

State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AA	36.0	11/24/03	597 ± 161	05/10/12	1,270 ± 223
		04/12/04	2,757 ± 244	06/13/12	1,760 ± 255
		01/13/07	1,826 ± 181	07/23/12	1,550 ± 194
		05/15/07	1,649 ± 203	08/22/12	1,470 ± 279
		01/23/08	1,376 ± 157	09/12/12	1,410 ± 273
		01/08/09	1,268 ± 180	10/11/12	1,530 ± 226
		01/13/10	1,411 ± 202	11/30/12	1,720 ± 304
		04/11/10	1,455 ± 190	12/18/12	1,510 ± 274
		08/09/10	1,610 ± 378	01/17/13	1,780 ± 305
		09/09/10	1,590 ± 188	02/14/13	1,770 ± 300
		10/13/10	1,680 ± 221	03/18/13	1,580 ± 255
		11/10/10	1,450 ± 334	04/08/13	1,530 ± 289
		12/08/10	1,660 ± 210	05/15/13	1,220 ± 255
		01/14/11	1,470 ± 181	06/27/13	1,740 ± 309
		02/07/11	1,440 ± 347	07/15/13	1,520 ± 207
		03/04/11	1,540 ± 214	08/12/13	1,380 ± 278
		04/07/11	1,550 ± 290	09/18/13	1,280 ± 183
		05/05/11	1,290 ± 269		
		06/16/11	1,260 ± 252		
		07/13/11	1,360 ± 266		
		08/31/11	4,720 ± 260		
		09/15/11	1,680 ± 240		
		10/20/11	1,450 ± 169		
		11/17/11	1,430 ± 289		
		01/19/12	1,940 ± 332		
		02/15/12	1,540 ± 226		
		03/15/12	1,520 ± 283		
		04/17/12	1,390 ± 190		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

² New Jersey Groundwater Quality Standards (NJGWQS) are the same as the New Jersey Surface Water Quality Standards and the US Environmental Protection Agency drinking water standards for radionuclides

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Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AA-V	85.0	06/19/13	8,890 ± 377		
		06/27/13	9,150 ± 373		
		07/15/13	9,200 ± 375		
		08/12/13	8,950 ± 650		
		08/20/13	8,110 ± 340		
		09/16/13	8,500 ± 634		
		09/23/13	8,260 ± 341		

- Results in picoCuries per liter (pCi/L)
- Well AA-V was installed in May 2013
- The current sampling frequency is monthly

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MDA ¹			300		300
NJGWQS ²			20,000		20,000
AB	42.0	11/19/03	326,695 ± 2,093	06/20/12	2,000 ± 331
		03/03/04	176,626 ± 1,554	11/29/12	3,950 ± 413
		12/13/04	118,133 ± 1,256	12/20/12	7,580 ± 595
		01/11/05	131,064 ± 1,317	01/18/13	24,300 ± 1,060
		02/08/05	124,946 ± 989	02/15/13	6,140 ± 300
		03/07/05	136,149 ± 1,337	03/21/13	32,900 ± 1,210
		04/18/05	121,388 ± 1,267	04/11/13	25,500 ± 1,060
		05/18/05	108,389 ± 1,191	05/20/13	38,200 ± 994
		06/22/05	91,023 ± 1,472	06/27/13	36,100 ± 734
		08/15/05	65,108 ± 641	07/16/13	30,100 ± 631
		12/12/05	48,728 ± 836		
		01/24/06	45,219 ± 550		
		02/22/06	44,240 ± 550		
		03/21/06	46,799 ± 796		
		04/17/06	47,419 ± 583		
		05/15/06	42,690 ± 543		
		06/20/06	37,048 ± 507		
		07/24/06	38,164 ± 512		
		09/21/06	39,372 ± 528		
		01/23/07	4,275 ± 222		
		02/06/07	34,635 ± 360		
		06/19/07	31,247 ± 459		
		08/23/07	21,480 ± 361		
		09/20/07	20,697 ± 350		
		05/11/09	21,153 ± 462		
		06/10/09	27,335 ± 518		
		04/13/10	19,543 ± 407		
		05/25/10	18,554 ± 338		
		06/09/10	17,751 ± 686		

- Results in picoCuries per liter (pCi/L)
- Between 06/09/10 and 06/20/12 the well had not been sampled as it was reported as dry.
- Current sampling frequency is monthly

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MDA ¹			300		300
NJGWQS ²			20,000		20,000
AC	24.0	02/09/05	543,977 ± 2,724	11/10/10	28,300 ± 921
		06/16/06	12,721 ± 329	12/02/10	26,000 ± 897
		11/27/07	28,454 ± 395	01/14/11	26,900 ± 552
		12/29/07	53,082 ± 477	02/07/11	26,700 ± 592
		01/23/08	44,709 ± 485	03/25/11	33,000 ± 1,240
		02/15/08	38,707 ± 461	04/27/11	2,510 ± 362
		03/30/08	43,185 ± 485	05/10/11	5,400 ± 519
		04/29/08	57,663 ± 551	06/10/11	7,160 ± 545
		05/30/08	28,018 ± 433	07/20/11	18,700 ± 763
		07/21/08	23,783 ± 403	08/17/11	17,400 ± 912
		08/21/08	24,324 ± 428	08/31/11	31,100 ± 627
		12/15/08	21,268 ± 357	09/15/11	12,300 ± 487
		01/23/09	21,557 ± 358	12/08/11	15,800 ± 635
		02/11/09	19,590 ± 340	01/06/12	31,700 ± 658
		03/20/09	17,055 ± 327	02/08/12	67,200 ± 1,680
		04/27/09	20,911 ± 404	03/15/12	85,500 ± 1,920
		06/22/09	15,599 ± 405	04/17/12	397,000 ± 7,780
		08/27/09	21,843 ± 431	05/10/12	31,200 ± 652
		01/12/10	47,952 ± 629	06/13/12	9,560 ± 429
		03/17/10	124,133 ± 996	07/23/12	24,800 ± 1,040
		04/28/10	62,863 ± 688	08/22/12	17,200 ± 996
		05/25/10	22,360 ± 362	09/12/12	16,300 ± 657
		07/16/10	25,118 ± 742	10/11/12	34,900 ± 1,260
		07/23/10	44,717 ± 997	11/28/12	684,000 ± 13,300
		08/11/10	29,300 ± 5,700	12/19/12	580,000 ± 11,300
		08/25/10	19,800 ± 3,860	01/14/13*	275,000 ± 5,350
		09/13/10	23,900 ± 510	01/14/13**	528,000 ± 10,300
		10/11/10	21,000 ± 715		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly
- * Sample was collected using a ‘bailer grab’ device.
- ** Sample was collected using a Low Flow pump.

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MDA ¹			300		300
NJGWQS ²			20,000		20,000
AC (continued)	24.0	01/23/13*	33,400 ± 951		
		01/23/13**	520,000 ± 10,000		
		02/11/13*	63,000 ± 953		
		02/11/13**	570,000 ± 5,630		
		02/20/13*	331,000 ± 6,400		
		02/20/13**	524,000 ± 10,100		
		03/11/13 *	74,300 ± 1,560		
		03/11/13**	596,000 ± 11,500		
		03/18/13 *	253,000 ± 4,920		
		03/19/13**	396,000 ± 7,710		
		04/08/13	264,000 ± 5,110		
		05/17/13	278,000 ± 5,380		
		06/26/13	113,000 ± 2,230		
		07/12/13	127,000 ± 2,480		
		08/16/13	154,000 ± 3,010		
		09/20/13	520,000 ± 10,100		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly
- * Sample was collected using a ‘bailer grab’ device
- ** Sample was collected using a Low Flow pump.

NOTE: Since March 19, 2013, the Low Flow pump is the only sampling method utilized by PSEG.

