	360	360	90	91	80-120	1	20	
Cadmium	ug/L	400	340	350	86	88	80-120	2	20	
Cobalt	ug/L	400	330	330	82	83	80-120	1	20	
Chromium	ug/L	400	350	360	87	89	80-120	2	20	
Iron	ug/L	25000	23000	24000	92	93	80-120	1	20	
Manganese	ug/L	400	340	340	84	86	80-120	1	20	
Sodium	mg/L	50	51	51	102	101	80-120	1	20	
Vanadium	ug/L	400	370	370	91	93	80-120	1	20	
Zinc	ug/L	400	330	340	83	85	80-120	2	20	

LABORATORY CONTROL SAMPLE & LCSD: 973900 973901

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS										
Nickel	ug/L	400	330	330	83	83	80-120	0	20	

Report ID: 214034 - 472031

Page 27 of 61

CERTIFICATE OF ANALYSIS

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QUALITY CONTROL DATA

Workorder: A1204268 Sumter Co Landfill

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 973902 973903 Original: A1204268001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
METALS											
Aluminum	ug/L	5.7	25000	25000	25000	100	97	75-125	3	20	
Barium	ug/L	13	400	400	400	96	96	75-125	1	20	
Beryllium	ug/L	-0.1	400	400	400	100	99	75-125	1	20	
Cadmium	ug/L	0.061	400	410	400	102	99	75-125	2	20	
Cobalt	ug/L	0.17	400	370	360	92	91	75-125	1	20	
Chromium	ug/L	0.81	400	380	380	94	94	75-125	0	20	
Iron	ug/L	11	25000	26000	25000	102	98	75-125	5	20	
Manganese	ug/L	0.15	400	370	370	92	92	75-125	0	20	
Sodium	mg/L	3.8	50	57	55	105	101	75-125	4	20	
Vanadium	ug/L	1.1	400	380	390	96	97	75-125	1	20	
Zinc	ug/L	9.3	400	390	380	95	93	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 973902 973903 Original: A1204268001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
METALS											
Nickel	ug/L	-0.3	400	330	340	82	84	75-125	2	20	

QC Batch: DGMj/1633

Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A

Prepared: 06/05/2012 08:00

Associated Lab Samples: A1204268001, A1204268002, A1204268003, A1204268004, A1204268005, A1204268006, A1204268007,

METHOD BLANK: 977002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.014	0.014 U	

LABORATORY CONTROL SAMPLE & LCSD: 977003 977004

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS										

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QUALITY CONTROL DATA

Workorder: A1204268 Sumter Co Landfill

LABORATORY CONTROL SAMPLE & LCSD: 977003 977004

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Mercury	ug/L	2	1.9	2.0	95	99	80-120	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 977005 977006 Original: A1204268001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0.0066	2	1.9	2.0	97	101	80-120	3	20	

QC Batch: WCAa/1606

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Prepared:

Associated Lab Samples: A1204268004, A1204268006, A1204268007, A1204268008, A1204268009, A1204268010

METHOD BLANK: 978039

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Fluoride	mg/L	0.078	0.078	U
Chloride	mg/L	0.87	0.87	U
Nitrate	mg/L	0.094	0.094	U

LABORATORY CONTROL SAMPLE: 978040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Fluoride	mg/L	3	2.8	95	90-110	
Chloride	mg/L	30	28	92	90-110	
Nitrate	mg/L	3	2.9	95	90-110	

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QUALITY CONTROL DATA

Workorder: A1204268 Sumter Co Landfill

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 978041 978042 Original: A1204268004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Fluoride	mg/L	0.13	3	2.9	2.8	93	90	90-110	3	10	
Nitrate	mg/L	3.9	3	6.8	6.8	99	98	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 978043 978044 Original: A1204268009

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chloride	mg/L	20	10	31	31	106	108	90-110	1	10	

QUALITY CONTROL DATA QUALIFIERS

Workorder: A1204268 Sumter Co Landfill

QUALITY CONTROL PARAMETER QUALIFIERS

- U The compound was analyzed for but not detected.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J3 Lab QC Failure
- V Method Blank Contamination

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: A1204268 Sumter Co Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
A1204268003	MW-4A			SM 2540C	WCAm/1619
A1204268005	MW-4C			SM 2540C	WCAm/1619
A1204268011	MW-11			SM 2540C	WCAm/1619
A1204268012	EQ BLANK			SM 2540C	WCAm/1619
A1204268001	MW-2			EPA 350.1	WCAm/3852
A1204268002	MW-4			EPA 350.1	WCAm/3852
A1204268003	MW-4A			EPA 350.1	WCAm/3852
A1204268004	MW-4B			EPA 350.1	WCAm/3852
A1204268005	MW-4C			EPA 350.1	WCAm/3852
A1204268006	MW-4D			EPA 350.1	WCAm/3852
A1204268007	MW-6A			EPA 350.1	WCAm/3853
A1204268008	MW-8			EPA 350.1	WCAm/3853
A1204268009	MW-9A			EPA 350.1	WCAm/3853
A1204268010	MW-10			EPA 350.1	WCAm/3853
A1204268011	MW-11			EPA 350.1	WCAm/3853
A1204268012	EQ BLANK			EPA 350.1	WCAm/3853
A1204268001	MW-2			SM 2540C	WCAm/1626
A1204268002	MW-4			SM 2540C	WCAm/1626
A1204268004	MW-4B			SM 2540C	WCAm/1626
A1204268006	MW-4D			SM 2540C	WCAm/1626
A1204268007	MW-6A			SM 2540C	WCAm/1626
A1204268008	MW-8			SM 2540C	WCAm/1626
A1204268009	MW-9A			SM 2540C	WCAm/1626
A1204268010	MW-10			SM 2540C	WCAm/1626
A1204268001	MW-2	SW-846 3010A	DGMj/1594	SW-846 6020	ICMj/1116
A1204268002	MW-4	SW-846 3010A	DGMj/1594	SW-846 6020	ICMj/1116
A1204268003	MW-4A	SW-846 3010A	DGMj/1594	SW-846 6020	ICMj/1116
A1204268004	MW-4B	SW-846 3010A	DGMj/1594	SW-846 6020	ICMj/1116
A1204268005	MW-4C	SW-846 3010A	DGMj/1594	SW-846 6020	ICMj/1116

