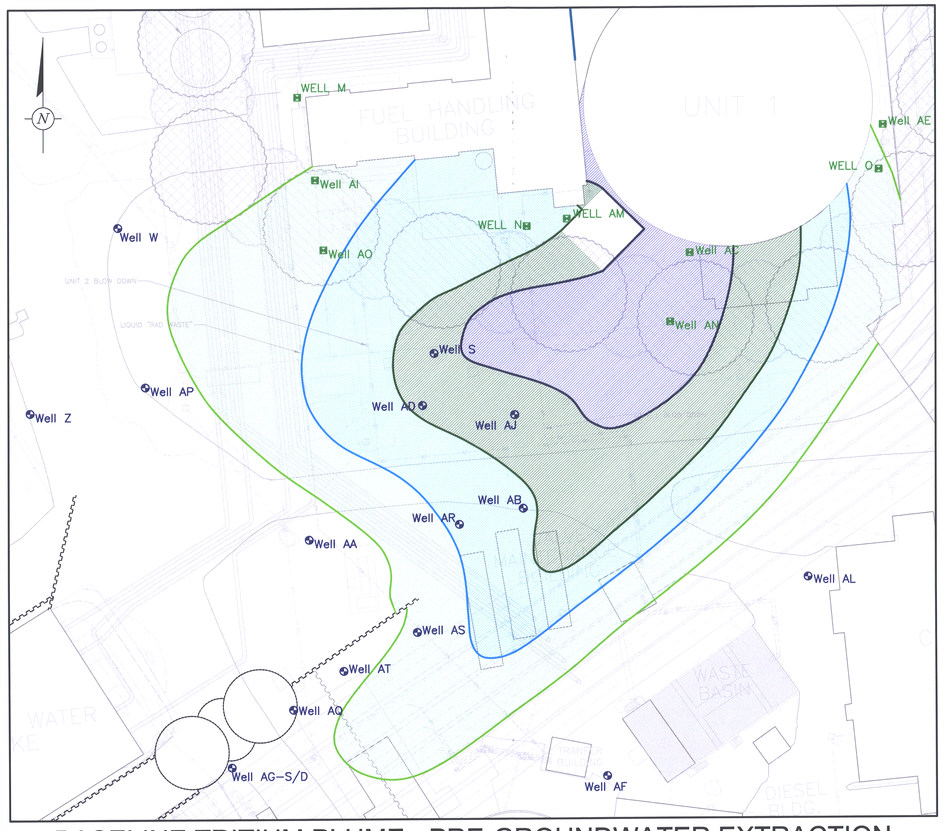
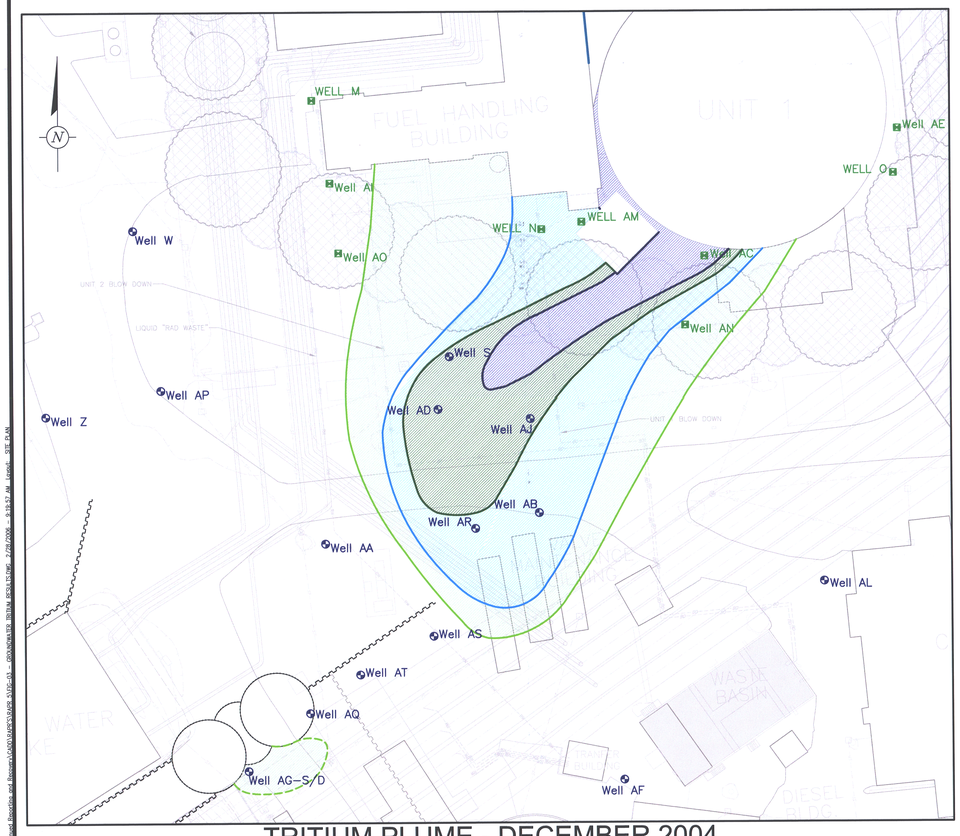


