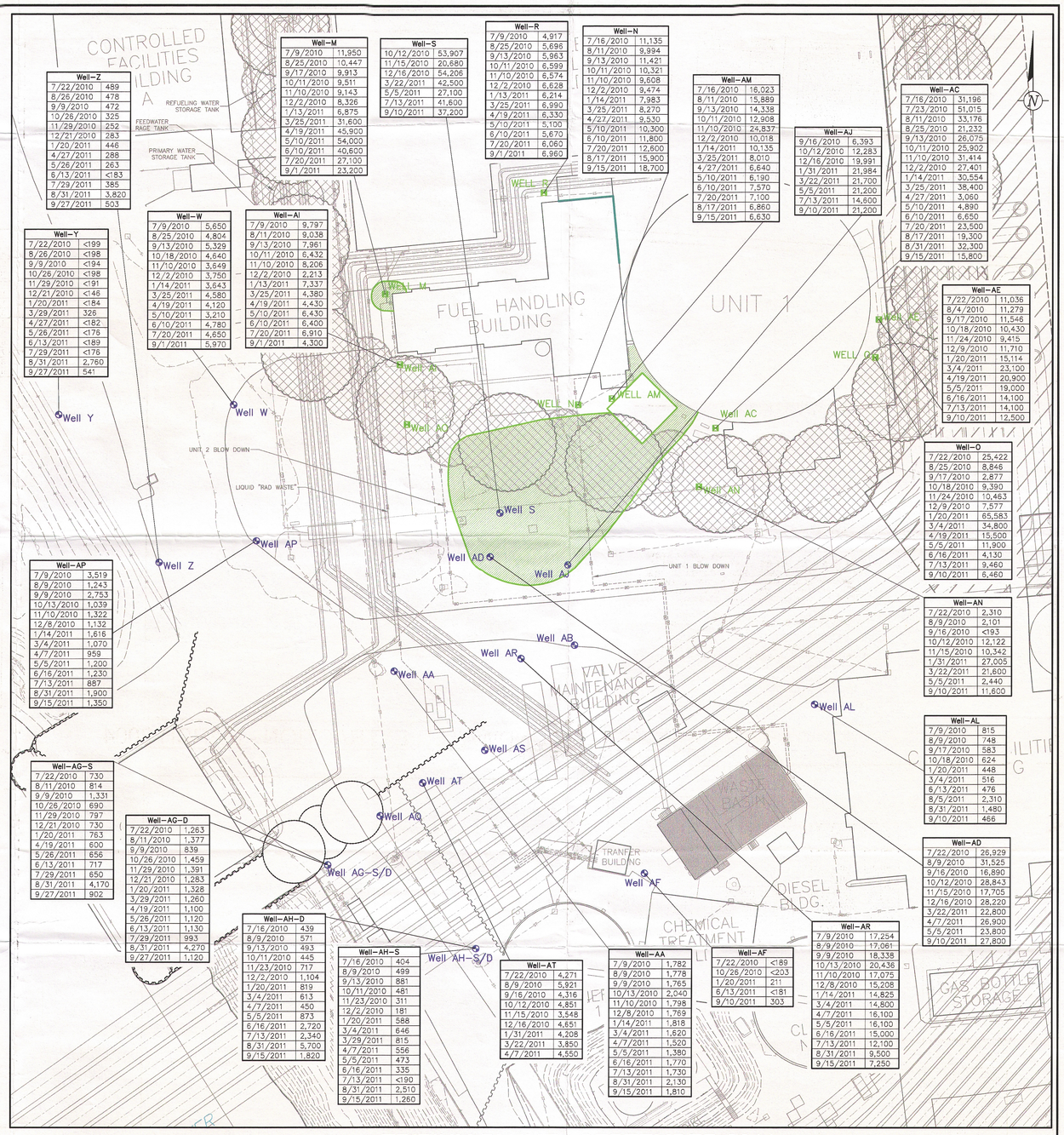
BASELINE TRITIUM PLUME - PRE-GROUNDWATER EXTRACTION - MARCH 2004

SCALE: 1"=30'

TRITIUM PLUME - SEPTEMBER 2010

FULL SCALE SYSTEM IN SERVICE

SCALE: 1"=30'



Well–Z	
7/22/2010	489
8/26/2010	478
9/9/2010	472
10/26/2010	325
11/29/2010	252
12/21/2010	283
1/20/2011	446
4/27/2011	288
5/26/2011	263
6/13/2011	<183
7/29/2011	385
8/31/2011	3,820
9/27/2011	503

Well–M	
7/9/2010	11,950
8/25/2010	10,447
9/17/2010	9,913
10/11/2010	9,511
11/10/2010	9,143
12/2/2010	8,326
1/13/2011	6,875
3/25/2011	31,600
4/19/2011	45,900
5/10/2011	54,000
6/10/2011	40,600
7/20/2011	27,100
9/1/2011	23,200