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: A1204268 Sumter Co Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
A1204268006	MW-4D	SW-846 3010A	DGMj/1594	SW-846 6020	ICMj/1116
A1204268007	MW-6A	SW-846 3010A	DGMj/1594	SW-846 6020	ICMj/1116
A1204268008	MW-8	SW-846 3010A	DGMj/1594	SW-846 6020	ICMj/1116
A1204268009	MW-9A	SW-846 3010A	DGMj/1594	SW-846 6020	ICMj/1116
A1204268010	MW-10	SW-846 3010A	DGMj/1594	SW-846 6020	ICMj/1116
A1204268011	MW-11	SW-846 3010A	DGMj/1594	SW-846 6020	ICMj/1116
A1204268012	EQ BLANK	SW-846 3010A	DGMj/1594	SW-846 6020	ICMj/1116
A1204268001	MW-2			EPA 300.0	WCAa/1570
A1204268002	MW-4			EPA 300.0	WCAa/1570
A1204268003	MW-4A			EPA 300.0	WCAa/1570
A1204268005	MW-4C			EPA 300.0	WCAa/1570
A1204268011	MW-11			EPA 300.0	WCAa/1570
A1204268012	EQ BLANK			EPA 300.0	WCAa/1570
A1204268001	MW-2	SW-846 3010A	DGMj/1598	SW-846 6010	ICPj/1377
A1204268002	MW-4	SW-846 3010A	DGMj/1598	SW-846 6010	ICPj/1377
A1204268003	MW-4A	SW-846 3010A	DGMj/1598	SW-846 6010	ICPj/1377
A1204268004	MW-4B	SW-846 3010A	DGMj/1598	SW-846 6010	ICPj/1377
A1204268005	MW-4C	SW-846 3010A	DGMj/1598	SW-846 6010	ICPj/1377
A1204268006	MW-4D	SW-846 3010A	DGMj/1598	SW-846 6010	ICPj/1377
A1204268007	MW-6A	SW-846 3010A	DGMj/1598	SW-846 6010	ICPj/1377
A1204268008	MW-8	SW-846 3010A	DGMj/1598	SW-846 6010	ICPj/1377
A1204268009	MW-9A	SW-846 3010A	DGMj/1598	SW-846 6010	ICPj/1377
A1204268010	MW-10	SW-846 3010A	DGMj/1598	SW-846 6010	ICPj/1377
A1204268011	MW-11	SW-846 3010A	DGMj/1598	SW-846 6010	ICPj/1377
A1204268012	EQ BLANK	SW-846 3010A	DGMj/1598	SW-846 6010	ICPj/1377
A1204268001	MW-2	SW-846 7470A	DGMj/1633	SW-846 7470A	CVAj/1120
A1204268002	MW-4	SW-846 7470A	DGMj/1633	SW-846 7470A	CVAj/1120
A1204268003	MW-4A	SW-846 7470A	DGMj/1633	SW-846 7470A	CVAj/1120
A1204268004	MW-4B	SW-846 7470A	DGMj/1633	SW-846 7470A	CVAj/1120
A1204268005	MW-4C	SW-846 7470A	DGMj/1633	SW-846 7470A	CVAj/1120
A1204268006	MW-4D	SW-846 7470A	DGMj/1633	SW-846 7470A	CVAj/1120

Report ID: 214034 - 472031

Page 32 of 61

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: A1204268 Sumter Co Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
A1204268007	MW-6A	SW-846 7470A	DGMj/1633	SW-846 7470A	CVAj/1120
A1204268008	MW-8	SW-846 7470A	DGMj/1633	SW-846 7470A	CVAj/1120
A1204268009	MW-9A	SW-846 7470A	DGMj/1633	SW-846 7470A	CVAj/1120
A1204268010	MW-10	SW-846 7470A	DGMj/1633	SW-846 7470A	CVAj/1120
A1204268011	MW-11	SW-846 7470A	DGMj/1633	SW-846 7470A	CVAj/1120
A1204268012	EQ BLANK	SW-846 7470A	DGMj/1633	SW-846 7470A	CVAj/1120
A1204268004	MW-4B			EPA 300.0	WCAa/1606
A1204268006	MW-4D			EPA 300.0	WCAa/1606
A1204268007	MW-6A			EPA 300.0	WCAa/1606
A1204268008	MW-8			EPA 300.0	WCAa/1606
A1204268009	MW-9A			EPA 300.0	WCAa/1606
A1204268010	MW-10			EPA 300.0	WCAa/1606
A1204268001	MW-2	DISRES	FLDa/	DISRES	FLDa/
A1204268002	MW-4	DISRES	FLDa/	DISRES	FLDa/
A1204268003	MW-4A	DISRES	FLDa/	DISRES	FLDa/
A1204268004	MW-4B	DISRES	FLDa/	DISRES	FLDa/
A1204268005	MW-4C	DISRES	FLDa/	DISRES	FLDa/
A1204268006	MW-4D	DISRES	FLDa/	DISRES	FLDa/
A1204268007	MW-6A	DISRES	FLDa/	DISRES	FLDa/
A1204268008	MW-8	DISRES	FLDa/	DISRES	FLDa/
A1204268009	MW-9A	DISRES	FLDa/	DISRES	FLDa/
A1204268010	MW-10	DISRES	FLDa/	DISRES	FLDa/
A1204268011	MW-11	DISRES	FLDa/	DISRES	FLDa/

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Client Name: The Calinas Group, Inc.
Address: 377 N. Highland Ave., Suite 201A
Altamonte Springs, FL 32701
Phone: 407-622-8176
FAX: 407-622-8196
Contact: Rich Potts
Sampled By: Deb Clayton
Turn Around Time: ☒ STANDARD ☐ RUSH
Page 1 of 2

Project Name: Sumter Co. Landfill
P.O. Number/Project Number: 0-453
Project Location: Sumterville, FL
REMARKS/SPECIAL INSTRUCTIONS:

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING		MATRIX	NO. COUNT	ANALYSIS REQUIRED				PRESERVATION	BOTTLE SIZE & TYPE			
			DATE	TIME			GROSS ALPHA	Metals	TDS	Ammonia	FI/CL/NO3				
MW-2		G	5/24/12	1500	GW	6	X	X	X	X	X	X			
MW-4		G	5/24/12	1405	GW	6	X	X	X	X	X	X			
MW-4A		G	5/24/12	1335	GW	6	X	X	X	X	X	X			
MW-4B		G	5/24/12	1205	GW	6	X	X	X	X	X	X			
MW-4C		G	5/24/12	1245	GW	6	X	X	X	X	X	X			
MW-4D		G	5/24/12	1330	GW	6	X	X	X	X	X	X			
MW-6A		G	5/24/12	1500	GW	6	X	X	X	X	X	X			
MW-8		G	5/24/12	1052	GW	6	X	X	X	X	X	X			
MW-9A		G	5/24/12	1008	GW	6	X	X	X	X	X	X			
MW-10		G	5/24/12	1142	GW	6	X	X	X	X	X	X			

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank

Form revised 06/15/2010

Relinquished by: Deb Clayton Date: 5/24/12 Time: 1647
Received by: C. J. Jorgensen Date: 5/24/12 Time: 1607

FOR DRINKING WATER USE:
(When PWS information not otherwise supplied) PWS ID: _____
Contact Person: _____ Phone: _____
Supplier of Water: _____
Site Address: _____

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A 6: 3A M: 1A

Where required, pH checked ☐ Temperature when received 3 (in degrees Celsius)