BASELINE TRITIUM PLUME - PRE-GROUNDWATER EXTRACTION

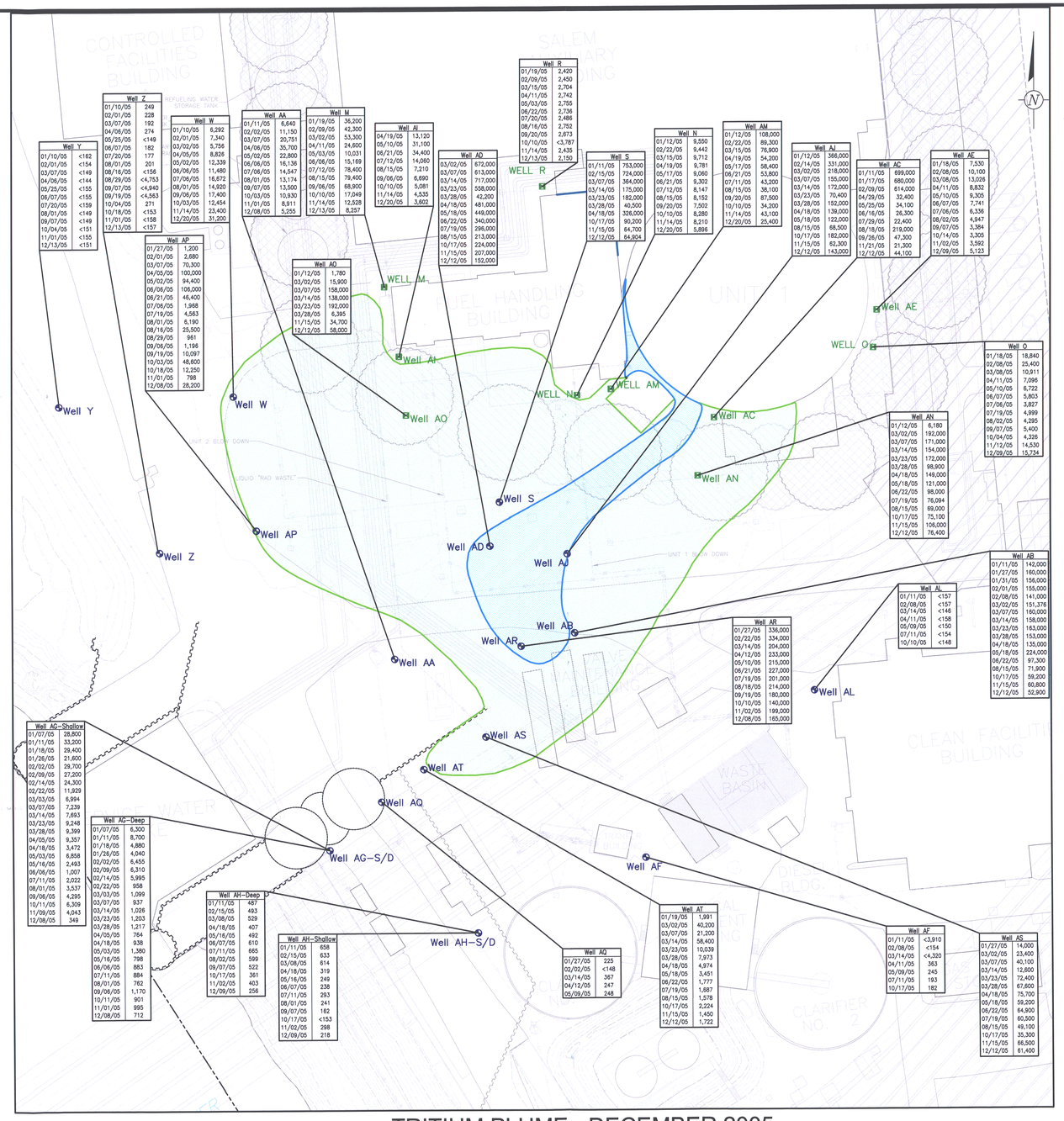
SCALE: 1"=30'



