

Table 2-3
2007 Remediation Well Pumpage Report

2007 BNL Groundwater Status Report

	Operable Unit 1			HFBR-Tritium Remediation Project				Tritium Remediation
	Groundwater Withdrawal (1,000 gallons per month)							
	115-27 EW-1	115-43 EW-2	RA V	105-040 EW-9	105-039 EW-10	105-041 EW-11	096-119 EW-16	
BNL Well No.								
Extraction Well								
Screen Int.								
elevation (ft. msl)	-90 to -130	-40 to -80		-61 to -81	-60 to -80	-60 to -80	-14 to -54	
depth (feet)	150 to 190	100 to 140	Monthly Total	130 to 150	130 to 150	130 to 150	80 to 120	Monthly Total
January	1,330	2,713	4,043	0	0	0	0	0
February	7,244	14,468	21,712	0	0	0	0	0
March	0	0	0	0	0	0	0	0
April	8,449	17,295	25,743	0	0	0	0	0
May	0	0	0	0	0	0	0	0
June	6,061	12,759	18,820	0	0	0	0	0
July	9,265	16,380	25,645	0	0	0	0	0
August	8,067	3,271	11,338	0	0	0	0	0
September	2,063	0	2,063	0	0	0	0	0
October	2,255	7	2,261	0	0	0	0	0
November	2,435	0	2,435	0	0	306	918	1,224
December	7,612	15,805	23,417	0	0	1,557	4,670	6,226
Annual Average (K gal/month)	4,541	6,822	11,363	0	0	157	472	621

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

HFBR = High Flux Beam Reactor

HFBR Tritium Remediation Project placed in standby mode September 2000

Elevations rounded to nearest foot

Table 2-3, cont.
2007 Remediation Well Pumpage Report

2007 BNL Groundwater Status Report

Operable Unit III - Pump and Treat							
MIDDLE ROAD SYSTEM - Groundwater Withdrawal (1,000 gallons per month)							
BNL Well No.	113-23	113-24	113-25	113-26	113-27	106-66	MIDDLE ROAD
Extraction Well	RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	
Screen Int. elevation (ft. msl)	-17 to -57	-99 to -129	-159 to -199	-98 to -128	-91 to -121	-124 to -154	
depth (feet)	90 to 130	170 to 200	228 to 268	150 to 180	150 to 180	188 to 218	Monthly Total
January	5,153.72	4,639.09	6,671.06	0.00	0.00	5,108.04	21,572
February	4,283.54	3,927.83	5,678.49	0.00	0.00	4,163.29	18,053
March	2,731.89	2,435.87	3,559.21	0.00	0.00	2,621.82	11,349
April	1,322.14	3,275.56	4,281.23	0.00	0.00	2,207.21	11,086
May	42.01	4,170.34	5,656.91	0.00	0.00	425.38	10,295
June	379.58	1,063.37	1,401.75	0.00	0.00	0.00	2,845
July	193.82	897.18	1,159.09	2.47	2.50	0.96	2,256
August	0.15	8.06	9.80	0.00	0.00	0.00	18
September	0.00	2,482.73	2,883.62	0.00	0.00	1,680.03	7,046
October	0.00	5,115.87	5,495.54	3.62	3.31	3,647.02	14,265
November	0.00	3,927.28	6,355.58	0.00	0.00	3,070.40	13,353
December	6,687.97	3,906.01	5,612.16	0.79	0.00	2.52	16,209
Annual Average (K gal/month)	1,726	2,983	4,054	1	0	1,894	10,696

