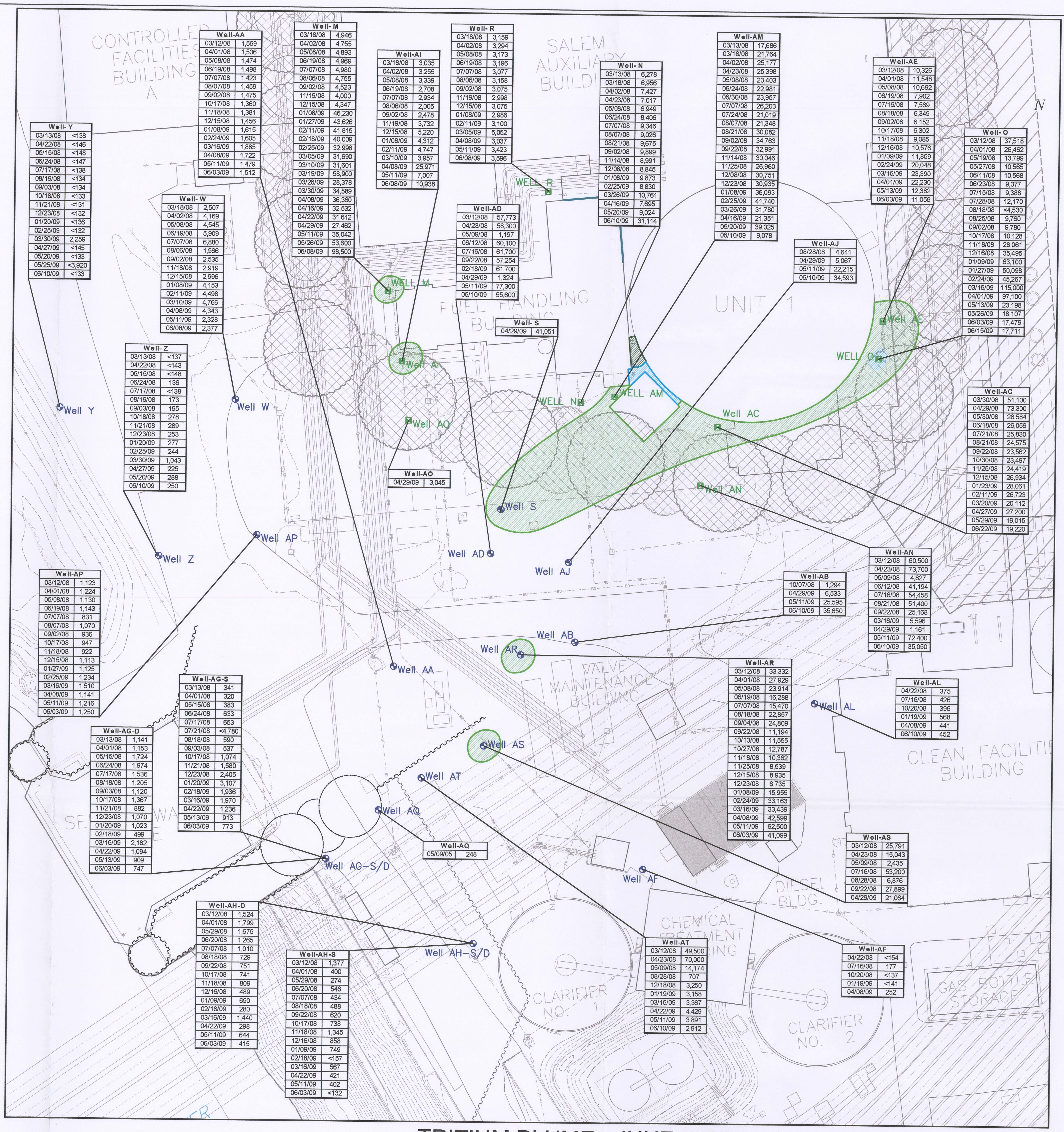
BASELINE TRITIUM PLUME - PRE-GROUNDWATER EXTRACTION - MARCH 2004

SCALE: 1"=30'

TRITIUM PLUME - JUNE 2008

FULL SCALE SYSTEM IN SERVICE

SCALE: 1"=30'



Well-Y	
03/13/08	<138
04/22/08	<146
05/15/08	<148
06/24/08	<147
07/17/08	<138
08/19/08	<134
09/03/08	<134
10/18/08	<133
11/21/08	<131
12/23/08	<132
01/20/09	<136
02/25/09	<132
03/30/09	2,259
04/27/09	<145
05/20/09	<133
05/25/09	<3,920
06/10/09	<133

Well-AA	
03/12/08	1,569
04/01/08	1,536
05/08/08	1,474
06/19/08	1,498
07/07/08	1,423
08/07/08	1,459
09/02/08	1,475
10/17/08	1,360
11/18/08	1,381
12/15/08	1,456
01/08/09	1,615
02/24/09	1,605
03/16/09	1,885
04/08/09	1,722
05/11/09	1,479
06/03/09	1,512

