

**Table 2-3**  
**2004 Remediation Well Pumpage Report**

2004 BNL Groundwater Status Report

	Operable Unit 1			HFBR-Tritium Remediation Project			
	Groundwater Withdrawal (1,000 gallons per month)						
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	115-027 EW-1 -90 to -130 150 to 190	115-043 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	Tritium Remediation  Monthly Total
January	10,871	0	10,871	0	0	0	0
February	1,166	14	1,181	0	0	0	0
March	7,910	18,647	26,557	0	0	0	0
April	11,120	18,779	29,899	0	0	0	0
May	8,791	15,086	23,877	0	0	0	0
June	10,765	18,975	29,741	0	0	0	0
July	10,552	19,078	29,630	0	0	0	0
August	10,406	19,019	29,425	0	0	0	0
September	10,259	18,662	28,921	0	0	0	0
October	9,713	18,349	28,061	0	0	0	0
November	12,034	8,548	20,582	0	0	0	0
December	12,751	0	12,751	0	0	0	0
Annual Average (K gal/month)	9,750	13,000	22,750	0	0	0	0

**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.**  
**2004 Remediation Well Pumpage Report**

2004 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>							
<b>MIDDLE ROAD SYSTEM - Groundwater Withdrawal (1,000 gallons per month)</b>							
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	3,448	4,417	5,630	0	0	2,387	15,882
February	3,655	4,503	5,872	0	0	1,833	15,863
March	3,120	4,136	5,452	0	0	3,489	16,198
April	3,462	4,401	5,651	0	0	3,447	16,961
May	3,762	4,486	5,749	0	0	3,496	17,493
June	2,880	3,412	4,410	0	0	2,541	13,242
July	3,051	4,061	5,563	0	0	3,380	16,054
August	3,057	4,267	5,622	0	0	3,258	16,204
September	2,937	3,949	4,961	0	0	2,892	14,738
October	3,624	4,263	5,095	0	0	3,265	16,247
November	3,644	4,674	5,701	0	0	3,576	17,595
December	3,442	4,544	5,692	0	0	3,502	17,180
Annual Average (K gal/month)	3,339	4,259	5,449	0	0	3,099	16,138

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.**  
**2004 Remediation Well Pumpage Report**

2004 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>								
<b>SOUTH BOUNDARY SYSTEM - Groundwater Withdrawal (1,000 gallons per month)</b>								
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	4,369	4,430	4,479	4,524	4,493	4,793	0	27,088
February	4,426	4,523	4,546	4,614	4,591	4,943	0	27,644
March	4,197	4,261	4,241	4,381	4,293	4,480	0	25,854
April	4,377	4,465	4,370	4,536	4,342	4,559	0	26,648
May	4,606	4,561	4,508	4,640	4,458	4,643	0	27,416
June	3,401	3,375	3,433	2,100	3,408	3,705	0	19,422
July	4,375	4,407	4,558	2,524	4,376	4,712	0	24,952
August	4,240	4,243	4,303	4,290	4,421	4,700	0	26,197
September	3,831	3,780	4,040	4,034	3,913	4,240	0	23,838
October	4,143	4,134	4,323	4,362	4,184	4,619	0	25,765
November	4,611	4,690	4,680	4,723	4,613	5,042	0	28,358
December	4,416	4,491	4,462	4,508	4,415	4,783	0	27,076
Annual Average (K gal/month)	4,250	4,280	4,329	4,102	4,292	4,601	0	25,855

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.**  
**2004 Remediation Well Pumpage Report**

