

Table 2-2
2010 Remediation Well Pumpage Report

2010 BNL Groundwater Status Report

BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	Operable Unit 1			HFBR-Tritium Remediation Project				Tritium Remediation Monthly Total
	Groundwater Withdrawal (1,000 gallons per month)							
	115-27 EW-1 -90 to -130 150 to 190	115-43 EW-2 -40 to -80 100 to 140	RA V Monthly Total	105-040 EW-9 -61 to -81 130 to 150	105-039 EW-10 -60 to -80 130 to 150	105-041 EW-11 -60 to -80 130 to 150	096-119 EW-16 -14 to -54 80 to 120	
January	10,233	5,907	16,140	0	0	2,008	8,079	10,087
February	10,282	8,668	18,950	0	0	1,814	7,096	8,910
March	11,384	9,597	20,981	0	0	2,008	6,740	8,748
April	11,017	9,287	20,304	0	0	1,944	6,480	8,424
May	11,384	9,597	20,981	0	0	1,785	6,160	7,945
June	11,123	9,377	20,500	0	0	1,728	5,832	7,560
July	11,200	9,400	20,600	0	0	1,607	6,472	8,079
August	10,481	10,481	20,962	0	0	1,562	6,472	8,034
September	11,000	9,000	20,000	0	0	1,425	6,264	7,689
October	11,000	9,000	20,000	0	0	1,473	6,472	7,945
November	11,000	9,000	20,000	0	0	1,468	6,264	7,732
December	11,000	9,000	20,000	0	0	1,517	6,472	7,989
Annual Average (K gal/month)	10,929	9,027	19,957	0	0	1,695	6,566	8,262

Notes:

Source: BNL Facility and Operations .

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

HFBR = High Flux Beam Reactor

HFBR Tritium Remediation Project placed in standBz mode September 2000

Elevations rounded to nearest foot

Table 2-2, cont.
2010 Remediation Well Pumpage Report

2010 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	4752	8690	5184	0.7	0	0	18,626
February	1900	3338	2074	0	0	0	7,311
March	2516	6228	2938	0	0	208	11,889
April	5419	6000	4431	1.24	3660	1.6	19,512
May	6058	6000	5146	0	6566	0	23,771
June	5439	6000	4763	0	6034	0.51	22,236
July	5516	6148	4929	1.08	5835	1.66	22,430
August	5951	10648	5379	0	6310	0	28,288
September	6053	10942	5562	0	6852	0	29,409
October	6085	11182	5657	0	6996	1.76	29,921
November	6385	11759	6040	0	4265	0	28,449
December	5955	10964	5703	0	12.85	0	22,635
Annual							
Average (K gal/month)	5,189	8,192	4,835	0.25	3,895	18	22,040

Notes:

Source: BNL Facility and Operations

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

Elevations rounded to nearest foot

Table 2-2, cont.
2010 Remediation Well Pumpage Report

2010 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
Extraction Well	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-12	BOUNDARY
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	5714	5778	459	0.01	1.05	2.68	3.81	11,958
February	6088	6162	0.04	0	0	0	0	12,250
March	6137	6184	1.92	0.01	0	0	0	12,323
April	4977	4998	4603	0.05	1.08	1.33	8.56	14,589
May	5688	5542	5310	0	0	0	0	16,540
June	5149	2185	4795	0	0	0	0	12,129
July	5238	1235	4838	0.02	0.31	0.3	1.08	11,313
August	5558	4615	5260	0	0	0	0	15,433
September	5668	4714	5371	0	0	0	0	15,754
October	519	5164	5829	0.01	0	0.27	1.51	11,514
November	6371	5897	6537	0.01	0	0	0	18,805
December	5915	5497	5883	0	0	0	0	17,294
Annual								
Average (K gal/month)	5,242	4,824	4,094	0.01	0.20	0.39	1.25	14,158

Notes:

Source: BNL Facility and Operations

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

Elevations rounded to nearest foot

Table 2-2, cont.
2010 Remediation Well Pumpage Report

2010 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
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
Annual Average (K gal/month)	0	0	0	0

Notes:

Source: BNL Facility and Operations.