Preservation Code: I = Ice H = (HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

LABORATORY I.D. NUMBER: A1204268

Page 1 of 2

Thursdays, June 07, 2012 11:17:35 AM

Page 34 of 61

6.00
7.50

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: MW-9A	SAMPLE ID: MW-9A	DATE: 5/23/12	

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 33.58 TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (50.17' feet - 33.58' feet) X 0.0006 gallons/foot = 0.02 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
1 Equip Vol = 0.02 gallons + (0.006 gallons/foot X 45' feet) + 0.125 gallons = 0.30 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~45'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~45'	PURGING INITIATED AT: 0925	PURGING ENDED AT: 0959	TOTAL VOLUME PURGED (gallons): 18.30							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0955	16.30	16.30	1.4	39.21	6.42	25.22	913	0.78	12.7	Clear	Slight
0957	.8	17.10	1.4	39.21	6.44	25.21	908	0.45	15.8	Clear	Sulfur
0959	.8	18.30	1.4	39.20	6.45	25.19	908	0.47	13.5	Clear	Same
No stream											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Clayton, Colinas Group, Inc.		SAMPLER(S) SIGNATURES: <i>[Signature]</i>		SAMPLING INITIATED AT: 1000	SAMPLING ENDED AT: 1008
PUMP OR TUBING DEPTH IN WELL (feet): ~45'		SAMPLE PUMP FLOW RATE (mL per minute):		TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y <input checked="" type="radio"/> N <input type="radio"/>		FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>		FILTER SIZE: 0.45 µm	
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)
MW-9A	2	PE	1 Ltr	HN03	None
"	1	PE	250 mL	H2S04	None
"	1	PE	250 mL	HN03	None
"	1	PE	250 mL	None	None
				FINAL pH	

				Gross Alpha, RA226RA228	
				Total Ammonia	
				Metals	
				Chloride, Fluoride, Nitrate, TDS	
				ESP	

REMARKS:

0925: Inserted 95 ESP and dedicated 3/8" PE tubing to ~45' btlc and started pump @ .5 gpm. This well is typically extremely turbid at beginning of purge and requires over purging at a high flow rate to clean it up.

0937: Turbidity is @ 101 NTUs, continuing purge. Increased flow to 1.75 gpm.

0947: Turbidity is at 74 NTUs, reduced flow to .4 gpm.

0951: Turbidity is @ 19 NTUs, all other parameters are stable or in range. Well is at 39.23 btlc and slowly recovering.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES:	AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING EQUIPMENT CODES:	APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 5/23/12	

PURGING DATA

WELL 2" PVC	TUBING 3/8"	WELL SCREEN INTERVAL	STATIC DEPTH 26.51'	PURGE PUMP TYPE							
DIAMETER (inches):	DIAMETER (inches):	DEPTH: feet to feet	TO WATER (feet):	OR BAILER: ESP PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY											
only fill out if applicable)											
= (45.35' feet - 26.51' feet) X 0.0026 gallons/foot = 0.242 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME											
(only fill out if applicable)											
1 Equip Vol = 0.242 gallons + (0.0026 gallons/foot X 45') + .125 gallons = 1.242 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~40'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~40'	PURGING INITIATED AT: 1113	PURGING ENDED AT: 1128	TOTAL VOLUME PURGED (gallons): 1.50							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1124	1.10	1.10	.1	26.90	6.91	25.57	543	0.48	8.96	Clear	None
1126	.2	1.30	.1	26.90	6.99	25.48	543	0.45	7.77	Clear	None
1128	.2	1.50	.1	26.90	6.99	25.41	540	0.37	6.50	Clear	None
No stream											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.		SAMPLER/SIGNATURES: 		SAMPLING INITIATED AT: 1129	SAMPLING ENDED AT: 1142			
PUMP OR TUBING DEPTH IN WELL (feet): ~40'		SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL		MATERIAL CODE: PE				
FIELD DECONTAMINATION <input checked="" type="checkbox"/> Y W/ nose only		FIELD-FILTERED: <input checked="" type="checkbox"/> Y N FILTER SIZE: µm		DUPLICATE: Y <input checked="" type="checkbox"/> N				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-10	2	PE	1 Ltr	HN03	None	---	Gross Alpha, RA226RA228	DC-ESP APP
"	1	PE	250 mL	H2S04	None	---	Total Ammonia	DC-ESP APP
"	1	PE	250 mL	HN03	None	---	Metals	DC-ESP APP
"	212	PE	250 mL	None	None	---	Chloride, Fluoride, Nitrate, TDS	DC-ESP APP

REMARKS:

1113: Inserted new 1/4" PE tubing to ~40' b/c and started PP @ 1:00 PM.

1118: WL 26.90' @ 1:30 PM, GW is clear.

1128: WL 26.90' @ 1:30 PM, drawdown is stable. All parameters are stable or in range.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: $\pm 5\%$; Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2), optionally, $\pm .02$ mg/L or $\pm 10\%$ (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: MW-2	SAMPLE ID: MW-2	DATE: 5/22/12	

PURGING DATA

WELL 2" PVC	TUBING 3/8"	WELL SCREEN INTERVAL	STATIC DEPTH 27.45'	PURGE PUMP TYPE
DIAMETER (inches):	DIAMETER (inches):	DEPTH: feet to feet	TO WATER (feet):	OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				
only fill out if applicable				
1 Well Vol = (31.92' feet - 27.45' feet) X .16 gallons/foot = .7152 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME				
only fill out if applicable				
1 Equip Vol = .02 gallons + (.006 gallons/foot X feet) + .125 gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~29'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~29'	PURGING INITIATED AT: 1448	PURGING ENDED AT: 1507	TOTAL VOLUME PURGED (gallons): .95

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1503	.75	.75	.05	27.57	6.79	22.90	198	4.80	1.14	Clear	None
1505	.1	.85	.05	27.57	6.77	22.91	195	4.62	0.88	Clear	None
1507	.1	.95	.05	27.57	6.74	22.91	192	4.62	1.21	Clear	None
No Shown											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Clayton, Colinas Group, Inc.		SAMPLER(S) SIGNATURES: 		SAMPLING INITIATED AT: 1508	SAMPLING ENDED AT: 1522
PUMP OR TUBING DEPTH IN WELL (feet): ~29'		SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL		TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N		FIELD-FILTERED: Y N FILTER SIZE: µm		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW-2	2	PE	1 Ltr	HN03	None	---	Gross Alpha, RA228RA228	APP
"	1	PE	250 mL	H2S04	None	---	Total Ammonia	APP
"	1	PE	250 mL	HN03	None	---	Metals	APP
"	2	PE	250 mL	None	None	---	Chloride, Fluoride, Nitrate, TDS	APP

REMARKS:

1448: Set dedicated 1/4" PE tubing @ ~29' GTC and started pump @ 105 gpm.

