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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-02A	**EA Personnel:** Hilary Williams / Robert Peterson	**Client:** NYSDEC - Lackawanna Former Incinerator Site
Location: Lackawanna, NY	**Well Condition:** Good	**Weather:** Sunny, ~40 degrees F
Sounding Method: Heron Skinny Dipper Water Level Meter	**Gauge Date:** 7-Nov-12 **Gauge Time:** 15:15	**Measurement Ref:** TOC
Stick Up/Down (ft): Up ~2ft.	**PID Headspace Reading:** NA	**Well Diameter (in):** 2"

Purge Date: 7-Nov-12	**Purge Time:** 15:17
Purge Method: Hand surge using waterra tubing/foot valve; bailer	**Field Technician:** HW / RP

Well Volume

A. Well Depth (ft): 32.27	**D. Well Volume (ft):** 0.39	**Depth/Height of Top of PVC:** Up ~2 ft.
B. Depth to Water (ft): 14.44	**E. Well Volume (gal) (C*D):** 6.93	**Pump Type:** Whaler pump
C. Liquid Depth (ft) (A-B): 17.83	**F. Three Well Volumes (gal) (E3):** 20.79	**Pump Intake Depth:** ---

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (^{o}C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1519	7.37	0.819	127	5.21	8.95	118	---	---	---
1523	7.26	0.786	>1,000	7.58	9.08	102	20.05	---	---
1527	7.23	0.814	>1,000	6.60	10.13	78	22.00	---	---
1530	7.35	0.802	>1,000	6.73	9.11	76	22.45	---	---
1533	7.24	0.794	>1,000	6.25	10.30	68	23.71	---	---
1537	7.24	0.794	>1,000	5.55	10.30	58	---	---	---
1540	7.29	0.784	>1,000	7.21	10.07	66	25.61	---	---
1543	7.35	0.815	>1,000	6.30	10.24	75	28.69	---	---
1546	7.41	0.783	>1,000	8.85	9.99	78	29.21	---	---
1549	7.30	0.789	>1,000	6.66	9.97	71	30.65	---	---
1552	7.32	0.789	>1,000	4.53	10.06	63	31.37	---	---
1555	7.33	0.796	>1,000	5.20	9.93	64	31.90	---	---
1558	7.37	0.799	>1,000	5.44	9.96	64	---	---	---
Well purged dry. Let well recharge overnight, continued purge on 11/8/2012									
1415	7.37	0.758	574	13.31	11.02	98	17.63	---	---
1418	7.35	0.778	>1,000	7.57	11.05	97	22.85	---	---
1421	7.33	0.781	668	7.34	11.30	95	24.22	---	---
1424	7.31	0.778	>1,000	8.19	11.05	95	26.63	---	---
1427	7.33	0.760	>1,000	8.63	10.69	93	---	---	---
Well purged dry.									

Total Quantity of Water Removed (gal):	---	**Sampling Time:**	N/A
Samplers:	HW/RP	**Split Sample With:**	N/A
Sampling Date:	N/A	**Sample Type:**	N/A

COMMENTS AND OBSERVATIONS: Began purge using surge technique with waterra tubing and foot valve. Began alternating between surging and bailer at 1527. Well purged dry at 1558, let well recharge overnight.

11/8/2012: depth to water of 15.11 ft bgs. Purged well using whaler pump - much clearer water than on 11/7/2012.

