



EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-02A	EA Personnel: H. Williams and F. DeSantis	Client: NYSDEC - Lackawanna Former Incinerator Site
Location: Lackawanna, NY	Well Condition: Good	Weather: Overcast, cool, ~35°F
Sounding Method: Solinst WLM	Gauge Date: 29-Nov-12 Gauge Time: 820	Measurement Ref: TOC
Stick Up/Down (ft): Up ~2ft.	PID Headspace Reading: NA	Well Diameter (in): 2"

Purge Date: 29-Nov-12	Purge Time: 825
Purge Method: Low Flow	Field Technician: H. Williams and F. DeSantis

Well Volume

A. Well Depth (ft): 32.27	D. Well Volume (ft): 0.40	Depth/Height of Top of PVC: Up ~2 ft.
B. Depth to Water (ft): 13.84	E. Well Volume (gal) (C*D): 7.40	Pump Type: Grundfos Submersible Pump
C. Liquid Depth (ft) (A-B): 18.43	F. Three Well Volumes (gal) (E3): 22.21	Pump Intake Depth: 27'

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
825	---	---	---	---	---	---	13.84	0.3	0.0
828	5.95	0.618	23.8	7.12	11.07	199	15.17	0.3	0.9
831	6.59	0.606	55.6	0.60	11.05	146	15.86	0.3	1.8
834	6.80	0.600	28.7	0.00	10.96	103	16.50	0.3	2.7
837	6.90	0.605	5.2	0.00	10.12	85	17.04	0.3	3.6
840	6.95	0.600	5.5	0.00	10.74	73	17.21	0.3	4.5
843	7.00	0.595	5.0	0.00	10.88	64	17.73	0.3	5.4
846	7.03	0.608	3.1	0.00	10.20	64	18.02	0.3	6.3
849	7.05	0.591	2.7	0.00	11.20	60	18.34	0.3	7.2
852	7.08	0.603	3.1	0.00	10.65	61	18.34	0.3	8.1
855	7.10	0.611	3.3	0.00	9.91	62	18.67	0.3	9.0

Total Quantity of Water Removed (gal): 2.4	Sampling Time: 900
Samplers: H. Williams and F. DeSantis	Split Sample With: NA
Sampling Date: 29-Nov-12	Sample Type: Grab

COMMENTS AND OBSERVATIONS:



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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-03A	EA Personnel: H. Williams and F. DeSantis	Client: NYSDEC - Lackawanna Former Incinerator Site
Location: Lackawanna, NY	Well Condition: Good	Weather: Overcast, some snow on ground, snowing, ~35°F
Sounding Method: Solinst WLM	Gauge Date: 28-Nov-12	Measurement Ref: TOC
	Gauge Time: 809	
Stick Up/Down (ft): Down ~0.3 ft	PID Headspace Reading: NA	Well Diameter (in): 2"

Purge Date: 28-Nov-12	Purge Time: 845
Purge Method: Low Flow	Field Technician: H. Williams and F. DeSantis

Well Volume		
A. Well Depth (ft): 29.92	D. Well Volume (ft): 0.49	Depth/Height of Top of PVC: Down ~0.3 ft
B. Depth to Water (ft): 7.53	E. Well Volume (gal) (C*D): 10.93	Pump Type: Grundfos Submersible Pump
C. Liquid Depth (ft) (A-B): 22.39	F. Three Well Volumes (gal) (E3): 32.79	Pump Intake Depth: 25'

Water Quality Parameters									
Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
845	---	---	---	---	---	---	7.53	0.3	0.0
848	8.43	1.87	16.4	0.00	11.89	17	8.54	0.3	0.9
851	8.18	1.86	16.1	0.00	11.96	11	8.91	0.3	1.8
854	8.06	1.85	16.9	0.00	12.15	2	9.38	0.3	2.7
857	7.97	1.82	17.7	0.00	12.96	-12	10.04	0.3	3.6
900	7.93	1.85	17.8	0.00	12.94	-16	10.40	0.3	4.5
903	7.90	1.84	16.7	0.00	13.18	-20	10.81	0.3	5.4
906	7.88	1.84	16.4	0.00	13.01	-22	11.17	0.3	6.3
909	7.87	1.84	16.8	0.00	13.08	-25	11.6	0.3	7.2
912	7.85	1.83	17	0.00	13.14	-29	12.03	0.3	8.1
915	7.85	1.85	16.8	0.00	13.15	-31	12.22	0.3	9.0