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MDA ¹			300		300
NJGWQS ²			20,000		20,000
AD	43.0	11/02/03	225,378 ± 1,745	01/24/08	41,676 ± 474
		05/04/04	372,281 ± 2,238	02/25/08	49,122 ± 512
		05/18/05	396,093 ± 2,289	03/12/08	53,091 ± 533
		06/22/05	300,816 ± 2,641	04/23/08	47,060 ± 500
		07/19/05	288,546 ± 1,310	05/09/08	1,075 ± 176
		08/15/05	197,371 ± 1,105	07/16/08	51,035 ± 554
		12/12/05	134,896 ± 1,335	09/22/08	52,143 ± 556
		01/24/06	125,902 ± 914	02/18/09	45,812 ± 492
		02/22/06	122,175 ± 894	05/11/09	63,778 ± 769
		03/21/06	118,629 ± 1,252	06/10/09	46,911 ± 670
		04/17/06	449,651 ± 1,683	04/13/10	45,892 ± 592
		05/15/06	101,058 ± 812	05/25/10	30,204 ± 414
		06/20/06	84,336 ± 743	06/09/10	30,220 ± 864
		07/24/06	73,202 ± 699	07/22/10	22,977 ± 733
		08/22/06	76,258 ± 752	08/09/10	30,200 ± 632
		09/21/06	65,598 ± 671	09/16/10	15,600 ± 420
		10/06/06	69,095 ± 590	10/12/10	27,400 ± 825
		11/16/06	62,614 ± 642	11/15/10	15,800 ± 694
		12/15/06	63,437 ± 652	12/16/10	25,500 ± 580
		01/23/07	65,144 ± 610	02/18/11	22,800 ± 546
		02/06/07	60,603 ± 462	03/22/11	19,700 ± 951
		03/14/07	56,304 ± 547	04/07/11	21,100 ± 992
		04/24/07	56,276 ± 546	05/05/11	20,600 ± 998
		05/22/07	52,280 ± 539	09/10/11	28,300 ± 703
		06/19/07	58,492 ± 554	06/21/12	7,770 ± 608
		07/19/07	62,022 ± 587	12/03/12	29,900 ± 1,170
		08/23/07	56,287 ± 553	12/20/12	2,040 ± 252
		09/20/07	47,217 ± 504	01/18/13	6,850 ± 578
		10/17/07	38,424 ± 421	02/15/13	2,810 ± 228
		11/15/07	41,254 ± 474	03/18/13	1,020 ± 216
		12/13/07	41,329 ± 426	07/15/13	1,730 ± 219

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AD	43.0	08/20/13	6,900 ± 312		
(continued)		09/19/13	8,440 ± 361		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AE	37.5	11/17/03	6,040 ± 315	04/20/07	4,506 ± 202
		01/14/04	14,298 ± 458	05/16/07	6,596 ± 245
		03/03/04	15,208 ± 477	07/19/07	4,882 ± 221
		07/13/04	6,246 ± 324	08/15/07	4,243 ± 205
		11/22/04	3,970 ± 260	09/19/07	10,668 ± 270
		12/13/04	3,617 ± 235	10/04/07	3,579 ± 193
		01/18/05	6,263 ± 326	11/19/07	3,861 ± 193
		02/08/05	9,032 ± 286	12/12/07	4,462 ± 202
		03/08/05	11,222 ± 402	01/16/08	6,337 ± 223
		04/11/05	8,501 ± 315	02/07/08	8,305 ± 249
		05/10/05	8,167 ± 315	03/12/08	9,039 ± 259
		06/07/05	7,166 ± 496	04/01/08	9,016 ± 249
		07/06/05	5,673 ± 496	05/08/08	10,391 ± 294
		08/02/05	4,210 ± 215	06/19/08	7,378 ± 245
		09/07/05	2,889 ± 199	07/16/08	6,706 ± 249
		10/04/05	2,751 ± 205	08/18/08	6,414 ± 264
		12/09/05	3,977 ± 318	09/02/08	5,434 ± 233
		01/16/06	8,932 ± 282	10/17/08	5,572 ± 220
		02/07/06	9,255 ± 284	11/18/08	7,834 ± 263
		03/07/06	10,248 ± 423	12/16/08	8,568 ± 253
		04/04/06	8,271 ± 282	01/09/09	9,354 ± 261
		05/02/06	5,873 ± 232	02/24/09	15,709 ± 315
		06/19/06	3,357 ± 215	03/16/09	19,224 ± 347
		07/17/06	3,650 ± 224	04/01/09	19,861 ± 388
		08/21/06	3,381 ± 233	05/13/09	10,032 ± 342
		09/18/06	10,343 ± 323	06/03/09	8,355 ± 344
		10/05/06	3,691 ± 202	08/18/09	7,297 ± 281
		11/02/06	4,605 ± 233	09/23/09	5,647 ± 259
		12/07/06	3,708 ± 229	10/20/09	6,088 ± 265
		01/13/07	4,085 ± 220	11/04/09	6,310 ± 269
		02/24/07	4,508 ± 174	12/22/09	5,429 ± 257
		03/04/07	4,356 ± 213	01/13/10	8,026 ± 301

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AE (continued)	37.5	03/17/10	8,920 ± 315	01/21/13	13,100 ± 783
		04/22/10	10,415 ± 324	02/15/13	12,200 ± 736
		05/21/10	9,413 ± 257	03/15/13	17,300 ± 891
		06/17/10	9,411 ± 529	04/08/13	18,900 ± 717
		07/22/10	9,282 ± 512	05/15/13	13,200 ± 762
		08/04/10	11,200 ± 2,210	06/27/13	13,000 ± 433
		09/17/10	10,600 ± 357	07/10/13	11,400 ± 725
		10/18/10	9,800 ± 495	08/14/13	9,320 ± 662
		11/24/10	8,500 ± 505	09/17/13	8,930 ± 361
		12/09/10	10,600 ± 577		
		01/20/11	13,500 ± 403		
		02/04/11	15,300 ± 458		
		03/04/11	19,500 ± 965		
		04/19/11	18,100 ± 921		
		05/05/11	15,700 ± 875		
		06/16/11	13,100 ± 732		
		07/13/11	14,000 ± 769		
		09/10/11	11,800 ± 615		
		10/20/11	11,400 ± 485		
		11/17/11	11,900 ± 741		
		01/24/12	14,300 ± 789		
		02/23/12	15,100 ± 623		
		03/13/12	15,200 ± 814		
		04/19/12	15,300 ± 480		
		05/30/12	13,400 ± 491		
		06/19/12	11,200 ± 718		
		07/23/12	9,330 ± 660		
		08/30/12	7,900 ± 467		
		09/12/12	7,290 ± 445		
		10/18/12	7,410 ± 501		
		11/30/12	9,300 ± 663		
		12/18/12	9,630 ± 666		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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MDA ¹			300		300
NJGWQS ²			20,000		20,000
AF	45.0	11/24/03	< 229	06/13/11	< 222
		12/10/03	474 ± 146	09/10/11	297 ± 129
		12/21/04	< 233	12/20/11	< 241
		01/11/05	< 259	03/15/12	< 199
		02/08/05	< 211	06/19/12	< 225
		03/17/05	309 ± 134	07/23/12	266 ± 149
		04/11/05	274 ± 134	10/18/12	< 236
		05/09/05	368 ± 142	01/17/13	< 270
		07/11/05	< 265	03/22/13	< 258
		10/17/05	198 ± 163	04/09/13	< 230
		01/16/06	< 281	07/11/13	< 194
		02/08/06	< 211		
		03/17/06	309 ± 134		
		04/10/06	218 ± 179		
		07/17/06	< 279		
		10/09/06	201 ± 180		
		01/22/07	612 ± 163		
		04/19/07	463 ± 144		
		07/13/07	< 271		
		10/09/07	194 ± 149		
		01/23/08	< 230		
		04/22/08	< 239		
		07/16/08	202 ± 155		
		10/20/08	190 ± 146		
		01/19/09	< 247		
		04/08/09	204 ± 149		
		10/20/09	168 ± 161		
		01/13/10	< 290		
		04/11/10	< 266		
		07/22/10	319 ± 280		
		10/26/10	< 228		
		01/20/11	< 216		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is quarter-annual