Well- M	
03/18/08	4,946
04/02/08	4,755
05/08/08	4,893
06/19/08	4,969
07/07/08	4,980
08/06/08	4,755
09/02/08	4,523
11/19/08	4,000
12/15/08	4,347
01/08/09	46,230
01/27/09	43,626
02/11/09	41,815
02/18/09	40,009
02/25/09	32,998
03/05/09	31,690
03/10/09	31,601
03/19/09	58,900
03/26/09	28,378
03/30/09	34,589
04/08/09	36,360
04/16/09	32,532
04/22/09	31,612
04/29/09	27,462
05/11/09	35,042
05/26/09	53,600
06/08/09	98,500

Well-AI	
03/18/08	3,035
04/02/08	3,255
05/08/08	3,339
06/19/08	2,708
07/07/08	2,934
08/06/08	2,005
09/02/08	2,478
11/19/08	3,732
12/15/08	5,220
01/08/09	4,312
02/11/09	4,747
03/10/09	3,957
04/08/09	25,971
05/11/09	7,007
06/08/09	10,938

Well- R	
03/18/08	3,159
04/02/08	3,294
05/08/08	3,173
06/19/08	3,196
07/07/08	3,077
08/06/08	3,158
09/02/08	3,075
11/19/08	2,998
12/15/08	3,075
01/08/09	2,986
02/11/09	3,100
03/05/09	5,052
04/08/09	3,037
05/11/09	3,423
06/08/09	3,596

Well- N	
03/13/08	6,278
03/18/08	6,956
04/02/08	7,427
04/23/08	7,017
05/08/08	6,949
06/24/08	8,406
07/07/08	9,346
08/07/08	9,026
08/21/08	9,675
09/02/08	9,899
11/14/08	8,991
12/08/08	8,845
01/08/09	9,873
02/25/09	8,830
03/26/09	10,761
04/16/09	7,695
05/20/09	9,024
06/10/09	31,114

Well-AM	
03/13/08	17,686
03/18/08	21,764
04/02/08	25,177
04/23/08	25,398
05/08/08	23,403
06/24/08	22,981
06/30/08	23,957
07/07/08	26,203
07/24/08	21,019
08/07/08	21,348
08/21/08	30,082
09/02/08	34,763
09/22/08	32,991
11/14/08	30,046
11/25/08	26,960
12/08/08	30,751
12/23/08	30,935
01/08/09	36,093
02/25/09	41,740
03/26/09	31,780
04/16/09	21,351
05/20/09	39,025
06/10/09	9,078

Well-AE	
03/12/08	10,326
04/01/08	11,548
05/08/08	10,692
06/19/08	7,902
07/16/08	7,569
08/18/08	6,349
09/02/08	6,152
10/17/08	6,302
11/18/08	9,085
12/16/08	10,576
01/09/09	11,859
02/24/09	20,048
03/16/09	23,390
04/01/09	22,230
05/13/09	12,382
06/03/09	11,056

Well- O	
03/12/08	37,518
04/01/08	26,462
05/19/08	13,799
05/27/08	10,565
06/11/08	10,568
06/23/08	9,377
07/15/08	9,388
07/28/08	12,170
08/18/08	<4,530
08/25/08	9,760
09/02/08	9,780
10/17/08	10,128
11/18/08	28,061
12/16/08	35,495
01/09/09	63,100
01/27/09	50,098
02/24/09	45,267
03/16/09	115,000
04/01/09	97,100
05/13/09	23,198
05/26/09	18,107
06/03/09	17,479
06/15/09	17,711

Well- W	
03/18/08	2,507
04/02/08	4,169
05/08/08	4,545
06/19/08	5,909
07/07/08	6,880
08/06/08	1,966
09/02/08	2,535
11/18/08	2,919
12/15/08	2,996
01/08/09	4,153
02/11/09	4,498
03/10/09	4,766
04/08/09	4,343
05/11/09	2,328
06/08/09	2,377

Well- Z	
03/13/08	<137
04/22/08	<143
05/15/08	<148
06/24/08	136
07/17/08	<138
08/19/08	173
09/03/08	195
10/18/08	278
11/21/08	289
12/23/08	253
01/20/09	277
02/25/09	244
03/30/09	1,043
04/27/09	225
05/20/09	288
06/10/09	250

Well-AO	
04/29/09	3,045

Well-AD	
03/12/08	57,773
04/23/08	58,300
05/09/08	1,197
06/12/08	60,100
07/16/08	61,700
09/22/08	57,254
02/18/09	61,700
04/29/09	1,324
05/11/09	77,300
06/10/09	55,600