Total Quantity of Water Removed (gal):	2.4	Sampling Time:	915
Samplers:	H. Williams and F. DeSantis	Split Sample With:	NA
Sampling Date:	28-Nov-12	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:



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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-04	EA Personnel: H. Williams and F. DeSantis	Client: NYSDEC - Lackawanna Former Incinerator Site
Location: Lackawanna, NY	Well Condition: Good	Weather: Overcast, ~32°F
Sounding Method: Solinst WLM	Gauge Date: 28-Nov-12	Measurement Ref: TOC
	Gauge Time: 1013	
Stick Up/Down (ft): Down ~0.3 ft	PID Headspace Reading: NA	Well Diameter (in): 2"

Purge Date: 28-Nov-12	Purge Time: 1020
Purge Method: Low Flow	Field Technician: H. Williams and F. DeSantis

Well Volume		
A. Well Depth (ft): 29.64	D. Well Volume (ft): 0.46	Depth/Height of Top of PVC: Down ~0.3 ft
B. Depth to Water (ft): 8.45	E. Well Volume (gal) (C*D): 9.79	Pump Type: Grundfos Submersible Pump
C. Liquid Depth (ft) (A-B): 21.19	F. Three Well Volumes (gal) (E3): 29.37	Pump Intake Depth: 25'

Water Quality Parameters									
Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1020	---	---	---	---	---	---	8.45	0.3	0.0
1023	8.09	0.775	312	2.95	9.98	73	9.04	0.3	0.9
1026	7.81	0.805	269	0.73	9.75	70	9.64	0.3	1.8
1029	7.66	0.819	224	0.00	8.96	68	10.38	0.3	2.7
1032	7.58	0.798	215	0.00	9.44	63	11.16	0.3	3.6
1035	7.53	0.792	173	0.00	9.77	58	11.74	0.3	4.5
1038	7.51	0.793	126	0.00	9.72	55	12.29	0.3	5.4
1041	7.50	0.796	109	0.00	9.43	53	12.74	0.3	6.3
1044	7.49	0.794	105	0.00	9.08	51	13.36	0.3	7.2
1047	7.49	0.782	96.8	0.00	9.42	49	13.82	0.3	8.1
1050	7.49	0.781	92.9	0.00	9.33	46	14.13	0.3	9.0
1053	7.49	0.778	95.1	0.00	9.28	44	14.71	0.3	9.9
1056	7.50	0.771	95.4	0.00	7.47	42	15.2	0.3	10.8
1059	7.50	0.787	87.1	0.00	7.50	42	15.45	0.3	11.7
1102	7.51	0.791	84.9	0.00	7.51	43	15.89	0.3	12.6
1105	7.51	0.786	88.1	0.00	7.51	42	16.09	0.3	13.5
1108	7.50	0.761	105	0.00	7.50	37	16.56	0.3	14.4
1111	7.49	0.755	139	0.00	9.78	27	17.45	0.3	15.3
1114	7.46	0.759	301	0.00	7.46	20	17.86	0.3	16.2
1117	7.46	0.783	201	0.00	7.47	27	18.19	0.3	17.1
1120	7.47	0.774	262	0.00	7.47	33	18.78	0.3	18.0
1123	7.47	0.777	206	0.00	7.47	32	---	0.3	18.9
1126	7.45	0.771	194	0.00	7.46	31	19.24	0.3	19.8
1129	7.45	0.772	151	0.00	7.48	31	19.56	0.3	20.7

Total Quantity of Water Removed (gal):	5.5	Sampling Time:	1130
Samplers:	H. Williams and F. DeSantis	Split Sample With:	NA
Sampling Date:	28-Nov-12	Sample Type:	Grab

COMMENTS AND OBSERVATIONS: Truck parked on top of well. Spoke with Chris from DPW and asked him to move it.