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MDA ¹			300		300
NJGWQS ²			20,000		20,000
AG-D	40.0	02/23/04	5,409 ± 335	10/17/07	1,852 ± 173
		07/14/04	4,651 ± 281	11/20/07	1,504 ± 165
		11/09/04	3,100 ± 245	12/20/07	952 ± 139
		12/14/04	6,066 ± 326	01/23/08	309 ± 141
		01/11/05	8,275 ± 369	02/20/08	946 ± 157
		03/07/05	828 ± 158	03/13/08	1,156 ± 163
		04/18/05	735 ± 156	04/01/08	1,082 ± 149
		05/16/05	955 ± 169	05/15/08	1,644 ± 188
		06/06/05	700 ± 307	06/24/08	1,585 ± 174
		08/01/05	749 ± 171	07/17/08	1,383 ± 170
		09/06/05	919 ± 171	08/18/08	1,560 ± 191
		10/11/05	1,372 ± 182	09/03/08	1,250 ± 178
		01/09/06	576 ± 172	10/17/08	1,727 ± 171
		02/06/06	382 ± 160	11/21/08	1,056 ± 172
		03/06/06	380 ± 225	12/23/08	779 ± 159
		04/03/06	389 ± 163	01/20/09	733 ± 174
		05/01/06	183 ± 150	02/18/09	379 ± 148
		06/05/06	765 ± 168	03/16/09	1,612 ± 171
		07/11/06	621 ± 178	04/22/09	1,002 ± 186
		08/07/06	621 ± 185	05/13/09	861 ± 189
		09/18/06	634 ± 189	06/03/09	706 ± 179
		10/06/06	607 ± 181	08/19/09	1,140 ± 185
		11/15/06	575 ± 171	09/24/09	533 ± 171
		12/08/06	1,197 ± 196	10/21/09	1,043 ± 179
		01/14/07	620 ± 165	11/04/09	1,140 ± 184
		02/20/07	222 ± 127	12/29/09	1,138 ± 186
		03/14/07	393 ± 147	01/19/10	858 ± 189
		04/19/07	614 ± 145	03/18/10	1,252 ± 202
		05/03/07	442 ± 173	04/14/10	1,037 ± 189
		07/13/07	< 270	05/21/10	1,450 ± 300
		08/16/07	476 ± 153	06/21/10	1,091 ± 290
		09/20/07	462 ± 149	07/22/10	1,267 ± 310

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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² New Jersey Groundwater Quality Standards (NJGWQS) are the same as the New Jersey Surface Water Quality Standards and the US Environmental Protection Agency drinking water standards for radionuclides

State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AG-D (continued)	40.0	08/11/10	1,490 ± 360	07/10/13	889 ± 171
		09/09/10	571 ± 192	08/14/13	776 ± 179
		10/11/10	1,480 ± 355	09/17/13	1,140 ± 175
		10/26/10	1,040 ± 181		
		11/29/10	1,360 ± 220		
		12/21/10	1,160 ± 196		
		01/20/11	1,170 ± 172		
		02/18/11	757 ± 278		
		03/29/11	998 ± 192		
		04/19/11	811 ± 221		
		05/26/11	1,050 ± 157		
		06/13/11	950 ± 235		
		07/29/11	1,120 ± 215		
		08/31/11	1,930 ± 294		
		09/27/11	1,080 ± 202		
		10/07/11	1,173 ± 191		
		11/03/11	1,030 ± 184		
		01/19/12	902 ± 247		
		02/23/12	1,210 ± 205		
		03/15/12	949 ± 238		
		04/19/12	1,260 ± 178		
		05/03/12	1,150 ± 259		
		06/19/12	1,290 ± 278		
		08/30/12	2,030 ± 318		
		10/04/12	1,290 ± 209		
		12/04/12	1,180 ± 262		
		12/15/12	1,100 ± 192		
		01/18/13	859 ± 259		
		03/24/13	833 ± 211		
		04/09/13	721 ± 226		
		05/16/13	930 ± 219		
		06/24/13	730 ± 164		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AG-S	24.2	02/23/04	2,409 ± 267	09/20/07	311 ± 147
		07/14/04	15,536 ± 478	11/20/07	377 ± 148
		11/09/04	19,500 ± 525	12/20/07	309 ± 126
		12/14/04	20,509 ± 544	01/23/08	922 ± 151
		01/11/05	29,243 ± 646	02/20/08	380 ± 149
		02/09/05	27,528 ± 473	03/13/08	381 ± 149
		03/07/05	6,036 ± 306	04/01/08	462 ± 138
		04/18/05	3,132 ± 235	05/15/08	368 ± 168
		05/16/05	2,494 ± 220	06/24/08	600 ± 160
		06/06/05	1,028 ± 313	07/17/08	606 ± 162
		08/01/05	3,267 ± 200	08/18/08	584 ± 174
		09/06/05	3,692 ± 214	09/03/08	348 ± 159
		01/09/06	776 ± 177	10/17/08	1,151 ± 163
		02/06/06	1,562 ± 185	11/21/08	1,072 ± 175
		03/06/06	2,106 ± 270	12/23/08	1,732 ± 172
		04/03/06	1,557 ± 184	01/20/09	2,351 ± 183
		05/01/06	938 ± 168	02/18/09	1,519 ± 166
		06/05/06	805 ± 176	03/16/09	1,789 ± 171
		07/11/06	398 ± 167	04/22/09	996 ± 185
		08/07/06	203 ± 174	05/13/09	870 ± 190
		09/18/06	218 ± 185	06/03/09	747 ± 178
		10/06/06	2,202 ± 206	08/19/09	1,185 ± 186
		11/15/06	567 ± 169	09/24/09	952 ± 180
		12/08/06	394 ± 180	10/21/09	1,159 ± 182
		01/14/07	632 ± 169	11/04/09	1,520 ± 191
		02/20/07	442 ± 129	12/29/09	1,327 ± 189
		03/14/07	389 ± 146	01/19/10	616 ± 185
		04/19/07	< 233	03/17/10	574 ± 189
		05/03/07	257 ± 198	05/21/10	1,131 ± 289
		06/18/07	992 ± 157	06/21/10	654 ± 286
		07/12/07	< 271	07/22/10	484 ± 288
		08/16/07	785 ± 156	09/09/10	1,270 ± 180

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AG-S (continued)	24.2	10/26/10	675 ± 156	08/14/13	984 ± 185
		11/29/10	567 ± 187	09/17/13	775 ± 163
		12/21/10	834 ± 184		
		01/20/11	881 ± 208		
		02/18/11	731 ± 281		
		03/29/11	675 ± 180		
		04/19/11	483 ± 183		
		05/26/11	727 ± 145		
		06/13/11	729 ± 216		
		07/29/11	817 ± 190		
		08/31/11	2,030 ± 300		
		09/27/11	919 ± 186		
		10/07/11	990 ± 186		
		11/03/11	1,050 ± 184		
		12/13/11	931 ± 166		
		01/19/12	579 ± 215		
		02/23/12	651 ± 186		
		03/15/12	790 ± 220		
		04/19/12	863 ± 161		
		05/03/12	934 ± 236		
		06/19/12	1,010 ± 251		
		08/30/12	1,630 ± 290		
		10/04/12	1,480 ± 218		
		12/04/12	1,200 ± 259		
		12/15/12	435 ± 141		
		01/18/12	989 ± 215		
		02/15/13	1,100 ± 254		
		03/20/13	2,110 ± 345		
		04/09/13	1,270 ± 276		
		05/16/13	1,020 ± 230		
		06/24/13	1,190 ± 187		
		07/10/13	1,010 ± 185		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AH-D	40.0	02/23/04	955 ± 230	07/13/07	< 266
		07/19/04	353 ± 151	08/15/07	951 ± 160
		11/15/04	488 ± 150	09/19/07	< 242
		12/20/04	470 ± 158	10/03/07	1,136 ± 160
		01/11/05	357 ± 264	11/19/07	1,077 ± 153
		02/15/05	470 ± 146	12/12/07	940 ± 156
		03/08/05	469 ± 143	01/23/08	1,077 ± 153
		04/18/05	410 ± 141	02/07/08	1,170 ± 165
		05/16/05	577 ± 152	03/12/08	1,521 ± 167
		06/07/05	702 ± 308	04/01/08	1,544 ± 166
		07/11/05	511 ± 164	05/29/08	1,485 ± 188
		08/02/05	< 266	06/20/08	1,004 ± 167
		10/17/05	< 267	07/07/08	930 ± 179
		12/09/05	< 375	08/18/08	982 ± 183
		01/10/06	< 279	09/22/08	699 ± 165
		02/06/06	382 ± 160	10/17/08	760 ± 155
		03/06/06	203 ± 236	11/18/08	< 266
		04/10/06	196 ± 161	12/16/08	389 ± 152
		05/01/06	384 ± 161	01/09/09	390 ± 153
		06/05/06	577 ± 165	02/18/09	193 ± 148
		07/17/06	201 ± 165	03/16/09	603 ± 154
		08/08/06	204 ± 175	04/22/09	198 ± 170
		09/06/06	402 ± 176	05/11/09	535 ± 180
		10/06/06	399 ± 175	06/03/09	310 ± 173
		11/02/06	385 ± 169	08/04/09	211 ± 165
		12/19/06	158 ± 147	09/02/09	1,427 ± 190
		01/22/07	211 ± 163	10/08/09	194 ± 162
		02/20/07	217 ± 124	11/04/09	318 ± 166
		03/14/07	436 ± 164	12/29/09	335 ± 169
		04/19/07	307 ± 140	01/13/10	201 ± 178
		05/03/07	< 284	03/17/10	401 ± 184
		06/18/07	438 ± 154	04/12/10	481 ± 176