1458: WL 27.58' @ .05 gpm, GW is clear.

1502: WL 27.57' @ .05 gpm, drawdown is stable. All parameters are stable or in range except for DO @ 4.8 mg/L. This is typical for this well. Will use optional stabilization criteria below.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES:	AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING EQUIPMENT CODES:	APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)


GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: MW-4	SAMPLE ID: MW-4	DATE: 5/22/12	

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 28.84' TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable											
1 Well Vol = (36.35' feet - 28.84' feet) X .16 gallons/foot = 1.2016 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
1 Equip Vol = .02 gallons + (.006 gallons/foot X feet) + .125 gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~30.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~30.5'	PURGING INITIATED AT: 1359	PURGING ENDED AT: 1412	TOTAL VOLUME PURGED (gallons): 3.25							
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1408	2.25	2.25	.25	29.44'	7.21	26.11	547	0.84	6.32	Clear	None
1410	.5	2.75	.25	29.44'	7.20	26.09	548	0.79	5.61	Clear	None
1412	.5	3.25	.25	29.44'	7.20	26.05	549	0.77	5.52	Clear	None
No sheen											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.		SAMPLER(S) SIGNATURES: 		SAMPLING INITIATED AT: 1413	SAMPLING ENDED AT: 1425			
PUMP OR TUBING DEPTH IN WELL (feet): ~30.5'		SAMPLE PUMP FLOW RATE (ml. per minute): < 250 mL		TUBING	MATERIAL CODE: PE			
FIELD DECONTAMINATION: Y N		FIELD-FILTERED: Y N FILTER SIZE: _____ µm		Filtration Equipment Type: _____				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			DUPLICATE: Y N			
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-4	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	---	Ammonia	ESP
"	1	PE	250 mL	HN03	None	---	Metals	ESP
"	2	PE	250 mL	None	None	---	Chloride, Fluoride, Nitrate, TDS	ESP

REMARKS:
1359: Inserted SS ESP and dedicated 3/8" PE tubing to ~30.5' btoe and started pump @ 125 gpm.
1405: WL 29.44' @ .25 gpm, GW is clear.
1407: WL 29.44' @ .25 gpm, drawdown is stable. All parameters are stable or in range.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

5.00

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: MW-4A	SAMPLE ID: MW-4A	DATE: 5/22/12	

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 34.05 TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable)											
= (45.23' feet - 34.05' feet) X 0.02 gallons/foot = 0.22 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME X3 = 1.245 (only fill out if applicable)											
1 Equip Vol = .02 gallons + (.006 gallons/foot X 45' feet) + .125 gallons = .415 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N40'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N40'	PURGING INITIATED AT: 1304	PURGING ENDED AT: 1326	TOTAL VOLUME PURGED (gallons): 8.00							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1322	2.00	2.00	.25	34.18	7.16	26.64	650	0.86	5.11	Clear	None
1324	.5	2.50	.25	34.19	7.12	26.59	650	0.67	3.48	Clear	None
1326	.5	8.00	.25	34.19	7.11	26.55	649	0.59	3.12	Clear	None
No sheen											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.		SAMPLER(S) SIGNATURES: <i>[Signature]</i>		SAMPLING INITIATED AT: 1327	SAMPLING ENDED AT: 1335			
PUMP OR TUBING DEPTH IN WELL (feet): N40'		SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL		TUBING MATERIAL CODE: PE				
FIELD DECONTAMINATION: Y N		FIELD-FILTERED: Y N FILTER SIZE: µm		DUPLICATE: Y N				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	SAMPLING EQUIPMENT CODE	
MW-4A	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228	
"	1	PE	250 mL	H2S04	None	---	ESP	
"	1	PE	250 mL	HN03	None	---	Total Ammonia Metals	
"	2	PE	250 mL	None	None	---	Chloride, Fluoride, Nitrate, TDS	
ESP								

REMARKS:

1304: Inserted ESP and dedicated 3/8" PE tubing to N40' Sta and started pump @ .15 gpm. This well is typically turbid at start of purge and required over purging at a high rate of flow to clean it up.

1314: Turbidity is @ 45 NTUs, reduced flow to .25 gpm.

1317: WL 34.17' @ .25 gpm. Turbidity is @ 11 NTUs.

1320: WL 34.18' @ .25 gpm, drawdown is stable. All parameters are stable or in range.

- Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: MW-4B	SAMPLE ID: MW-4B	DATE: 5/23/12	

PURGING DATA

WELL 2" PVC	TUBING 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 32.15 TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
$1 \text{ Well Vol} = (38.49' \text{ feet} - 32.15' \text{ feet}) \times .16 \text{ gallons/foot} = 1.0144 \text{ gallons}$				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
$1 \text{ Equip Vol} = .02 \text{ gallons} + (.006 \text{ gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~34'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~34'	PURGING INITIATED AT: 1202	PURGING ENDED AT: 1215	TOTAL VOLUME PURGED (gallons): 2.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1211	1.80	1.80	.2	32.30	8.54	25.70	146	4.48	2.67	Clear	None
1213	.4	2.20	.2	32.32	8.61	25.67	145	4.26	2.46	Clear	None
1215	.4	2.60	.2	32.39	8.69	25.71	148	4.77	2.13	Clear	None
No Sheen											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.		SAMPLER(S) SIGNATURES: 		SAMPLING INITIATED AT: 1216	SAMPLING ENDED AT: 1225
PUMP OR TUBING DEPTH IN WELL (feet): ~34'		SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL		TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N		FIELD-FILTERED: (Y) N FILTER SIZE: _____ µm		DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW-4B	2	PE	1 Ltr	HN03	None	—	Gross Alpha, RA226RA228	ESP
"	1	PE	250 mL	H2SO4	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	2	PE	250 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP

REMARKS:
1202: Inserted SS ESP and dedicated 3/8" PE tubing to ~34' btoe and started pump @ 12:05pm.
1208: WL 32.30' @ .2 gpm, GW is clear. DO is high @ 4.71 mg/L, but is typical for this well. Will use optional stabilization criteria below.
1210: WL 32.30' @ .2 gpm, drawdown is stable. All parameters are stable or in range.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
EQUIPMENT CODES: RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3): H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater);

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: MW-4C		SAMPLE ID: MW-4C	
		DATE: 5/22/12	