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

Table 2-3, cont.
2007 Remediation Well Pumpage Report

2007 BNL Groundwater Status Report

Operable Unit III - Pump and Treat								
SOUTH BOUNDARY SYSTEM - Groundwater Withdrawal (1,000 gallons per month)								
BNL Well No.	121-017	121-016	121-015	122-014	122-013	122-012	122-30	SOUTH BOUNDARY
Extraction Well	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-12	
Screen Int.								
elevation (ft. msl)	-79 to -119	-88 to -108 -118 to -128	-91 to -131	-105 to -145	-115 to -155	-131 to -151 -171 to -191	-124 to -164	
depth (feet)	150 to 190	160 to 180 190 to 200	160 to 200	160 to 200	170 to 210	190 to 210 230 to 250	180 to 220	Monthly Total
January	0.00	4,618.09	4,965.05	4,822.90	4,802.17	1.90	2.26	19,212
February	0.00	4,040.15	4,262.72	4,040.28	3,800.26	0.00	0.00	16,143
March	0.02	1,909.45	2,770.89	2,407.51	1,671.56	0.00	0.00	8,759
April	0.00	3,250.78	3,328.66	3,267.63	0.00	0.00	0.27	9,847
May	5,590.61	4,375.20	4,414.35	4,333.80	0.01	0.00	0.00	18,714
June	1,493.38	1,169.73	1,113.27	1,151.03	0.00	0.00	0.00	4,927
July	2,187.74	812.90	1,760.62	1,680.09	0.00	0.00	0.42	6,442
August	1,050.29	145.68	846.05	783.14	0.00	0.00	0.00	2,825
September	2,873.04	0.00	2,261.11	2,158.35	396.27	0.00	0.00	7,689
October	6,252.68	0.00	5,069.59	4,787.67	1,125.76	0.00	0.00	17,236
November	4,870.69	0.00	4,124.06	3,869.53	0.00	0.12	0.00	12,864
December	5,838.95	2,071.01	4,233.22	1.16	0.07	0.01	0.00	12,144
Annual Average (K gal/month)	2,536	1,857	3,260	2,767	970	0.17	0.25	11,400

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

Table 2-3, cont.
2007 Remediation Well Pumpage Report

2007 BNL Groundwater Status Report

Operable Unit III - Pump and Treat (K gal/month)							
CARBON TETRACHLORIDE SYSTEM							
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	085-158 EW-13 +50 to +30 35 to 55	085-159 EW-14 +50 to +30 32 to 52	095-278 EW-15 -7.4 to -27.4 65 to 85	CARBON TETRACHLORIDE SYSTEM Monthly Total	SOUTH BOUNDARY Monthly Total	MIDDLE ROAD Monthly Total	OU-III Monthly Total
January	0	0	0	0	19,212	21,572	40,784
February	0	0	0	0	16,143	18,053	34,197
March	0	0	0	0	8,759	11,349	20,108
April	0	0	0	0	9,847	11,086	20,933
May	0	0	0	0	18,714	10,295	29,009
June	0	0	0	0	4,927	2,845	7,772
July	0	0	0	0	6,442	2,256	8,698
August	0	0	0	0	2,825	18	2,843
September	0	0	0	0	7,689	7,046	14,735
October	0	0	0	0	17,236	14,265	31,501
November	0	0	0	0	12,864	13,353	26,218
December	0	0	0	0	12,144	16,209	28,354
Annual Average (K gal/month)	0	0	0	0	11,400	10,696	22,096

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

Table 2-3, cont.
2007 Remediation Well Pumpage Report

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Operable Unit III - Pump and Treat								
OFFSITE INDUSTRIAL PARK SYSTEM - Groundwater Withdrawal (1,000 gallons per month)								
BNL Well No.	000-231	000-233	000-235	000-237	000-239	000-241	000-243	OFFSITE INDUSTRIAL PARK
Extraction Well	UVB-1	UVB-2	UVB-3	UVB-4	UVB-5	UVB-6	UVB-7	
Screen Int.								
Influent elevation (ft. msl)	-137 to -157	115.5 to -135.5	-123 to -143	-98 to -118	-109 to -129	-110 to -130	-123 to -143	
depth (feet)	220 to 240	195 to 215	194 to 214	170 to 190	180 to 200	190 to 210	205 to 225	
Effluent elevation (ft. msl)	-82 to -102	-60.5 to -80.5	-68 to -88	-53 to -73	-54 to -74	-58 to -78	-68 to -88	Monthly
depth (feet)	165 to 185	140 to 160	139 to 159	125 to 145	125 to 145	140 to 160	150 to 170	Total
January	1,121.00	2,541.00	2,695.00	1,820.00	1,336.00	1,787.00	2,862.00	14,162
February	1,006.00	1,790.00	2,124.00	2,633.00	2,327.00	1,805.00	2,272.00	13,957
March	1,096.00	636.00	1,803.00	2,208.00	1,958.00	1,691.00	1,912.00	11,304
April	1,019.00	1,008.00	2,043.00	651.00	3.00	1,860.00	2,170.00	8,754
May	947.00	990.00	2,530.00	2,234.00	210.00	2,144.00	2,679.00	11,734
June	447.00	1,640.00	2,382.00	2,261.00	0.00	2,058.00	2,514.00	11,302
July	1.00	2,325.00	2,888.00	3,034.00	0.00	2,174.00	2,525.00	12,947
August	2.00	3,076.00	3,076.00	1,696.00	0.00	1,867.00	1,865.00	11,582
September	242.00	2,820.00	2,820.00	2,820.00	0.00	1,593.00	1,221.00	11,516
October	663.00	3,326.00	3,326.00	3,326.00	973.00	2,407.00	2,693.00	16,714
November	916.00	2,924.00	2,924.00	2,823.00	1,843.00	2,097.00	2,329.00	15,856
December	2,126.00	3,237.00	3,237.00	2,815.00	2,122.00	2,303.00	2,654.00	18,494
Annual Average (K gal/month)	799	2,197	2,660	2,360	891	1,985	2,311	13,194