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-03A	**EA Personnel:** Hilary Williams / Robert Peterson	**Client:** NYSDEC - Lackawanna Former Incinerator Site
Location: Lackawanna, NY	**Well Condition:** Good	**Weather:** Sunny, ~30 degrees F
Sounding Method: Heron Skinny Dipper Water Level Meter	**Gauge Date:** 7-Nov-12 **Gauge Time:** 8:22	**Measurement Ref:** TOC
Stick Up/Down (ft): Down ~0.4 ft	**PID Headspace Reading:** NA	**Well Diameter (in):** 2"

Purge Date: 7-Nov-12	**Purge Time:** 8:25
Purge Method: Bailer at start on 7 November 2012, whaler pump on 8 November 2012	**Field Technician:** HW / RP

Well Volume

A. Well Depth (ft): 29.55	**D. Well Volume (ft):** 0.51	**Depth/Height of Top of PVC:** Down ~0.3 ft
B. Depth to Water (ft): 6.21	**E. Well Volume (gal) (C*D):** 11.88	**Pump Type:** Bailer / Whaler pump
C. Liquid Depth (ft) (A-B): 23.34	**F. Three Well Volumes (gal) (E3):** 35.63	**Pump Intake Depth:** N/A

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (^{o}C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
826	6.49	10.2	70.8	6.45	13.36	91	8.75	N/A	---
832	6.76	10.2	260	6.32	13.7	62	13.44	N/A	---
835	6.84	10.2	214	9.45	12.71	55	15.63	N/A	---
839	6.87	9.77	>1,000	5.83	12.23	58	19.70	N/A	---
842	6.89	9.49	>1,000	5.86	11.6	65	20.25	N/A	---
846	6.9	9.93	>1,000	12.19	11.38	66	22.55	N/A	---
851	6.88	10.1	>1,000	5.88	11.48	70	23.71	N/A	---
855	6.9	10.2	>1,000	6.29	11.31	75	25.21	N/A	---
858	6.89	10.1	>1,000	5.87	11.35	78	26.36	N/A	---
901	6.93	8.46	>1,000	3.46	11.25	-20	27.56	N/A	---
905	6.99	6.75	>1,000	1.80	11.19	-50	28.34	N/A	---
915	7.1	4.91	>1,000	2.85	13.07	-27	27.49	N/A	---
918	7.17	4.71	>1,000	4.88	11.75	-21	27.65	N/A	---
921	7.19	4.62	>1,000	4.54	11.84	-22	27.90	N/A	---
924	7.21	4.61	>1,000	6.20	11.93	-18	28.06	N/A	---
927	7.2	4.63	>1,000	6.06	12.03	-18	29.19	N/A	---
930	7.21	5.11	>1,000	5.18	10.73	-8	29.68	N/A	---
Well purged dry - let recharge overnight, continued purge with whaler pump on 11/8/2012									
1250	7.17	3.06	>1,000	3.65	11.52	-52	22.15	---	---
1253	7.21	3.08	>1,000	6.59	11.89	20	24.46	---	---
1257	7.16	3.51	>1,000	7.06	11.83	44	26.75	---	---
1300	7.22	2.98	>1,000	6.95	11.76	47	27.80	---	---
1303	7.24	2.89	>1,000	5.42	11.37	45	29.25	---	---

Total Quantity of Water Removed (gal):	---	**Sampling Time:**	N/A
Samplers:	HW/RP	**Split Sample With:**	N/A
Sampling Date:	N/A	**Sample Type:**	N/A

COMMENTS AND OBSERVATIONS: 11/7/2012: Removed 2 bailers full of water for each reading. Thick mud observed in baileraround 0900. Well went dry at 0931, let well rechargeovernight before continuing purge with whaler pump.

11/8/12: Depth to water 20.83 ft bgs (slight recharge overnight). Clearer water on 11/8/12.

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-04	**EA Personnel:** Hilary Williams / Robert Peterson	**Client:** NYSDEC - Lackawanna Former Incinerator Site
Location: Lackawanna, NY	**Well Condition:** Good	**Weather:** Sunny, ~30 degrees F
Sounding Method: Heron Skinny Dipper Water Level Meter	**Gauge Date:** 8-Nov-12 **Gauge Time:** 10:15	**Measurement Ref:** TOC
Stick Up/Down (ft): Down ~0.3 ft	**PID Headspace Reading:** NA	**Well Diameter (in):** 2"

