

Table 2-2  
2012 Remediation Well Pumpage Report

2012 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	0	0	0	0	0	1,628	5,204	6,832
February	10,058	12,200	22,258	0	0	1,728	5,054	6,782
March	0	0	0	0	0	1,628	5,354	6,982
April	10,052	12,800	22,852	0	0	1,728	5,034	6,762
May	0	0	0	0	0	1,628	5,234	6,862
June	8,003	10,100	18,103	0	0	1,728	3,888	5,616
July	0	0	0	0	0	1,728	4,209	5,937
August	6,982	9,005	15,987	0	0	1,728	4,159	5,887
September	0	0	0	0	0	1,728	3,885	5,613
October	6,851	8,457	15,308	0	0	1,728	3,887	5,615
November	0	0	0	0	0	1,728	3,972	5,700
December	6,259	11,434	17,693	0	0	1,728	3,995	5,723
Annual Average (K gal/month)	3,962	5,272	9,234	0	0	1,703	4,488	6,193

Notes:

Source: BNL Facilities and Operations Directorate.

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

HFBR = High Flux Beam Reactor

Elevations rounded to nearest foot

Table 2-2, cont.  
2012 Remediation Well Pumpage Report

2012 BNL Groundwater Status Report

Operable Unit III - Pump and Treat							
MIDDLE ROAD SYSTEM - Groundwater Withdrawal (1,000 gallons per month)							
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	113-23 RW-1 -17 to -57 90 to 130	113-24 RW-2 -99 to -129 170 to 200	113-25 RW-3 -159 to -199 228 to 268	113-26 RW-4 -98 to -128 150 to 180	113-27 RW-5 -91 to -121 150 to 180	106-66 RW-6 -124 to -154 188 to 218	MIDDLE ROAD  Monthly Total
January	5,684	12,928	4,382	3	2	0	22,999
February	6,010	8,533	4,397	0	0	0	18,940
March	5,419	10,124	3,987	0	0	0	19,530
April	4,810	9,044	3,673	1	1	0	17,529
May	6,052	11,466	4,854	0	0	0	22,372
June	5,709	10,738	4,663	0	0	0	21,110
July	6,206	11,640	5,118	1,720	2	0	24,686
August	3,983	7,711	3,354	0	0	0	15,048
September	4,396	8,531	3,547	0	0	0	16,474
October	3,301	6,776	2,677	1	492	0	13,247
November	4,461	9,873	3,946	0	3,758	0	22,038
December	4,596	11,753	4,548	0	3,667	4,840	29,404
Annual	5,047	9,942	4,095	146	663	411	20,281
Average (K gal/month)							

Notes:

Source: BNL Facilities and Operations Directorate.

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

Elevations rounded to nearest foot

Table 2-2, cont.  
2012 Remediation Well Pumpage Report

2012 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	121-46	SOUTH BOUNDARY
Extraction Well	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-17	
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		
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	207 to 237	Monthly Total
January	5,885	6,408	5,596	0	0	0	0	17,889
February	9,440	5,899	5,054	0	0	0	0	20,393
March	9,000	5,362	4,557	0	0	0	0	18,919
April	8,949	4,814	4,064	0	0	0	0	17,827
May	6,250	6,109	5,148	0	0	0	0	17,507
June	8,534	5,506	4,662	0	0	0	0	18,702
July	5,661	5,646	4,905	0	0	0	1,344	17,556
August	1,926	4,188	4,141	0	0	0	2,954	13,209
September	0	4,599	4,540	0	0	0	7,734	16,873
October	2,815	3,630	3,613	0	0	0	5,859	15,917
November	5,539	5,484	5,450	0	0	0	9,022	25,495
December	5,537	5,434	5,436	0	0	0	8,619	25,026
Annual Average (K gal/month)	5,765	5,253	4,762	0	0	0	2,971.88	18,776

Notes:

Source: BNL Facilities and Operations Directorate.

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

Elevations rounded to nearest foot

Table 2-2, cont.  
2012 Remediation Well Pumpage Report

2012 BNL Groundwater Status Report

Operable Unit III - Pump and Treat								
OFFSITE INDUSTRIAL PARK SYSTEM - Groundwater Withdrawal (1,000 gallons per month)								
BNL Well No. Extraction Well Screen Int. Influent elevation (ft. msl) depth (feet) Effluent elevation (ft. msl) depth (feet)	000-231 UVB-1	000-233 UVB-2	000-235 UVB-3	000-237 UVB-4	000-239 UVB-5	000-241 UVB-6	000-243 UVB-7	OFFSITE INDUSTRIAL PARK       Monthly Total
	-137 to -157	-115.5 to -135.5	-123 to -143	-98 to -118	-109 to -129	-110 to -130	-123 to -143	
	220 to 240	195 to 215	194 to 214	170 to 190	180 to 200	190 to 210	205 to 225	
	-82 to -102	-60.5 to -80.5	-68 to -88	-53 to -73	-54 to -74	-58 to -78	-68 to -88	
	165 to 185	140 to 160	139 to 159	125 to 145	125 to 145	140 to 160	150 to 170	
January	0	0	995	2,610	2,458	2,839	0	8,902
February	0	0	1,574	2,690	2,530	2,935	0	9,729
March	0	0	1,842	2,772	2,508	2,920	0	10,042
April	0	0	2,181	2,873	2,454	3,222	0	10,730
May	0	0	2,526	2,870	2,676	3,085	0	11,157
June	0	0	2,100	2,436	2,321	2,685	0	9,542
July	0	0	376	2,030	2,592	2,935	0	7,933
August	0	0	1,743	2,107	814	1,683	0	6,347
September	0	0	2,252	2,914	2,559	2,984	0	10,709
October	0	0	1,293	1,704	1,563	1,811	0	6,371
November	0	0	2,097	2,811	2,577	2,974	0	10,459
December	0	0	1,604	2,919	2,559	3,008	0	10,090
Annual Average (K gal/month)	0	0	1,715	2,561	2,301	2,757	0	2,334

