

**Table 2-2
2017 Remediation Well Pumpage Report**

2017 BNL Groundwater Status Report

BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	Operable Unit 1			HFBR-Tritium Remediation Project				
	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	Tritium Remediation Monthly Total
January	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
February	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
March	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
April	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
June	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
July	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
August	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
September	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
October	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
November	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
December	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual Average (K gal/month)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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.
2017 Remediation Well Pumpage Report

2017 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	RW-7	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	0.00	4,328.43	3,756.27	0.00	0.00	0.00	4,454.44	12,539.14
February	0.00	2,452.27	3,505.33	0.00	0.00	0.00	4,157.74	10,115.34
March	0.00	2,253.26	5,978.79	0.00	0.00	0.00	5,921.08	14,153.13
April	0.00	6,119.67	6,593.97	0.00	0.00	0.00	5,944.58	18,658.22
May	0.00	4,458.27	4,818.44	0.00	0.00	0.00	4,310.45	13,587.16
June	0.00	5,868.11	6,253.59	0.00	0.00	0.00	5,656.08	17,777.78
July	0.00	6,120.18	6,405.96	0.00	0.00	0.00	5,472.49	17,998.63
August	0.00	3,327.03	3,427.41	0.00	0.00	0.00	3,338.83	10,093.27
September	0.00	5,239.35	5,559.64	0.00	0.00	0.00	5,392.71	16,191.70
October	0.00	6,850.14	6,033.17	0.00	0.00	0.00	5,749.21	18,632.52
November	0.00	3,569.75	3,356.65	0.00	0.00	0.00	2,907.95	9,834.35
December	0.00	6,337.08	6,960.91	0.00	0.00	0.00	6,150.23	19,448.22
Annual Average (K gal/month)	0.00	4,757.47	5,232.53	0.00	0.00	0.00	4,960.97	14,950.97

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.
2017 Remediation Well Pumpage Report

2017 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	0.00	5,700.69	0.00	0.00	0.00	0.00	6,132.60	6,132.60
February	0.00	4,850.96	0.00	0.00	0.00	0.00	3,559.25	3,559.25
March	0.00	6,856.35	0.00	0.00	0.00	0.00	7,671.24	7,671.24
April	0.00	6,598.11	0.00	0.00	0.00	0.00	7,410.30	7,410.30
May	0.00	4,789.74	0.00	0.00	0.00	0.00	5,371.14	5,371.14
June	0.00	6,270.25	0.00	0.00	0.00	0.00	6,918.52	6,918.52
July	0.00	6,535.17	0.00	0.00	0.00	0.00	7,287.95	7,287.95
August	0.00	3,566.38	0.00	0.00	0.00	0.00	3,947.91	3,947.91
September	0.00	5,657.20	0.00	0.00	0.00	0.00	6,157.27	6,157.27
October	0.00	34.26	0.00	0.00	0.00	0.00	6,892.96	6,892.96
November	0.00	6,568.54	0.00	0.00	0.00	0.00	5,416.66	5,416.66
December	0.00	3,573.60	0.00	0.00	0.00	0.00	5,618.53	5,618.53
Annual								
Average (K gal/month)	0.00	5,072.31	0.00	0.00	0.00	0.00	6,047.49	6,032.03

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.
2017 Remediation Well Pumpage Report

2017 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	000-532	000-533	OFFSITE INDUSTRIAL PARK
Extraction Well	UVB-1	UVB-2	UVB-3	UVB-4	UVB-5	UVB-6	UVB-7	IP-EW-8	IP-EW-9	
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	-155 to -175	-148 to -168	
depth (feet)	220 to 240	195 to 215	194 to 214	170 to 190	180 to 200	190 to 210	205 to 225	230 to 250	220 to 240	
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	0.00	0.00	346.00	2,534.00	1,949.00	2,898.00	0.00	4,758.20	4,907.40	17,392.60
February	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,536.00	4,737.00	9,273.00
March	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,912.90	4,800.90	9,713.80
April	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,772.10	4,965.90	9,738.00
May	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,564.10	4,840.20	9,404.30
June	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3,914.10	4,129.60	8,043.70
July	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3,864.70	3,241.90	7,106.60
August	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,842.70	2,584.70	7,427.40
September	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,011.20	5,011.30	10,022.50
October	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,658.70	4,653.30	9,312.00
November	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,157.50	5,013.00	10,170.50
December	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,738.90	4,394.90	9,133.80
Annual Average (K gal/month)	stand-by	stand-by	0	253	195	290	stand-by	5,573	5,328	1,940

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.
2017 Remediation Well Pumpage Report

