



Engineers • Environmental Scientists • Planners • Landscape Architects

Project: Ontario County Landfill Expansion Well

Job Number: 574.119.001

Monitoring location: MW-20S

Development method(s): Hand Waterra

Date of activity: 3/14/2006

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	10.51	18.2	13.2	5	2		
MP/Notes:							

Date	Time	Quantity Purged (gal, cumulative)	Purge Water Color Change	Sediment	Odor			
3/14/2006	15:52	6.5	Light Brown	Silt Present	None			
3/14/2006	16:03	7	V.Light Brown	SAA	SAA			
3/14/2006	16:22	7.5	SAA	SAA	SAA			
3/14/2006	16:31	8	SAA	SAA	SAA			
3/14/2006	16:48	9	SAA	SAA	SAA			

Notes: Well Developed

Total Volume Purged: 9 Gallons

SAA = Same as above

Samplers: BJM/JGH



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Project: Ontario County Landfill Expansion Well

Job Number: 574.119.001

Monitoring location: MW-20D

Development method(s): Waterra Pump

Date of activity: 3/14/2006

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	16.71	94.4	84.4	10	2		
MP/Notes:							

Date	Time	Quantity Purged (gal, cumulative)	Purge Water Color Change	Sediment	Odor			
3/14/2006	15:07	5	Dark Brown	Silty	None			
3/14/2006	15:23	10	SAA	SAA	SAA			
3/14/2006	15:33	12	SAA	SAA	SAA			
3/14/2006	15:58	15	SAA	SAA	SAA			
3/14/2006	16:44	17	Lighter Brown	Less Silt	SAA			

Notes: Well Developed

Total Volume Purged: 17 Gallons

SAA = Same as above

Samplers: BJM/JGH



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Project: Ontario County Landfill Expansion Well

Job Number: 574.119.001

Monitoring location: MW-21S

Development method(s): Hand Waterra

Date of activity: 3/14/2006

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	8.46	15.04	10.04	5	2		
MP/Notes:							

Date	Time	Quantity Purged (gal, cumulative)	Purge Water Color Change	Sediment	Odor			
3/14/2006	14:45	2	Dk. Brown	Heavy Sediment	None			
3/14/2006	15:16	3.5	SAA	SAA	SAA			
3/14/2006	16:35	5	lighter Brown	Less Sediment	SAA			

Notes: Well purges dry fast, slow recharge, well dev.

Total Volume Purged: 5 Gallons

SAA = Same as above

Samplers: BJM/JGH



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Job Number: 574.119.001

Monitoring location: MW-21D

Development method(s): Waterra Pump

Date of activity: 3/14/2006

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	92.65	95.3	84.8	10.5	2		
MP/Notes:							

Date	Time	Quantity Purged (gal, cumulative)	Purge Water Color Change	Sediment	Odor			
3/14/2006	14:36	5	Grey	Heavy Sediment	None			
3/14/2006	14:42	10	SAA	SAA	SAA			
3/14/2006	14:43	12.5	LightGray	Less Sediment	SAA			
3/14/2006	15:07	16.5	SAA	SAA	SAA			

Notes: Well developed

Total Volume Purged: 16.5 Gallons

SAA = Same as above

Samplers: BJM/JGH

Project: Ontario County Landfill Expansion Well

Job Number: 574.119.001

Monitoring location: MW-22S

Development method(s): _____

Date of activity: 3/14/2006

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	8.75	20.46	15.46	5	2		
MP/Notes:							

Date	Time	Quantity Purged (gal, cumulative)	Purge Water Color Change	Sediment	Odor			

Notes: _____

Total Volume Purged: _____

Samplers: _____

Project: Ontario County Landfill Expansion WellJob Number: 574.119.001Monitoring location: MW-22D (Artesian) Development method(s): Hand BailerDate of activity: 3/14/2006

Well information:	Static Water Level	Total Depth	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
MP/Notes:							

Date	Time	Quantity Purged (gal, cumulative)	Purge Water Color Change	Sediment	Odor			
3/14/2006	-	0.75	Clear	None	None			

Notes: Removed several bailers to verify artesianTotal Volume Purged: 0.75 GallonsSamplers: BJM/JGH



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Project: Ontario County Landfill Expansion Well

Job Number: 574.119.001

Monitoring location: MW-23S

Development method(s): Waterra Pump

Date of activity: 3/14/2006

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	12.95	63.56	53.56	10	2		
MP/Notes:							

