

**Table 2-3
2003 Remediation Well Pumpage Report**

2003 BNL Groundwater Status Report

	Operable Unit 1			HFBR-Tritium Remediation Project			
	Groundwater Withdrawal (1,000 gallons per month)						
BNL Well No.	115-027	115-043	RA V	105-040	105-039	105-041	Tritium
Extraction Well	EW-1	EW-2		EW-9	EW-10	EW-11	Remediation
Screen Int.							
elevation (ft. msl)	-90 to -130	-40 to -80		-61 to -81	-60 to -80	-60 to -80	
depth (feet)	150 to 190	100 to 140	Monthly Total	130 to 150	130 to 150	130 to 150	Monthly Total
January	12,714	25,428	38,142	0	0	0	0
February	10,977	21,954	32,932	0	0	0	0
March	12,100	24,201	36,301	0	0	0	0
April	9,327	18,368	27,695	0	0	0	0
May	9,505	18,404	27,908	0	0	0	0
June	9,839	19,006	28,845	0	0	0	0
July	9,689	19,215	28,904	0	0	0	0
August	5,922	12,109	18,031	0	0	0	0
September	8,346	16,616	24,961	0	0	0	0
October	5,535	18,020	23,555	0	0	0	0
November	8,189	0	8,189	0	0	0	0
December	10,926	0	10,926	0	0	0	0
Annual Average (K gal/month)	9,415	16,091	25,506	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.
2003 Remediation Well Pumpage Report

2003 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
Extraction Well	RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	ROAD
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	3,420	4,426	5,826	5,925	4,551	3,226	27,374
February	3,132	3,968	4,894	5,227	3,785	2,887	23,894
March	3,731	4,424	5,578	5,757	4,248	3,207	26,945
April	3,339	4,380	5,666	5,536	4,538	3,029	26,488
May	3,487	4,525	5,690	5,530	4,687	3,227	27,146
June	3,545	4,393	5,811	5,078	4,522	3,183	26,533
July	3,417	4,199	5,786	4,207	4,591	3,444	25,644
August	2,148	2,771	3,631	3,601	2,824	2,032	17,008
September	3,313	4,508	5,382	5,363	4,433	2,717	25,715
October	4,075	5,145	6,203	0	0	4,094	19,515
November	3,377	4,433	6,100	0	0	3,712	17,622
December	3,051	3,645	4,820	0	0	2,910	14,425
Annual Average (K gal/month)	3,337	4,235	5,450	3,839	3,175	3,141	23,192

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.
2003 Remediation Well Pumpage Report

2003 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	-91 to -131	-105 to -145	-115 to -155	-131 to -151	-124 to -164	
depth (feet)	150 to 190	-118 to -128 160 to 180 190 to 200	160 to 200	160 to 200	170 to 210	-171 to -191 190 to 210 230 to 250	180 to 220	Monthly Total
January	5,209	4,303	3,952	1,571	4,404	4,629	5,167	29,234
February	4,603	3,861	4,121	2,718	3,894	4,091	4,579	27,866
March	4,983	4,192	4,465	3,967	4,193	4,385	5,179	31,363
April	4,673	3,909	4,206	4,425	3,937	4,158	5,242	30,550
May	4,687	4,053	4,327	4,695	4,044	4,146	5,141	31,092
June	4,524	4,379	4,560	4,500	4,285	4,319	5,754	32,321
July	4,456	4,600	4,514	4,657	3,810	4,438	5,635	32,110
August	3,978	4,003	4,012	4,093	2,081	3,915	4,945	27,027
September	4,327	4,164	4,261	4,507	3,710	3,915	5,128	30,012
October	5,091	4,897	4,962	4,947	4,720	4,779	0	29,396
November	4,600	4,595	4,566	4,605	4,557	5,102	0	28,026
December	3,958	4,034	4,167	4,068	4,005	4,192	0	24,424
Annual Average (K gal/month)	4,591	4,252	4,344	4,069	3,969	4,341	3,890	29,452

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.
2003 Remediation Well Pumpage Report