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AH-D (continued)	40.0	05/21/10	651 ± 273	02/15/13	1,030 ± 246
		06/21/10	481 ± 275	03/19/13	508 ± 215
		07/16/10	324 ± 284	04/09/13	334 ± 190
		08/09/10	568 ± 209	05/17/13	614 ± 181
		09/13/10	394 ± 170	06/24/13	690 ± 165
		10/11/10	344 ± 161	07/16/13	569 ± 185
		11/23/10	679 ± 203	08/20/13	628 ± 175
		12/02/10	977 ± 186	09/19/13	523 ± 149
		01/20/11	735 ± 193		
		02/18/11	430 ± 157		
		03/04/11	606 ± 178		
		04/07/11	464 ± 186		
		05/05/11	688 ± 144		
		06/16/11	2,520 ± 338		
		07/13/11	1,930 ± 307		
		08/31/11	3,020 ± 362		
		09/15/11	1,540 ± 236		
		10/07/11	1,140 ± 194		
		11/17/11	1,270 ± 188		
		12/13/11	1,190 ± 191		
		01/19/12	949 ± 253		
		02/15/12	830 ± 181		
		03/15/12	1,040 ± 244		
		04/19/12	1,120 ± 171		
		05/30/12	1,090 ± 156		
		06/19/12	734 ± 225		
		08/22/12	911 ± 236		
		09/25/12	922 ± 274		
		10/18/12	352 ± 188		
		12/04/12	1,180 ± 257		
		12/15/12	852 ± 172		
		01/21/13	755 ± 220		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AH-S	24.5	02/23/04	1,248 ± 240	08/15/07	< 249
		07/19/04	577 ± 158	09/19/07	< 239
		11/15/04	622 ± 164	10/03/07	375 ± 147
		12/20/04	563 ± 162	11/19/07	2,624 ± 177
		01/11/05	648 ± 180	12/12/07	4,996 ± 207
		02/15/05	655 ± 154	01/23/08	1,238 ± 157
		03/08/05	581 ± 147	02/07/08	1,343 ± 165
		04/18/05	544 ± 147	03/12/08	1,359 ± 167
		05/16/05	709 ± 157	04/01/08	1544 ± 166
		06/07/05	346 ± 291	05/29/08	187 ± 167
		08/02/05	< 268	06/20/08	397 ± 156
		09/07/05	< 262	07/07/08	547 ± 170
		10/17/05	< 267	08/18/08	583 ± 174
		01/10/06	192 ± 165	09/22/08	352 ± 160
		02/06/06	382 ± 160	10/17/08	1,344 ± 165
		03/06/06	< 383	11/18/08	1,179 ± 168
		04/10/06	< 275	12/16/08	584 ± 156
		05/01/06	192 ± 157	01/09/09	582 ± 155
		06/05/06	208 ± 170	02/18/09	193 ± 148
		07/17/06	202 ± 166	03/16/09	400 ± 150
		08/08/06	197 ± 169	04/22/09	380 ± 167
		09/06/06	401 ± 176	05/11/09	303 ± 175
		10/06/06	201 ± 172	06/03/09	< 277
		11/02/06	196 ± 168	08/04/09	< 269
		12/19/06	157 ± 146	09/02/09	155 ± 163
		01/22/07	411 ± 161	10/08/09	< 263
		02/20/07	448 ± 131	11/04/09	< 267
		03/14/07	406 ± 152	12/29/09	< 271
		04/19/07	< 231	01/13/10	140 ± 177
		05/15/07	< 328	03/17/10	132 ± 178
		06/18/07	468 ± 176	04/12/10	141 ± 172
		07/13/07	314 ± 128	05/21/10	976 ± 285

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AH-S (continued)	24.5	06/21/10	629 ± 276	03/19/13	1,250 ± 257
		07/16/10	320 ± 281	04/09/13	262 ± 176
		08/09/10	253 ± 172	05/17/13	760 ± 200
		09/13/10	351 ± 168	06/24/13	574 ± 159
		10/11/10	484 ± 179	07/16/13	283 ± 175
		11/23/10	< 214	08/20/13	393 ± 165
		12/02/10	310 ± 167	09/19/13	316 ± 139
		01/20/11	555 ± 151		
		02/18/11	729 ± 276		
		03/04/11	636 ± 178		
		04/07/11	429 ± 178		
		05/05/11	369 ± 133		
		06/16/11	272 ± 173		
		07/13/11	423 ± 156		
		08/31/11	1,510 ± 261		
		09/15/11	1,390 ± 224		
		10/07/11	1,490 ± 205		
		11/17/11	1,520 ± 297		
		12/13/11	964 ± 183		
		01/19/12	1,010 ± 258		
		02/15/12	974 ± 197		
		03/15/12	871 ± 229		
		04/19/12	833 ± 158		
		05/30/12	873 ± 149		
		06/19/12	638 ± 215		
		08/22/12	503 ± 194		
		09/25/12	327 ± 207		
		10/18/12	327 ± 183		
		12/04/12	701 ± 211		
		12/15/12	1,040 ± 180		
		01/21/13	926 ± 244		
		02/15/13	1,670 ± 290		

- Results in picoCuries per liter (pCi/L)
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Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AI	22.0	02/26/04	3,925 ± 300	03/18/08	2,690 ± 190
		07/19/04	26,022 ± 604	04/02/08	2,805 ± 176
		07/12/05	12,847 ± 312	05/08/08	3,347 ± 216
		08/15/05	7,383 ± 264	06/19/08	2,392 ± 186
		09/06/05	5,988 ± 241	07/07/08	2,434 ± 189
		12/20/05	3,515 ± 305	08/06/08	2,146 ± 201
		01/17/06	2,698 ± 201	09/02/08	2,220 ± 186
		02/21/06	2,293 ± 193	11/19/08	3,050 ± 196
		03/20/06	2,563 ± 287	12/15/08	4,281 ± 207
		04/11/06	5,403 ± 252	01/08/09	3,364 ± 198
		05/16/06	2,393 ± 189	02/11/09	3,719 ± 201
		06/19/06	2,101 ± 190	03/10/09	3,409 ± 195
		07/18/06	1,375 ± 189	04/08/09	21,005 ± 395
		08/08/06	1,445 ± 199	05/11/09	5,675 ± 276
		09/18/06	1,445 ± 199	06/08/09	8,679 ± 324
		10/10/06	1,771 ± 196	08/18/09	8,515 ± 297
		11/01/06	1,160 ± 183	09/02/09	4,480 ± 242
		12/18/06	1,741 ± 172	10/08/09	6,226 ± 267
		01/13/07	2,699 ± 197	11/17/09	7,350 ± 282
		02/06/07	2,401 ± 150	12/16/09	3160 ± 223
		03/08/07	2,137 ± 173	01/12/10	11,988 ± 348
		05/15/07	2,288 ± 207	03/10/10	16,812 ± 403
		06/18/07	2,467 ± 158	04/12/10	9,954 ± 313
		07/18/07	2,682 ± 195	05/14/10	11,577 ± 281
		08/15/07	2,538 ± 184	06/18/10	10,456 ± 551
		09/20/07	2,334 ± 178	07/09/10	8,406 ± 492
		10/03/07	3,006 ± 185	08/11/10	8,530 ± 1,690
		11/14/07	2,671 ± 180	09/13/10	7,470 ± 308
		12/12/07	2,570 ± 176	10/11/10	5,960 ± 392
		01/17/08	2,840 ± 184	11/10/10	7,010 ± 466
		01/23/08	463 ± 143	12/02/10	2,110 ± 218
		02/06/08	2,737 ± 188	01/13/11	6,780 ± 301

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

² New Jersey Groundwater Quality Standards (NJGWQS) are the same as the New Jersey Surface Water Quality Standards and the US Environmental Protection Agency drinking water standards for radionuclides

State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AI (continued)	22.0	02/08/11	4,320 ± 273		
		03/25/11	4,040 ± 447		
		04/19/11	3,690 ± 429		
		05/10/11	5,910 ± 538		
		06/10/11	6,220 ± 516		
		07/20/11	6,470 ± 527		
		09/01/11	4,550 ± 256		
		10/20/11	4,820 ± 340		
		11/17/11	14,700 ± 815		
		12/08/11	2,040 ± 245		
		01/06/12	15,600 ± 473		
		02/08/12	6,610 ± 545		
		03/13/12	2,760 ± 365		
		04/17/12	3,380 ± 252		
		05/10/12	1,330 ± 224		
		06/13/12	1,010 ± 234		
		07/23/12	1,920 ± 203		
		08/22/12	1,360 ± 274		
		09/12/12	1,900 ± 307		
		10/11/12	1,610 ± 228		
		11/29/12	2,260 ± 341		
		12/15/12	1,850 ± 309		
		01/15/13	2,450 ± 355		
		02/14/13	1,470 ± 269		
		03/15/13	1,280 ± 234		
		07/11/13	1,550 ± 304		
		08/19/13	1,120 ± 194		
		09/17/13	2,350 ± 219		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