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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-05	EA Personnel: H. Williams and F. DeSantis	Client: NYSDEC - Lackawanna Former Incinerator Site
Location: Lackawanna, NY	Well Condition: Good	Weather: Overcast, cool, ~35°F
Sounding Method: Solinst WLM	Gauge Date: 29-Nov-12 Gauge Time:	Measurement Ref: TOC
Stick Up/Down (ft): Down ~0.3 ft	PID Headspace Reading: NA	Well Diameter (in): 2"

Purge Date: 29-Nov-12	Purge Time: 950
Purge Method: Low Flow	Field Technician: H. Williams and F. DeSantis

Well Volume		
A. Well Depth (ft): 30.02	D. Well Volume (ft): 0.43	Depth/Height of Top of PVC: Up ~2 ft.
B. Depth to Water (ft): 10.34	E. Well Volume (gal) (C*D): 8.44	Pump Type: Grundfos Submersible Pump
C. Liquid Depth (ft) (A-B): 19.68	F. Three Well Volumes (gal) (E3): 25.33	Pump Intake Depth: 25'

Water Quality Parameters									
Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
950	---	---	---	---	---	---	10.34	0.3	0.0
953	7.44	0.526	78.1	6.07	10.23	94	11.24	0.3	0.9
956	7.23	0.538	69.5	0.00	10.27	85	11.47	0.3	1.8
959	7.15	0.540	51.8	0.00	10.36	75	12.05	0.3	2.7
1002	7.11	0.545	49.3	0.00	10.05	67	12.59	0.3	3.6
1005	7.08	0.543	47.7	0.00	10.05	60	12.86	0.3	4.5
1008	7.07	0.534	40.6	0.00	10.69	52	13.5	0.3	5.4
1011	7.05	0.542	38.7	0.00	10.39	49	13.77	0.3	6.3
1014	7.06	0.531	37.4	0.00	10.99	46	14.02	0.3	7.2
1017	7.05	0.540	36.1	0.00	10.42	46	14.42	0.3	8.1
1020	7.06	0.534	34.4	0.00	11.18	46	14.53	0.3	9.0

Total Quantity of Water Removed (gal):	2.4	Sampling Time:	1025
Samplers:	H. Williams and F. DeSantis	Split Sample With:	NA
Sampling Date:	29-Nov-12	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:

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GROUNDWATER SAMPLING PURGE FORM									
Well I.D.: MW-06			EA Personnel: H. Williams and F. DeSantis			Client: NYSDEC - Lackawanna Former Incinerator Site			
Location: Lackawanna, NY			Well Condition: Good			Weather: Overcast, windy, ~32°F			
Sounding Method: Solinst WLM			Gauge Date: 28-Nov-12 Gauge Time: 1230			Measurement Ref: TOC			
Stick Up/Down (ft): Down ~0.3 ft			PID Headspace Reading: NA			Well Diameter (in): 2"			
Purge Date: 28-Nov-12					Purge Time: 1235				
Purge Method: Low Flow					Field Technician: H. Williams and F. DeSantis				
Well Volume									
A. Well Depth (ft): 29.45			D. Well Volume (ft): 0.48			Depth/Height of Top of PVC: Up ~2 ft.			
B. Depth to Water (ft): 7.23			E. Well Volume (gal) (C*D): 10.76			Pump Type: Grundfos Submersible Pump			
C. Liquid Depth (ft) (A-B): 22.22			F. Three Well Volumes (gal) (E3): 32.29			Pump Intake Depth: 25'			
Water Quality Parameters									
Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1235	---	---	---	---	---	---	7.23	0.3	0.0
1238	7.83	0.64	>1,000	9.39	10.59	40	7.77	0.3	0.9
1241	7.65	0.643	>1,000	0.00	10.68	-4	8.75	0.3	1.8
1244	7.59	0.661	>1,000	0.00	10.52	-16	9.06	0.3	2.7
1247	7.56	0.664	>1,000	0.00	9.90	-16	9.65	0.3	3.6
1250	7.54	0.655	427	0.00	10.32	-18	9.99	0.3	4.5
1253	7.53	0.659	800	0.00	10.25	-17	10.46	0.3	5.4
1256	7.52	0.652	950	0.00	11.32	-14	11.33	0.3	6.3
1259	7.53	0.653	504	0.00	12.51	-6	12.00	0.3	7.2
1302	7.56	0.657	219	0.00	12.75	4	12.92	0.3	8.1
1305	7.58	0.676	186	0.00	11.75	10	13.24	0.3	9.0
1308	7.58	0.673	172	0.00	10.98	15	13.68	0.3	9.9
1311	7.59	0.667	185	0.00	10.80	16	14.12	0.3	10.8
1314	7.58	0.638	186	0.00	12.40	5	14.98	0.3	11.7
1317	7.58	0.639	178	0.00	13.15	2	15.97	0.3	12.6
1320	7.60	0.652	177	0.00	12.40	4	---	0.3	13.5
1323	7.60	0.655	177	0.00	11.15	8	16.21	0.3	14.4
1326	7.6	0.623	191	0.00	12.44	1	16.74	0.3	15.3
1329	7.59	0.631	205	0.00	12.17	-4	17.03	0.3	16.2
1332	7.6	0.640	249	0.00	11.56	-6	---	0.3	17.1
1335	7.61	0.647	292	0.00	10.63	-6	17.10	0.3	18.0
1338	7.61	0.639	290	0.00	10.16	-4	17.28	0.3	18.9
1341	7.59	0.932	281	0.00	10.56	-13	17.52	0.3	19.8
1344	7.54	0.640	280	0.00	11.20	-21	18.10	0.3	20.7
1347	7.54	0.660	274	0.00	11.79	-25	18.24	0.3	21.6
1351	7.55	0.661	271	0.00	11.57	-22	18.73	0.3	22.5
1354	7.54	0.662	270	0.00	11.60	-23	19.54	0.3	23.4
1357	7.56	0.659	272	0.00	11.61	-20	19.98	0.3	24.3
Total Quantity of Water Removed (gal): 6.4					Sampling Time: 1407				
Samplers: H. Williams and F. DeSantis					Split Sample With: NA				
Sampling Date: 28-Nov-12					Sample Type: Grab				
COMMENTS AND OBSERVATIONS:									