Well- S	
04/29/09	41,051

Well-AJ	
08/28/08	4,641
04/29/09	5,067
05/11/09	22,215
06/10/09	34,593

Well-AC	
03/30/08	51,100
04/29/08	73,300
05/30/08	28,584
06/18/08	26,056
07/21/08	25,830
08/21/08	24,575
09/22/08	23,562
10/30/08	23,497
11/25/08	24,419
12/15/08	26,934
01/23/09	28,061
02/11/09	26,723
03/20/09	20,112
04/27/09	27,200
05/29/09	19,015
06/22/09	19,220

Well-AN	
03/12/08	60,500
04/23/08	73,700
05/09/08	4,827
06/12/08	41,194
07/16/08	54,458
08/21/08	51,400
09/22/08	25,168
03/16/09	5,596
04/29/09	1,161
05/11/09	72,400
06/10/09	35,050

Well-AB	
10/07/08	1,294
04/29/09	6,533
05/11/09	25,595
06/10/09	35,650

Well-AP	
03/12/08	1,123
04/01/08	1,224
05/08/08	1,130
06/19/08	1,143
07/07/08	831
08/07/08	1,070
09/02/08	936
10/17/08	947
11/18/08	922
12/15/08	1,113
01/27/09	1,125
02/25/09	1,234
03/16/09	1,510
04/08/09	1,141
05/11/09	1,216
06/03/09	1,250

Well-AG-S	
03/13/08	341
04/01/08	320
05/15/08	383
06/24/08	633
07/17/08	653
07/21/08	<4,780
08/18/08	590
09/03/08	537
10/17/08	1,074
11/21/08	1,580
12/23/08	2,405
01/20/09	3,107
02/18/09	1,936
03/16/09	1,970
04/22/09	1,236
05/13/09	913
06/03/09	773

Well-AG-D	
03/13/08	1,141
04/01/08	1,153
05/15/08	1,724
06/24/08	1,974
07/17/08	1,536
08/18/08	1,205
09/03/08	1,120
10/17/08	1,367
11/21/08	882
12/23/08	1,070
01/20/09	1,023
02/18/09	499
03/16/09	2,182
04/22/09	1,094
05/13/09	909
06/03/09	747

Well-AR	
03/12/08	33,332
04/01/08	27,929
05/08/08	23,914
06/19/08	16,288
07/07/08	15,470
08/18/08	22,857
09/04/08	24,809
09/22/08	11,194
10/13/08	11,555
10/27/08	12,787
11/18/08	10,362
11/25/08	8,539
12/15/08	8,935
12/23/08	8,735
01/08/09	15,955
02/24/09	33,163
03/16/09	33,439
04/08/09	42,599
05/11/09	62,500
06/03/09	41,099

Well-AL	
04/22/08	375
07/16/08	426
10/20/08	396
01/19/09	568
04/08/09	441
06/10/09	452

Well-AS	
03/12/08	25,791
04/23/08	15,043
05/09/08	2,435
07/16/08	53,200
08/28/08	6,876
09/22/08	27,899
04/29/09	21,064

Well-AQ	
05/09/05	248

Well-AH-D	
03/12/08	1,524
04/01/08	1,799
05/29/08	1,675
06/20/08	1,265
07/07/08	1,010
08/18/08	729
09/22/08	751
10/17/08	741
11/18/08	809
12/16/08	489
01/09/09	690
02/18/09	280
03/16/09	1,440
04/22/09	298
05/11/09	644
06/03/09	415

Well-AH-S	
03/12/08	1,377
04/01/08	400
05/29/08	274
06/20/08	546
07/07/08	434
08/18/08	488
09/22/08	620
10/17/08	738
11/18/08	1,345
12/16/08	858
01/09/09	749
02/18/09	<157
03/16/09	567
04/22/09	421
05/11/09	402
06/03/09	<132

Well-AT	
03/12/08	49,500
04/23/08	70,000
05/09/08	14,174
08/28/08	707
12/18/08	3,250
01/19/09	3,158
03/16/09	3,367
04/22/09	4,429
05/11/09	3,891
06/10/09	2,912

Well-AF	
04/22/08	<154
07/16/08	177
10/20/08	<137
01/19/09	<141
04/08/09	252

TRITIUM PLUME - JUNE 2009

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.

0 30 60 90 — SCALE: 1"=30'

0 40 80 120 — SCALE: 1"=40'

Area Manager: R. GAN
Project Director: P. MILIONIS
Task Manager: C. SHARPE
Technical Review: C. SHARPE

© 2006 ARCADIS G&M, Inc.

Acad Version: 17.1s (LMS Tech) User Name: Wasilewski, Matt
Path\Name: G:\APROJECT\PSE&G\Salem – Unit 1 – Tritium\NP000571.0008\CADD\QTR 2 RAPR\FIG-02 – GROUNDWATER TRITIUM RESULTS – JUNE 2009.dwg
Plot Date\Time: 11/16/2009 2:42 PM Current Plotstyle: ---- Page Set Up Name: ----

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-02X

Project Number: NP000571.0008
Date: 24 AUGUST, 2009
Figure: 2