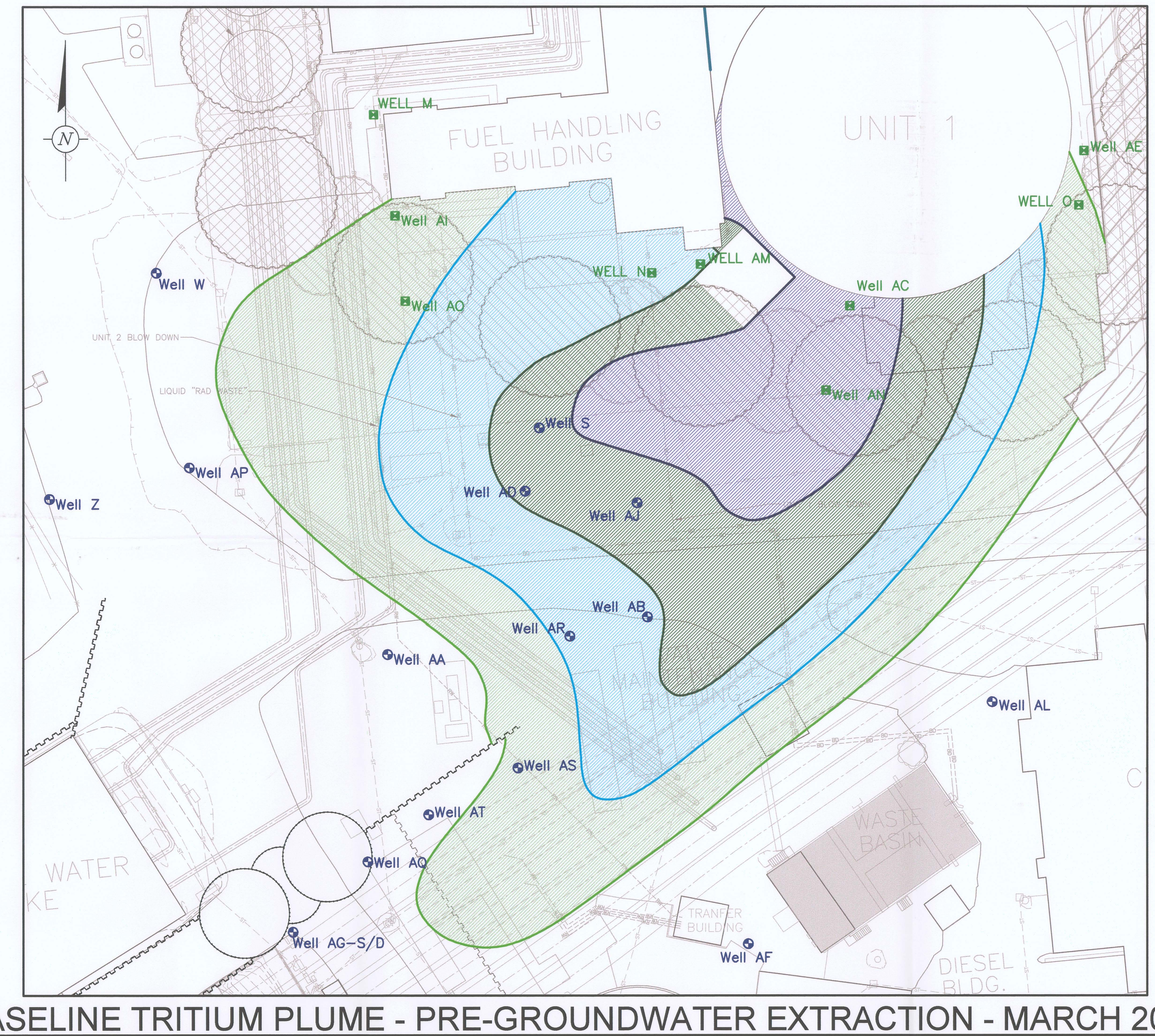


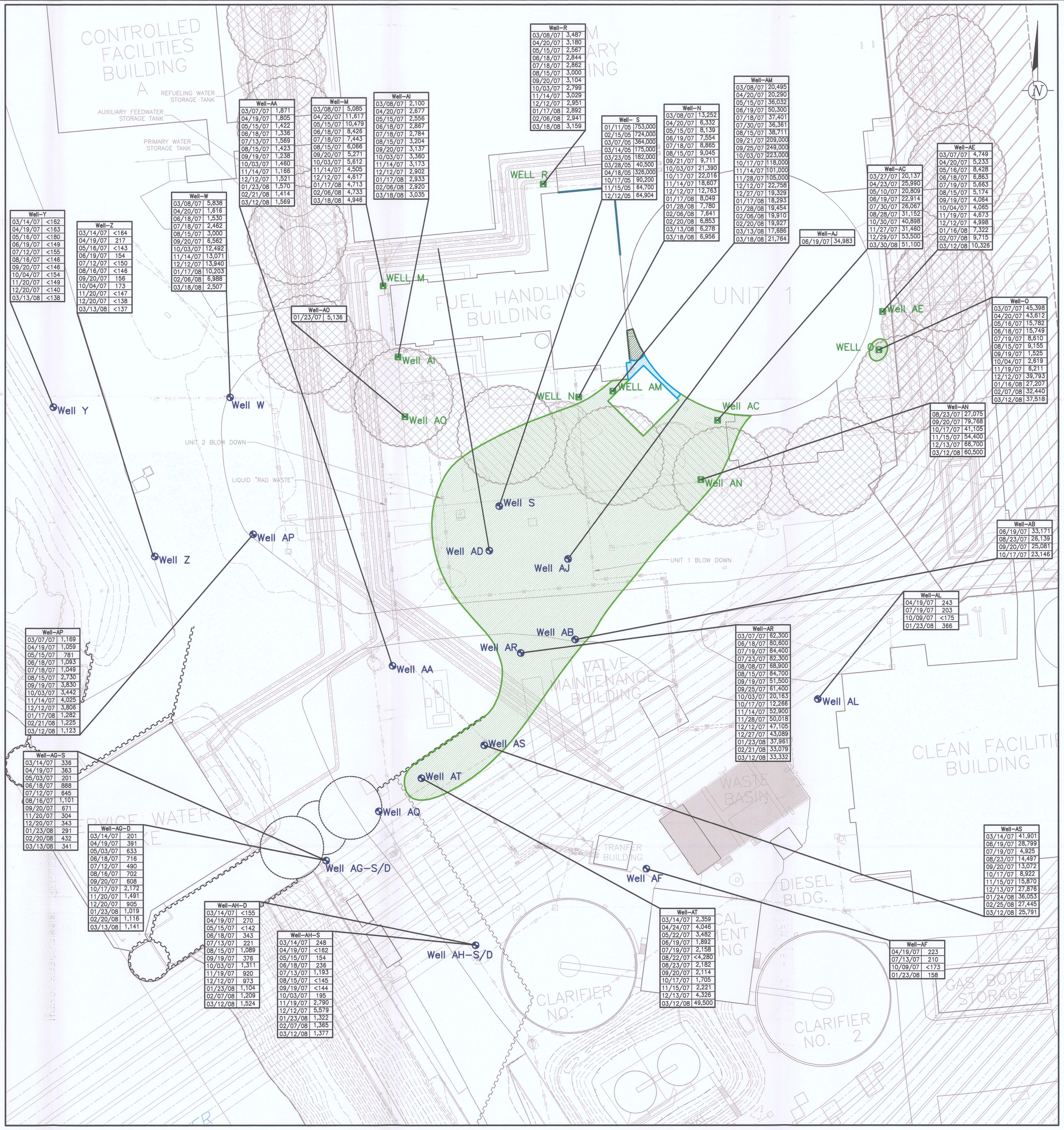
BASELINE TRITIUM PLUME - PRE-GROUNDWATER EXTRACTION - MARCH 2004

SCALE: 1"=30'

TRITIUM PLUME - MARCH 2007

FULL SCALE SYSTEM IN SERVICE

SCALE: 1"=30'



Well-Y	
03/14/07	<162
04/19/07	<163
05/16/07	<180
06/19/07	<149
07/12/07	<155
08/16/07	<146
09/20/07	<146
10/04/07	<154
11/20/07	<149
12/20/07	<140
03/13/08	<138

Well-Z	
03/14/07	<164
04/19/07	217
05/16/07	<143
06/19/07	154
07/12/07	<150
08/16/07	<146
09/20/07	156
10/04/07	173
11/20/07	<147
12/20/07	<138
03/13/08	<137

Well-W	
03/08/07	5,838
04/20/07	1,616
06/18/07	1,530
07/18/07	2,462
08/15/07	3,000
09/20/07	6,562
10/03/07	12,492
11/14/07	13,071
12/12/07	13,940
01/17/08	10,203
02/06/08	6,988
03/18/08	2,507

Well-AA	
03/07/07	1,871
04/19/07	1,805
05/15/07	1,422
06/18/07	1,336
07/13/07	1,569
08/15/07	1,423
09/19/07	1,238
10/03/07	1,460
11/14/07	1,166
12/12/07	1,521
01/23/08	1,570
02/21/08	1,414
03/12/08	1,569