Purge Date: 8-Nov-12	**Purge Time:** 10:17
Purge Method: Hand surge and whaler pump	**Field Technician:** HW / RP

Well Volume

A. Well Depth (ft): 29.94	**D. Well Volume (ft):** 0.12	**Depth/Height of Top of PVC:** Down ~0.3 ft
B. Depth to Water (ft): 24.66	**E. Well Volume (gal) (C*D):** 0.61	**Pump Type:** Whaler pump
C. Liquid Depth (ft) (A-B): 5.28	**F. Three Well Volumes (gal) (E3):** 1.82	**Pump Intake Depth:** ---

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (^{o}C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1025	7.32	0.812	>1,000	6.6	9.95	14	26.15	---	---
1028	7.27	0.842	>1,000	4.58	10.55	4	26.81	---	---
1031	7.22	0.903	>1,000	8.22	12.09	47	27.78	---	---
1038	7.46	0.753	>1,000	1.34	11.7	-104	28.55	---	---
1041	7.41	0.802	>1,000	3.44	12.86	-48	28.93	---	---

Total Quantity of Water Removed (gal):	---	**Sampling Time:**	N/A
Samplers:	HW/RP	**Split Sample With:**	N/A
Sampling Date:	N/A	**Sample Type:**	N/A

COMMENTS AND OBSERVATIONS: Resistance at bottom of well. Water was muddy brown at start of purge.

Well purged dry at 1043.

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-05	**EA Personnel:** Hilary Williams / Robert Peterson	**Client:** NYSDEC - Lackawanna Former Incinerator Site
Location: Lackawanna, NY	**Well Condition:** Good	**Weather:** Sunny, ~40 degrees F
Sounding Method: Heron Skinny Dipper Water Level Meter	**Gauge Date:** 8-Nov-12 **Gauge Time:** 9:10	**Measurement Ref:** TOC
Stick Up/Down (ft): Down ~0.3 ft	**PID Headspace Reading:** NA	**Well Diameter (in):** 2"

Purge Date: 8-Nov-12	**Purge Time:** 9:15
Purge Method: Whaler pump and hand surge	**Field Technician:** HW / RP

Well Volume

A. Well Depth (ft): 30.02	**D. Well Volume (ft):** 0.41	**Depth/Height of Top of PVC:** Up ~2 ft.
B. Depth to Water (ft): 11.05	**E. Well Volume (gal) (C*D):** 7.84	**Pump Type:** Whaler pump
C. Liquid Depth (ft) (A-B): 18.97	**F. Three Well Volumes (gal) (E3):** 23.53	**Pump Intake Depth:** ---

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (^{o}C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
918	7.40	0.668	>1,000	10.5	11.19	102	19.36	---	---
925	7.09	0.679	>1,000	9.79	10.12	117	22.05	---	---
928	7.15	0.693	>1,001	9.34	10.7	116	22.30	---	---
931	7.07	0.683	>1,002	7.47	10.53	106	25.25	---	---
935	7.14	0.676	>1,003	6.31	10.5	77	25.22	---	---
939	7.23	0.696	>1,004	8.77	10.52	95	25.75	---	---
942	7.16	0.703	>1,005	8.50	10.93	104	26.26	---	---
945	7.14	0.674	>1,006	8.30	11.65	89	27.25	---	---
952	7.29	0.673	>1,007	6.32	10.86	71	29.2	---	---
955	7.26	0.671	>1,008	6.52	11.25	60	29.85	---	---

Total Quantity of Water Removed (gal):	---	**Sampling Time:**	N/A
Samplers:	HW/RP	**Split Sample With:**	N/A
Sampling Date:	N/A	**Sample Type:**	N/A

COMMENTS AND OBSERVATIONS: Well purged dry at 0958. Switched between whaler pump and hand surging to clear bottom of well.