TRITIUM PLUME - DECEMBER 2004

PILOT SYSTEM IN SERVICE

SCALE: 1"=30'



Well Y	
01/10/05	<162
02/01/05	<154
03/07/05	<149
04/06/05	<144
05/25/05	<155
06/07/05	<155
07/20/05	<159
08/01/05	<149
09/07/05	<149
10/04/05	<151
11/01/05	<155
12/13/05	<151

Well Z	
01/10/05	249
02/01/05	228
03/07/05	192
04/06/05	274
05/25/05	<149
06/07/05	182
07/20/05	177
08/01/05	201
08/16/05	<156
08/29/05	<4,753
09/07/05	<4,940
09/19/05	<4,563
10/04/05	271
10/18/05	<153
11/01/05	<158
12/13/05	<157

Well W	
01/10/05	6,292
02/01/05	7,340
03/02/05	5,755
04/05/05	8,826
05/02/05	12,339
06/06/05	11,480
07/06/05	16,672
08/01/05	14,920
09/06/05	17,400
10/03/05	12,454
11/14/05	23,400
12/20/05	31,200

Well AP	
01/27/05	1,200
02/01/05	2,880
03/07/05	70,300
04/05/05	100,000
05/02/05	84,400
06/06/05	106,000
06/21/05	46,400
07/06/05	1,998
07/19/05	4,563
08/01/05	8,190
08/16/05	25,500
08/29/05	961
09/06/05	1,196
09/19/05	10,097
10/03/05	48,600
10/18/05	12,250
11/01/05	798
12/08/05	28,200

Well AA	
01/11/05	6,640
02/02/05	11,150
03/07/05	20,751
04/06/05	35,700
05/02/05	22,800
06/06/05	16,136
07/06/05	14,547
08/01/05	13,174
09/07/05	13,500
10/03/05	10,930
11/01/05	8,911
12/08/05	5,255

Well M	
01/19/05	36,200
02/09/05	42,300
03/02/05	53,300
04/11/05	24,600
05/03/05	10,031
06/08/05	15,169
07/12/05	78,400
08/15/05	79,400
09/06/05	68,900
10/10/05	17,049
11/14/05	12,528
12/13/05	8,257

Well AI	
04/19/05	13,120
05/10/05	31,100
06/21/05	34,400
07/12/05	14,060
08/15/05	7,210
09/06/05	6,690
10/10/05	5,081
11/14/05	4,535
12/20/05	3,602

