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cc
bcc
Subject Ellsworth request

Ross--I've looked over some the well logs for the residential wells in the residential area around the Ellsworth site and the geology, in a VERY general way, looks as follows (all depths in feet from ground surface)

0-1 topsoil
1-60 clay
60-120 sand and gravel or clay
120 and beyond bedrock

if you figure the average basement has a depth of about 8-10 feet, that means in most of this area there's something like 50 ft or so of low-permeability material between the VOCs dissolved in the ground water and the bottom of someone's basement.

EPA Region 5 Records Ctr.
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Table 2. Well information and water levels in select residential-supply wells in the vicinity of the Ellsworth Industrial Site, Downer's Grove, Illinois, September 23-24, 2003. [?-unknown; Bold denotes uncertain of accuracy; BR, bedrock aquifer; >, greater than; <, less than]

			September 22-23, 2003		October 12, 2004			
Well name	Measuring-Point Altitude (feet above sea level)	Geophysical Logs ?	Depth to Water (feet)	Water-Level Altitude (feet above sea level)	Depth to Water (feet)	Water-Level Altitude (feet above sea level)	Depth of Open Interval (feet)	Change (feet)
RW1	744.61		98.10	646.51	97.15	647.46	115-140	0.95
RW2	760.20		112.25	647.95	111.50	648.70	128-180	0.75
RW3	711.79		66.10	645.69	65.73	646.06	?	0.37
RW4	747.44		101.19	646.25	98.66	648.78	?-240	2.53
RW5	770.80		126.27	644.53	-	-	?	-
RW6	717.35		65.90	651.45	65.28	652.07	106-185	0.62
RW7	773.09		129.20	643.89	125.25	647.84	?	3.95
RW8	739.92		92.00	647.92	91.15	648.77	?	0.85
RW9	730.39		82.19	648.20	81.35	649.04	?	0.84
RW10	745.55		101.39	644.16	98.25	647.30	?	3.14
RW11	747.55		100.75	646.80	-	-	?	-
RW12	738.36		90.62	647.74	88.15	650.21	?	2.47
RW13	745.57		**>101**	**<645.57**	98.62	646.95	?	-
RW14	744.91		99.70	645.21	-	-	?	-
RW15	743.58		95.20	648.38	94.45	649.13	?	0.75
RW16	745.20		101.60	643.60	97.75	647.45	110-160	3.85
RW17	767.77		119.40	648.37	118.70	649.07	120-205	0.70
RW18	738.00		89.66	648.34	88.82	649.18	102-185	0.84
RW19	760.09		**116.62**	**643.47**	111.38	648.71	100-?	5.24
RW20	744.19		97.67	646.52	96.95	647.24	115-140	0.72
RW21	752.61		**99.80**	**652.81**	105.14	647.47	111-175	-5.34
RW22	765.09		115.09	650.00	116.45	648.64	110-190	-1.36
RW23	765.61		117.33	648.28	116.60	649.01	120-205	0.73
RW24	738.57		93.05	645.52	91.10	647.47	120-140	1.95
RW25	759.55		111.50	648.05	-	-	130-175	-
RW26	757.15		108.98	648.17	108.30	648.85	120-170	0.68

RW27	748.39	104.10	644.29	99.85	648.54	126-185	4.25
RW28	763.47	120.05	643.42	115.75	647.72	126-205	4.30
RW29	754.57	112.74	641.83	**110.98**	643.59	144-185	1.76
RW30	742.81	94.50	648.31	-	-	116-175	-
RW31	749.00	104.90	644.10	-	-	128-171	-
RW32	757.86	112.85	645.01	-	-	105-150	-
RW33	763.32	**121**	**642.32**	114.55	648.77	120-205	6.45
RW34	731.09	86.20	644.89	-	-	?	-
RW35	755.89	108.31	647.58	107.57	648.32	125-163	0.74

Table 1. Well information and water-level data from select monitoring wells, Ellsworth Industrial site, Downers Grove, Illinois. [NT, not taken; -, unavailable; Bold denotes uncertain value]

					September 23, 2003		October 12, 2004	
Well	Geologic Deposit Monitored by Well	Measuring Point Altitude (feet above sea level)	Depth of Screen Interval (feet)	Altitude of Bottom of Open Interval (feet above sea level)	Depth to Water (feet)	Water-Level Altitude (feet above sea level)	Depth to Water (feet)	Water-Level Altitude (feet above sea level)
BD-1I	Drift	696.56	27-37	662	25.12	671.44	-	-
BD-1D	Bedrock	696.25	60-70	626	46.62	649.63	-	-
BD 4I	Drift	701.65	47-57	**645**	43.01	658.64	**43.52**	658.13
BD 4D	Bedrock	701.83	71-81	620	52.48	649.35	**51.95**	649.88
BD 5I	Drift	689.05	37-47	**642**	32.52	656.53	32.15	656.90
BD 5D	Bedrock	689.31	54-64	622	39.38	649.93	38.67	650.64
BD 6I	Drift	692.91	45-50	**643**	43.01	649.9	42.34	650.57
BD 6D	Bedrock	692.97	64-74	619	43.29	649.68	42.63	650.34
BD 7I	Drift	690.02	36-46	**644**	32.96	657.06	32.59	657.43
BD 7D	Bedrock	689.64	60-70	620	40.37	649.27	39.42	650.22
BD 8I	Drift	689.86	35-45	**645**	39.19	650.67	38.71	651.15
BD 8D	Bedrock	690.00	68-78	610	40.22	649.78	39.57	650.43
BD 9I	Drift	715.19	37-42	673	dry		45.30	669.89
BD 9D	Bedrock	715.12	79-89	623	63.91	651.21	63.18	651.94
BD 10D	Bedrock	717.35	79-89	628	66.26	651.09	65.47	651.88
BD-11D	Bedrock	703.69	94-104	600	-	-	-	-
BD 12D	Bedrock	700.30	78-88	612	51.20	649.1	50.60	649.70
BD 13I	Drift	701.46	41-46*	634	**7.44**	694.02	-	- -
BD 13D	Bedrock	701.46	79-89	612	52.56	648.9	51.84	649.62
BD 14I	Drift	698.73	42-47	651	dry	<651	**46.80**	651.93
BD 14D	Bedrock	699.28	73-83	616	48.39	650.89	47.65	651.63
BD 16D	Bedrock	705.36	74-84	621	56.90	648.46	56.15	649.21
SB 17I	Drift	694.96	35-45	650	*37.85*	657.11	*63.09*	631.87
BD 18D	Bedrock	706.85	81-91	616	**63.80**	643.05	57.26	649.59
OV6I	Drift	693.60	40-50	**644**	-	-	43.25	650.35
BD-15I	drift	690.22	35-45	**645**	-	-	-	-
DG-1I	top bedrock	688.31	20-30	668	-	-	28.41	659.90
DG-1D	top bedrock	686.94	35-45	**642**	-	-	27.21	659.73
DG-2I	top bedrock	698.62	47-57	**641**	-	-	42.17	656.45

DG-3I								
DG-4I	top bedrock							
DG-5I	top bedrock	701.56						
DG-6I	top bedrock	703.77	50-60					
DG-15I	top bedrock	694.34	50-60	**641**				
SB-15I	mid-drift	697.93	50-60	**643**	-			
LD-1I	top bedrock	702.92	50-60	634	-	-		
		702.09	55-65	638	-	-	48.89	
		708.03	32-37	637	-	-	53.41	652.67
			54-64	665	-	-	44.20	650.36
				644	-	-	46.67	650.14
					-	-		651.26
						-	34.34	702.92
							58.22	667.75
								649.81