2004 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat (K gal/month)</b>							
<b>CARBON TETRACHLORIDE SYSTEM</b>							
BNL Well No.	085-158	085-159	095-278	CARBON	SOUTH	MIDDLE	OU-III
Extraction Well	EW-13	EW-14	EW-15	TETRACHLORIDE	BOUNDARY	ROAD	
Screen Int.				SYSTEM			
elevation (ft. msl)	+50 to +30	+50 to +30	-7.4 to -27.4				
depth (feet)	35 to 55	32 to 52	65 to 85	Monthly	Monthly	Monthly	Monthly
				Total	Total	Total	Total
January	1,190	0	1,846	3,036	27,088	15,882	46,006
February	1,108	72	1,916	3,024	27,644	15,863	46,531
March	309	2	1,928	2,237	25,854	16,198	44,288
April	1	0	1,921	1,922	26,648	16,961	45,531
May	1	0	2,217	2,218	27,416	17,493	47,126
June	1	671	1,691	1,692	19,422	13,242	34,357
July	0	1,276	1,625	1,625	24,952	16,054	42,631
August	0	0	0	0	26,197	16,204	42,401
September	0	0	0	0	23,838	14,738	38,577
October	0	0	0	0	25,765	16,247	42,012
November	0	0	0	0	28,358	17,595	45,953
December	0	0	0	0	27,076	17,180	44,256
Annual Average (K gal/month)	213	169	1,091	1,313	25,855	16,138	43,306

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.**  
**2004 Remediation Well Pumpage Report**

2004 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>								
<b>OFFSITE INDUSTRIAL PARK SYSTEM - Groundwater Withdrawal (1,000 gallons per month)</b>								
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	2,949	2,584	2,455	2,574	2,573	2,581	1,670	17,386
February	2,790	2,486	2,339	2,370	2,249	2,430	1	14,665
March	2,881	2,544	2,358	2,533	2,533	2,464	1,785	17,098
April	2,897	2,593	545	2,582	2,094	2,519	2,592	15,822
May	2,665	2,342	2	2,333	1,002	2,269	2,337	12,950
June	2,876	1,416	693	2,609	2,480	2,546	2,616	15,236
July	2,203	0	1,341	2,130	574	482	1,977	8,707
August	2,323	2,074	1,728	2,244	2,243	2,118	2,330	15,060
September	2,179	2,935	1,981	2,464	1,772	2,287	2,412	16,030
October	2,603	1,407	1,937	2,506	778	2,380	2,123	13,734
November	2,702	0	2,137	2,772	2,211	2,633	2,984	15,439
December	2,839	663	2,380	2,671	1,972	2,603	2,684	15,812
Annual Average (K gal/month)	2,658	1,748	1,656	2,482	1,867	2,272	2,138	14,828

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.**  
**2004 Remediation Well Pumpage Report**

2004 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>					
<b>BUILDING 96 SYSTEM - Groundwater Withdrawal and Reinjection (1,000 gallons per month)</b>					
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	821	0	602	135	1,557
February	1,118	0	818	0	1,936
March	1,076	0	789	0	1,865
April	1,377	212	1,010	216	2,815
May	1,246	894	914	912	3,966
June	1,193	897	823	912	3,826
July	1,307	198	331	364	2,200
August	1,166	0	0	0	1,166
September	1,395	0	0	0	1,395
October	1,384	0	0	0	1,384
November	1,028	0	0	0	1,028
December	1,509	0	0	0	1,509
Annual Average (K gal/month)	1,219	639	818	575	2,054

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.**  
**2004 Remediation Well Pumpage Report**

2004 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>			
<b>WESTERN SOUTH BOUNDARY System (1,000 gallons per month)</b>			
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	6,402	6,263	12,665
February	10,715	6,545	17,260
March	2,286	6,027	8,313
April	6,496	6,207	12,703
May	4,553	4,369	8,922
June	6,570	6,371	12,941
July	6,342	6,154	12,496
August	5,569	5,180	10,749
September	4,064	4,017	8,081
October	6,283	6,231	12,514
November	6,956	6,888	13,844
December	6,704	6,639	13,343
Annual Average (K gal/month)	6,078	5,908	11,986

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.  
2004 Remediation Well Pumpage Report**