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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-07	EA Personnel: H. Williams and F. DeSantis	Client: NYSDEC - Lackawanna Former Incinerator Site
Location: Lackawanna, NY	Well Condition: Good	Weather: Overcast, cold, windy, ~30°F
Sounding Method: Solinst WLM	Gauge Date: 28-Nov-12 Gauge Time: 1450	Measurement Ref: TOC
Stick Up/Down (ft): Down ~0.3 ft	PID Headspace Reading: NA	Well Diameter (in): 2"

Purge Date: 28-Nov-12	Purge Time: 1457
Purge Method: Low Flow	Field Technician: H. Williams and F. DeSantis

Well Volume		
A. Well Depth (ft): 27.14	D. Well Volume (ft): 0.36	Depth/Height of Top of PVC: Down ~0.3ft
B. Depth to Water (ft): 10.68	E. Well Volume (gal) (C*D): 5.91	Pump Type: Grundfos Submersible Pump
C. Liquid Depth (ft) (A-B): 16.46	F. Three Well Volumes (gal) (E3): 17.72	Pump Intake Depth: 22'

Water Quality Parameters									
Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1457	---	---	---	---	---	---	10.68	0.3	0.0
1500	7.75	0.823	125	3.48	10.61	-14	11.45	0.3	0.9
1503	7.57	0.902	108	0.00	10.57	-40	12.11	0.3	1.8
1506	7.52	0.964	102	0.00	9.76	-43	12.28	0.3	2.7
1509	7.49	0.967	84.5	0.00	9.87	-44	12.41	0.3	3.6
1512	7.47	0.949	94.4	0.00	11.44	-48	12.69	0.3	4.5
1515	7.47	0.974	82.8	0.00	10.71	-48	12.74	0.3	5.4
1518	7.47	0.978	62.3	0.00	10.29	-48	12.72	0.3	6.3
1521	7.47	0.988	49.2	0.00	9.39	-48	12.69	0.3	7.2
1523	7.47	0.986	48.4	0.00	9.21	-47	12.55	0.3	8.1
1526	7.46	0.964	48.3	0.00	9.26	-47	12.61	0.3	9.0

Total Quantity of Water Removed (gal):	2.4	Sampling Time:	1530
Samplers:	H. Williams and F. DeSantis	Split Sample With:	MS/MSD
Sampling Date:	28-Nov-12	Sample Type:	Grab

COMMENTS AND OBSERVATIONS:	Pump flow spiked briefly during sampling at 1550. Fixed flow immediately.
	RB = 915206-RB1 at 1630
	TB1 at 1635