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

Elevations rounded to nearest foot

Table 2-2, cont.
2010 Remediation Well Pumpage Report

2010 BNL Groundwater Status Report

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	0	2824	0	1	2188	531	5	5,549
February	0	3236	0	418	1467	2314	314	7,749
March	0	3018	0	2968	0	2220	3	8,209
April	0	2982	0	2636	1	2215	0	7,834
May	0	2128	869	2603	2120	2265	11	9,996
June	0	1878	2105	2549	2544	2197	8	11,281
July	0	1005	1593	1926	1900	1618	8	8,050
August	0	0	2442	3201	2796	2386	5	10,830
September	0	0	2211	2796	2561	2050	9	9,627
October	0	0	2276	0	2618	2340	10	7,244
November	0	0	2398	3768	2261	2522	0	10,949
December	0	0	907	1149	1024	86	0	3,166
Annual Average (K gal/month)	0	1,410	1,239	2,004	1,792	1,888	29	8,374

Notes:

Source: BNL Facility and Operations.

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

Elevations rounded to nearest foot

Table 2-2, cont.
2010 Remediation Well Pumpage Report

2010 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	905	742	697	697	3,041
February	987	864	126	741	2,718
March	640	322	16	509	1,488
April	224	0	84	196	503
May	1646	1	150	1399	3,195
June	1072	0	332	663	2,068
July	1283	1065	157	761	3,265
August	0	0	0	0	0
September	0	0	0	0	0
October	369	347	169	136	1,021
November	1436	1340	1139	1004	4,918
December	1175	1075	1028	1028	4,306
Annual Average (K gal/month)	811	1,662	610	1,608	2,210

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 2-2, cont.
2010 Remediation Well Pumpage Report

2010 BNL Groundwater Status Report

Operable Unit III - Pump and Treat WESTERN SOUTH BOUNDARY System (1,000 gallons per month)			
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	126-12 WSB-1 -60 to -80 140 to 160	127-05 WSB-2 -80 to -100 150 to 170	Monthly Total
January	6413	5967	12,380
February	7651	1336	8,987
March	7336	48	7,384
April	6267	7617	13,884
May	6497	7902	14,399
June	7526	473	7,999
July	5070	5839	10,909
August	7069	8760	15,829
September	6989	338	7,327
October	9136	0	9,136
November	5299	8170	13,469
December	6206	260	6,466
Annual Average (K gal/month)	6,788	3,893	10,681

Notes:

Source: BNL Facility and Operations.

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

Elevations rounded to nearest foot

Table 2-2, cont.
2010 Remediation Well Pumpage Report

2010 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	106-123	106-124	
Extraction Well	SR-90 EW-1	SR-90 EW-2	SR-90 EW-3	
Screen Int.				
elevation (ft. msl)	+40.5 to +25.5	32.6 to 22.6	27.6 to 17.6	Monthly
depth (feet)	23.5 to 38.5	35 to 45	35 to 45	Total
January	0	243	236	479
February	234	275	275	784
March	38	288	260	586
April	198	208	215	621
May	9	256	257	522
June	237	264	265	766
July	218	241	241	700
August	12	276	277	565
September	82	155	156	393
October	25	233	234	492
November	168	163	164	495
December	18	114	103	235
Annual Average (K gal/month)	102	227	224	553

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 2-2, cont.
2010 Remediation Well Pumpage Report

2010 BNL Groundwater Status Report

Operable Unit III - Pump and Treat					
LIPA SYSTEM - Groundwater Withdrawal (1,000 gallons per month)					
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	000-453 EW-1L -111 to -131 217 to 237	000-455 EW-2L -115 to -135 224 to 244	000-457 EW-3L -104 to -124 216 to 236	000-461 EW-4L -192 to -212 304 to 324	LIPA Monthly Total
January	1	4190	1	4022	8,214
February	0	5407	0	5386	10,793
March	1	5501	0	5307	10,809
April	1	3326	1	4567	7,895
May	1947	2288	0	2194	6,429
June	1431	1338	0	1157	3,926
July	2650	2612	1	2974	8,237
August	5207	5204	0	5209	15,620
September	4274	4068	0	4672	13,014
October	3900	1	1	3970	7,872
November	0	0	0	5377	5,377
December	0.12	0.06	0.12	4591	4,591
Annual Average (K gal/month)*	1,633	2,814	0.35	4,110	8,565

Notes:

Source: BNL Facility and Operations.