2003 BNL Groundwater Status Report

Operable Unit III - Pump and Treat -Groundwater Withdrawal (1,000 gallons per month)							
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	CARBON TETRACHLORIDE SYSTEM				SOUTH BOUNDARY	MIDDLE ROAD	OU-III
	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	1	2,140	2,140	29,234	27,374	58,748
February	0	0	1,858	1,858	27,866	23,894	53,618
March	0	124	1,305	1,305	31,363	26,945	59,614
April	1	1,321	1,666	1,667	30,550	26,488	58,705
May	1	1,398	1,782	1,783	31,092	27,146	60,021
June	536	869	1,808	2,344	32,321	26,533	61,198
July	998	1	1,301	2,299	32,110	25,644	60,053
August	1,391	0	1,550	2,941	27,027	17,008	46,976
September	1,169	1	1,580	2,749	30,012	25,715	58,476
October	1,382	0	348	1,730	29,396	19,515	50,642
November	1,396	0	1,870	3,266	28,026	17,622	48,914
December	1,278	0	1,988	3,266	24,424	14,425	42,115
Annual Average (K gal/month)	684	310	1,596	2,279	29,452	23,192	54,923

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.
2003 Remediation Well Pumpage Report

2003 BNL Groundwater Status Report

Operable Unit III - Pump and Treat								
OFFSITE INDUSTRIAL PARK SYSTEM - Groundwater Withdrawal and Reinjection (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	2,887	2,578	2,254	2,590	2,587	2,583	2,578	18,057
February	2,480	2,417	2,120	2,406	1,265	2,411	2,219	15,318
March	2,678	2,318	2,327	2,674	2,278	2,680	2,688	17,643
April	2,023	2,592	2,304	2,580	2,582	2,586	2,593	17,260
May	400	2,422	2,128	2,412	2,408	2,084	2,420	14,274
June	756	2,535	2,264	2,514	2,525	2,530	2,536	15,660
July	2,025	1,896	1,806	1,889	1,888	1,892	1,897	13,293
August	1,790	890	2,418	2,425	2,424	2,420	2,437	14,804
September	1,471	2,150	2,294	2,419	2,420	2,425	2,433	15,612
October	0	2,266	2,511	2,626	2,447	2,632	2,641	15,123
November	1,211	459	2,374	2,492	2,579	2,471	2,510	14,096
December	2,676	790	2,418	2,511	2,511	2,517	2,450	15,873
Annual Average (K gal/month)	1,697	1,939	2,269	2,462	2,333	2,435	2,451	15,584

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.
2003 Remediation Well Pumpage Report

2003 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	1,427	952	957	945	4,280
February	1,158	772	776	763	3,469
March	1,101	724	731	691	3,246
April	1,270	824	837	777	3,709
May	652	416	417	390	1,875
June	0	0	0	0	0
July	379	399	399	316	1,493
August	0	0	0	0	0
September	569	356	418	329	1,672
October	1,265	843	927	714	3,749
November	1,138	216	834	625	2,813
December	1,190	0	873	656	2,719
Annual					
Average (K gal/month)	844	457	597	516	2,419

Notes:

Source: EM Field Engineer

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

Elevations rounded to nearest foot

Table 2-3, cont.
2003 Remediation Well Pumpage Report

2003 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	
Extraction Well	WSB-1	WSB-2	
Screen Int.			
elevation (ft. msl)	-60 to -80	-80 to -100	Monthly
depth (feet)	140 to 160	150 to 170	
			Total
January	4,450	4,450	8,900
February	5,808	5,692	11,500
March	5,586	5,465	11,051
April	6,326	5,956	12,282
May	6,362	6,000	12,362
June	6,569	6,219	12,788
July	6,610	6,267	12,877
August	5,925	5,672	11,597
September	3,388	3,284	6,672
October	6,617	6,410	13,027
November	6,596	6,404	13,000
December	6,437	6,268	12,705
Annual			
Average (K gal/month)	5,890	5,674	11,563

Notes:

Differences in averages due to rounding

System began operating in March 2003, system off in May and June 2003

Source: EM Field Engineer

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

Western South Boundary System began operation May 12, 2003.

Elevations rounded to nearest foot

Table 2-3, cont.
2003 Remediation Well Pumpage Report

2003 BNL Groundwater Status Report

Operable Unit III - Pump and Treat		
Strontium 90 remediation System (1,000 gallons per month)		
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	0	0
February	0	0
March	1,023	1,023
April	1,750	1,750
May	0	0
June	0	0
July	214	214
August	214	214
September	259	259
October	210	210
November	249	249
December	258	258
Annual Average (K gal/month)	416	418

Notes:

Differences in averages due to rounding

System began operating in March 2003, system off in May and June 2003

Source: EM Field Engineer

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

Western South Boundary System began operation May 12, 2003.

Elevations rounded to nearest foot