Well AD	
03/02/05	672,000
03/07/05	613,000
03/14/05	717,000
03/23/05	558,000
03/28/05	42,200
04/18/05	481,000
05/18/05	449,000
06/22/05	340,000
07/19/05	296,000
08/15/05	213,000
10/17/05	224,000
11/15/05	207,000
12/12/05	152,000

Well R	
01/19/05	2,420
02/09/05	2,450
03/15/05	2,704
04/11/05	2,742
05/03/05	2,755
06/22/05	2,736
07/20/05	2,486
08/16/05	2,752
09/20/05	2,673
10/10/05	<3,787
11/14/05	2,435
12/13/05	2,150

Well S	
01/11/05	753,000
02/15/05	724,000
03/07/05	354,000
03/14/05	175,000
03/23/05	182,000
03/28/05	40,500
04/18/05	328,000
10/17/05	90,200
11/15/05	64,700
12/12/05	64,904

Well N	
01/12/05	9,550
02/22/05	9,442
03/15/05	9,712
04/19/05	9,781
05/17/05	9,060
06/21/05	9,302
07/12/05	8,147
08/15/05	8,152
09/20/05	7,502
10/10/05	8,280
11/14/05	8,210
12/20/05	5,896

Well AM	
01/12/05	108,000
02/22/05	89,300
03/15/05	76,900
04/19/05	54,200
05/17/05	58,400
06/21/05	53,800
07/11/05	43,200
08/15/05	38,100
09/20/05	87,500
10/10/05	34,200
11/14/05	43,100
12/20/05	25,400

Well AJ	
01/12/05	366,000
02/14/05	331,000
03/02/05	218,000
03/07/05	155,000
03/14/05	172,000
03/23/05	70,400
03/28/05	152,000
04/18/05	139,000
05/18/05	122,000
08/15/05	68,500
10/17/05	182,000
11/15/05	62,300
12/12/05	143,000

Well AC	
01/11/05	699,000
01/17/05	680,000
02/09/05	614,000
04/29/05	32,400
05/25/05	34,100
06/16/05	26,300
07/29/05	22,400
08/18/05	219,000
09/26/05	47,300
11/21/05	21,300
12/12/05	44,100

Well AE	
01/18/05	7,530
02/08/05	10,100
03/08/05	13,026
04/11/05	8,832
05/10/05	9,305
06/07/05	7,741
07/06/05	6,336
08/02/05	4,947
09/07/05	3,384
10/14/05	3,305
11/02/05	3,592
12/09/05	5,123

Well AQ	
01/12/05	1,780
03/02/05	15,900
03/07/05	158,000
03/14/05	138,000
03/23/05	192,000
03/28/05	6,395
11/15/05	34,700
12/12/05	58,000

Well O	
01/18/05	18,840
02/08/05	25,400
03/08/05	10,911
04/11/05	7,096
05/10/05	6,722
06/07/05	5,803
07/06/05	3,827
07/19/05	4,999
08/02/05	4,295
09/07/05	5,400
10/04/05	4,326
11/12/05	14,330
12/09/05	15,734

Well AN	
01/12/05	6,180
03/02/05	192,000
03/07/05	171,000
03/14/05	154,000
03/23/05	172,000
03/28/05	98,900
04/18/05	149,000
05/18/05	121,000
06/22/05	98,000
07/19/05	76,094
08/15/05	69,000
10/17/05	75,100
11/15/05	106,000
12/12/05	76,400

Well AB	
01/11/05	142,000
01/27/05	160,000
01/31/05	156,000
02/01/05	155,000
02/08/05	141,000
03/02/05	151,376
03/07/05	160,000
03/14/05	158,000
03/23/05	163,000
03/28/05	153,000
04/18/05	135,000
05/18/05	224,000
06/22/05	97,300
08/15/05	71,900
10/17/05	59,200
11/15/05	60,800
12/12/05	52,900

Well AL	
01/11/05	<157
02/08/05	<157
03/14/05	<146
04/11/05	<158
05/09/05	<150
07/11/05	<154
10/10/05	<148