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/4" 1/4" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 29.53 TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP APP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable)											
= (44.62' feet - 29.53' feet) X 100.26 gallons/foot = 1502.6 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
1 Equip Vol = 0.22 gallons + (100.26 gallons/foot X 44' feet) + .125 gallons = 4.23 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~39'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~39'	PURGING INITIATED AT: 1118	PURGING ENDED AT: 1232	TOTAL VOLUME PURGED (gallons): 4.23							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1228	3.99	3.99	0.06	29.74	7.18	26.89	500	1.51	20.0	Clear	None
1230	0.12	4.11	0.06	29.74	7.20	26.83	499	1.40	19.6	Clear	None
1232	0.12	4.23	0.06	29.74	7.21	26.77	499	1.35	16.8	Clear	None
No stream											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.		SAMPLER(S) SIGNATURES: 		SAMPLING INITIATED AT: 1233	SAMPLING ENDED AT: 1245			
PUMP OR TUBING DEPTH IN WELL (feet): ~39'		SAMPLE PUMP FLOW RATE (ml per minute): < 250 mL		TUBING MATERIAL CODE: PE				
FIELD DECONTAMINATION: Y N		FIELD-FILTERED: Y N		FILTER SIZE: 0.45 µm				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		DUPLICATE: Y N				
SAMPLE ID CODE	# CONTAINERS	MATERIAL AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-4C	2	PE	1 Ltr	HN03	None	---	Gross Alpha, RA228RA228	ESP APP
"	1	PE	250 mL	H2SO4	None	---	Ammonia	ESP APP
"	1	PE	250 mL	HN03	None	---	Metals	ESP APP
"	2	PE	500 mL	None	None	---	Chloride, Fluoride, Nitrate, TDS	ESP APP

REMARKS:
1118: Inserted new 1/4" PE tubing for ~39' btoC and started pump @ .06 gpm.
1128: GW is extremely turbid at 1000+ NTUs, continuing purge.
1135: Turbidity is @ 119 NTUs, continuing purge. WL 29.76' btoC @ .06 gpm.
1145: Turbidity is @ 59 NTUs, continuing purge. WL 29.76' @ .06 gpm, drawdown is stable.
1150: Turbidity is @ 49 NTUs, reduced flow to .03 gpm.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

(OVER)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
EQUIPMENT CODES: RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: **Sumter County Landfill** SITE LOCATION: **Sumterville, FL**
WELL NO: **MW-4D** SAMPLE ID: **MW-4D** DATE: **5/23/12**

PURGING DATA

WELL 2" PVC TUBING 3/8" WELL SCREEN INTERVAL DEPTH: feet to feet STATIC DEPTH 31.95' PURGE PUMP TYPE OR BAILER: **ESP**

DIAMETER (inches): DIAMETER (inches):
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable

= (**44.62'** feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

1 Equip Vol = .02 gallons + (.006 gallons/foot X **44'**) + .125 gallons = **1.227** gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **~39'** FINAL PUMP OR TUBING DEPTH IN WELL (feet): **~39'** PURGING INITIATED AT: **1246** PURGING ENDED AT: **1321** TOTAL VOLUME PURGED (gallons): **23.90**

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1317	81.90	21.90	.5	32.10	7.83	25.44	357	3.83	13.9	Clear	None
1319	1	22.90	.5	32.09	7.79	25.41	357	3.25	13.1	Clear	None
1321	1	23.90	.5	32.10	7.75	25.22	358	3.78	11.3	Clear	None
No screen											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.68
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: **Dale Claytor, Colinas Group, Inc.** SIGNATURE: *[Signature]*

PUMP OR TUBING DEPTH IN WELL (feet): **~39'** SAMPLE PUMP FLOW RATE (ml per minute): **< 250 mL** SAMPLING INITIATED AT: **1322** SAMPLING ENDED AT: **1400**

FIELD DECONTAMINATION: ☒ Y ☐ N FIELD-FILTERED: ☒ Y ☐ N FILTER SIZE: **μm** MATERIAL CODE: **PE** DUPLICATE: ☒ Y ☐ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW-4D	2	PE	1 Ltr	HN03	None	---	Gross Alpha, RA226RA228	ESP
"	1	PE	250 mL	H2SO4	None	---	Ammonia	ESP
"	1	PE	250 mL	HN03	None	---	Metals	ESP
"	2	PE	250 mL	None	None	---	Chloride, Fluoride, Nitrate, TDS	ESP

REMARKS:

1246: Inserted SS ESP and dedicated 3/8" PE tubing to ~39' b/c and started pump @ .6 gpm.

1254: Turbidity is @ 117 NTUs, increased flow to 1.3 gpm.

1301: Turbidity is @ 108 NTUs, reduced flow to .5 gpm.

1306: Turbidity is @ 40 NTUs, continuing purge at .5 gpm. WL 32.11' @ .5 gpm.

1314: WL 32.10' @ .5 gpm, drawdown is stable. Turbidity is @ 18 NTUs. DO is high @ 3.91 mg/L, but appears normal for this well. All other parameters are stable or in range.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3): pH: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: MW-6A		SAMPLE ID: MW-6A	
		DATE: 5/23/12	

PURGING DATA

WELL 2" PVC		TUBING 3/8"		WELL SCREEN INTERVAL		STATIC DEPTH 35.72'		PURGE PUMP TYPE			
DIAMETER (inches):		DIAMETER (inches):		DEPTH: feet to feet		TO WATER (feet):		OR BAILER: ESP			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY											
= (50.84' feet - 35.72' feet) X 0.006 gallons/foot = 0.09 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME											
(only fill out if applicable) 1 Equip Vol = .02 gallons + (.006 gallons/foot X 50' feet) + .125 gallons = 0.445 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~44'		FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~44'		PURGING INITIATED AT: 1422		PURGING ENDED AT: 1450		TOTAL VOLUME PURGED (gallons): 16.5			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1446	14.5	14.5	.5	35.84	7.89	25.00	265	6.93	14.0	Clear	None
1448	1	15.5	.5	35.84	7.84	24.96	265	6.88	11.5	Clear	None
1450	1	16.5	.5	35.83	7.83	24.92	265	6.88	10.5	Clear	None
No Show											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.		SAMPLER(S) SIGNATURES: 		SAMPLING INITIATED AT: 1451		SAMPLING ENDED AT: 1500	
PUMP OR TUBING DEPTH IN WELL (feet): ~44'		SAMPLE PUMP		FLOW RATE (ml per minute): < 250 mL		TUBING	
FIELD DECONTAMINATION: <input checked="" type="radio"/> Y <input type="radio"/> N		FIELD FILTERED: <input checked="" type="radio"/> Y <input type="radio"/> N		FILTER SIZE: 0.45 µm		MATERIAL CODE: PE	
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION				DUPLICATE: <input checked="" type="radio"/> Y <input type="radio"/> N	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD
MW-6A	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228
"	1	PE	250 mL	H2SO4	None	---	Total Ammonia
"	1	PE	250 mL	HN03	None	---	Metals
"	1	PE	250 mL	None	None	---	Chloride, Fluoride, Nitrate, TDS

REMARKS:

1422: Inserted SS ESP and dedicated 3/8" PE tubing to ~44' btoe and started pump @ **1 gpm**.

1427: Turbidity is at 52 NTUs, reduced flow to .5 gpm. This well typically requires over purging at a high flow rate to clean up turbidity.

1437: Turbidity is @ 26 NTUs, continuing purge @ .5 gpm. WL 35.85' @ .5 gpm.