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Well I.D.:		EA Personnel:		Client:					
MW-08		H. Williams and F. DeSantis		NYSDEC - Lackawanna Former Incinerator Site					
Location:		Well Condition:		Weather:					
Lackawanna, NY		Good		Sun, cool, ~40°F					
Sounding Method:		Gauge Date:		Measurement Ref:					
Solinst WLM		29-Nov-12		TOC					
Gauge Time:		1053							
Stick Up/Down (ft):		PID Headspace Reading:		Well Diameter (in):					
Down ~0.3 ft		NA		2"					
Purge Date:				Purge Time:					
29-Nov-12				1058					
Purge Method:				Field Technician:					
Low Flow				H. Williams and F. DeSantis					
Well Volume									
A. Well Depth (ft):		D. Well Volume (ft):		Depth/Height of Top of PVC:					
23.06		0.28		Down ~0.3 ft					
B. Depth to Water (ft):		E. Well Volume (gal) (C*D):		Pump Type:					
10.34		3.53		Grundfos Submersible Pump					
C. Liquid Depth (ft) (A-B):		F. Three Well Volumes (gal) (E3):		Pump Intake Depth:					
12.72		10.58		18'					
Water Quality Parameters									
Time	pH	Conductivity	Turbidity	DO	Temperature	ORP	DTW	Rate	Volume
(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)	(ft btoc)	(Lpm)	(liters)
1058	---	---	---	---	---	---	10.34	0.3	0.0
1101	7.46	0.786	840	1.02	11.65	-10	10.80	0.3	0.9
1104	7.29	0.825	836	0.00	12.05	-31	11.05	0.3	1.8
1107	7.18	0.826	641	0.00	11.93	-39	11.21	0.3	2.7
1110	7.16	0.812	540	0.00	12.3	344	11.44	0.3	3.6
1113	7.13	0.806	463	0.00	12.83	-52	11.57	0.3	4.5
1116	7.14	0.819	404	0.00	12.27	-55	11.60	0.3	5.4
1119	7.14	0.838	359	0.00	11.21	-55	11.61	0.3	6.3
1122	7.14	0.817	342	0.00	11.02	-56	11.63	0.3	7.2
1125	7.14	0.822	311	0.00	10.63	-57	11.66	0.3	8.1
1128	7.13	0.801	323	0.00	11.51	-61	11.66	0.3	9.0
1131	7.13	0.791	439	0.00	13.11	-62	11.92	0.3	9.9
1134	7.14	0.825	290	0.00	12.03	-62	11.91	0.3	10.8
1137	7.14	0.815	260	0.00	11.59	-64	11.99	0.3	11.7
1140	7.14	0.802	243	0.00	11.77	-65	12.00	0.3	12.6
1143	7.14	0.801	237	0.00	11.63	-67	12.04	0.3	13.5
1146	7.15	0.798	232	0.00	11.59	-68	12.05	0.3	14.4
1149	7.15	0.805	272	0.00	11.22	0.7	12.06	0.3	15.3
1152	7.15	0.802	289	0.00	11.14	0.71	12.07	0.3	16.2
1155	7.14	0.788	280	0.00	12.76	-76	12.1	0.3	17.1
1158	7.22	0.778	275	0.00	15.63	-68	12.27	0.3	18.0
1201	7.2	0.778	400	0.00	15.7	-69	---	0.3	18.9
1204	7.18	0.778	470	0.00	17.33	-71	12.42	0.3	19.8
1207	7.15	0.789	343	0.00	16.87	-74	12.46	0.3	20.7
1210	7.15	0.791	312	0.00	15.96	-75	12.46	0.3	21.6
1213	7.15	0.777	286	0.00	15	-74	12.46	0.3	22.5
1216	7.16	0.785	258	0.00	13.37	-74	12.5	0.3	23.4
1219	7.15	0.766	240	0.00	14.7	-75	12.7	0.3	24.3
1222	7.15	0.776	192	0.00	14.4	-76	12.81	0.3	25.2
1225	7.16	0.775	176	0.00	13.83	-76	12.85	0.3	26.1
1228	7.17	0.777	160	0.00	12.93	-75	12.84	0.3	27.0
1231	7.16	0.786	153	0.00	12.1	-75	12.84	0.3	27.9
1234	7.17	0.781	146	0.00	11.38	-74	12.8	0.3	28.8
1237	7.17	0.756	133	0.00	12.52	-75	12.84	0.3	29.7
1240	7.16	0.756	126	0.00	12.46	-75	12.86	0.3	30.6
1243	7.15	0.738	128	0.00	13.31	-76	12.99	0.3	31.5
Total Quantity of Water Removed (gal):				8.3		Sampling Time:		1245	
Samplers:				H. Williams and F. DeSantis		Split Sample With:		Duplicate	
Sampling Date:				29-Nov-12		Sample Type:		Grab	
COMMENTS AND OBSERVATIONS:				TB2 = 1355					
				RB2 = 1350					