² New Jersey Groundwater Quality Standards (NJGWQS) are the same as the New Jersey Surface Water Quality Standards and the US Environmental Protection Agency drinking water standards for radionuclides

State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AJ	35.3	02/25/04	1,305 ± 236	03/21/13	24,200 ± 1,050
		03/09/04	3,485 ± 255	04/11/13	26,200 ± 1,080
		05/18/05	109,547 ± 1,199	06/27/13	16,300 ± 480
		08/15/05	189,109 ± 1,064	07/16/13	19,600 ± 510
		12/12/05	89,687 ± 1,083	08/21/13	21,900 ± 543
		01/24/06	45,215 ± 554	09/23/13	20,900 ± 511
		02/22/06	45,136 ± 557		
		03/21/06	51,897 ± 838		
		04/17/06	46,829 ± 567		
		05/15/06	41,760 ± 538		
		07/24/06	39,051 ± 518		
		08/22/06	76,931 ± 733		
		06/19/07	30,052 ± 424		
		05/11/09	18,468 ± 433		
		06/10/09	27,023 ± 515		
		04/13/10	12,854 ± 347		
		05/25/10	23,906 ± 378		
		06/09/10	23,954 ± 782		
		09/16/10	6,090 ± 284		
		10/12/10	11,500 ± 536		
		12/16/10	18,400 ± 483		
		01/31/11	20,000 ± 482		
		02/18/11	19,800 ± 515		
		03/22/11	18,200 ± 920		
		05/05/11	18,100 ± 933		
		07/13/11	14,300 ± 783		
		09/10/11	22,500 ± 646		
		06/20/12	10,900 ± 714		
		11/29/12	14,000 ± 799		
		12/20/12	19,200 ± 928		
		01/18/13	22,100 ± 1,020		
		02/15/13	23,000 ± 549		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AL	25.3	02/25/04	301 ± 210	11/17/11	473 ± 163
		09/08/04	< 230	12/20/11	543 ± 183
		11/16/04	< 225	03/15/12	546 ± 176
		12/21/04	< 234	06/13/12	664 ± 224
		02/08/05	< 213	09/25/12	757 ± 260
		04/11/05	< 207	10/11/12	848 ± 177
		01/11/06	< 262	11/29/12	667 ± 212
		03/14/06	< 204	12/11/12	695 ± 189
		04/11/06	< 207	01/18/13	804 ± 208
		05/19/06	< 284	02/15/13	786 ± 212
		10/09/06	< 300	03/21/13	424 ± 206
		10/09/07	196 ± 150	04/08/13	629 ± 214
		04/22/08	< 240	05/15/13	647 ± 186
		10/20/08	196 ± 157	06/25/13	537 ± 158
		10/20/09	674 ± 172	07/15/13	315 ± 176
		01/13/10	1,040 ± 197	08/20/13	496 ± 172
		04/11/10	1,035 ± 181	09/23/13	435 ± 157
		04/14/10	984 ± 184		
		06/17/10	642 ± 282		
		06/28/10	643 ± 282		
		07/09/10	640 ± 292		
		08/09/10	586 ± 211		
		09/17/10	373 ± 176		
		10/18/10	477 ± 180		
		01/20/11	460 ± 172		
		03/04/11	361 ± 161		
		06/13/11	594 ± 204		
		08/05/11	1,630 ± 243		
		08/31/11	1,250 ± 238		
		09/10/11	639 ± 164		
		10/07/11	663 ± 172		

- Results in picoCuries per liter (pCi/L)
- Well AL is part of the Industry Groundwater Protection Initiative for the Salem nuclear plant
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AM	20.9	02/26/04	240,196 ± 1,799	10/20/09	30,570 ± 502
		06/20/06	520,112 ± 1,823	11/17/09	27,310 ± 477
		12/07/06	30,120 ± 467	12/16/09	33,977 ± 527
		12/15/06	32,414 ± 480	01/12/10	59,523 ± 696
		01/13/07	19,206 ± 366	03/17/10	29,250 ± 509
		04/20/07	17,952 ± 328	04/28/10	30,834 ± 498
		10/03/07	202,194 ± 1,000	05/25/10	22,510 ± 369
		10/17/07	110,292 ± 693	06/21/10	18,701 ± 699
		11/14/07	85,961 ± 667	07/16/10	13,025 ± 580
		11/28/07	118,332 ± 770	08/11/10	13,200 ± 390
		12/12/07	20,267 ± 337	09/13/10	13,200 ± 390
		12/27/07	17,242 ± 287	10/11/10	11,800 ± 547
		01/28/08	16,295 ± 314	11/10/10	11,700 ± 606
		02/06/08	17,091 ± 326	01/14/11	9,600 ± 347
		02/20/08	17,843 ± 331	02/07/11	8,030 ± 349
		03/13/08	15,442 ± 313	03/25/11	5,620 ± 528
		04/02/08	20,199 ± 343	04/27/11	6,010 ± 536
		06/24/08	19,567 ± 352	05/10/11	5,990 ± 546
		06/30/08	20,704 ± 358	06/10/11	7,000 ± 543
		07/24/08	18,189 ± 354	07/20/11	6,480 ± 532
		08/07/08	20,454 ± 395	08/17/11	6,830 ± 610
		09/22/08	30,551 ± 442	09/15/11	6,690 ± 379
		11/14/08	24,915 ± 398	12/08/11	7,460 ± 450
		12/08/08	25,093 ± 384	01/06/12	18,400 ± 511
		01/08/09	28,611 ± 410	02/08/12	13,600 ± 767
		02/25/09	32,257 ± 419	03/13/12	9,270 ± 640
		03/26/09	26,094 ± 399	04/17/12	9,280 ± 377
		04/16/09	19,373 ± 395	05/10/12	7,870 ± 349
		05/20/09	32,850 ± 563	06/13/12	4,320 ± 325
		06/10/09	23,769 ± 488	07/23/12	6,520 ± 555
		08/18/09	23,724 ± 447	08/22/12	5,990 ± 594
		09/23/09	28,347 ± 485	09/12/12	5,580 ± 392

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AM (continued)	20.9	10/11/12	5,710 ± 493		
		11/28/12	5,190 ± 498		
		12/19/12	5,880 ± 527		
		01/14/13	7,170 ± 580		
		02/14/13	7,070 ± 569		
		03/19/13	6,150 ± 554		
		04/08/13	6,100 ± 406		
		05/17/13	8,490 ± 490		
		06/26/13	7,430 ± 351		
		07/12/13	6,990 ± 581		
		08/16/13	5,570 ± 508		
		09/20/13	5,690 ± 521		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AN	25.0	08/10/04	20,060 ± 533	03/16/09	3,989 ± 202
		05/16/05	83,291 ± 718	05/11/09	21,370 ± 465
		07/19/05	3,995 ± 211	06/10/09	26,652 ± 513
		12/09/05	58,305 ± 872	04/13/10	2,234 ± 211
		01/24/06	67,066 ± 657	05/25/10	1,135 ± 290
		02/22/06	56,664 ± 618	06/09/10	5,294 ± 437
		03/21/06	76,367 ± 1,001	07/22/10	1,877 ± 326
		04/17/06	48,318 ± 572	08/09/10	2,130 ± 471
		05/15/06	85,327 ± 746	09/16/10	< 246
		06/20/06	45,995 ± 562	10/12/10	11,800 ± 544
		07/24/06	45,191 ± 559	11/15/10	9,460 ± 539
		08/22/06	81,383 ± 752	01/31/11	24,500 ± 529
		09/21/06	45,578 ± 564	03/22/11	17,100 ± 892
		10/06/06	3,606 ± 243	05/05/11	2,110 ± 334
		11/16/06	45,796 ± 548	09/10/11	12,100 ± 489
		12/15/06	7,184 ± 277	06/20/12	< 228
		01/23/07	4,158 ± 234	01/17/13	4,020 ± 441
		02/06/07	34,737 ± 349	02/15/13	15,800 ± 461
		08/23/07	24,922 ± 384	03/21/13	16,900 ± 893
		09/20/07	34,111 ± 434	04/11/13	18,300 ± 915
		10/17/07	27,066 ± 396	08/21/13	14,100 ± 444
		11/15/07	19,440 ± 343	09/23/13	14,100 ± 430
		12/13/07	61,569 ± 512		
		01/24/08	59,243 ± 556		
		02/25/08	60,625 ± 566		
		03/12/08	44,521 ± 490		
		04/23/08	52,911 ± 529		
		05/09/08	3,953 ± 218		
		06/12/08	35,272 ± 450		
		07/16/08	45,323 ± 532		
		08/21/08	46,054 ± 566		
		09/22/08	20,258 ± 368		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

