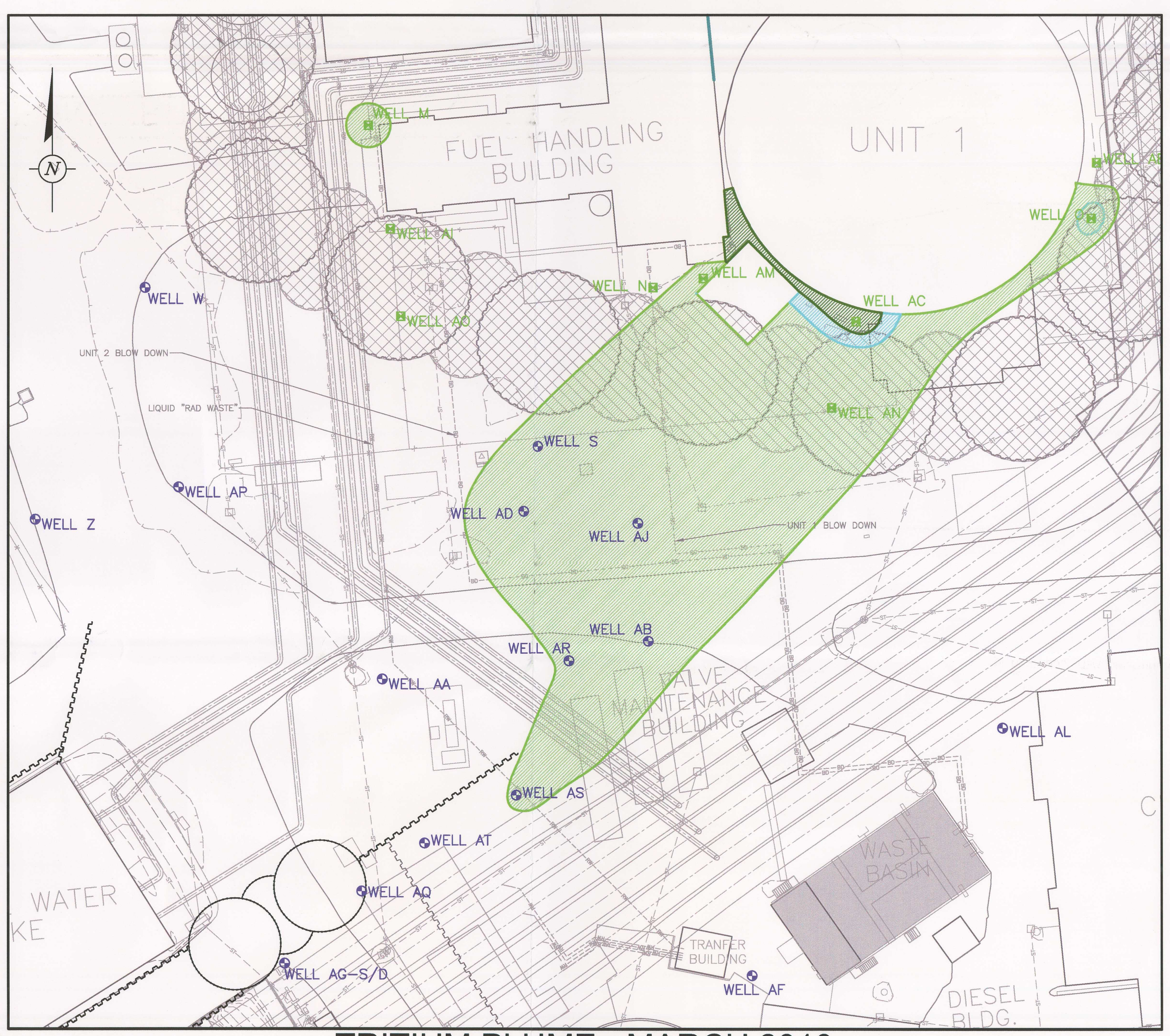
BASELINE TRITIUM PLUME - PRE-GROUNDWATER EXTRACTION - MARCH 2004

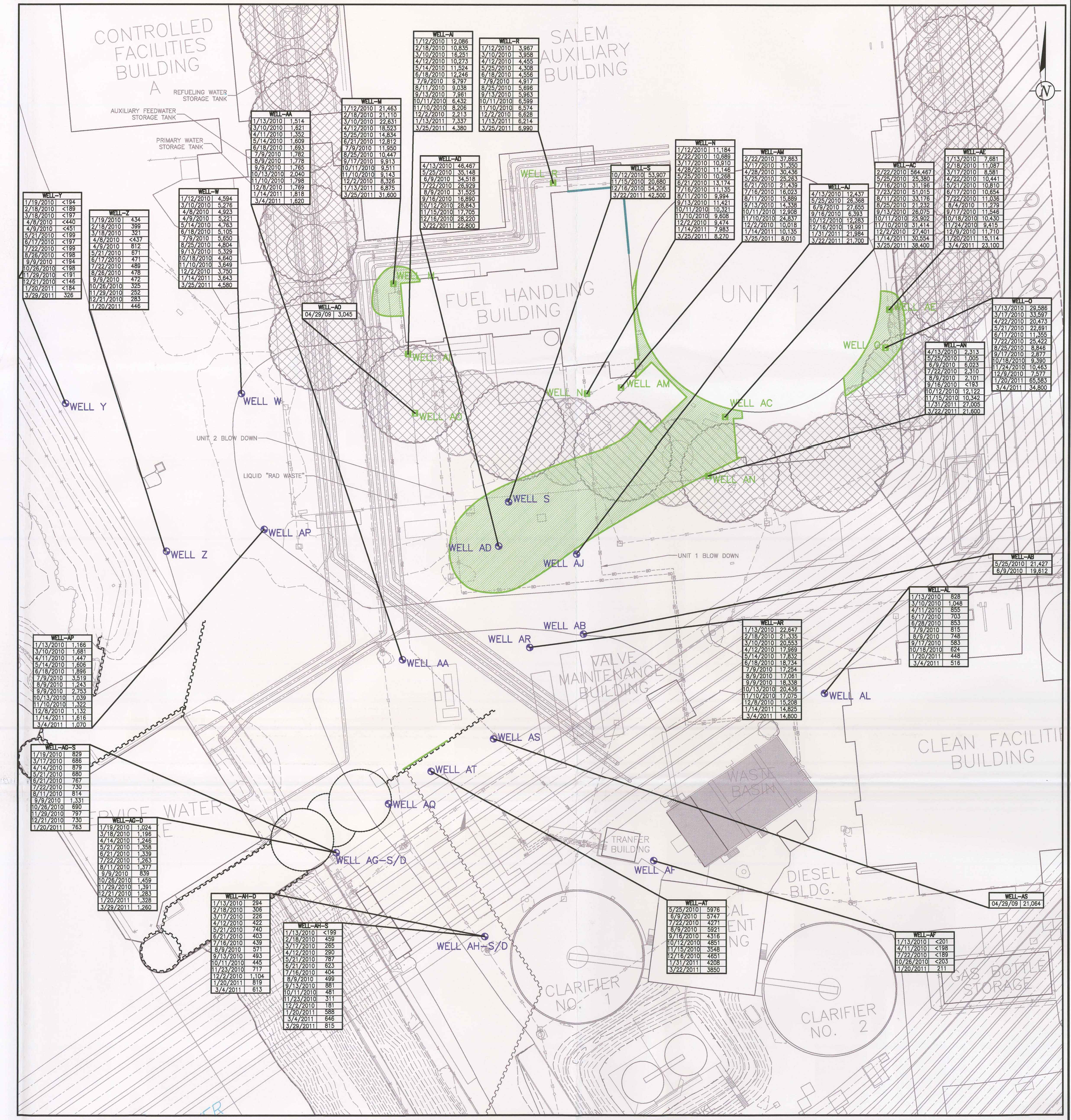
SCALE: 1"=30'



TRITIUM PLUME - MARCH 2010

FULL SCALE SYSTEM IN SERVICE

SCALE: 1"=30'



WELL-Y	
1/19/2010	<194
2/18/2010	<189
3/18/2010	<197
4/8/2010	<440
4/9/2010	<451
5/21/2010	<199
6/17/2010	<197
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

WELL-Z	
1/19/2010	434
2/18/2010	399
3/18/2010	321
4/8/2010	<437
4/9/2010	812
5/21/2010	671
6/17/2010	471
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

WELL-W	
1/12/2010	4,594
3/10/2010	5,276
4/8/2010	4,923
4/9/2010	5,221
5/14/2010	4,763
6/18/2010	5,105
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

WELL-AA	
1/13/2010	1,514
3/10/2010	1,621
4/11/2010	1,352
5/14/2010	1,609
6/18/2010	1,693
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

WELL-M	
1/12/2010	21,463
2/18/2010	21,110
3/10/2010	22,631
4/12/2010	18,523
5/25/2010	14,834
6/21/2010	12,812
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

WELL-AI	
1/12/2010	12,086
2/18/2010	10,835
3/10/2010	16,251
4/12/2010	10,273
5/14/2010	11,524
6/18/2010	12,246
7/9/2010	9,797
8/11/2010	9,038
9/13/2010	7,961
10/11/2010	6,432
11/10/2010	8,206
12/2/2010	2,213
1/13/2011	7,337
3/25/2011	4,380