2017 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	899.58	0.00	0.00	0.00	899.58
February	777.60	0.00	0.00	0.00	777.60
March	1,400.00	0.00	0.00	0.00	1,400.00
April	1,418.49	0.00	0.00	0.00	1,418.49
May	1,382.96	0.00	0.00	0.00	1,382.96
June	1,327.48	0.00	0.00	0.00	1,327.48
July	1,348.04	0.00	0.00	0.00	1,348.04
August	1,469.40	0.00	0.00	0.00	1,469.40
September	1,431.80	0.00	0.00	0.00	1,431.80
October	1,329.53	0.00	0.00	0.00	1,329.53
November	975.78	0.00	0.00	0.00	975.78
December	1,247.88	0.00	0.00	0.00	1,247.88
Annual Average (K gal/month)	1,254	stand-by	stand-by	stand-by	1,254

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.
2017 Remediation Well Pumpage Report

2017 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	WESTERN SOUTH
Extraction Well	WSB-1	WSB-2	BOUNDARY
Screen Int.			
elevation (ft. msl)	-60 to -80	-80 to -100	Monthly
depth (feet)	140 to 160	150 to 170	Total
January	8,681.00	0.00	8,681.00
February	6,398.00	0.00	6,398.00
March	8,283.00	0.00	8,283.00
April	9,181.00	0.00	9,181.00
May	8,551.00	0.00	8,551.00
June	8,765.00	0.00	8,765.00
July	9,183.00	0.00	9,183.00
August	9,444.00	0.00	9,444.00
September	9,711.00	0.00	9,711.00
October	8,071.00	0.00	8,071.00
November	9,282.00	0.00	9,282.00
December	9,118.00	0.00	9,118.00
Annual Average (K gal/month)	8,735.82	0.00	8,722.33

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.
2017 Remediation Well Pumpage Report

2017 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			Chem Holes
Extraction Well	SR-90 EW-1	SR-90 EW-2	SR-90 EW-3	
Screen Int.				
elevation (ft. msl)	+40.5 to +25.5			Monthly
depth (feet)	23.5 to 38.5	35 to 45	35 to 45	Total
January	376.76	0.00	0.00	376.76
February	0.00	0.00	0.00	0.00
March	223.09	0.00	0.00	223.09
April	0.00	0.00	0.00	0.00
May	148.76	0.00	0.00	148.76
June	0.00	0.00	0.00	0.00
July	352.31	0.00	0.00	352.31
August	0.00	0.00	0.00	0.00
September	249.64	0.00	0.00	249.64
October	0.00	0.00	0.00	0.00
November	224.56	0.00	0.00	224.56
December	0.00	0.00	0.00	0.00
Annual Average (K gal/month)	262.52	0.00	0.00	262.52

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.
2017 Remediation Well Pumpage Report

2017 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	0.00	0.00	0.00	0.00	0.00
February	0.00	0.00	0.00	0.00	0.00
March	0.00	0.00	0.00	0.00	0.00
April	0.00	0.00	0.00	0.00	0.00
May	0.00	0.00	0.00	0.00	0.00
June	0.00	0.00	0.00	0.00	0.00
July	0.00	0.00	0.00	0.00	0.00
August	0.00	0.00	0.00	0.00	0.00
September	0.00	0.00	0.00	0.00	0.00
October	0.00	0.00	0.00	0.00	0.00
November	0.00	0.00	0.00	0.00	0.00
December	0.00	4516.00	0.00	0.00	4,516.00
Annual Average (K gal/month)*	0.00	4516.00	0.00	0.00	4,516.00

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.
2017 Remediation Well Pumpage Report

2017 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							
depth (feet)	-108 to -128	-109 to -129	-130 to -150	-184 to -204	-133 to -153		Monthly
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	165 to 185	Total
January	3,482.00	300.00	347.64	7,074.49	0.00	5,676.00	16,880.13
February	3,630.52	3.00	4.00	6,563.64	0.00	5,450.28	15,651.44
March	3,071.84	100.00	960.01	6,031.75	0.00	4,757.76	14,921.36
April	2,071.88	300.00	512.31	3,623.66	0.00	3,557.82	10,065.67
May	4,001.12	500.00	628.46	6,682.50	0.00	6,751.68	18,563.76
June	4,042.92	100.00	747.36	6,619.52	0.00	6,214.38	17,724.18
July	4,260.72	15.00	1.30	7,100.81	0.00	6,413.58	17,791.41
August	4,088.12	400.00	803.92	6,976.32	0.00	6,732.18	19,000.54
September	3,229.96	1,000.00	1,280.07	6,731.17	0.00	6,359.94	18,601.14
October	2,172.32	800.00	839.60	6,816.28	0.00	4,458.48	15,086.68
November	1,685.28	0.00	0.00	6,746.96	0.00	2,972.32	11,404.56
December	3,146.64	400.00	459.40	6,860.94	0.00	5,319.96	16,186.94
Annual							
Average (K gal/month)*	3,242.36	328.90	552.20	6,491.12	0.00	5,394.91	15,989.82