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

Table 2-3, cont.
2007 Remediation Well Pumpage Report

2007 BNL Groundwater Status Report

Operable Unit III - Pump and Treat					
BUILDING 96 SYSTEM - Groundwater Withdrawal and ReInjection (1,000 gallons per month)					
BNL Well No.	095-151	095-153	095-155	095-157	BUILDING
Extraction Well	RTW-1	RTW-2	RTW-3	RTW-4	96
Screen Int.					
Influent					
elevation (ft. msl)	+34 to+24	+26 to +16	+26 to +16	+23 to +13	
depth (feet)	48 to 58	48 to 58	48 to 58	48 to 58	
Effluent					
elevation (ft. msl)	+57 to +47	+49 to +39	+49 to +39	+46 to +36	Monthly
depth (feet)	25 to 35	25 to 35	25 to 35	25 to 35	Total
January					0
February					0
March					0
April					0
May					0
June					0
July					0
August					0
September					0
October					0
November					0
December					0
Annual					
Average (K gal/month)	0	0	0	0	0

Notes:

Source: EM Field Engineer

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

RTW-2, 3 and 4 placed offline on July 13, 2004

Annual average based on actual pumping durations

**Table 2-3, cont.
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2007 BNL Groundwater Status Report

Operable Unit III - Pump and Treat			
WESTERN SOUTH BOUNDARY System (1,000 gallons per month)			
BNL Well No.	126-12	127-05	Monthly Total
Extraction Well	WSB-1	WSB-2	
Screen Int. elevation (ft. msl)	-60 to -80	-80 to -100	
depth (feet)	140 to 160	150 to 170	
January	2	3	5
February	5,748	5,894	11,642
March	224	253	477
April	0	0	0
May	6,634	7,468	14,102
June	285	321	606
July	2,877	3,272	6,149
August	3,986	4,564	8,550
September	6,167	7,047	13,214
October	897	1,025	1,922
November	5,945	6,792	12,737
December	878	1,005	1,883
Annual Average (K gal/month)	2,804	3,137	5,941

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

**Table 2-3, cont.
2007 Remediation Well Pumpage Report**

2007 BNL Groundwater Status Report

Operable Unit III - Pump and Treat		
Chem Holes Strontium-90 remediation System (1,000 gallons per month)		
BNL Well No.	106-92	Monthly Total
Extraction Well	SR-90 EW-1	
Screen Int.		
elevation (ft. msl)	+40.5 to +25.5	
depth (feet)	23.5 to 38.5	
January	336.00	336
February	262.00	262
March	296.00	296
April	243.00	243
May	220.00	220
June	46.00	46
July	67.00	67
August	134.00	134
September	216.00	216
October	223.00	223
November	8.00	8
December	190.00	190
Annual Average (K gal/month)	187	187

Notes:

Differences in averages due to rounding

Source: LTRA Project Manager

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

Table 2-3, cont.
2007 Remediation Well Pumpage Report

2007 BNL Groundwater Status Report

Operable Unit III - Pump and Treat					
LIPA SYSTEM - Groundwater Withdrawal (1,000 gallons per month)					
BNL Well No.	000-453	000-455	000-457	000-461	LIPA
Extraction Well	EW-1L	EW-2L	EW-3L	EW-4L	
Screen Int.					
elevation (ft. msl)	-111 to -131	-115 to -135	-104 to -124	-192 to -212	Monthly
depth (feet)	217 to 237	224 to 244	216 to 236	304 to 324	Total
January	3,322.00	3,512.00	3,502.00	3,020.00	13,356
February	4,270.00	4,425.00	4,462.00	4,169.00	17,326
March	4,496.00	4,485.00	4,578.00	4,232.00	17,791
April	4,509.00	4,483.00	3,510.00	4,059.00	16,561
May	3,143.00	3,200.00	4,137.00	2,715.00	13,195
June	2,751.00	2,777.00	2,806.00	2,585.00	10,919
July	1,616.00	1,749.00	1,609.00	1,504.00	6,478
August	0.00	0.00	0.00	0.00	0
September	0.00	0.00	0.00	0.00	0
October	1.00	883.00	1.00	598.00	1,483
November	3.00	430.00	2.00	384.00	819
December	3,624.20	4,292.27	0.00	335.00	8,251
Annual Average (K gal/month)*	2,301	2,511	2,036	1,951	3,518

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

* Annual average is based on actual pumping timeframe

Table 2-3, cont.
2007 Remediation Well Pumpage Report

2007 BNL Groundwater Status Report

Operable Unit III - Pump and Treat						
AIRPORT SYSTEM - Groundwater Withdrawal (1,000 gallons per month)						
BNL Well No.	800-109	800-110	800-111	800-112	800-113	AIRPORT
Extraction Well	RTW-1A	RTW-2A	RTW-3A	RTW-4A	RTW-5A	
Screen Int.						
Influent						
elevation (ft. msl)	-108 to -128	-109 to -129	-130 to -150	-184 to -204	-133 to -153	Monthly
depth (feet)	188 to 208	188 to 208	210 to 230	268 to 288	220 to 240	Total
Effluent						
elevation (ft. msl)	+25 to -15	+24 to -16	+25 to -15	+24 to -16	+22 to -18	Monthly
depth (feet)	55 to 95	55 to 95	55 to 95	60 to 100	65 to 105	Total
January	2,553	2,553	1,235.77	2,393.63	28.47	6,211
February	3,161	3,161	1,561.92	1,173.50	1,253.25	7,150
March	1,655	1,655	1,574.97	1,452.47	1,466.65	6,150
April	1,847	1,847	1,425.24	0.00	1,318.01	4,590
May	2,719	2,719	1,000.63	979.03	992.10	5,691
June	1,664	1,664	514.73	515.03	499.11	3,193
July	565	565	885.64	861.66	851.53	3,729
August	0	0	0.00	0.00	0.00	0
September	7	7	0.00	0.00	0.00	14
October	443	443	0.92	0.49	1.83	889
November	1,388	1,388	6.74	0.00	0.00	2,783
December	4,518	4,518	791.43	741.91	587.37	11,157
Annual Average (K gal/month)*	1,703	1,703	746	678	579	4,943

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

RTW-1A and RTW-2A flow estimated. Both wells share a common flow meter, individual well pumpage estimated at 50% of actual flow meter reading.

* Annual average is based on actual pumping timeframe

**Table 2-3, cont.
2007 Remediation Well Pumpage Report**

2007 BNL Groundwater Status Report

Operable Unit III - Pump and Treat			
INDUSTRIAL PARK EAST- Groundwater Withdrawal (1,000 gallons per month)			
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	EWI-1 -166 to -186 235 to 255	EWI-2 -225 to -245 295 to 315	INDUSTRIAL PARK EAST Monthly Total
January	3,781.00	2,565.00	6,346
February	690.00	553.00	1,243
March	0.00	0.00	0
April	2,041.00	1,219.00	3,260
May	5,412.00	3,526.00	8,938
June	4,794.00	3,178.00	7,972
July	5,038.00	3,475.00	8,513
August	5,108.00	3,049.00	8,157
September	4,667.00	2,681.00	7,348
October	5,413.00	3,277.00	8,690
November	182.00	109.00	291
December	4,868.00	2,903.00	7,771
Annual Average (K gal/month)	3,529	2,229	4,031