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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-02A	EA Personnel: CY/RP	Client: NYSDEC
Location: Lackawanna Incinerator, Lackawanna, NY	Well Condition: good	Weather: 45, sunny
Sounding Method: Solinst 100-ft water level tape	Gauge Date: 4/16/2013 Gauge Time:	Measurement Ref: Top of Casing (TOC)
Stick Up/Down (ft): 3	PID Headspace Reading: 0	Well Diameter (in): 2

Purge Date: 17-Apr-13	Purge Time: 815
Purge Method: Low Flow using Submersible Grundfos Pump	Field Technician: C. Yarrington

Well Volume

A. Well Depth (ft): 32.25	D. Well Volume (cubic ft): 0.43	Depth/Height of Top of PVC: 3
B. Depth to Water (ft): 12.54	E. Well Volume (gal) (C*D): 8.47	Pump Type: Submersible Grundfos
C. Liquid Depth (ft) (A-B): 19.71	F. Three Well Volumes (gal) (E3): 25.41	Pump Intake Depth: 26'

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
815	8.96	0.68	106	1.86	9.58	97	13.45	0.30	0.00
820	8.31	0.674	69.2	0.28	9.48	68	14.18	0.30	1.5
825	8.12	0.673	63.5	0.00	9.72	17	14.80	0.30	3
830	8.08	0.672	34.9	0.00	9.9	-12	15.27	0.30	4.5
835	8.03	0.674	25.9	0.00	10.22	0	15.95	0.30	6
840	7.98	0.675	31.7	0.00	11.64	-35	17.43	0.30	7.5
845	7.97	0.67	21.3	0.00	11.61	-42	17.83	0.30	9
850	7.97	0.668	19.1	0.00	11.46	-46	18.12	0.30	10.5

Total Quantity of Water Removed (gal):	2.8	Sampling Time:	930
Samplers:	CY	Split Sample With:	N/A
Sampling Date:	4/17/2013	Sample Type:	grab

COMMENTS AND OBSERVATIONS:	none



Well I.D.: MW-03A	EA Personnel: CY/RP	Client: NYSDEC
Location: Lackawanna Incinerator, Lackawanna, NY	Well Condition: good	Weather: 50, sunny
Sounding Method: Solinst 100-ft water level tape	Gauge Date: 4/16/2013	Measurement Ref: Top of Casing (TOC)
	Gauge Time:	
Stick Up/Down (ft): -0.2	PID Headspace Reading: 0	Well Diameter (in): 2

Purge Date: 16-Apr-13	Purge Time: 1403
Purge Method: Low Flow using Submersible Grundfos Pump	Field Technician: RP/CY

A. Well Depth (ft): 29.9	D. Well Volume (cubic ft): 0.51	Depth/Height of Top of PVC: -0.2
B. Depth to Water (ft): 6.63	E. Well Volume (gal) (C*D): 11.80	Pump Type: Submersible Grundfos
C. Liquid Depth (ft) (A-B): 23.27	F. Three Well Volumes (gal) (E3): 35.41	Pump Intake Depth: 25

[illegible]

Total Quantity of Water Removed (gal):	2.4	Sampling Time:	1435
Samplers:	CY/RP	Split Sample With:	N/A
Sampling Date:	4/17/2013	Sample Type:	grab

COMMENTS AND OBSERVATIONS:	none



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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-04	EA Personnel: CY/RP	Client: NYSDEC
Location: Lackawanna Incinerator, Lackawanna, NY	Well Condition: good	Weather: 60, sunny
Sounding Method: Solinst 100-ft water level tape	Gauge Date: 4/16/2013 Gauge Time:	Measurement Ref: Top of Casing (TOC)
Stick Up/Down (ft): -0.2	PID Headspace Reading: 0	Well Diameter (in): 2

Purge Date: 17-Apr-13	Purge Time: 1049
Purge Method: Low Flow using Submersible Grundfos Pump	Field Technician: RP/CY

Well Volume

A. Well Depth (ft): 29.63	D. Well Volume (cubic ft): 0.51	Depth/Height of Top of PVC: -0.2
B. Depth to Water (ft): 6.43	E. Well Volume (gal) (C*D): 11.73	Pump Type: Submersible Grundfos
C. Liquid Depth (ft) (A-B): 23.2	F. Three Well Volumes (gal) (E3): 35.20	Pump Intake Depth: 24