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.
2017 Remediation Well Pumpage Report

2017 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	0.00	0.00	0.00
February	0.00	0.00	0.00
March	0.00	0.00	0.00
April	0.00	0.00	0.00
May	0.00	0.00	0.00
June	0.00	0.00	0.00
July	0.00	0.00	0.00
August	0.00	0.00	0.00
September	0.00	0.00	0.00
October	0.00	0.00	0.00
November	0.00	0.00	0.00
December	0.00	0.00	0.00
Annual Average (K gal/month)	0.00	0.00	0.00

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.
2017 Remediation Well Pumpage Report

2017 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	0.00	0.00	0.00
February	0.00	0.00	0.00
March	0.00	0.00	0.00
April	0.00	0.00	0.00
May	0.00	0.00	0.00
June	0.00	0.00	0.00
July	0.00	0.00	0.00
August	0.00	0.00	0.00
September	0.00	0.00	0.00
October	0.00	0.00	0.00
November	0.00	0.00	0.00
December	0.00	0.00	0.00
Annual Average (K gal/month)	0.00	0.00	0.00

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.
2017 Remediation Well Pumpage Report

2017 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	065-403	075-702	075-703	075-704	BGRR
Extraction Well	SR-1	SR-2	SR-3	SR-4	SR-5	SR-6	SR-7	SR-8	SR-9	
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	85-105	82-102	77-97	67-87	Total
January	389.39	215.91	206.39	21.58	32.37	345.00	345.00	419.39	343.23	2,318
February	131.04	93.60	92.50	0.00	0.00	0.00	187.20	187.20	187.20	879
March	134.42	134.42	95.57	90.00	200.00	218.20	218.20	218.20	218.20	1,527
April	391.24	265.76	250.02	6.30	11.83	0.10	420.00	523.87	420.00	2,289
May	311.90	259.13	218.94	0.00	0.00	420.00	420.00	474.98	420.00	2,525
June	342.10	259.27	216.06	0.00	0.00	0.00	420.00	515.57	420.00	2,173
July	214.78	224.66	186.93	0.00	0.00	420.00	420.00	453.36	420.00	2,340
August	254.52	275.35	185.01	0.00	0.00	0.00	420.00	547.16	420.00	2,102
September	150.10	304.18	178.85	0.00	0.00	420.00	420.00	498.76	420.00	2,392
October	215.00	290.32	0.00	0.00	0.00	0.00	420.00	531.03	420.00	1,876
November	215.00	214.50	184.56	0.00	0.00	0.00	420.00	333.66	420.00	1,788
December	134.00	139.20	0.00	0.00	0.00	0.00	300.00	292.99	300.00	1,166
Annual Average (K gal/month)	241	224	151	10	21	154	368	418	368	1,948

Notes:

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

Elevations rounded to nearest foot

Table 2-2, cont.
2017 Remediation Well Pumpage Report

2017 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-1E	EW-2E	
Screen Int.			
elevation (ft. msl)	-41 to -61	-45 to -65	Monthly
depth (feet)	115 to 135	115 to 135	Total
January	5,310.40	7,084.10	12,395
February	4,610.40	6,684.10	11,295
March	7,231.70	8,124.00	15,356
April	8,027.40	8,181.60	16,209
May	7,139.50	8,296.70	15,436
June	7,391.10	8,295.60	15,687
July	8,621.20	8,620.90	17,242
August	6,903.80	8,293.20	15,197
September	5,776.70	7,590.00	13,367
October	5,267.40	8,976.10	14,244
November	5,553.10	8,328.60	13,882
December	4,969.40	4,969.30	9,939
Annual Average (K gal/month)	6,412	7,793	14,187

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.
2017 Remediation Well Pumpage Report

2017 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	Building 452 Freon
Extraction Well	EW-18	
Screen Int. elevation (ft. msl)		Monthly
depth (feet)	55-65	Total
January	2,283.90	2,283.90
February	2,283.90	2,283.90
March	1,908.60	1,908.60
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)	2,159	2,159

Notes:

Source: BNL Facilities and Operations Directorate.

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

Elevations rounded to nearest foot