Well–S	
10/12/2010	53,907
11/15/2010	20,680
12/16/2010	54,206
3/22/2011	42,500
5/5/2011	27,100
7/13/2011	41,600
9/10/2011	37,200

Well–R	
7/9/2010	4,917
8/25/2010	5,698
9/13/2010	5,963
10/11/2010	6,599
11/10/2010	8,574
12/2/2010	6,628
1/13/2011	6,214
3/25/2011	6,990
4/19/2011	6,330
5/10/2011	5,100
6/10/2011	5,670
7/20/2011	6,060
9/1/2011	6,960

Well–N	
7/16/2010	11,135
8/11/2010	9,894
9/13/2010	11,421
10/11/2010	10,321
11/10/2010	9,608
12/2/2010	9,474
1/14/2011	7,983
3/25/2011	8,270
4/27/2011	9,530
5/10/2011	10,300
6/10/2011	11,800
7/20/2011	12,600
8/17/2011	15,900
9/19/2011	18,700

Well–AM	
7/16/2010	16,023
8/11/2010	15,889
9/13/2010	14,338
10/11/2010	12,908
11/10/2010	24,837
12/2/2010	10,018
1/14/2011	10,135
3/25/2011	8,010
4/27/2011	6,640
5/10/2011	6,190
6/10/2011	7,570
7/20/2011	7,100
8/17/2011	6,860
9/15/2011	6,630

Well–AJ	
9/16/2010	6,393
10/12/2010	12,283
12/16/2010	19,991
1/31/2011	21,984
3/22/2011	21,700
5/5/2011	21,200
7/13/2011	14,600
9/10/2011	21,200

Well–AC	
7/16/2010	31,196
7/23/2010	51,015
8/11/2010	33,176
8/25/2010	21,232
9/13/2010	26,075
10/11/2010	25,902
11/10/2010	31,414
12/2/2010	27,401
1/14/2011	30,554
3/25/2011	38,400
4/27/2011	3,060
5/10/2011	4,890
6/10/2011	6,650
7/20/2011	23,500
8/17/2011	19,300
8/31/2011	32,300
9/15/2011	15,800

Well–Y	
7/22/2010	<199
8/26/2010	<198
9/9/2010	<194
10/26/2010	<198
11/29/2010	<191
12/21/2010	<146
1/20/2011	<184
3/29/2011	326
4/27/2011	<182
5/26/2011	<176
6/13/2011	<189
7/29/2011	<176
8/31/2011	2,760
9/27/2011	541

Well–W	
7/9/2010	5,650
8/25/2010	4,804
9/13/2010	5,329
10/18/2010	4,640
11/10/2010	3,649
12/2/2010	3,750
1/14/2011	3,643
3/25/2011	4,580
4/19/2011	4,120
5/10/2011	3,210
6/10/2011	4,780
7/20/2011	4,650
9/1/2011	5,970

Well–AI	
7/9/2010	9,797
8/11/2010	9,038
9/13/2010	7,961
10/11/2010	8,432
11/10/2010	8,206
12/2/2010	2,213
1/13/2011	7,337
3/25/2011	4,380
4/19/2011	4,430
5/10/2011	6,430
6/10/2011	6,400
7/20/2011	6,910
9/1/2011	4,300

Well–AE	
7/22/2010	11,036
8/4/2010	11,279
9/17/2010	11,546
10/18/2010	10,430
11/24/2010	9,415
12/9/2010	11,710
1/20/2011	15,114
3/4/2011	23,100
4/19/2011	20,900
5/5/2011	19,000
6/16/2011	14,100
7/13/2011	14,100
9/10/2011	12,500

Well–O	
7/22/2010	25,422
8/25/2010	8,846
9/17/2010	2,877
10/18/2010	9,390
11/24/2010	10,463
12/9/2010	7,577
1/20/2011	65,583
3/4/2011	34,800
4/19/2011	15,500
5/5/2011	11,900
6/16/2011	4,130
7/13/2011	9,460
9/10/2011	6,460

Well–AN	
7/22/2010	2,310
8/9/2010	2,101
9/16/2010	<193
10/12/2010	12,122
11/15/2010	10,342
1/31/2011	27,005
3/22/2011	21,600
5/5/2011	2,440
9/10/2011	11,600

Well–AP	
7/9/2010	3,519
8/9/2010	1,243
9/9/2010	2,753
10/13/2010	1,039
11/10/2010	1,322
12/8/2010	1,132
1/14/2011	1,616
3/4/2011	1,070
4/7/2011	959
5/5/2011	1,200
6/16/2011	1,230
7/13/2011	887
8/31/2011	1,900
9/15/2011	1,350