2004 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat Strontium 90 remediation System (1,000 gallons per month)</b>		
BNL Well No.	106-92	
Extraction Well	SR-90 EW-1	
Screen Int.		
elevation (ft. msl)	+40.5 to +25.5	Monthly
depth (feet)	23.5 to 38.5	
		Total
January	220	220
February	240	240
March	121	121
April	10	10
May	106	106
June	232	232
July	59	59
August	0	0
September	0	0
October	28	28
November	0	0
December	210	210
Annual Average (K gal/month)	102	102

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.**  
**2004 Remediation Well Pumpage Report**

2004 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>					
<b>LIPA SYSTEM - Groundwater Withdrawal (1,000 gallons per month)</b>					
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	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	1,010	1,010	1,010	1,010	4,040
August	0	0	0	0	0
September	0	0	0	0	0
October	2,270	4,947	6,602	1,133	14,952
November	6,476	3,595	2,202	6,249	18,522
December	2,244	2,300	2,396	2,298	9,237
Annual Average (K gal/month)*	2,405	2,393	2,476	2,139	14,237

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.**  
**2004 Remediation Well Pumpage Report**

2004 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>						
<b>AIRPORT SYSTEM - Groundwater Withdrawal (1,000 gallons per month)</b>						
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	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	0	0
April	0	0	0	0	0	0
May	0	0	0	0	0	0
June	0	0	0	0	0	0
July	1,010	1,010	1,010	1,010	1,010	5,050
August	2,754	2,754	2,754	2,754	2,754	13,770
September	0	0	0	0	0	0
October	5,916	5,916	4,361	38	6,235	22,465
November	3,085	3,085	3,544	3,418	3,064	16,196
December	6,172	6,172	7,403	7,260	6,971	33,977
Annual Average (K gal/month)*	3,842	3,842	3,866	2,931	4,066	24,213

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.  
2004 Remediation Well Pumpage Report**

2004 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>			
<b>INDUSTRIAL PARK EAST- Groundwater Withdrawal (1,000 gallons per month)</b>			
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	0	0	0
February	0	0	0
March	0	0	0
April	1,726	656	2,382
May	1,182	794	1,976
June	4,783	3,102	7,885
July	3,664	2,092	5,756
August	3,682	2,741	6,423
September	1,878	1,597	3,475
October	3,410	2,329	5,739
November	10,574	4,688	15,262
December	4,807	3,408	8,215
Annual Average (K gal/month)	17,835	10,714	11,739

**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.**  
**2004 Remediation Well Pumpage Report**

2004 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>			
<b>NORTH STREET - Groundwater Withdrawal (1,000 gallons per month)</b>			
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	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	5,000	6,000	11,000
June	8,750	10,250	19,000
July	8,750	10,250	19,000
August	8,750	10,250	19,000
September	9,200	10,800	20,000
October	7,153	8,547	15,700
November	9,499	11,404	20,903
December	9,077	10,930	20,007
Annual Average (K gal/month)	11,121	13,181	19,153

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.**  
**2004 Remediation Well Pumpage Report**

2004 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>			
<b>NORTH STREET EAST- Groundwater Withdrawal (1,000 gallons per month)</b>			
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	0	0	0
February	0	0	0
March	0	0	0
April	268	233	500
May	2,194	1,907	4,100
June	2,113	1,837	3,950
July	7,758	6,742	14,500
August	5,885	5,115	11,000
September	7,226	6,281	13,507
October	6,195	3,974	10,169
November	7,607	5,375	12,982
December	9,158	5,020	14,178
Annual Average (K gal/month)	8,150	6,139	12,709

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.  
2004 Remediation Well Pumpage Report**

2004 BNL Groundwater Status Report

<b>Operable Unit VI - Pump and Treat</b>			
<b>EDB SYSTEM- Groundwater Withdrawal (1,000 gallons per month)</b>			
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			0
February			0
March			0
April			0
May			0
June			0
July			0
August			0
September			0
October	3,460	3,460	6,919
November	3,348	3,348	6,696
December	3,437	3,437	6,875
Annual Average (K gal/month)	1,727	1,727	5,122

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