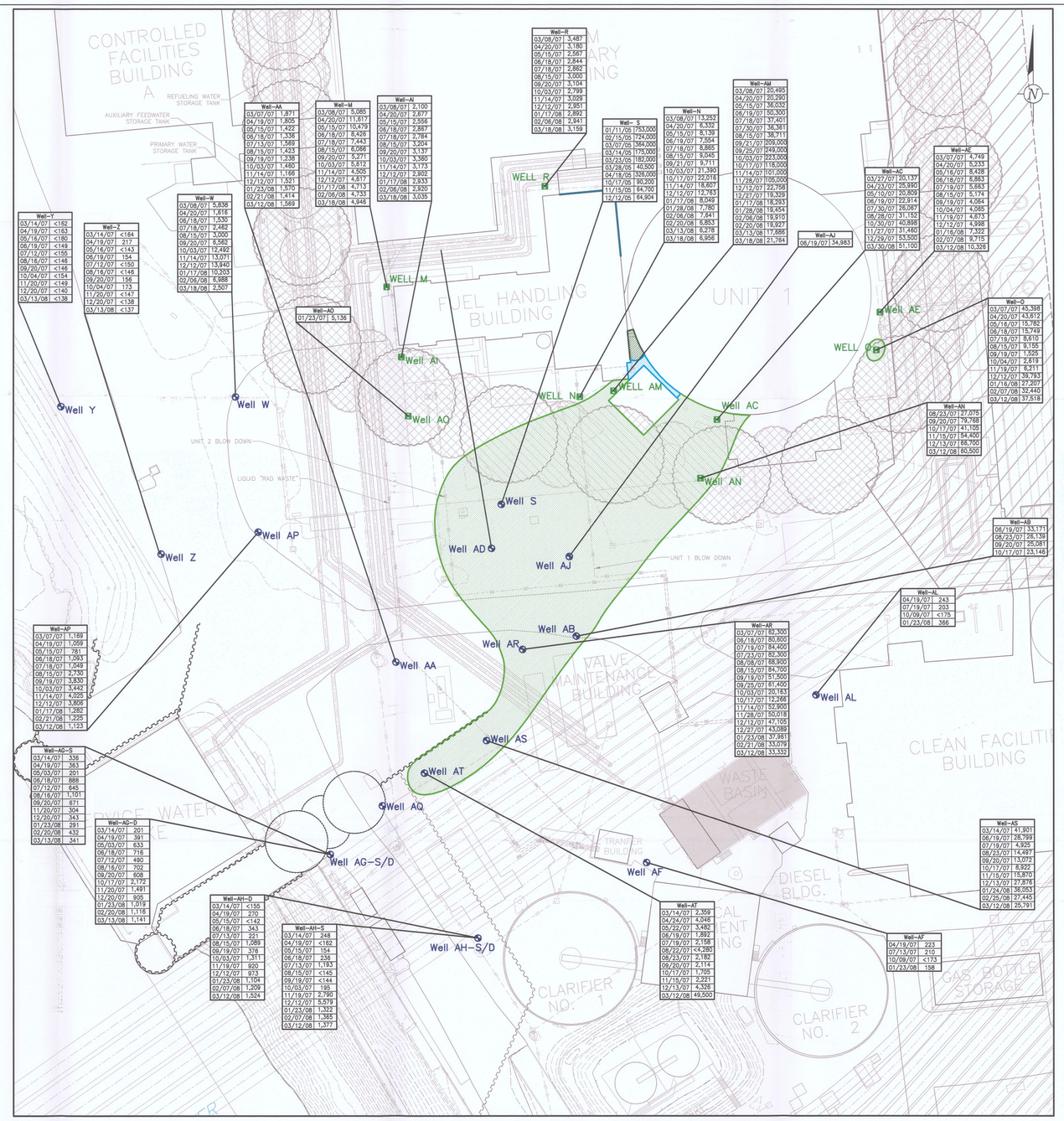
BASELINE TRITIUM PLUME - PRE-GROUNDWATER EXTRACTION - MARCH 2004

SCALE: 1"=30'