1443: Turbidity is @ 19 NTUs. DO is high @ 7.22 mg/L, but is typical for the well. WL 35.84' and is stable. All other parameters are in range or stable. Will use optional wipe to below.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)	
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump	
EQUIPMENT CODES: RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)	

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3): pH: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: MW-8	SAMPLE ID: MW-8	DATE: 5/23/12	

PURGING DATA

WELL 2" PVC	TUBING 3/8" 1/4"	WELL SCREEN INTERVAL	STATIC DEPTH 26.53	PURGE PUMP TYPE							
DIAMETER (inches):	DIAMETER (inches):	DEPTH: feet to feet	TO WATER (feet):	OR BAILER: ESP PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY											
= (43.24' feet - 26.53' feet) X 0.0026 gallons/foot = 0.045 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME											
(only fill out if applicable) 1 Equip Vol = 0.002 gallons + (0.0026 gallons/foot X 43') + .125 gallons = 0.238 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~38'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~38'	PURGING INITIATED AT: 1029	PURGING ENDED AT: 1041	TOTAL VOLUME PURGED (gallons): 1.20							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1037	.80	.80	.1	26.54'	7.27	24.42	342	4.80	2.77	Clear	None
1039	.2	1.00	.1	26.54'	7.29	24.38	342	4.91	3.23	Clear	None
1041	.2	1.20	.1	26.54'	7.30	24.38	341	4.85	3.29	Clear	None
No Show											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Clayton, Colinas Group, Inc.		SAMPLER(S) SIGNATURES: <i>[Signature]</i>		SAMPLING INITIATED AT: 1042	SAMPLING ENDED AT: 1052			
PUMP OR TUBING DEPTH IN WELL (feet): ~38'		SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL		TUBING MATERIAL CODE: PE				
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> N W/ Probe only		FIELD-FILTERED: <input checked="" type="checkbox"/> N Filter Size: _____ µm		DUPLICATE: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-8	2	PE	1 Ltr	HN03	None	---	Gross Alpha, RA228RA228	ESP APP
"	1	PE	250 mL	H2S04	None	---	Total Ammonia	ESP APP
"	1	PE	250 mL	HN03	None	---	Metals	ESP APP
"	2	PE	250 mL	None	None	---	Chloride, Fluoride, Nitrate, TDS	ESP APP

REMARKS:
1029: Inserted new 1/4" PE tubing to ~38' btec and started PP @ .1 gpm.
1034: WL 26.54' @ .1 gpm, GW is clear. DO is high @ 5.11 mg/L, but is typical for this well. Will use optional stabilization criteria below.
1036: WL 26.54' @ .1 gpm, drawdown is stable. All parameters are stable or in range.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
 2) Packed samples on ice immediately upon collection


MATERIAL CODES:	AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING EQUIPMENT CODES:	APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3): pH: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill				LOCATION: Sumterville, FL							
WELL NO: MW-11				SAMPLE ID: MW-11							
DATE: 5/22/12											
PURGING DATA											
WELL 2" PVC		TUBING 3/8"		WELL SCREEN INTERVAL		STATIC DEPTH 28.62					
DIAMETER (inches):		DIAMETER (inches):		DEPTH: feet to feet		TO WATER (feet):					
PURGE PUMP TYPE OR BAILER: ESP											
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable) = (40.15' feet - feet) X gallons/foot = gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) 1 Equip Vol = .02 gallons + (.006 gallons/foot X 40' feet) + .125 gallons = .385 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~35'		FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~35'		PURGING INITIATED AT: 1019		PURGING ENDED AT: 1036					
						TOTAL VOLUME PURGED (gallons): 6.50					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1032	5.50	5.50	.25	28.85	6.53	25.25	553	0.97	13.6	Clear	None
1034	.5	6.00	.25	28.83	6.55	25.82	552	0.80	13.1	Clear	None
1036	.5	6.50	.25	6.55	6.55	25.25	555	0.73	14.0	Clear	None
No shown											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.018											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.				SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT: 1037 TUBING		SAMPLING ENDED AT: 1045	
PUMP OR TUBING DEPTH IN WELL (feet): ~35'				SAMPLE PUMP FLOW RATE (gal per minute): < 250 mL			MATERIAL CODE: PE			
FIELD DECONTAMINATION: <input checked="" type="radio"/> Y <input type="radio"/> N				FIELD-FILTERED: <input checked="" type="radio"/> Y <input type="radio"/> N Filtration Equipment Type: _____			FILTER SIZE: _____ µm DUPLICATE: <input type="radio"/> Y <input checked="" type="radio"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW-11	2	PE	1 Ltr	HN03	None	---	Gross Alpha, RA226, RA228		ESP	
"	1	PE	250 mL	H2SO4	None	---	Total Ammonia		ESP	
"	1	PE	250 mL	HN03	None	---	Metals		ESP	
"	2	PE	250 mL	None	None	---	Chloride, Fluoride, Nitrate, TDS		ESP	

REMARKS: 1019: Inserted SS ESP and dedicated 3/8" PE tubing for N35.6 to C and started pump @ .5 gpm. This well typically has high turbidity at beginning of purge requiring over purging at a high flow rate to clean it up.

1028: Turbidity is @ 20 NTUs, reduced flow to 0.25 gpm.

1030: w 28.85 @ 25 gpm, turbidity is @ 11 NTUs. All other parameters are stable or in range. Drawdown is stable.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)


SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: $\pm 5\%$; Dissolved Oxygen: all readings $\geq 20\%$ saturation (see Table FS 2200-2), optionally, $\pm .02$ mg/L or $\pm 10\%$ (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or $\pm 10\%$ (whichever is greater).

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: NA	SAMPLE ID: EQB	DATE: 5/22/18	

[illegible]

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.				SAMPLER(S) SIGNATURES: 			SAMPLING INITIATED AT: 0940		SAMPLING ENDED AT: 0945		
PUMP OR TUBING DEPTH IN WELL (feet):				SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL			TUBING		MATERIAL CODE: PE		
FIELD DECONTAMINATION: Y N				FIELD-FILTERED: Y N FILTER SIZE: _____ µm			DUPLICATE: Y N				
FIELD FILTRATION EQUIPMENT TYPE: _____											
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
EQB	2	PE	1 Ltr	HN03	None	---	Gross Alpha, RA226RA228	ESP			
"	1	PE	250 mL	H2SO4	None	---	Total Ammonia	ESP			
"	1	PE	250 mL	HN03	None	---	Metals	ESP			
"	2 bc	PE	250 mL	None	None	---	Chloride, Fluoride, Nitrate, TDS	ESP			
Various				Various	None	---	Appendix I Parameters	ESP			

REMARKS:

Field deconed 5 gallon PE bucket, SS ESP and WL probe IAW DEP-SOP-001/01, FC 100D. Poured 1.5 gallons of DI Water into PE bucket and inserted SS ESP and WL probe. Circulated DI Water through pump and over wet probe for ~4 minutes and collected EOR samples.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. **STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H:** ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: $\pm 5\%$; Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater); Turbidity: all readings ≤ 20 NTU (nationally ≤ 5 NTU) or $\pm 10\%$ (whichever is greater)



Report Date: June 4, 2012

2742 N. Florida Ave.
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879
Fax (813) 229-0002

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1204268001
MW-2
Sample Collection: 05-22-12/1522
Lab ID No: 12.4661
Lab Custody Date: 05-25-12/1500
Sample description: WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	1.8 ± 0.8	05-30-12/0800	EPA 900.0	0.9
Combined Radium (Radium-226 + Radium 228)	pCi/l	0.4 ± 0.7	Calc	Calc	1.0
Radium-226	pCi/l	0.4 ± 0.4	06-01-12/1210	EPA 903.0	0.6
Radium-228	pCi/l	0.0 ± 0.7	06-01-12/1150	EPA Ra-05	1.0

Alpha Standard: Th-230

A handwritten signature in black ink, reading "James W. Hayes".

James W. Hayes
Laboratory Manager

Test results meet all requirements of NELAC standards. Test results refer only to sample(s) listed. Contact person: Jim Hayes (813) 229-2879.



LABORATORY SERVICES

2742 N. Florida Ave.
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879
Fax (813) 229-0002

Report Date: June 4, 2012

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1204268002
MW-4
Sample Collection: 05-22-12/1425
Lab ID No: 12.4662
Lab Custody Date: 05-25-12/1500
Sample description: WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	4.1 ± 1.9	05-30-12/0800	EPA 900.0	1.5
Combined Radium (Radium-226 + Radium 228)	pCi/l	2.4 ± 0.8	Calc	Calc	1.0
Radium-226	pCi/l	2.0 ± 0.7	06-01-12/1210	EPA 903.0	0.6
Radium-228	pCi/l	0.4 ± 0.8	06-01-12/1150	EPA Ra-05	1.0

Alpha Standard: Th-230

James W. Hayes
Laboratory Manager

Test results meet all requirements of NELAC standards. Test results refer only to sample(s) listed. Contact person: Jim Hayes (813) 229-2879.



2742 N. Florida Ave.
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879
Fax (813) 229-0002

Report Date: June 4, 2012

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1204268003
MW-4A
Sample Collection: 05-22-12/1335
Lab ID No: 12.4663
Lab Custody Date: 05-25-12/1500
Sample description: WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	5.0 ± 1.6	05-30-12/0800	EPA 900.0	1.5
Combined Radium (Radium-226 + Radium 228)	pCi/l	1.7 ± 0.7	Calc	Calc	1.0
Radium-226	pCi/l	1.7 ± 0.7	06-01-12/1210	EPA 903.0	0.6
Radium-228	pCi/l	0.0 ± 0.6	06-01-12/1150	EPA Ra-05	1.0

Alpha Standard: Th-230

A handwritten signature in black ink that reads "James W. Hayes". The signature is written in a cursive style with a large, stylized "J" and "H".

James W. Hayes
Laboratory Manager

Test results meet all requirements of NELAC standards. Test results refer only to sample(s) listed. Contact person: Jim Hayes (813) 229-2879.



LABORATORY SERVICES

2742 N. Florida Ave.
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Tampa, Florida 33601
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Fax (813) 229-0002

Report Date: June 4, 2012

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1204268004
MW-4B
Sample Collection: 05-23-12/1225
Lab ID No: 12.4664
Lab Custody Date: 05-25-12/1500
Sample description: WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	3.2 ± 1.0	05-30-12/0800	EPA 900.0	0.9
Combined Radium (Radium-226 + Radium 228)	pCi/l	0.5 ± 0.7	Calc	Calc	1.0
Radium-226	pCi/l	0.4 ± 0.4	06-01-12/1210	EPA 903.0	0.6
Radium-228	pCi/l	0.1 ± 0.7	06-01-12/1150	EPA Ra-05	1.0

Alpha Standard: Th-230

James W. Hayes
Laboratory Manager

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Report Date: June 4, 2012

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1204268005
MW-4C
Sample Collection: 05-22-12/1245
Lab ID No: 12.4665
Lab Custody Date: 05-25-12/1500
Sample description: WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	10.8 ± 1.8	05-30-12/0800	EPA 900.0	1.2
Combined Radium (Radium-226 + Radium 228)	pCi/l	1.8 ± 0.7	Calc	Calc	1.0
Radium-226	pCi/l	1.8 ± 0.7	06-01-12/1210	EPA 903.0	0.7
Radium-228	pCi/l	0.0 ± 0.7	06-01-12/1150	EPA Ra-05	1.0

Alpha Standard: Th-230

James W. Hayes
Laboratory Manager

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Report Date: June 4, 2012

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1204268006
MW-4D
Sample Collection: 05-23-12/1330
Lab ID No: 12.4666
Lab Custody Date: 05-25-12/1500
Sample description: WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	2.8 ± 1.1	05-30-12/0800	EPA 900.0	1.1
Combined Radium (Radium-226 + Radium 228)	pCi/l	1.2 ± 0.7	Calc	Calc	1.0
Radium-226	pCi/l	1.2 ± 0.5	06-01-12/1210	EPA 903.0	0.6
Radium-228	pCi/l	0.0 ± 0.7	06-01-12/1150	EPA Ra-05	1.0

Alpha Standard: Th-230

James W. Hayes
Laboratory Manager

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Report Date: June 4, 2012

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1204268007
MW-6A
Sample Collection: 05-23-12/1500
Lab ID No: 12.4667
Lab Custody Date: 05-25-12/1500
Sample description: WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	2.1 ± 0.9	05-30-12/0800	EPA 900.0	1.0
Combined Radium (Radium-226 + Radium 228)	pCi/l	0.7 ± 0.7	Calc	Calc	1.0
Radium-226	pCi/l	0.7 ± 0.5	06-01-12/1210	EPA 903.0	0.6
Radium-228	pCi/l	0.0 ± 0.7	06-01-12/1150	EPA Ra-05	1.0

Alpha Standard: Th-230

James W. Hayes
Laboratory Manager

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Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1204268008
MW-8
Sample Collection: 05-23-12/1052
Lab ID No: 12.4668
Lab Custody Date: 05-25-12/1500
Sample description: WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	3.1 ± 1.1	05-30-12/0800	EPA 900.0	1.1
Combined Radium (Radium-226 + Radium 228)	pCi/l	1.2 ± 0.7	Calc	Calc	1.0
Radium-226	pCi/l	1.2 ± 0.5	06-01-12/1210	EPA 903.0	0.5
Radium-228	pCi/l	0.0 ± 0.7	06-01-12/1150	EPA Ra-05	1.0

Alpha Standard: Th-230

A handwritten signature in black ink that reads "James W. Hayes". The signature is written in a cursive style with a large, stylized "J" and "H".