WELL-R	
1/12/2010	3,967
3/10/2010	3,958
4/12/2010	4,455
5/25/2010	4,308
6/18/2010	4,556
7/9/2010	4,917
8/25/2010	5,696
9/13/2010	5,963
10/11/2010	6,599
11/10/2010	6,574
12/2/2010	6,628
1/13/2011	6,214
3/25/2011	6,990

WELL-AD	
4/13/2010	46,467
5/25/2010	35,148
6/9/2010	34,518
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

WELL-AO	
04/29/09	3,045

WELL-S	
10/12/2010	53,907
11/15/2010	20,680
12/16/2010	54,206
3/22/2011	42,500

WELL-N	
1/12/2010	11,184
2/22/2010	10,689
3/17/2010	10,910
4/28/2010	11,146
5/25/2010	10,268
6/21/2010	13,174
7/16/2010	11,135
8/11/2010	9,994
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

WELL-AM	
2/22/2010	37,863
3/17/2010	31,350
4/28/2010	30,436
5/25/2010	25,263
6/21/2010	21,439
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

WELL-AJ	
4/13/2010	12,437
5/25/2010	26,368
6/9/2010	27,655
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

WELL-AC	
2/22/2010	564,467
5/25/2010	25,380
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

WELL-AE	
1/13/2010	7,681
2/18/2010	11,087
3/17/2010	8,581
4/22/2010	10,441
5/21/2010	10,810
6/17/2010	10,654
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

WELL-O	
1/13/2010	29,586
3/17/2010	33,597
4/22/2010	20,473
5/21/2010	22,691
6/17/2010	11,355
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

WELL-AN	
4/13/2010	2,313
5/25/2010	1,005
6/9/2010	6,023
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

WELL-AB	
5/25/2010	21,427
6/9/2010	19,612

WELL-AL	
1/13/2010	828
3/10/2010	1,048
4/11/2010	855
6/17/2010	703
6/28/2010	853
7/9/2010	815
8/9/2010	748
9/17/2010	583
10/18/2010	624
1/20/2011	448
3/4/2011	516

WELL-AR	
1/13/2010	22,647
2/18/2010	21,335
3/10/2010	20,553
4/12/2010	17,969
5/14/2010	17,832
6/18/2010	18,734
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

WELL-AP	
1/13/2010	1,166
3/10/2010	1,681
4/11/2010	1,447
5/14/2010	1,606
6/18/2010	1,896
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

WELL-AG-S	
1/19/2010	829
3/17/2010	686
4/14/2010	879
5/21/2010	680
6/21/2010	767
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

WELL-AG-D	
1/19/2010	1,024
3/18/2010	1,196
4/14/2010	1,246
5/21/2010	1,358
6/21/2010	1,339
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

WELL-AH-D	
1/13/2010	294
2/18/2010	306
3/17/2010	226
4/12/2010	422
5/21/2010	740
6/21/2010	403
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

WELL-AH-S	
1/13/2010	<199
2/18/2010	459
3/17/2010	265
4/12/2010	290
5/21/2010	787
6/21/2010	623
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

WELL-AT	
5/25/2010	5976
6/9/2010	5747
7/22/2010	4271
8/9/2010	5921
9/16/2010	4316
10/12/2010	4851
11/15/2010	3548
12/16/2010	4651
1/31/2011	4208
3/22/2011	3850

WELL-AF	
1/13/2010	<201
4/11/2010	<198
7/22/2010	<189
10/26/2010	<203
1/20/2011	211

WELL-AS	
04/29/09	21,064

TRITIUM PLUME - MARCH 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. WELL S OUT OF SERVICE DUE TO LOW YIELD.
4. REPLACED SEPTEMBER 2008 DATA POINT - DETERMINED TO BE NON-REPRESENTATIVE DUE TO PUMP FAILURE. OCTOBER 2008 GRAB SAMPLE RESULTS SUBSTITUTED.

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-02

CITY: Newtown, Pa DIV/GROUP: ENV DB: M. Wasilewski LD: M. Wasilewski PIC: J. Balletto PM: P. Milionis TM: C. Sharpe LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Newtown\ACT\NP000571\0010\00006\Q1_2011\FIG-02 - GW Tritium Plume 2011-03.dwg LAYOUT: 2 SAVED: 9/26/2011 5:25 PM ACADVER: 17.1S (LMS TECH) PAGESETUP: — PLOTSTYLETABLE: ARCADIS (SIZE C-E).CTB PLOTTED: 9/26/2011 5:25 PM BY: WASILEWSKI, MATT
XREFS: AGM-BASE_02 IMAGES: 2k10cws.jpg 3linecwl.TIF A$C3547100D.dib A$C45965718.dib A$C4DEB2D8D.dib ARCADIS Color Logo.JPG DOC (12).TIF img-2261515-0001.tif salamcwl.JPG salamcws.JPG TEMP001.TIF PROJECTNAME: —