Well-M	
03/08/07	5,085
04/20/07	11,617
05/15/07	10,479
06/18/07	8,426
07/18/07	7,443
08/15/07	6,066
09/20/07	5,271
10/03/07	5,612
11/14/07	4,505
12/12/07	4,617
01/17/08	4,713
02/06/08	4,733
03/18/08	4,946

Well-AI	
03/08/07	2,100
04/20/07	2,677
05/15/07	2,556
06/18/07	2,867
07/18/07	2,784
08/15/07	3,204
09/20/07	3,137
10/03/07	3,360
11/14/07	3,173
12/12/07	2,902
01/17/08	2,933
02/06/08	2,920
03/18/08	3,035

Well-AO	
01/23/07	5,136

Well-R	
03/08/07	3,487
04/20/07	3,180
05/15/07	2,567
06/18/07	2,844
07/18/07	2,862
08/15/07	3,000
09/20/07	3,104
10/03/07	2,799
11/14/07	3,029
12/12/07	2,951
01/17/08	2,892
02/06/08	2,941
03/18/08	3,159

Well- S	
01/11/05	753,000
02/15/05	724,000
03/07/05	364,000
03/14/05	175,000
03/23/05	182,000
03/28/05	40,500
04/18/05	326,000
10/17/05	90,200
11/15/05	64,700
12/12/05	64,904

Well-N	
03/08/07	13,252
04/20/07	6,332
05/15/07	8,139
06/19/07	7,554
07/18/07	8,865
08/15/07	9,045
09/21/07	9,711
10/03/07	21,390
10/17/07	22,016
11/14/07	18,607
12/12/07	12,763
01/17/08	8,049
01/28/08	7,780
02/06/08	7,641
02/20/08	6,853
03/13/08	6,278
03/18/08	6,956

Well-AM	
03/08/07	20,495
04/20/07	20,290
05/15/07	36,032
06/19/07	50,300
07/18/07	37,401
07/30/07	36,361
08/15/07	38,711
09/21/07	209,000
09/25/07	249,000
10/03/07	223,000
10/17/07	118,000
11/14/07	101,000
11/28/07	105,000
12/12/07	22,758
12/27/07	19,329
01/17/08	18,293
01/28/08	19,454
02/06/08	19,910
02/20/08	19,927
03/13/08	17,686
03/18/08	21,764

Well-AJ	
06/19/07	34,983

Well-AC	
03/27/07	20,137
04/23/07	25,990
05/10/07	20,809
06/19/07	22,914
07/30/07	26,067
08/28/07	31,152
10/30/07	40,898
11/27/07	31,460
12/29/07	53,500
03/30/08	51,100

Well-AE	
03/07/07	4,749
04/20/07	5,233
05/16/07	8,428
06/18/07	6,863
07/19/07	5,663
08/15/07	5,174
09/19/07	4,064
10/04/07	4,065
11/19/07	4,673
12/12/07	4,998
01/16/08	7,322
02/07/08	9,715
03/12/08	10,326

Well-O	
03/07/07	45,398
04/20/07	43,612
05/16/07	15,782
06/18/07	15,749
07/19/07	8,610
08/15/07	9,155
09/19/07	1,525
10/04/07	2,619
11/19/07	6,211
12/12/07	39,793
01/16/08	27,207
02/07/08	32,440
03/12/08	37,518

Well-AN	
08/23/07	27,075
09/20/07	79,768
10/17/07	41,105
11/15/07	54,400
12/13/07	66,700
03/12/08	60,500

Well-AB	
06/19/07	33,171
08/23/07	26,139
09/20/07	25,081
10/17/07	23,146

Well-AL	
04/19/07	243
07/19/07	203
10/09/07	<175
01/23/08	366

Well-AR	
03/07/07	62,300
06/18/07	80,600
07/19/07	84,400
07/23/07	82,300
08/08/07	68,900
08/15/07	84,700
09/19/07	51,500
09/25/07	61,400
10/03/07	20,163
10/17/07	12,266
11/14/07	52,900
11/28/07	50,018
12/12/07	47,105
12/27/07	43,089
01/23/08	37,961
02/21/08	33,079
03/12/08	33,332

Well-AP	
03/07/07	1,169
04/19/07	1,059
05/15/07	781
06/18/07	1,093
07/18/07	1,049
08/15/07	2,730
09/19/07	3,830
10/03/07	3,442
11/14/07	4,025
12/12/07	3,806
01/17/08	1,282
02/21/08	1,225
03/12/08	1,123