TRITIUM PLUME - MARCH 2007

FULL SCALE SYSTEM IN SERVICE

SCALE: 1"=30'



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–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	1,421
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
02/27/08	1,414
03/12/08	1,569

Well–M	
03/08/07	5,085
04/20/07	11,811
05/15/07	10,479
06/18/07	8,426
07/18/07	7,443
08/15/07	6,056
09/20/07	5,271
10/03/07	5,812
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	2,877
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	3,380
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–S	
01/11/05	753,000
02/15/05	724,000
03/07/05	384,000
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	8,885
08/15/07	9,045
09/21/07	9,711
10/03/07	21,390
10/17/07	22,018
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	248,000
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	19,310
02/20/08	19,927
03/13/08	17,886
03/18/08	21,764

Well–AJ	
06/19/07	34,983

Well–AC	
03/27/07	29,137
04/23/07	25,990
05/10/07	20,809
06/19/07	22,914
07/30/07	26,087
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
05/15/07	8,428
06/18/07	6,883
07/19/07	5,883
08/15/07	5,174
09/19/07	4,064
10/04/07	4,085
11/19/07	4,673
12/12/07	4,398
01/18/08	7,322
02/07/08	9,715
03/12/08	10,326

Well–O	
03/07/07	45,398
04/20/07	43,612
05/18/07	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	8,211
12/12/07	39,793
01/18/08	27,207
02/07/08	32,440
03/12/08	37,518

Well–AN	
08/23/07	27,075
09/20/07	79,788
10/17/07	41,105
11/15/07	54,400
12/13/07	86,700
03/12/08	60,500

Well–AB	
06/19/07	33,171
08/23/07	26,130
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–Y	
03/14/07	<162
04/19/07	<163
05/16/07	<180
06/19/07	<149
07/13/07	<155
08/18/07	<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	1,816
05/18/07	1,530
07/18/07	2,462
08/15/07	3,000
09/20/07	6,582
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–AO	
01/23/07	5,136

Well–AP	
03/07/07	1,169
04/19/07	1,059
05/15/07	781
06/18/07	1,093
07/18/07	1,048
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	808
10/17/07	2,172
11/20/07	1,491
12/20/07	905
01/23/08	1,019
02/20/08	1,118
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	2,700
12/12/07	5,519
01/23/08	1,322
02/07/08	1,365
03/12/08	1,317

Well–AR	
03/07/07	82,300
06/18/07	80,600
07/19/07	84,400
07/23/07	82,300
08/08/07	66,900
08/15/07	84,700
09/19/07	51,500
09/25/07	61,400
10/03/07	20,183
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	37,981
02/21/08	33,079
03/12/08	33,332

Well–AS	
03/14/07	41,801
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	27,878
01/24/08	36,053
02/25/08	27,445
03/12/08	25,791

Well–AT	
03/14/07	2,359
04/24/07	4,048
05/22/07	3,482
06/19/07	1,892
07/19/07	2,158
08/22/07	<4,280
09/23/07	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

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)

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.

- 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)

DRAFT

Area Manager	R. GAN
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'

ARCADIS
6 Terry Drive
Suite 300
Newtown, Pa 18940
Tel: 267/685-1800 Fax: 267/685-1801
www.arcadis-us.com

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

© 2008 ARCADIS G&M, Inc.

Path\Name: G:\NP\NA\01\Y\Salt\System - Unit 1 - Tritium\NP000571.0AM\ - Continued Reporting and Recovery\CAD\WORKING\MXD\ - UNJUNE08\SUB - TRITIUM 08JUN.MXD > - MAP.OUT JOB.dwg
Plot Date\Time: 6/18/2008 6:02 PM Current Plotstyle: ------ Page Set Up Name: ------
Acad Version 17.1s (LMS Tech)
User Name: Drafting at Longshore 2