² New Jersey Groundwater Quality Standards (NJGWQS) are the same as the New Jersey Surface Water Quality Standards and the US Environmental Protection Agency drinking water standards for radionuclides

State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AO	21.0	08/10/04	1,782 ± 200		
		10/06/06	3,629 ± 288		
		12/15/06	13,566 ± 299		
		12/04/12	3,290 ± 401		
		12/19/12	3,090 ± 392		
		01/17/13	2,690 ± 368		
		02/14/13	3,560 ± 405		
		03/19/13	3,000 ± 389		

- Results in picoCuries per liter (pCi/L)
- Well has been inaccessible due to site constraints. The well had been removed from service since 2006. Sampling was restarted in December 2012.
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AP	40.0	08/09/04	1,229 ± 180	12/12/07	3,377 ± 190
		12/14/04	1,116 ± 182	01/17/08	1,136 ± 160
		01/27/05	1,266 ± 182	02/21/08	1,153 ± 163
		02/01/05	2,255 ± 168	03/12/08	1,141 ± 161
		03/07/05	64,377 ± 922	04/01/08	1,089 ± 150
		04/05/05	86,727 ± 1,071	05/08/08	1,086 ± 177
		08/01/05	59,996 ± 612	06/19/08	797 ± 163
		09/06/05	1,097 ± 173	07/07/08	612 ± 163
		12/08/05	22,069 ± 564	08/07/08	988 ± 184
		01/10/06	12,894 ± 324	09/02/08	870 ± 168
		02/07/06	9,451 ± 286	10/17/08	584 ± 162
		03/06/06	9,498 ± 413	11/18/08	174 ± 156
		04/03/06	8,558 ± 256	12/15/08	984 ± 164
		05/01/06	7,746 ± 273	01/27/09	788 ± 161
		06/05/06	4,984 ± 239	02/25/09	979 ± 163
		07/10/06	601 ± 172	03/16/09	1,376 ± 163
		08/07/06	1,563 ± 191	04/08/09	1,208 ± 164
		09/06/06	2,600 ± 212	05/11/09	1,134 ± 195
		10/10/06	5,092 ± 255	06/03/09	1,065 ± 191
		11/01/06	610 ± 182	08/04/09	1,024 ± 182
		12/08/06	4,448 ± 221	09/23/09	< 267
		01/13/07	1,011 ± 168	10/08/09	1,215 ± 183
		02/05/07	4,274 ± 179	11/04/09	1,330 ± 188
		03/07/07	1,358 ± 161	12/16/09	1,301 ± 189
		04/19/07	930 ± 152	01/13/10	1,095 ± 196
		05/15/07	837 ± 161	03/10/10	1,436 ± 203
		06/18/07	1,417 ± 162	04/11/10	1,471 ± 192
		07/18/07	316 ± 145	05/14/10	1,298 ± 159
		08/15/07	2,071 ± 178	06/18/10	1,684 ± 330
		09/19/07	2,945 ± 186	07/09/10	3,015 ± 364
		10/03/07	3,153 ± 185	08/09/10	1,160 ± 300
		11/14/07	3,418 ± 189	09/09/10	2,400 ± 210

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is mnthly

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AP (continued)	40.0	10/13/10	894 ± 242	09/18/13	835 ± 160
		11/10/10	924 ± 243		
		12/08/10	1,000 ± 190		
		01/14/11	1,400 ± 179		
		02/08/11	952 ± 307		
		03/04/11	974 ± 192		
		04/07/11	1,130 ± 258		
		05/05/11	1,020 ± 249		
		06/16/11	1,070 ± 236		
		07/13/11	967 ± 202		
		08/31/11	2,260 ± 198		
		09/15/11	1,220 ± 214		
		10/20/11	1,100 ± 160		
		11/17/11	960 ± 245		
		01/19/12	782 ± 237		
		02/15/12	807 ± 181		
		03/15/12	931 ± 234		
		04/17/12	823 ± 163		
		05/10/12	817 ± 197		
		06/13/12	878 ± 230		
		08/30/12	972 ± 230		
		10/11/12	660 ± 162		
		11/30/12	707 ± 226		
		12/17/12	925 ± 234		
		01/16/13	747 ± 247		
		02/14/13	749 ± 212		
		03/18/13	745 ± 196		
		04/09/13	780 ± 237		
		05/17/13	954 ± 223		
		06/27/13	789 ± 221		
		07/09/13	853 ± 168		
		08/19/13	714 ± 178		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AR	43.0	08/09/04	431,806 ± 2,398	01/23/08	32,926 ± 424
		01/27/05	312,134 ± 1,576	02/21/08	28,743 ± 404
		02/22/05	275,252 ± 1,898	03/12/08	29,816 ± 413
		03/14/05	174,632 ± 1,513	04/01/08	22,819 ± 360
		04/12/05	203,500 ± 1,628	05/08/08	22,685 ± 395
		05/10/05	208,442 ± 1,660	06/19/08	14,026 ± 308
		06/21/05	207,436 ± 2,196	07/07/08	11,696 ± 282
		07/19/05	185,219 ± 1,055	08/18/08	22,550 ± 417
		08/16/05	193,551 ± 1,097	09/22/08	10,371 ± 287
		09/19/05	177,920 ± 1,042	10/13/08	9,722 ± 261
		12/08/05	150,684 ± 1,392	11/25/08	7,266 ± 247
		01/10/06	156,764 ± 1,000	12/23/08	7,508 ± 245
		02/06/06	94,420 ± 788	01/08/09	12,672 ± 291
		03/20/06	37,160 ± 715	02/24/09	24,302 ± 377
		04/10/06	15,331 ± 348	03/16/09	29,135 ± 426
		05/15/06	11,414 ± 311	04/08/09	37,805 ± 514
		06/06/06	11,612 ± 313	05/11/09	33,888 ± 571
		07/17/06	79,227 ± 692	06/03/09	32,968 ± 567
		08/08/06	63,391 ± 651	08/20/09	27,508 ± 477
		09/06/06	18,675 ± 380	09/02/09	27,560 ± 480
		10/10/06	10,997 ± 276	10/21/09	38,934 ± 560
		11/02/06	60,851 ± 636	11/06/09	31,150 ± 506
		12/18/06	47,426 ± 572	12/22/09	22,346 ± 437
		01/13/07	79,815 ± 691	01/13/10	23,623 ± 458
		02/05/07	65,592 ± 477	03/10/10	19,419 ± 429
		03/07/07	51,176 ± 554	04/12/10	17,225 ± 387
		04/19/07	61,858 ± 574	05/14/10	15,882 ± 320
		05/15/07	71,705 ± 659	06/18/10	15,790 ± 652
		06/18/07	75,361 ± 684	07/09/10	13,868 ± 587
		07/19/07	80,779 ± 668	08/09/10	16,600 ± 3,250
		08/15/07	65,221 ± 590	09/10/10	17,500 ± 442
		12/12/07	41,279 ± 464	10/13/10	19,100 ± 686

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

² New Jersey Groundwater Quality Standards (NJGWQS) are the same as the New Jersey Surface Water Quality Standards and the US Environmental Protection Agency drinking water standards for radionuclides