Notes:

Source: BNL Facilities and Operations Directorate.

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

Elevations rounded to nearest foot

Table 2-2, cont.  
2012 Remediation Well Pumpage Report

2012 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	608	776	1,026	944	3,354
February	1,331	949	965	1,329	4,574
March	1,103	966	1,068	1,094	4,230
April	1,303	1,132	1,313	1,212	4,960
May	873	689	860	798	3,220
June	349	1,147	1,199	1,054	3,748
July	1,015	1,014	1,015	888	3,931
August	1,077	1,077	1,077	942	4,174
September	970	964	970	846	3,749
October	816	509	723	0	2,048
November	1,006	704	1,007	0	2,717
December	902	1,364	1,322	0	3,587
Annual Average (K gal/month)	943	940	1,045	754	3,683

Notes:

Source: EM Field Engineer

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

Elevations rounded to nearest foot

Annual average based on actual pumping durations

\*Well RTW-4 put in stand-by mode in October 2012

Table 2-2, cont.  
2012 Remediation Well Pumpage Report

2012 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	7,280	7,616	14,896
February	7,676	541	8,217
March	8,301	0	8,301
April	8,030	6,966	14,996
May	8,526	0	8,526
June	8,040	0	8,040
July	7,370	7,620	14,990
August	7,076	0	7,076
September	8,050	0	8,050
October	7,152	7,842	14,994
November	8,317	272	8,589
December	8,570	0	8,570
Annual Average (K gal/month)	7,866	2,571	10,437

Notes:

Source: BNL Facilities and Operations Directorate.

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

Elevations rounded to nearest foot

Table 2-2, cont.  
2012 Remediation Well Pumpage Report

2012 BNL Groundwater Status Report

Operable Unit III - Pump and Treat				
Chem Holes Strontium-90 remediation System (1,000 gallons per month)				
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	106-92 SR-90 EW-1  +40.5 to +25.5 23.5 to 38.5	SR-90 EW-2   35 to 45	SR-90 EW-3   35 to 45	Monthly    Total
January	271	447	268	986
February	32	293	17	342
March	40	44	24	108
April	31	326	17	374
May	213	363	203	779
June	22	323	13	358
July	206	294	210	710
August	29	383	21	433
September	235	393	216	844
October	0	358	0	358
November	234	414	208	856
December	42	455	28	525
Annual Average (K gal/month)	113	342	103	556

Notes:

Differences in averages due to rounding

Source: Groundwater Protection Group Field Engineer

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

Elevations rounded to nearest foot

Table 2-2, cont.  
2012 Remediation Well Pumpage Report

2012 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	0	0	0	5,709	5,709
February	0	0	0	2,650	2,650
March	0	0	0	1,315	1,315
April	0	0	0	1	1
May	0	0	0	3,247	3,247
June	0	0	0	5,094	5,094
July	0	0	0	3,114	3,114
August	0	0	0	4,340	4,340
September	0	0	0	2,436	2,436
October	0	0	0	972	972
November	0	0	0	4,543	4,543
December	0	0	0	3,684	3,684
Annual Average (K gal/month)*	0	0	0	3,097	3,092

Notes:

Source: BNL Facilities and Operations Directorate.

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.  
2012 Remediation Well Pumpage Report

2012 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	RTW-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	3,083	1,076	1,227	6,424	1,196	4,180	17,186
February	3,001	1,411	173	1,182	176	4,091	10,034
March	3,231	1,510	9,930	0	935	6,199	21,805
April	2,180	800	1,181	1,175	1,108	6,180	12,624
May	3,067	1,000	1,012	1,021	965	5,785	12,850
June	3,080	1,000	1,246	1,279	1,226	6,235	14,066
July	2,550	1,000	692	739	676	4,100	9,757
August	2,111	1,200	1,408	4,996	1,314	4,182	15,211
September	2,142	1,000	1,256	610	1,155	4,083	10,246
October	3,020	1,000	716	4,739	201	5,700	15,376
November	2,611	1,000	1,503	6,033	1,434	5,901	18,482
December	2,909	1,000	1,152	4,808	1,135	5,590	16,594
Annual Average (K gal/month)*	2,749	1,082	1,810	2,769	964	5,186	14,519

Notes:

Source: BNL Facilities and Operations Directorate.