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-06	**EA Personnel:** Hilary Williams / Robert Peterson	**Client:** NYSDEC - Lackawanna Former Incinerator Site
Location: Lackawanna, NY	**Well Condition:** Good	**Weather:** sunny, ~35 degrees F
Sounding Method: Heron Skinny Dipper Water Level Meter	**Gauge Date:** 7-Nov-12 **Gauge Time:** 9:45	**Measurement Ref:** TOC
Stick Up/Down (ft): Down ~0.3 ft	**PID Headspace Reading:** NA	**Well Diameter (in):** 2"

Purge Date: 7-Nov-12	**Purge Time:** 10:00
Purge Method: Waterra pump, hand surge, bailer	**Field Technician:** HW / RP

Well Volume

A. Well Depth (ft): 28.81	**D. Well Volume (ft):** 0.47	**Depth/Height of Top of PVC:** Up ~2 ft.
B. Depth to Water (ft): 7.39	**E. Well Volume (gal) (C*D):** 10.00	**Pump Type:** Whaler pump
C. Liquid Depth (ft) (A-B): 21.42	**F. Three Well Volumes (gal) (E3):** 30.01	**Pump Intake Depth:** N/A

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (^{o}C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1007	7.32	1.07	>1,000	6.93	11.07	89	10.61	---	---
1011	7.15	1.06	>1,000	4.82	11.61	29	14.95	---	---
1014	7.18	1.06	>1,000	4.99	12.61	33	16.72	---	---
1017	7.16	1.04	>1,000	3.98	11.92	12	18.30	---	---
1020	7.19	1.03	>1,000	4.83	11.39	7	19.29	---	---
1023	7.19	0.952	>1,000	1.76	10.86	-56	19.53	---	---
1028	7.19	0.941	>1,000	3.69	10.77	-48	19.88	---	---
1031	7.29	0.976	>1,000	1.31	11.11	-72	19.71	---	---
1036	7.2	0.993	>1,000	3.66	11.03	-44	20.12	---	---
`039	7.22	1.01	>1,000	3.09	11.25	-25	20.11	---	---
1042	7.26	1.03	>1,000	2.68	11.89	-24	20.51	---	---
1045	7.2	0.988	>1,000	1.46	11.94	-48	22.85	---	---
1051	7.25	0.978	>1,000	3.14	10.77	-55	23.3	---	---
1054	7.22	0.97	>1,000	2.05	11.22	-77	24.61	---	---
1057	7.26	0.95	>1,000	2.55	10.91	-94	25.75	---	---
1100	7.27	0.974	>1,000	2.00	11.18	-110	26.82	---	---
1104	7.30	1.010	>1,000	3.16	10.90	-90	28.71	---	---
1107	7.29	1.080	>1,000	1.80	10.83	-87	28.81	---	---
1112	7.33	1.120	>1,000	3.09	10.66	-89	28.97	---	---
Well purged dry. Let well recharge overnight, continued purge on 11/8/2012									
1316	7.32	0.892	>1,000	4.46	11.41	37	13.55	---	---
1321	7.23	0.829	>1,000	4.57	12.8	47	23.50	---	---
1324	7.23	0.842	>1,000	4.57	13.29	54	23.77	---	---
1327	7.22	0.843	>1,000	5.19	12.49	60	26.46	---	---
Well purged dry at 1329									

Total Quantity of Water Removed (gal):	---	**Sampling Time:**	N/A
Samplers:	HW/RP	**Split Sample With:**	N/A
Sampling Date:	N/A	**Sample Type:**	N/A

COMMENTS AND OBSERVATIONS: Began using waterra pump - would not draw water. Used tubing and footvalve by hand until 1035. Bottom cleared, started using bailer for remainder of well. Well went dry at 1113, let well recharge, restarted purge on 11/8/12

11/8/12: water very turbid. Well purged dry at 1329.