Date	Time	Quantity Purged (gal, cumulative)	Purge Water Color Change	Sediment	Odor			
3/14/2006	15:30	0	Dark Brown	Heavy Sediment	None			
3/14/2006	15:33	5	SAA	SAA	None			
3/14/2006	15:42	10	Med. Dark Brown	SAA	None			
3/14/2006	15:52	13	SAA	SAA	None			
3/14/2006	15:54	15	L. Med. Brn / Gray	Some Fines	None			
3/14/2006	15:57	17	SAA	SAA	None			
3/14/2006	16:23	20	V.L. Med Brn/Gray	Little Fines	None			

Notes: Well Developed

Total Volume Purged: 20 gallons

SAA = Same as above

Samplers: BJM/JGH



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Project: Ontario County Landfill Expansion Well

Job Number: 574.119.001

Monitoring location: MW-23D

Development method(s): Waterra

Date of activity: 3/14/2006

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	-	-	-	-	2		
MP/Notes:							

Date	Time	Quantity Purged (gal, cumulative)	Purge Water Color Change	Sediment	Odor			
3/14/2006	16:20	5	Dk. Brn Gray	Heavy Sediment	None			
3/14/2006	16:45	10	Light Brn. Gray	SAA	None			
3/14/2006	16:55	12.5	SAA	SAA	None			
3/14/2006	17:10	15	SAA	SAA	None			

Notes: Well goes dry, well developed Total Volume 15 Gallons

SAA = Same as above Samplers: BJM/JGH

Project: Ontario County Landfill Expansion Well

Job Number: 574.119.001

Monitoring location: MW-24S

Development method(s): Hand Waterra

Date of activity: 3/14/2006

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	-	-	-	-	2		
MP/Notes:							

Date	Time	Quantity Purged (gal, cumulative)	Purge Water Color Change	Sediment	Odor			
3/14/2006	13:40	3	Med. L. Brn. Gray	Little fines	None			
3/14/2006	13:40	5	SAA	SAA	SAA			
3/14/2006	13:54	7	Light Brn. Gray	SAA	None			
3/14/2006	14:35	8	SAA	SAA	None			
3/14/2006	14:45	9	SAA	None	None			
3/14/2006	15:46	11	V.L. Brn. Gray	None	None			
3/14/2006	16:00	12	SAA	SAA	SAA			

Notes: Well goes dry, well developed

Total Volume Purged: 12 Gallons

SAA = Same as above

Samplers: BIM/IGH

Project: Ontario County Landfill Expansion Well

Job Number: 574.119.001

Monitoring location: MW-24D

Development method(s): Waterra Pump

Date of activity: 3/14/2006

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	3.75	45.89	35.89	10	2		
MP/Notes:							

Date	Time	Quantity Purged (gal, cumulative)	Purge Water Color Change	Sediment	Odor			
3/14/2006	13:13	0	Dark Brown	Lots of Fines	None			
3/14/2006	13:16	5	Dark Brown	SAA	SAA			
3/14/2006	13:24	10	Med. Dark Brown	SAA	SAA			
3/14/2006	13:30	15	SAA	SAA	SAA			
3/14/2006	13:37	20	SAA	SAA	SAA			
3/14/2006	13:44	25	L. Brown Gray	Some	SAA			
3/14/2006	14:31	30	L. Brown Gray	Some	SAA			
3/14/2006	14:36	35	L. Brown Gray	Some	SAA			
3/14/2006	14:43	40	Very L. Brown	Little Sediment	SAA			
3/14/2006	14:49	45	SAA	SAA	SAA			

Notes: Well Developed

Total Volume Purged: 45 Gallon

SAA = Same as above

Samplers: BJM/JGH



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Project: Ontario County Landfill Expansion Well

Job Number: 574.119.001

Monitoring location: MW-25S

Development method(s): Hand Waterra

Date of activity: 3/13/2006

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	4.93	12.94	7.94	5			
MP/Notes:							

Date	Time	Quantity Purged (gal, cumulative)	Purge Water Color Change	Sediment	Odor			
3/13/2006	13:44	0	Light Brown	Some Fines	None			
3/13/2006	13:49	3.5	Very Light Brown	SAA	None			
3/13/2006	13:53	4.5	SAA	SAA	None			
3/13/2006	14:37	5	SAA	SAA	None			

Notes: Well dry @ 5 gal, well developed Total Volume Purged: 5 Gallons

SAA = Same as above Samplers: BJM/JGH



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WELL DEVELOPMENT LOG

Project: Ontario County Landfill Expansion Well

Job Number: 574.119.001

Monitoring location: MW-25D Development method(s): Hand Waterra

Date of activity: 3/8/2006

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	5.46	20.91	10.91	10			
MP/Notes:							