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

Elevations rounded to nearest foot

* Annual average is based on actual pumping timeframe

Table 2-2, cont.
2010 Remediation Well Pumpage Report

2010 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	800-132	Airport
Extraction Well	RTW-1A	RTW-2A	RTW-3A	RTW-4A	RTW-5A	RW-6A	
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	165 to 185	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	5000	816	0	1.45	1.26	5816	11,635
February	5000	446	3279	3031	0.41	5446	17,202
March	5000	586	0	1344	0	5586	12,516
April	6000	257	0	1502	0.91	6257	14,017
May	4000	392	0	0	0	4392	8,784
June	1000	125	0	0	0.71	1125	2,251
July	5000	863	1500	1500	1500	5863	16,226
August	5000	339	2507	850	2549	5339	16,584
September	5000	721	1386	746	1420	4721	13,994
October	4000	745	757	0	778	5745	12,024
November	75	25	5302	9046	888	100	15,436
December	12000	643	7882	3607	2435	12643	39,209
Annual Average (K gal/month)*	4,773	499	1,875	1,781	807	5253	14,990

Notes:

Source: BNL Facility and Operations.

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 2-2, cont.
 2010 Remediation Well Pumpage Report

2010 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	20.00	0.00	20
February	0.00	0.00	0
March	0.00	0.00	0
April	0.00	0.00	0
May	0.00	0.00	0
June	0.00	0.00	0
July	0.00	0.00	0
August	0.00	0.00	0
September	0.00	0.00	0
October	0.00	0.00	0
November	0.00	0.00	0
December	0.00	0.00	0
Annual Average (K gal/month)	2	0	2

Notes:

Source: BNL Facility and Operations.

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

Elevations rounded to nearest foot

Table 2-2, cont.
2010 Remediation Well Pumpage Report

2010 BNL Groundwater Status Report

Operable Unit III - Pump and Treat			
NORTH STREET - Groundwater Withdrawal (1,000 gallons per month)			
BNL Well No.	000-471	000-473	NORTH STREET
Extraction Well	NS-1	NS-2	
Screen Int.			
elevation (ft. msl)	-64 to -104	-96 to -126	Monthly
depth (feet)	165 to 205	190 to 220	Total
January	7387	7212	14,599
February	3581	3574	7,155
March	8024	7816	15,840
April	7649	7435	15,084
May	8694	8333	17,027
June	2226	1927	4,153
July	8237	6997	15,234
August	9464	8280	17,744
September	8698	7618	16,316
October	8247	7208	15,455
November	9684	9546	19,230
December	8574	8660	17,234
Annual Average (K gal/month)	7,576	7,084	14,589

Notes:

Source: BNL Facility and Operations.

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

Elevations rounded to nearest foot

Table 2-2, cont.
 2010 Remediation Well Pumpage Report

2010 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	7693	5179	12,872
February	0	0	0
March	3422	2281	5,703
April	7790	2356	10,146
May	9232	3007	12,239
June	11398	0	11,398
July	8400	3410	11,810
August	13946	534	14,480
September	8057	4837	12,894
October	9292	347	9,639
November	7894	0	7,894
December	7721	0	7,721
Annual Average (K gal/month)	7,959	1,845	9,537

Notes:

Source: BNL Facility and Operations.

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

Elevations rounded to nearest foot

Table 2-2, cont.
2010 Remediation Well Pumpage Report

2010 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	131.28	198.75	45.5	159.41	172.46	707
February	312.87	275.74	68.8	233.58	302.36	1,193
March	336.99	263.72	65.1	215.96	259.12	1,141
April	227.47	261.51	63.26	214.65	234.05	1,001
May	255.15	190.68	30.1	146.08	150.48	772
June	183.48	190.4	0.21	96.59	0	471
July	0.66	0.63	0.64	0.12	0.3	2
August	224.5	31.67	120.91	222.24	2.45	602
September	151.88	81.54	236.39	24.59	10.92	505
October	144.9	197.88	184.17	238.95	11.68	778
November	205.98	47.52	225.97	43.22	212.5	735
December	179.51	0	220.84	0	179.49	580
Annual Average (K gal/month)	195	144	105	133	127	707

Notes:

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

Elevations rounded to nearest foot

Table 2-2, cont.
 2010 Remediation Well Pumpage Report

2010 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	7623	7606	15,229
February	8866	7591	16,457
March	4808	6869	11,677
April	4492	6332	10,824
May	8531	7363	15,894
June	7957	6952	14,909
July	5144	4468	9,612
August	8669	7619	16,288
September	7796	6926	14,722
October	8078	7210	15,288
November	8520	7639	16,159
December	7917	7022	14,939
Annual Average (K gal/month)	7,356	6,961	14,333

Notes:

Source: BNL Facility and Operations.

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