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.  
2012 Remediation Well Pumpage Report

2012 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	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0
Annual Average (K gal/month)	0	0	0

Notes:

Source: BNL Facilities and Operations Directorate.

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

Elevations rounded to nearest foot

\*System in stand-by mode

Table 2-2, cont.  
2012 Remediation Well Pumpage Report

2012 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	980	8,173	9,153
February	7	362	369
March	3	8,532	8,535
April	7,653	7,975	15,628
May	243	8,686	8,929
June	9,328	8,100	17,428
July	41	9,000	9,041
August	945	5,618	6,563
September	60	11,151	11,211
October	7,024	5,917	12,941
November	0	8,394	8,394
December	7,253	6,996	14,249
Annual Average (K gal/month)	2,802	7,450	10,203

Notes:

Source: BNL Facilities and Operations Directorate.

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

Elevations rounded to nearest foot

Table 2-2, cont.  
2012 Remediation Well Pumpage Report

2012 BNL Groundwater Status Report

Operable Unit III - Pump and Treat			
NORTH STREET EAST- Groundwater Withdrawal (1,000 gallons per month)			
BNL Well No.	000-487	000-488	NORTH
Extraction Well	NSE-1	NSE-2	STREET
Screen Int.			EAST
elevation (ft. msl)	-71 to -101	-71 to -101	Monthly
depth (feet)	161 to 191	152 to 182	Total
January	8,964	39	9,003
February	8,348	0	8,348
March	8,280	0	8,280
April	9,082	39	9,121
May	6,323	0	6,323
June	8,784	0	8,784
July	7,941	15	7,956
August	8,479	0	8,479
September	8,210	8	8,218
October	7,053	0	7,053
November	7,941	0	7,941
December	8,207	2,950	11,157
Annual Average (K gal/month)	8,129	259	8,592

Notes:

Source: BNL Facilities and Operations Directorate.

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

Elevations rounded to nearest foot

Table 2-2, cont.  
2012 Remediation Well Pumpage Report

2012 BNL Groundwater Status Report

Operable Unit III - Pump and Treat										
BGRR/WCF Strontium-90 - Groundwater Withdrawal (1,000 gallons per month)										
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	065-368 SR-1 51.5-31.5 33-53	065-369 SR-2 51.5-31.5 33.5-53.5	075-676 SR-3 50-30 51-71	075-677 SR-4 46-6 35-75	075-678 SR-5 46-6 35-75	SR-6 85-105	SR-7 82-102	SR-8 77-97	SR-9 67-87	BGRR  Monthly Total
January	44	121	84	74	70	119	151	0	154	393
February	125	174	221	3	6	166	351	224	401	528
March	237	217	244	209	210	351	400	427	360	1,117
April	181	198	233	29	41	274	435	393	300	681
May	238	223	225	241	260	443	422	438	520	1,187
June	176	180	203	6	11	366	191	414	307	576
July	18	94	112	159	122	0	0	238	0	505
August	69	116	244	14	12	0	544	455	0	455
September	130	74	178	321	133	257	603	480	73	837
October	187	27	270	1	0	397	493	396	137	485
November	75	95	82	74	87	121	186	112	99	414
December	266	197	316	29	34	377	467	428	271	841
Annual Average (K gal/month)	146	143	201	97	83	240	354	334	217	668

Notes:

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

Elevations rounded to nearest foot

Table 2-2, cont.  
2012 Remediation Well Pumpage Report

2012 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	5,504	6,466	11,970
February	6,773	7,642	14,415
March	369	97	466
April	4,755	5,362	10,117
May	6,771	8,178	14,949
June	5,275	6,542	11,817
July	2,476	2,889	5,365
August	6,755	7,911	14,666
September	6,657	7,097	13,754
October	7,628	2,495	10,123
November	1,183	4,053	5,236
December	8,792	7,463	16,255
Annual Average (K gal/month)	5,241	5,496	10,761

Notes:

Source: BNL Facilities and Operations Directorate.

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

Table 2-2, cont.  
2012 Remediation Well Pumpage Report

2012 BNL Groundwater Status Report

Operable Unit III - Pump and Treat		
BUILDING 452 FREON SYSTEM- Groundwater Withdrawal (1,000 gallons per month)		
BNL Well No.	085-839	OU VI EDB
Extraction Well	EW-18	
Screen Int.		
elevation (ft. msl)		Monthly
depth (feet)	55-65	Total
January	0	0
February	0	0
March	494	494
April	2,252	2,252
May	3,198	3,198
June	2,823	2,823
July	2,777	2,777
August	3,379	3,379
September	3,339	3,339
October	2,631	2,631
November	3,179	3,179
December	2,741	2,741
Annual Average (K gal/month)	2,245	2,234

Notes:

Source: BNL Facilities and Operations Directorate.

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

Elevations rounded to nearest foot