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1049	8.15	0.757	156	3.73	13.49	121	6.66	0.30	0.00
1054	7.66	0.773	73.4	0.00	13.84	129	7.3	0.30	1.5
1059	7.55	0.807	42.1	0.00	13.16	127	7.74	0.30	3
1104	7.47	0.801	34.2	0.00	13.4	120	8.16	0.30	4.5
1109	7.42	0.791	2938	0.00	13.6	110	8.34	0.30	6
1114	7.37	0.806	19.6	0.00	13.28	96	8.90	0.30	7.5
1119	7.27	0.802	15.4	0.00	13.5	83	9.52	0.30	9
1124	7.31	0.804	16.1	0.00	13.61	70	10.04	0.30	10.5
1129	7.29	0.803	14	0.00	13.83	56	10.61	0.30	12.00
1134	7.29	0.803	13.3	0.00	14	47	11.24	0.30	13.5
1139	7.28	0.8	18.4	0.00	14.48	38	11.96	0.30	15
1144	7.28	0.801	17.2	0.00	14.47	37	12.52	0.30	16.5

Total Quantity of Water Removed (gal):	4.4	Sampling Time:	1150
Samplers:	RP/CY	Split Sample With:	N/A
Sampling Date:	4/17/2013	Sample Type:	grab

COMMENTS AND OBSERVATIONS:	none



Well I.D.: MW-05	EA Personnel: CY/RP	Client: NYSDEC
Location: Lackawanna Incinerator, Lackawanna, NY	Well Condition: good	Weather: 55, sunny
Sounding Method: Solinst 100-ft water level tape	Gauge Date: 4/16/2013	Measurement Ref: Top of Casing (TOC)
	Gauge Time:	
Stick Up/Down (ft): -0.2	PID Headspace Reading: 0	Well Diameter (in): 2

Purge Date: 17-Apr-13	Purge Time: 1031
Purge Method: Low Flow using Submersible Grundfos Pump	Field Technician: RP/CY

A. Well Depth (ft): 30.01	D. Well Volume (cubic ft): 0.49	Depth/Height of Top of PVC: -0.2
B. Depth to Water (ft): 7.74	E. Well Volume (gal) (C*D): 10.81	Pump Type: Submersible Grundfos
C. Liquid Depth (ft) (A-B): 22.27	F. Three Well Volumes (gal) (E3): 32.44	Pump Intake Depth: 25

[illegible]

Total Quantity of Water Removed (gal):	2	Sampling Time:	1130
Samplers:	RP/CY	Split Sample With:	DUPLICATE-04
Sampling Date:	4/17/2013	Sample Type:	grab

COMMENTS AND OBSERVATIONS:	none



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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-06	EA Personnel: CY/RP	Client: NYSDEC
Location: Lackawanna Incinerator, Lackawanna, NY	Well Condition: good	Weather: 60, overcast
Sounding Method: Solinst 100-ft water level tape	Gauge Date: 4/16/2013 Gauge Time:	Measurement Ref: Top of Casing (TOC)
Stick Up/Down (ft): -0.2	PID Headspace Reading: 0	Well Diameter (in): 2

Purge Date: 16-Apr-13	Purge Time: 1400
Purge Method: Low Flow using Submersible Grundfos Pump	Field Technician: RP/CY

Well Volume

A. Well Depth (ft): 2930	D. Well Volume (cubic ft): 63.72	Depth/Height of Top of PVC: -0.2
B. Depth to Water (ft): 7.04	E. Well Volume (gal) (C*D): 186252.55	Pump Type: Submersible Grundfos
C. Liquid Depth (ft) (A-B): 2922.96	F. Three Well Volumes (gal) (E3): 558757.66	Pump Intake Depth: 25

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1400	8.33	0.66	1000	0.88	13.24	11	8.2	0.30	0.00
1405	7.94	0.663	765	0.00	12.21	-28	8.66	0.30	1.5
1410	7.73	0.668	690	0.00	12.4	-46	9.41	0.30	3
1415	7.64	0.669	464	0.00	12.54	-51	10.15	0.30	4.5
1420	7.57	0.666	159	0.00	12.99	-51	11.32	0.30	6
1425	7.55	0.664	111	0.00	13.05	-49	11.70	0.30	7.5
1430	7.53	0.661	97.3	0.00	12.64	-48	12.1	0.30	9
1435	7.51	0.66	93.6	0.00	12.58	-49	12.4	0.30	10.5
1440	7.51	0.659	77.9	0.00	12.61	-52	12.79	0.30	12.00
1445	7.59	0.659	71.3	0.00	12.85	-58	12.85	0.30	13.5
1450	7.48	0.659	65.5	0.00	12.55	-58	13.18	0.30	15
1455	7.48	0.658	58.8	0.00	12.71	-60	13.41	0.30	16.5
1460	7.47	0.657	49.7	0	12.66	-61	13.5	0.30	18