State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AR	43.0	11/10/10	15,100 ± 678		
<i>(continued)</i>		12/08/10	14,200 ± 446		
		01/14/11	13,300 ± 400		
		02/07/11	14,400 ± 448		
		03/04/11	14,000 ± 814		
		04/07/11	13,500 ± 803		
		05/05/11	12,700 ± 784		
		06/16/11	13,500 ± 748		
		07/13/11	12,300 ± 719		
		08/31/11	8,960 ± 339		
		09/15/11	7,910 ± 407		
		10/20/11	7,870 ± 413		
		11/17/11	11,800 ± 749		
		01/19/12	12,600 ± 753		
		02/15/12	12,100 ± 562		
		03/15/12	11,500 ± 715		
		04/17/12	11,400 ± 413		
		05/10/12	11,000 ± 401		
		06/13/12	9,960 ± 436		
		08/22/12	7,970 ± 685		
		10/11/12	8,480 ± 633		
		11/30/12	8,980 ± 646		
		12/18/12	8,060 ± 598		
		01/17/13	9,550 ± 662		
		02/14/13	11,900 ± 749		
		03/18/13	13,400 ± 797		
		04/09/13	11,500 ± 725		
		05/17/13	8,100 ± 473		
		06/27/13	7,640 ± 340		
		07/15/13	7,930 ± 352		
		08/20/13	6,620 ± 351		
		09/23/13	6,070 ± 300		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AS	41.5	08/09/04	11,095 ± 408	09/20/07	3,413 ± 192
		11/16/04	14,929 ± 476	10/17/07	8,750 ± 264
		01/27/05	12,546 ± 330	11/15/07	15,734 ± 312
		03/23/05	65,225 ± 929	12/13/07	24,737 ± 336
		04/18/05	67,318 ± 942	01/24/08	30,591 ± 410
		05/18/05	56,399 ± 872	02/25/08	23,835 ± 373
		06/22/05	54,980 ± 1,155	03/12/08	22,712 ± 365
		07/19/05	61,422 ± 615	04/23/08	11,615 ± 273
		08/15/05	43,439 ± 539	05/09/08	2,317 ± 194
		12/12/05	59,702 ± 914	07/16/08	42,333 ± 514
		01/24/06	62,576 ± 642	12/04/12	17,400 ± 904
		02/22/06	62,480 ± 638	12/19/12	28,000 ± 1,130
		03/21/06	43,938 ± 777	01/18/13	15,500 ± 853
		04/17/06	46,122 ± 566	02/15/13	23,900 ± 560
		05/15/06	45,282 ± 554	03/18/13	13,000 ± 786
		06/20/06	46,963 ± 562	04/09/13	18,100 ± 904
		07/24/06	41,987 ± 541	05/17/13	14,200 ± 627
		08/22/06	57,501 ± 623	06/27/13	8,800 ± 367
		09/21/06	70,088 ± 714	07/15/13	4,920 ± 295
		10/06/06	59,583 ± 523	08/16/13	9,280 ± 678
		11/16/06	70,985 ± 666	08/19/13	14,400 ± 454
		12/15/06	41,087 ± 535		
		01/23/07	44,164 ± 540		
		02/06/07	26,664 ± 311		
		03/14/07	36,409 ± 472		
		04/24/07	52,669 ± 531		
		05/22/07	39,797 ± 472		
		06/19/07	24,591 ± 395		
		07/19/07	7,514 ± 250		
		08/23/07	13,550 ± 301		

- Results in picoCuries per liter (pCi/L)
- Sampling compromised because of pump degradation. The well was removed from service after July 2008. Sampling was restarted in December 2012
- Current sampling frequency is monthly

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
AT	44.0	05/18/05	2,860 ± 237	04/23/08	36,188 ± 443
		06/22/05	1,514 ± 324	05/09/08	3,810 ± 218
		07/19/05	1,476 ± 181	12/18/08	2,771 ± 190
		08/15/05	1,100 ± 175	01/19/09	2,548 ± 186
		10/17/05	1,753 ± 188	03/16/09	2,841 ± 189
		12/12/05	602 ± 172	04/22/09	3,977 ± 231
		01/24/06	1,758 ± 195	05/11/09	2,866 ± 229
		02/23/06	2,395 ± 194	06/10/09	2,428 ± 219
		03/21/06	1,017 ± 257	05/25/10	5,062 ± 213
		04/17/06	1,213 ± 184	06/09/10	4,637 ± 423
		05/15/06	1,310 ± 174	07/22/10	3,487 ± 376
		06/20/06	1,672 ± 198	08/09/10	5,690 ± 309
		07/24/06	1,590 ± 219	09/16/10	4,100 ± 247
		08/22/06	3,102 ± 214	10/12/10	4,550 ± 348
		09/21/06	3,242 ± 235	11/15/10	3,630 ± 341
		10/06/06	4,444 ± 248	12/16/10	4,410 ± 280
		11/16/06	4,827 ± 230	01/31/11	4,080 ± 247
		12/15/06	1,888 ± 174	02/18/11	4,520 ± 280
		01/23/07	1,917 ± 190	03/22/11	4,200 ± 462
		02/06/07	1,306 ± 137	04/07/11	3,880 ± 444
		03/14/07	1,856 ± 178	06/20/12	< 224
		04/24/07	3,367 ± 186	11/29/12	3,930 ± 432
		05/22/07	2,902 ± 196	12/20/12	3,860 ± 432
		06/19/07	2,142 ± 174	01/18/13	3,830 ± 324
		07/19/07	1,264 ± 134	02/15/13	3,720 ± 258
		08/23/07	1,902 ± 175	03/13/13	2,840 ± 329
		09/20/07	1,726 ± 171	04/11/13	2,960 ± 370
		10/17/07	1,702 ± 164	05/20/13	3,270 ± 320
		11/15/07	2,349 ± 175	06/27/13	3,120 ± 253
		12/13/07	3,667 ± 175	07/16/13	2,600 ± 244
		02/25/08	54,351 ± 539	08/21/13	2,850 ± 238
		03/12/08	47,668 ± 508	09/23/13	2,290 ± 215

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
CA	38.0	02/21/07	616 ± 134	12/15/11	1,020 ± 187
		04/11/07	< 233	01/24/12	973 ± 253
		05/22/07	686 ± 183	02/10/12	937 ± 191
		07/12/07	156 ± 146	03/28/12	1,240 ± 268
		11/19/07	620 ± 147	04/24/12	1,290 ± 177
		01/16/08	760 ± 155	05/17/12	1,120 ± 250
		02/20/08	757 ± 154	06/19/12	1,440 ± 283
		07/08/08	789 ± 161	07/17/12	1,120 ± 227
		08/18/08	766 ± 175	08/29/12	881 ± 225
		01/19/09	702 ± 166	09/21/12	882 ± 268
		02/24/09	759 ± 155	10/24/12	841 ± 237
		04/22/09	987 ± 183	11/30/12	868 ± 232
		11/19/09	663 ± 174	12/19/12	1,040 ± 245
		01/25/10	608 ± 188	01/16/13	1,250 ± 202
		03/24/10	997 ± 197	02/13/13	1,040 ± 184
		04/07/10	1,009 ± 188	03/14/13	1,270 ± 265
		07/22/10	818 ± 304	04/10/13	1,100 ± 189
		08/26/10	1,040 ± 278	05/14/13	902 ± 222
		09/24/10	948 ± 267	06/26/13	1,070 ± 248
		10/28/10	979 ± 180	07/10/13	907 ± 178
		11/24/10	1,050 ± 264	08/14/13	731 ± 177
		12/09/10	917 ± 241	09/17/13	762 ± 164
		01/21/11	614 ± 187		
		02/04/11	876 ± 296		
		03/24/11	1,070 ± 196		
		04/25/11	1,110 ± 251		
		05/09/11	1,110 ± 160		
		07/28/11	1,050 ± 209		
		08/11/11	1,350 ± 233		
		09/12/11	1,320 ± 215		
		10/26/11	769 ± 147		
		11/25/11	926 ± 246		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
CB	80.0	02/21/07	412 ± 120	05/17/12	359 ± 172
		04/11/07	< 232	06/19/12	332 ± 180
		05/22/07	< 294	07/17/12	348 ± 159
		07/12/07	< 270	08/29/12	< 175
		11/19/07	< 232	09/21/12	359 ± 206
		01/16/08	< 249	10/24/12	415 ± 197
		02/20/08	191 ± 147	11/30/12	389 ± 179
		07/08/08	2,197 ± 184	12/19/12	461 ± 142
		08/18/08	1,757 ± 194	01/17/13	411 ± 181
		01/19/09	< 271	02/13/13	1,190 ± 270
		02/24/09	767 ± 156	03/15/13	4,550 ± 474
		04/22/09	199 ± 170	04/11/13	1,450 ± 222
		11/19/09	449 ± 169	05/14/13	773 ± 217
		01/25/10	165 ± 177		
		07/22/10	796 ± 296		
		08/26/10	1,370 ± 336		
		02/04/11	1,090 ± 321		
		03/24/11	505 ± 160		
		04/27/11	< 188		
		05/09/11	1,290 ± 276		
		07/28/11	876 ± 199		
		08/11/11	3,080 ± 312		
		09/12/11	1,160 ± 208		
		10/26/11	1,090 ± 159		
		11/25/11	762 ± 174		
		12/15/11	333 ± 182		
		01/24/12	358 ± 193		
		02/10/12	282 ± 174		
		03/28/12	468 ± 193		
		04/24/12	609 ± 150		