Date	Time	Quantity Purged (gal, cumulative)	Purge Water Color Change	Sediment	Odor			
3/8/2006	12:39	0	Dark Brown	Heavy Sediment	None			
3/8/2006	12:43	5	SAA	SAA	SAA			
3/8/2006	12:48	10	Med. Dark Brown	Lots of Sediment	SAA			
3/8/2006	12:52	15	Light Brown	SAA	SAA			
3/8/2006	13:49	20	SAA	SAA	SAA			
3/8/2006	13:56	25	SAA	Fines Present	SAA			
3/8/2006	14:02	30	L. Brown / Gray	Fines Present	SAA			

Notes: Well Developed Total Volume Purged: 30 gallons

SAA = Same as above Samplers: BJM/JGH



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WELL DEVELOPMENT LOG

Project: Ontario County Landfill Expansion Well

Job Number: 574.119.001

Monitoring location: MW-26D Development method(s): Hand Waterra

Date of activity: 3/8/2006

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	4.55	9.93	4.93	5	2		
MP/Notes:							

Date	Time	Quantity Purged (gal, cumulative)	Purge Water Color Change	Sediment	Odor			
3/8/2006	14:33	2.25	Dark Brown	Heavy Sediment	None			
3/8/2006	14:49	3	SAA	SAA	SAA			
3/8/2006	14:55	4	Lighter Brown	Lots of Fines	SAA			

Notes: Well Dry at 4 gal. - Well Developed Total Volume Purged: 4 Gallons

SAA = Same as above Samplers: _____



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WELL DEVELOPMENT LOG

Project: Ontario County Landfill Expansion Well

Job Number: 574.119.001

Monitoring location: MW-27D Development method(s): Hand Water

Date of activity: 3/8/2006

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	5.11'	12.95	7.95	5	2		
MP/Notes:							

Date	Time	Quantity Purged (gal, cumulative)	Purge Water Color Change	Sediment	Odor			
3/8/2006	13:31	0	Dark Brown	Lots of Fines	None			
3/8/2006	13:43	5	Dark Brown	Lots of Fines	None			
3/8/2006	13:54	10	SAA	SAA	SAA			
3/8/2006	14:30	12.5	SAA	SAA	SAA			
3/8/2006	14:15	15	Light Brown	Less Fines	SAA			
3/8/2006	14:25	17.5	SAA	SAA	SAA			
3/8/2006	14:49	22.5	SAA	SAA	SAA			
3/8/2006	14:59	25	Lighter Brown	Trace Fines	SAA			

Notes: Well Developed Total Volume Purged: 25 gallons

SAA = Same as above Samplers: BJM/JGH



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WELL DEVELOPMENT LOG

Project: Ontario County Landfill Expansion Well

Job Number: 574.119.001

Monitoring location: MW-28 Development method(s): Water Pump

Date of activity: 12/16/2008

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	2.56	11.22	6.22	5	2		
MP/Notes:							

Date	Time	Turbidity (NTU)	Temp. (C)	Sp. Cond. (US/cm)	ORP (mV)	pH	Quantity Purged (gal, cumulative)	Visual/Olfactory Notes
12/16/2008	14:02	186	4.3	1310	100	6.97	50	Slight Haze, some fine, no odor
12/16/2008	14:08	177	4.1	1311	86	6.93	50.25	SAA
12/16/2008	14:13	119	4.3	1308	87	6.92	50.5	SAA
12/16/2008	14:18	104	4.4	1307	86	6.91	51	SAA

Notes: Purge water started out Dark Gray, very silty

Total Volume Purged: 51 Gallons

ended up slight haze, trace fine, well developed

Samplers: BJM



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WELL DEVELOPMENT LOG

Project: Ontario County Landfill Expansion Well

Job Number: 574.119.001

Monitoring location: MW-29

Development method(s): Waterra Pump

Date of activity: 12/16/2008

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Other (Specify)	Other (Specify)
	2.95	12.09	7.09	5	2		
MP/Notes:							

Date	Time	Turbidity (NTU)	Temp. (C)	Sp. Cond. (US/cm)	ORP (mV)	pH	Quantity Purged (gal, cumulavtive)	Visual/Olfactory Notes
12/16/2008	10:55	30	3.8	18	13	6.28	30	Choc. Brown w/black flecks, no odor
12/16/2008	11:17	1769	2.8	1677	528	6.98	40	Choc. Brown w/black flecks, no odor
12/16/2006	11:47	827	4.3	17	5.27	6.94	60	SAA
12/16/2006	12:03	2362	3.7	1650	535	6.93	70	SAA
12/16/2008	14:25	2115	3.4	1697	4	6.99	96	SAA

Notes: Dark Choc. Brown with black flecks to milk

Total Volume Purged: 96 Gallons

choc. Brown with black flecks - considered developed

Samplers: BJM