Total Quantity of Water Removed (gal):	4.8	Sampling Time:	1505
Samplers:	RP/CY	Split Sample With:	N/A
Sampling Date:	4/16/2013	Sample Type:	grab

COMMENTS AND OBSERVATIONS:	none



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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-07	EA Personnel: CY/RP	Client: NYSDEC
Location: Lackawanna Incinerator, Lackawanna, NY	Well Condition: good	Weather: 60, sunny
Sounding Method: Solinst 100-ft water level tape	Gauge Date: 4/16/2013 Gauge Time:	Measurement Ref: Top of Casing (TOC)
Stick Up/Down (ft): -0.2	PID Headspace Reading: 0	Well Diameter (in): 2

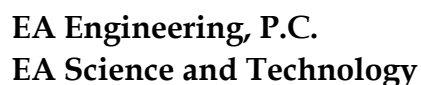
Purge Date: 17-Apr-13	Purge Time: 816
Purge Method: Low Flow using Submersible Grundfos Pump	Field Technician: RP/CY

Well Volume		
A. Well Depth (ft): 27.14	D. Well Volume (cubic ft): 0.38	Depth/Height of Top of PVC: -0.2
B. Depth to Water (ft): 9.65	E. Well Volume (gal) (C*D): 6.67	Pump Type: Submersible Grundfos
C. Liquid Depth (ft) (A-B): 17.49	F. Three Well Volumes (gal) (E3): 20.01	Pump Intake Depth: 22

Water Quality Parameters									
Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
816	8.07	1.02	312	16.04	10.76	-58	10.65	0.30	0.00
821	7.72	1.04	302	0.68	10.82	-75	10.9	0.30	1.5
826	7.58	1.05	217	0.00	10.88	-86	10.94	0.30	3
831	7.51	1.05	142	0.00	11.10	-90	10.97	0.30	4.5
836	7.49	1.04	119	0.00	11.33	-91	11.02	0.30	6
842	7.47	1.05	93.6	0.00	11.88	-96	11.04	0.30	7.5
846	7.46	1.05	82.1	0.00	12.15	-98	11.12	0.30	9
852	7.46	1.05	72.7	0.00	12.38	-100	11.19	0.30	10.5
856	7.45	1.04	59.4	0.00	12.88	-99	11.19	0.30	12.00
902	7.44	1.05	45.3	0.00	12.99	-100	11.25	0.30	13.5
906	7.45	1.05	41	0.00	13.21	-98	11.28	0.30	15

Total Quantity of Water Removed (gal):	4	Sampling Time:	930
Samplers:	RP/CY	Split Sample With:	MS/MSD
Sampling Date:	4/17/2013	Sample Type:	grab

COMMENTS AND OBSERVATIONS:	MS/MSD collected



Well I.D.: MW-08	EA Personnel: CY/RP	Client: NYSDEC
Location: Lackawanna Incinerator, Lackawanna, NY	Well Condition: good	Weather: 60, sunny
Sounding Method: Solinst 100-ft water level tape	Gauge Date: 4/16/2013	Measurement Ref: Top of Casing (TOC)
	Gauge Time:	
Stick Up/Down (ft): -0.1	PID Headspace Reading: 0	Well Diameter (in): 2

Purge Date: 17-Apr-13	Purge Time: 1245
Purge Method: Low Flow using Submersible Grundfos Pump	Field Technician: RP/CY

A. Well Depth (ft): 23.03	D. Well Volume (cubic ft): 0.29	Depth/Height of Top of PVC: -0.1
B. Depth to Water (ft): 9.81	E. Well Volume (gal) (C*D): 3.81	Pump Type: Submersible Grundfos
C. Liquid Depth (ft) (A-B): 13.22	F. Three Well Volumes (gal) (E3): 11.43	Pump Intake Depth: 20

[illegible]

Total Quantity of Water Removed (gal): _____		Sampling Time:	1330
Samplers:	RP/CY	Split Sample With:	N/A
Sampling Date:	4/17/2013	Sample Type:	grab

COMMENTS AND OBSERVATIONS:	none
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