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-07	**EA Personnel:** Hilary Williams / Robert Peterson	**Client:** NYSDEC - Lackawanna Former Incinerator Site
Location: Lackawanna, NY	**Well Condition:** Good	**Weather:** sunny, ~35 degrees F
Sounding Method: Heron Skinny Dipper Water Level Meter	**Gauge Date:** 7-Nov-12 **Gauge Time:** 11:26	**Measurement Ref:** TOC
Stick Up/Down (ft): Down ~0.3 ft	**PID Headspace Reading:** NA	**Well Diameter (in):** 2"

Purge Date: 7-Nov-12	**Purge Time:** 11:35
Purge Method: Hand pump using tubing from waterra; bailer	**Field Technician:** HW / RP

Well Volume

A. Well Depth (ft): 27.15	**D. Well Volume (ft):** 0.35	**Depth/Height of Top of PVC:** Down ~0.3ft
B. Depth to Water (ft): 11.22	**E. Well Volume (gal) (C*D):** 5.53	**Pump Type:** Whaler pump
C. Liquid Depth (ft) (A-B): 15.93	**F. Three Well Volumes (gal) (E3):** 16.60	**Pump Intake Depth:**

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (^{o}C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1140	6.68	1.27	>1,000	3.26	9.81	45	13.25	---	---
1148	6.77	1.18	>1,000	6.77	9.33	32	13.91	---	---
1151	6.72	1.2	>1,000	2.37	9.91	-28	14.95	---	---
1200	6.77	1.15	>1,000	2.24	10.55	-64	14.61	---	---
1205	6.75	1.22	>1,000	3.95	10.41	-7	17.55	---	---
1208	6.66	1.22	>1,000	4.65	10.65	-5	17.75	---	---
1212	6.7	1.3	>1,000	3.65	10.8	-14	18.32	---	---
1215	6.71	1.3	>1,000	2.20	11.07	-35	19.38	---	---
1218	6.73	1.16	>1,000	1.78	10.64	-69	21.1	---	---
1222	6.76	1.11	>1,000	1.91	10.14	-99	22.21	---	---
1225	6.76	1.09	>1,000	1.71	10.32	-118	23.15	---	---
1228	6.78	1.1	>1,000	1.72	10.36	-123	24.22	---	---
1232	6.8	1.07	>1,000	1.94	10.44	-123	25.38	---	---
1235	6.85	1.04	>1,000	2.1	10.37	-98	25.8	---	---
1238	6.84	1.01	>1,000	4.27	10.17	-98	25.88	---	---
1243	6.92	0.991	>1,000	2	10.1	-89	25.45	---	---
1246	7	0.998	>1,000	6.13	10.17	-21	25.8	---	---
1249	7.02	0.974	>1,000	6.35	10.31	2	25.8	---	---
1252	7.06	0.96	>1,000	6.03	9.91	11	25.8	---	---
1256	7.09	0.964	>1,000	5.95	9.49	17	25.5	---	---
1300	7.04	0.926	>1,000	4.01	9.93	-10	25.35	---	---
1304	7.07	0.925	>1,000	3.63	9.61	-2	---	---	---
Well purged dry. Let well recharge overnight, continued purge on 11/8/2012									
1348	7.31	0.939	>1,000	5.42	10.92	83	14.65	---	---
1351	7.17	0.926	>1,000	4.98	11.35	76	16.45	---	---
1354	7.14	0.945	>1,000	4.2	11.63	64	19.34	---	---
1357	7.1	0.982	>1,000	4.8	11.49	67	21.55	---	---
1400	7.06	1	>1,000	6.84	11.28	77	23.83	---	---
1403	7.08	1.03	>1,000	6.53	11.24	77	25.43	---	---
1406	7.1	0.907	>1,000	5.58	11.09	67	26.31	---	---
Well purged dry.									