James W. Hayes
Laboratory Manager

Test results meet all requirements of NELAC standards. Test results refer only to sample(s) listed. Contact person: Jim Hayes (813) 229-2879.



Report Date: June 4, 2012

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Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1204268009
MW-9A
Sample Collection: 05-23-12/1008
Lab ID No: 12.4669
Lab Custody Date: 05-25-12/1500
Sample description: WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	12.7 ± 2.7	05-30-12/0800	EPA 900.0	2.1
Combined Radium (Radium-226 + Radium 228)	pCi/l	6.3 ± 1.1	Calc	Calc	1.0
Radium-226	pCi/l	5.5 ± 1.1	06-01-12/1210	EPA 903.0	0.7
Radium-228	pCi/l	0.8 ± 0.7	06-01-12/1150	EPA Ra-05	1.0

Alpha Standard: Th-230

A handwritten signature in cursive script, reading "James W. Hayes".

James W. Hayes
Laboratory Manager

Test results meet all requirements of NELAC standards. Test results refer only to sample(s) listed. Contact person: Jim Hayes (813) 229-2879.



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Report Date: June 4, 2012

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Field Custody: Client
Client/Field ID: A1204268010
MW-10
Sample Collection: 05-23-12/1142
Lab ID No: 12.4670
Lab Custody Date: 05-25-12/1500
Sample description: WATER

Attn: Myrna Santiago

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	12.1 ± 2.1	05-30-12/0800	EPA 900.0	1.4
Combined Radium (Radium-226 + Radium 228)	pCi/l	3.1 ± 0.9	Calc	Calc	1.0
Radium-226	pCi/l	2.8 ± 0.9	06-02-12/1405	EPA 903.0	0.8
Radium-228	pCi/l	0.3 ± 0.8	06-04-12/1030	EPA Ra-05	1.0

Alpha Standard: Th-230

James W. Hayes
Laboratory Manager

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Report Date: June 4, 2012

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1204268011
MW-11
Sample Collection: 05-22-12/1045
Lab ID No: 12.4671
Lab Custody Date: 05-25-12/1500
Sample description: WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	15.4 ± 2.4	05-30-12/0800	EPA 900.0	1.6
Combined Radium (Radium-226 + Radium 228)	pCi/l	5.0 ± 1.0	Calc	Calc	1.0
Radium-226	pCi/l	4.4 ± 1.0	06-02-12/1405	EPA 903.0	0.7
Radium-228	pCi/l	0.6 ± 0.8	06-04-12/1030	EPA Ra-05	1.0

Alpha Standard: Th-230

A handwritten signature in black ink, reading "James W. Hayes".

James W. Hayes
Laboratory Manager

Test results meet all requirements of NELAC standards. Test results refer only to sample(s) listed. Contact person: Jim Hayes (813) 229-2879.



LABORATORY SERVICES

2742 N. Florida Ave.
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Tampa, Florida 33601
(813) 229-2879
Fax (813) 229-0002

Report Date: June 4, 2012

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1204268012
EQ BLANK
Sample Collection: 05-22-12/0945
Lab ID No: 12.4672
Lab Custody Date: 05-25-12/1500
Sample description: WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	0.4 ± 0.6	05-30-12/0800	EPA 900.0	0.8
Combined Radium (Radium-226 + Radium 228)	pCi/l	0.2 ± 0.6	Calc	Calc	1.0
Radium-226	pCi/l	0.0 ± 0.2	06-02-12/1405	EPA 903.0	0.6
Radium-228	pCi/l	0.2 ± 0.6	06-04-12/1030	EPA Ra-05	1.0

Alpha Standard: Th-230

James W. Hayes
Laboratory Manager

Test results meet all requirements of NELAC standards. Test results refer only to sample(s) listed. Contact person: Jim Hayes (813) 229-2879.

Chain of Custody

Document 19641 - HBN 14868

Workorder

Sumter Co Landfill

Results Requested By 6/3/2012

Report To: Myrna Santiago
Advanced Environmental Laboratories, Inc
528 S. North Lake Blvd, Suite 1016
Altamonte Springs, FL 32701
Phone (407)937-1594
Fax (407)937-1597

Subcontract To: KNL-FL
KNL Laboratory Services, Inc.
2742 North Florida Avenue
Tampa, FL 33602
Phone
Fax

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	HNO3	Preserved Containers					EPA 903.1	EPA 905	EPA 900	Requested Analysis					LAB USE ONLY
1	MW-2	5/22/2012 15:22	A1204268001	Water	2						X	X	X						
2	MW-4	5/22/2012 14:25	A1204268002	Water	2						X	X	X						
3	MW-4A	5/22/2012 13:35	A1204268003	Water	2						X	X	X						
4	MW-4B	5/23/2012 12:25	A1204268004	Water	2						X	X	X						
5	MW-4C	5/22/2012 12:45	A1204268005	Water	2						X	X	X						
6	MW-4D	5/23/2012 13:30	A1204268006	Water	2						X	X	X						
7	MW-6A	5/23/2012 15:00	A1204268007	Water	2						X	X	X						
8	MW-8	5/23/2012 10:52	A1204268008	Water	2						X	X	X						
9	MW-9A	5/23/2012 10:08	A1204268009	Water	2						X	X	X						
10	MW-10	5/23/2012 11:42	A1204268010	Water	2						X	X	X						
11	MW-11	5/22/2012 10:45	A1204268011	Water	2						X	X	X						
12	EQ BLANK	5/22/2012 09:45	A1204268012	Water	2						X	X	X						

Due: 6-7-12

12.4661-72

Chain of Custody

Document 19641 - HBN 14868

Workorder

Sumter Co Landfill

Results Requested By 6/3/2012

Report To: Myrna Santiago
Advanced Environmental Laboratories, Inc.
6601 Southpoint Parkway
Jacksonville, FL 32216
Phone (904)363-9350
Fax (904)363-9354

Subcontract To: KNL-FL
KNL Laboratory Services, Inc.
2742 North Florida Avenue
Tampa, FL 33602
Phone
Fax

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers			Requested Analysis			LAB USE ONLY					
					HNO3			EPA 808.1	EPA 809.05	EPA 800						
13																
14																
15																
16																
Report					Electronic Data Deliverables			Comments								
<input type="checkbox"/> Standard (Results only) <input type="checkbox"/> Standard with Batch QC <input type="checkbox"/> CLP <input type="checkbox"/> Other _____					<input type="checkbox"/> SEDD Stage 2A <input type="checkbox"/> SEDD Stage 2B <input type="checkbox"/> SEDD Stage 3 <input type="checkbox"/> Other _____											
Preservative HNO3 = HNO3																
Transfers					Released By			Date/Time			Received By			Date/Time		
1					[Signature]			5/24/12			[Signature]			5/24/12		
2																
3														5-25-12		
4																
5														1500		