Well–AL	
7/9/2010	815
8/9/2010	748
9/17/2010	583
10/18/2010	624
1/20/2011	448
3/4/2011	516
6/13/2011	476
8/5/2011	2,310
8/31/2011	1,480
9/10/2011	466

Well–AG–S	
7/22/2010	730
8/11/2010	814
9/9/2010	1,331
10/26/2010	690
11/29/2010	797
12/21/2010	730
1/20/2011	763
4/19/2011	600
5/26/2011	656
6/13/2011	717
7/29/2011	650
8/31/2011	4,170
9/27/2011	902

Well–AG–D	
7/22/2010	1,263
8/11/2010	1,377
9/9/2010	839
10/26/2010	1,459
11/29/2010	1,391
12/21/2010	1,283
1/20/2011	1,328
3/29/2011	1,260
4/19/2011	1,100
5/26/2011	1,120
6/13/2011	1,130
7/29/2011	993
8/31/2011	4,270
9/27/2011	1,120

Well–AD	
7/22/2010	26,929
8/9/2010	31,525
9/16/2010	16,890
10/12/2010	28,843
11/15/2010	17,705
12/16/2010	28,220
3/22/2011	22,800
4/7/2011	26,900
5/5/2011	23,800
9/10/2011	27,800

Well–AH–D	
7/16/2010	439
8/9/2010	571
9/13/2010	493
10/11/2010	445
11/23/2010	717
12/2/2010	1,104
1/20/2011	819
3/4/2011	613
4/7/2011	450
5/5/2011	873
6/16/2011	2,720
7/13/2011	2,340
8/31/2011	5,700
9/15/2011	1,820

Well–AH–S	
7/16/2010	404
8/9/2010	499
9/13/2010	881
10/11/2010	481
11/23/2010	311
12/2/2010	181
1/20/2011	588
3/4/2011	646
3/29/2011	815
4/7/2011	556
5/5/2011	473
6/16/2011	335
7/13/2011	<190
8/31/2011	2,510
9/15/2011	1,260

Well–AT	
7/22/2010	4,271
8/9/2010	5,921
9/16/2010	4,316
10/12/2010	4,851
11/15/2010	3,548
12/16/2010	4,651
1/31/2011	4,208
3/22/2011	3,850
4/7/2011	4,550

Well–AA	
7/9/2010	1,782
8/9/2010	1,778
9/9/2010	1,765
10/13/2010	2,040
11/10/2010	1,798
12/8/2010	1,769
1/14/2011	1,818
3/4/2011	1,620
4/7/2011	1,520
5/5/2011	1,380
6/16/2011	1,770
7/13/2011	1,730
8/31/2011	2,130
9/15/2011	1,810

Well–AF	
7/22/2010	<189
10/26/2010	<203
1/20/2011	211
6/13/2011	<181
9/10/2011	303

Well–AR	
7/9/2010	17,254
8/9/2010	17,061
9/9/2010	18,338
10/13/2010	20,436
11/10/2010	17,075
12/8/2010	15,208
1/14/2011	14,825
3/4/2011	14,800
4/7/2011	16,100
5/5/2011	16,100
6/16/2011	15,000
7/13/2011	12,100
8/31/2011	9,500
9/15/2011	7,250

TRITIUM PLUME - SEPTEMBER 2011

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. ON SEPTEMBER 28, 2011, DURING ARCADIS PERSONNEL OBSERVATION OF THE GRS CONTROL PANEL, THE PUMP LOCATED IN WELL AJ WAS OBSERVED TO BE RUNNING, WITH THE REMAINING PUMPS BEING STOPPED (WELLS AB, AN AND S), OFF (WELLS AT AND AD), OR TAGGED OUT (WELLS AO AND AS).

0 30 60 90
SCALE: 1"=30'

0 40 80 120
SCALE: 1"=40'

PSEG NUCLEAR, LLC, SALEM GENERATING STATION,
ARTIFICIAL ISLAND, HANCOCK'S BRIDGE, NEW JERSEY
REMEDIAL ACTION PROGRESS REPORT

GROUNDWATER TRITIUM RESULTS

ARCADIS

FIGURE 2

D-01

CITY: Newtown, Pa DIV/GROUP: ENV DB: M. Wasilewski LD: M. Wasilewski PIC: J. Balletto PM: P. Milkonis TM: C. Sharpe LYR:(On)=ON;*OFF;*REF*
G:\ENV\CADD\TRACI.BEVERETURN-TO\Newtown-PA\WP000571\SW110000\42011-Q3\FIG-02 - GW Tritium Plume 2011-Q3.dwg LAYOUT: 2 SAVED: 2/1/2012 4:47 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: — PLOTSTYLETABLE: ARCADIS\NEWTOWN.CTB PLOTTED: 2/1/2012 4:48 PM
XREFS: IMAGES: PROJECTNAME: —
AGM-BASE_DRAWING Color Logo.JPG