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

**Table 2-3, cont.
2007 Remediation Well Pumpage Report**

2007 BNL Groundwater Status Report

Operable Unit III - Pump and Treat			
NORTH STREET - Groundwater Withdrawal (1,000 gallons per month)			
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	000-471 NS-1 -64 to -104 165 to 205	000-473 NS-2 -96 to -126 190 to 220	NORTH STREET Monthly Total
January	8,564.00	8,997.00	17,561
February	7,739.00	8,174.00	15,913
March	8,967.00	9,432.00	18,399
April	8,307.00	8,774.00	17,081
May	9,135.00	9,711.00	18,846
June	8.00	21.00	29
July	9,684.00	10,291.00	19,975
August	8,570.00	9,218.00	17,788
September	6,961.00	7,244.00	14,205
October	6,975.00	7,195.00	14,170
November	7,263.00	7,725.00	14,988
December	9,419.00	9,410.00	18,829
Annual Average (K gal/month)	7,654	8,037	15,548

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

**Table 2-3, cont.
2007 Remediation Well Pumpage Report**

2007 BNL Groundwater Status Report

Operable Unit III - Pump and Treat			
NORTH STREET EAST- Groundwater Withdrawal (1,000 gallons per month)			
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	000-487 NSE-1 -71 to -101 161 to 191	000-488 NSE-2 -71 to -101 152 to 182	NORTH STREET EAST Monthly Total
January	8,215.00	4,607.00	12,822
February	531.00	298.00	829
March	8,662.00	4,746.00	13,408
April	853.00	465.00	1,318
May	8,695.00	4,962.00	13,657
June	1,155.00	661.00	1,816
July	0.00	0.00	0
August	2,739.00	1,578.00	4,317
September	6,400.00	3,703.00	10,103
October	1,961.00	0.00	1,961
November	6,639.00	3,510.00	10,149
December	530.00	595.00	1,125
Annual Average (K gal/month)	3,894	2,109	5,835

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

Table 2-3, cont.
2007 Remediation Well Pumpage Report

2007 BNL Groundwater Status Report

Operable Unit III - Pump and Treat						
BGRR/WCF Strontium-90 - Groundwater Withdrawal (1,000 gallons per month)						
BNL Well No.	065-368	065-369	075-676	075-677	075-678	BGRR
Extraction Well	SR-1	SR-2	SR-3	SR-4	SR-5	
Screen Int.						
elevation (ft. msl)	51.5-31.5	51.5-31.5	50-30	46-6	46-6	Monthly
depth (feet)	33-53	33.5-53.5	51-71	35-75	35-75	Total
January	231.59	218.48	225.98	228.01	162.82	1,067
February	244.55	209.36	126.63	234.12	115.19	930
March	89.77	77.94	0.00	97.73	15.31	281
April	205.61	224.01	0.01	239.51	2.91	672
May	198.22	208.88	95.60	152.25	0.00	655
June	100.72	134.41	130.86	0.00	0.00	366
July	40.80	75.73	74.57	0.07	0.85	192
August	0.00	0.00	0.00	0.00	0.00	0
September	15.17	8.31	0.00	149.05	17.65	190
October	133.57	33.80	151.97	146.77	148.51	615
November	62.84	52.02	396.19	195.83	217.50	924
December	91.45	86.21	376.53	164.51	219.31	938
Annual Average (K gal/month)	117	110	132	133	75	569

Notes:

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

**Table 2-3, cont.
2007 Remediation Well Pumpage Report**

2007 BNL Groundwater Status Report

Operable Unit VI - Pump and Treat			
EDB SYSTEM- Groundwater Withdrawal (1,000 gallons per month)			
BNL Well No.	000-503	000-504	OU VI EDB
Extraction Well	EW-1	EW-2	
Screen Int.			
elevation (ft. msl)	-41 to -61	-45 to -65	Monthly
depth (feet)	115 to 135	115 to 135	Total
January	9,201	7,514	16,715
February	7,700	6,520	14,220
March	7,502	3,116	10,618
April	8,442	3,174	11,616
May	8,077	6,960	15,037
June	2,613	6,536	9,149
July	9,438	6,956	16,394
August	7,406	6,536	13,942
September	1,211	1,793	3,004
October	3,432	1,968	5,400
November	758	6,877	7,635
December	6,719	7,329	14,048
Annual Average (K gal/month)	6,058	5,440	11,482

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

Flow per well estimated, average combined flow 155 gallons per minute