Total Quantity of Water Removed (gal):	---	**Sampling Time:**	N/A
Samplers:	HW/RP	**Split Sample With:**	N/A
Sampling Date:	N/A	**Sample Type:**	N/A

COMMENTS AND OBSERVATIONS: Tried using waterra pump - would not work. Hand pumped using tubing and foot valve. Switched to bailer at 1200, removed 2 bailers of water per reading. Well purged dry at 1307, let well recharge overnight

11/8/2012: purged using whaler pump. Water much clearer than on 11/7/2012

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-08	**EA Personnel:** Hilary Williams / Robert Peterson	**Client:** NYSDEC - Lackawanna Former Incinerator Site
Location: Lackawanna, NY	**Well Condition:** Good	**Weather:** Sunny, ~30 degrees F
Sounding Method: Heron Skinny Dipper Water Level Meter	**Gauge Date:** 8-Nov-12 **Gauge Time:** 11:00	**Measurement Ref:** TOC
Stick Up/Down (ft): Down ~0.3 ft	**PID Headspace Reading:** NA	**Well Diameter (in):** 2"

Purge Date: 8-Nov-12	**Purge Time:** 11:03
Purge Method: Hand surge and whaler pump	**Field Technician:** HW / RP

Well Volume

A. Well Depth (ft): 23.05	**D. Well Volume (ft):** 0.26	**Depth/Height of Top of PVC:** Down ~0.3 ft
B. Depth to Water (ft): 10.92	**E. Well Volume (gal) (C*D):** 3.21	**Pump Type:** Whaler pump
C. Liquid Depth (ft) (A-B): 12.13	**F. Three Well Volumes (gal) (E3):** 9.62	**Pump Intake Depth:** ---

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (^{o}C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1106	7.16	0.749	>1,000	3.97	12.39	-61	13.22	---	---
1109	7.24	0.744	>1,000	1.85	11.44	-379	13.57	---	---
1114	7.22	0.86	>1,000	4.57	13.09	-45	14.88	---	---
1117	7.23	1.09	>1,000	4.62	12.64	-4	---	---	---
1121	7.22	0.824	>1,000	2.27	12.16	-117	15.15	---	---
1124	7.23	0.939	>1,000	3.10	12.69	-57	15.69	---	---
1127	7.23	1	>1,000	2.70	12.06	-63	16.86	---	---
1132	7.18	0.826	>1,000	2.77	11.81	-182	17.14	---	---
1136	7.19	0.946	>1,000	2.68	12.5	-53	18.40	---	---
1139	7.23	0.782	>1,000	2.36	11.85	-146	18.35	---	---
1143	7.26	0.733	>1,000	2.52	11.98	-112	18.51	---	---
1146	7.23	0.746	>1,000	2.70	11.75	-96	18.75	---	---
1150	7.26	0.744	>1,000	3.81	11.06	-61	19.06	---	---
1154	7.24	0.723	>1,000	2.31	11.84	-112	19.36	---	---
1157	7.22	0.718	>1,000	2.38	11.78	-99	19.61	---	---
1201	7.27	0.731	>1,000	3.01	11.58	-81	20.12	---	---
1204	7.28	0.714	>1,000	4.40	12.8	-109	20.15	---	---
1208	7.19	0.726	>1,000	2.39	11.52	-101	20.63	---	---
1211	7.23	0.711	>1,000	3.10	11.41	-84	21.04	---	---
1214	7.26	0.691	>1,000	3.06	11.57	-96	20.81	---	---
1217	7.19	0.697	>1,000	3.02	11.47	-91	21.26	---	---
1220	7.31	0.697	>1,000	4.73	11.33	-78	21.57	---	---
1223	7.19	0.676	>1,000	2.90	11.71	-98	21.80	---	---
1227	7.24	0.674	>1,000	3.01	12.16	-108	22.29	---	---
1230	7.25	0.666	>1,000	2.91	11.98	-114	22.31	---	---

Total Quantity of Water Removed (gal):	---	**Sampling Time:**	N/A
Samplers:	HW/RP	**Split Sample With:**	N/A
Sampling Date:	N/A	**Sample Type:**	N/A

COMMENTS AND OBSERVATIONS: Alternated between hand surging and pumping to clear bottom of well. Purged dry at 1231.