Well-AG-S	
03/14/07	336
04/19/07	363
05/03/07	201
06/18/07	888
07/12/07	645
08/16/07	1,101
09/20/07	671
11/20/07	304
12/20/07	343
01/23/08	291
02/20/08	432
03/13/08	341

Well-AG-D	
03/14/07	201
04/19/07	391
05/03/07	633
06/18/07	716
07/12/07	490
08/16/07	702
09/20/07	608
10/17/07	2,172
11/20/07	1,491
12/20/07	905
01/23/08	1,019
02/20/08	1,116
03/13/08	1,141

Well-AH-D	
03/14/07	<155
04/19/07	270
05/15/07	<142
06/18/07	343
07/13/07	221
08/15/07	1,089
09/19/07	376
10/03/07	1,311
11/19/07	920
12/12/07	973
01/23/08	1,104
02/07/08	1,209
03/12/08	1,524

Well-AH-S	
03/14/07	248
04/19/07	<162
05/15/07	154
06/18/07	236
07/13/07	1,193
08/15/07	<145
09/19/07	<144
10/03/07	195
11/19/07	2,790
12/12/07	5,579
01/23/08	1,322
02/07/08	1,365
03/12/08	1,377

Well-AT	
03/14/07	2,359
04/24/07	4,046
05/22/07	3,482
06/19/07	1,892
07/19/07	2,158
08/22/07	<4,280
08/23/07	2,182
09/20/07	2,114
10/17/07	1,705
11/15/07	2,221
12/13/07	4,326
03/12/08	49,500

Well-AF	
04/19/07	223
07/13/07	210
10/09/07	<173
01/23/08	158

Well-AS	
03/14/07	41,901
06/19/07	28,799
07/19/07	4,925
08/23/07	14,497
09/20/07	13,072
10/17/07	8,922
11/15/07	15,870
12/13/07	27,876
01/24/08	36,053
02/25/08	27,445
03/12/08	25,791

TRITIUM PLUME - MARCH 2008

GROUNDWATER EXTRACTION SYSTEM IN SERVICE

SCALE: 1"=30'

LEGEND:

- WELL R — MONITORING WELL SCREENED IN THE SHALLOW, WATER-BEARING UNIT WITHIN THE LIMITS OF THE COFFERDAM.
- WELL S — MONITORING WELL SCREENED IN THE SHALLOW, WATER-BEARING UNIT OUTSIDE THE LIMITS OF THE COFFERDAM.
- LIMIT OF GROUNDWATER WITH TRITIUM ABOVE 1,000,000 pCi/L
- LIMIT OF GROUNDWATER WITH TRITIUM ABOVE 500,000 pCi/L
- LIMIT OF GROUNDWATER WITH TRITIUM ABOVE 100,000 pCi/L
- LIMIT OF GROUNDWATER WITH TRITIUM ABOVE THE NEW JERSEY GROUNDWATER QUALITY CRITERION (20,000 pCi/L)

- PROPERTY BOUNDARY
- BLOW DOWN PIPING
- LIQUID "RAD" WASTE LINE
- SEISMIC GAP (STYROFOAM)
- SERVICE WATER PIPING
- CIRCULATING WATER OUTLET PIPING
- CIRCULATING WATER INLET PIPING
- STORM SEWER PIPING
- CATCH BASIN
- MANHOLE (STORM SEWER)
- SHEET PILE – EXTENDS FROM ABOVE THE WATER TABLE THROUGH THE KIRKWOOD FORMATION
- SHEET PILE – DOES NOT EXTEND TO AN ELEVATION ABOVE THE WATER TABLE.
- LOCATION OF THRUST BLOCK (DASHED WHERE INFERRED)

NOTES:

1. CONTOURS FOR THE BASELINE TRITIUM PLUME ARE BASED ON DATA GENERATED DURING THE REMEDIAL INVESTIGATION.
2. WELL AQ SAMPLING DISCONTINUED AS WELL IS ISOLATED FROM GROUNDWATER FLOW
3. WELL S OUT OF SERVICE DUE TO LOW YIELD.

DRAFT

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Project Director	P. MILIONIS
Task Manager	C. SHARPE
Technical Review	C. SHARPE

0 30 60 90 SCALE: 1"=30'

0 40 80 120 SCALE: 1"=40'

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PSEG NUCLEAR, LLC
SALEM GENERATING STATION

GROUNDWATER TRITIUM RESULTS

HANCOCK'S BRIDGE, NEW JERSEY

D-01X

Project Number	NP000571.0006
Date	13 MARCH, 2008
Figure	1

Plot Date\Time: 6/16/2008 6:02 PM
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