Well AR	
01/27/05	336,000
02/22/05	334,000
03/14/05	204,000
04/12/05	233,000
05/10/05	215,000
06/21/05	227,000
07/19/05	201,000
08/18/05	214,000
09/15/05	180,000
10/10/05	140,000
11/02/05	199,000
12/08/05	165,000

Well AG-Shallow	
01/07/05	28,800
01/11/05	33,200
01/18/05	29,400
01/26/05	21,600
02/02/05	29,700
02/09/05	27,200
02/14/05	24,300
02/22/05	11,929
03/03/05	6,994
03/07/05	7,239
03/14/05	7,693
03/23/05	9,248
03/28/05	9,399
04/05/05	9,357
04/18/05	3,472
05/03/05	6,858
05/16/05	2,493
06/06/05	1,007
07/11/05	2,022
08/01/05	3,537
09/06/05	4,295
10/11/05	6,309
11/09/05	4,043
12/08/05	349

Well AG-Deep	
01/07/05	6,300
01/11/05	8,700
01/18/05	4,880
01/26/05	4,040
02/02/05	6,455
02/09/05	6,310
02/14/05	5,995
02/22/05	958
03/03/05	1,099
03/07/05	937
03/14/05	1,026
03/23/05	1,203
03/28/05	1,217
04/05/05	754
04/18/05	938
05/03/05	1,380
05/16/05	798
06/06/05	883
07/11/05	884
08/01/05	762
09/06/05	1,170
10/11/05	901
11/01/05	995
12/08/05	712

Well AH-Deep	
01/11/05	487
02/15/05	493
03/08/05	529
04/18/05	407
05/16/05	492
06/07/05	610
07/11/05	665
08/02/05	599
09/07/05	522
10/17/05	361
11/02/05	403
12/09/05	256

Well AH-Shallow	
01/11/05	658
02/15/05	633
03/08/05	614
04/18/05	319
05/16/05	249
06/07/05	238
07/11/05	293
08/01/05	241
09/07/05	162
10/17/05	<153
11/02/05	298
12/09/05	218

Well AQ	
01/27/05	225
02/02/05	<148
03/14/05	367
04/12/05	247
05/09/05	248

Well AT	
01/19/05	1,991
03/02/05	40,200
03/07/05	21,200
03/14/05	58,400
03/23/05	10,039
03/28/05	7,973
04/18/05	4,974
05/18/05	3,451
06/22/05	1,777
07/19/05	1,687
08/15/05	1,578
10/17/05	2,224
11/15/05	1,450
12/12/05	1,722

Well AF	
01/11/05	<3,910
02/08/05	<154
03/14/05	<4,320
04/11/05	363
05/09/05	245
07/11/05	193
10/17/05	182

Well AS	
01/27/05	14,000
03/02/05	23,400
03/07/05	40,100
03/14/05	12,600
03/23/05	72,400
03/28/05	67,600
04/18/05	75,700
05/18/05	59,200
06/22/05	64,900
07/19/05	60,500
08/15/05	49,100
10/17/05	35,300
11/15/05	66,500
12/12/05	61,400

TRITIUM PLUME - DECEMBER 2005

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.

D-02

0 30 60 90 SCALE: 1"=30'

0 40 80 120 SCALE: 1"=40'

NO.	DATE	REVISION DESCRIPTION	BY / CKD

ARCADIS

6 Terry Drive
Suite 300, Newtown, Pa 18940
Tel: 267/685-1800 Fax: 267/685-1801

PSEG NUCLEAR, LLC
SALEM GENERATING STATION

ARTIFICIAL ISLAND
HANCOCK'S BRIDGE, NEW JERSEY

GROUNDWATER TRITIUM RESULTS

DRAWN	DATE	PROJECT MANAGER	DEPARTMENT MANAGER
M. WASILEWSKI	1/9/06	P. MILIONIS	A. ROBINSON
		LEAD DESIGN PROF. S. POTTER	CHECKED C. SHARPE
		PROJECT NUMBER NP000571.0005	DRAWING NUMBER 3

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