- Results in picoCuries per liter (pCi/L)
- The well casing for this monitoring well was found damaged beyond repair and was targeted for abandonment in May 2013

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Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
K	40.0	01/29/03	< 274	01/25/10	258 ± 180
	60.0	02/03/03	< 275	04/11/10	< 270
	80.0	02/05/03	1,288 ± 187	07/09/10	< 464
		02/27/03	1,115 ± 194	01/13/11	< 226
		03/14/03	941 ± 170	07/29/11	< 264
		03/18/03	708 ± 212	01/24/12	< 248
		03/26/03	742 ± 198	07/17/12	< 188
		03/31/03	943 ± 178	01/16/13	< 250
		04/09/03	1,010 ± 178	07/10/13	< 153
		04/17/03	1,045 ± 180		
		04/21/03	857 ± 182		
		04/29/03	890 ± 179		
		05/05/03	765 ± 192		
		05/20/03	749 ± 185		
		05/28/03	851 ± 186		
		06/04/03	758 ± 181		
		06/10/03	632 ± 180		
		06/17/03	1,663 ± 206		
		06/24/03	1,803 ± 203		
		06/30/03	1,565 ± 195		
		07/16/03	918 ± 188		
		11/09/03	732 ± 171		
		08/02/04	562 ± 153		
		05/09/05	595 ± 149		
		07/05/05	683 ± 299		
	01/09/06	586 ± 175			
07/10/06	401 ± 168				
01/23/07	618 ± 165				
07/12/07	< 272				
01/16/08	382 ± 150				
07/16/08	402 ± 157				
01/19/09	188 ± 168				

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is semi-annual

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

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Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹ NJGWQS ²			300		300
			20,000		20,000
L	20.0	01/22/03	< 240	07/24/12	< 224
	40.0	01/23/03	< 146	01/21/13	< 201
	60.0	01/24/03	< 241	07/11/13	< 147
	80.0	01/28/03	< 200		
		03/14/03	< 219		
		03/18/03	< 289		
		03/26/03	< 274		
		04/02/03	< 239		
		04/08/03	< 239		
		04/16/03	< 235		
		04/24/03	< 253		
		04/29/03	269 ± 154		
		05/05/03	< 277		
		05/15/03	< 265		
		05/20/03	< 263		
		05/28/03	213 ± 162		
		06/04/03	< 260		
		06/10/03	< 266		
		06/17/03	863 ± 178		
		06/24/03	1,435 ± 190		
		06/30/03	949 ± 174		
		12/16/03	< 207		
		08/02/04	< 221		
	01/22/07	205 ± 157			
	01/17/08	< 238			
	01/19/10	263 ± 180			
	04/07/10	< 284			
	06/28/10	355 ± 284			
	07/14/10	< 463			
	01/21/11	< 212			
	07/29/11	< 264			
	01/24/12	< 246			

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is semi-annual

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

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Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
M	20.0	02/13/03	12,638 ± 443	02/23/07	4,031 ± 169
		02/28/03	12,856 ± 440	03/08/07	4,644 ± 205
		03/03/03	13,380 ± 617	04/20/07	9,255 ± 253
		03/10/03	11,853 ± 498	05/15/07	8,127 ± 247
		03/17/03	7,896 ± 343	06/18/07	7,082 ± 254
		03/24/03	9,443 ± 444	07/18/07	6,893 ± 243
		03/31/03	8,911 ± 371	08/15/07	4,936 ± 215
		04/07/03	7,903 ± 352	09/20/07	4,188 ± 202
		04/14/03	8,381 ± 361	10/03/07	4,190 ± 202
		04/21/03	7,078 ± 338	11/14/07	3,774 ± 195
		04/30/03	7,487 ± 343	12/12/07	4,049 ± 195
		07/09/03	101,201 ± 1,156	02/06/08	4,255 ± 205
		07/23/03	98,090 ± 1,168	03/18/08	4,222 ± 208
		08/06/03	64,992 ± 976	06/19/08	4,181 ± 209
		09/04/03	36,039 ± 731	07/07/08	4,433 ± 214
		09/16/03	29,382 ± 648	08/06/08	4,942 ± 242
		07/12/05	73,456 ± 672	09/02/08	4,591 ± 223
		08/15/05	74,613 ± 683	11/19/08	3,477 ± 206
		09/06/05	63,521 ± 640	12/15/08	3,337 ± 196
		01/17/06	6,601 ± 225	01/08/09	31,279 ± 416
		02/21/06	6,727 ± 255	02/25/09	25,966 ± 384
		03/20/06	3,948 ± 316	03/05/09	25,249 ± 387
		04/11/06	3,726 ± 219	04/08/09	31,600 ± 472
		05/16/06	4,056 ± 214	05/26/09	38,553 ± 604
		06/19/06	4,307 ± 227	06/08/09	75,714 ± 838
		07/18/06	4,639 ± 235	09/02/09	59,649 ± 684
		08/08/06	4,336 ± 242	10/08/09	31,285 ± 508
		09/18/06	3,656 ± 230	11/17/09	35,450 ± 536
		10/10/06	3,554 ± 189	12/16/09	29,314 ± 493
		11/01/06	3,321 ± 218	01/12/10	21,218 ± 434
		12/18/06	2,968 ± 205	03/10/10	21,764 ± 447
		01/13/07	4,593 ± 222	04/12/10	18,472 ± 401

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

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Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
M	20.0	05/25/10	14,423 ± 308	02/12/13	8,240 ± 625
<i>(continued)</i>		06/21/10	11,295 ± 577	03/14/13	7,880 ± 610
		07/09/10	9,985 ± 523	04/09/13	6,030 ± 507
		08/25/10	10,200 ± 2,010	05/16/13	6,180 ± 423
		09/17/10	8,870 ± 328	06/26/13	7,100 ± 333
		10/11/10	10,100 ± 509	07/11/13	6,000 ± 545
		11/10/10	8,240 ± 510	08/19/13	6,130 ± 311
		12/02/10	8,540 ± 359	09/18/13	6,080 ± 309
		01/13/11	6,310 ± 451		
		02/08/11	9,540 ± 374		
		03/25/11	25,400 ± 640		
		04/19/11	41,200 ± 828		
		05/10/11	47,700 ± 882		
		06/10/11	35,000 ± 1,190		
		07/20/11	25,800 ± 1,050		
		09/01/11	22,900 ± 517		
		10/20/11	15,000 ± 543		
		11/17/11	12,400 ± 758		
		12/08/11	9,020 ± 486		
		01/06/12	9,450 ± 380		
		02/08/12	9,170 ± 634		
		03/13/12	13,900 ± 788		
		04/17/12	29,700 ± 651		
		05/10/12	22,900 ± 561		
		06/13/12	40,300 ± 827		
		07/23/12	27,800 ± 1,130		
		08/22/12	19,300 ± 1,040		
		09/12/12	16,900 ± 674		
		10/11/12	16,800 ± 864		
		11/30/12	12,400 ± 753		
		12/15/12	12,100 ± 750		
		01/15/13	9,630 ± 669		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

² New Jersey Groundwater Quality Standards (NJGWQS) are the same as the New Jersey Surface Water Quality Standards and the US Environmental Protection Agency drinking water standards for radionuclides

State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
N	20.0	01/30/03	51,435 ± 917	02/25/09	6,984 ± 232
		03/04/03	3,086 ± 336	03/26/09	7,782 ± 254
		03/14/03	3,003 ± 234	04/16/09	6,379 ± 262
		03/17/03	4,048 ± 262	01/12/10	11,359 ± 340
		03/25/03	4,047 ± 316	03/17/10	11,387 ± 346
		04/04/03	3,174 ± 248	04/28/10	11,601 ± 332
		04/11/03	3,350 ± 251	07/16/10	9,364 ± 506
		04/16/03	3,684 ± 260	08/11/10	9,740 ± 1,920
		04/25/03	5,612 ± 308	09/13/10	11,300 ± 367
		04/30/03	8,012 ± 354	10/11/10	9,710 ± 501
		05/06/03	8,140 ± 365	11/10/10	8,220 ± 501
		05/21/03	5,668 ± 314	01/14/11	7,950 ± 508
		05/27/03	5,737 ± 313	02/07/11	5,850 ± 309
		06/04/03	4,856 ± 293	03/25/11	7,370 ± 366
		06/11/03	4,224 ± 281	04/27/11	8,620 ± 371
		06/19/03	5,393 ± 302	05/10/11	9,300 ± 419
		06/25/03	4,734 ± 280	06/10/11	10,700 ± 664
		07/10/03	4,104 ± 288	07/20/11	13,300 ± 757
		07/25/03	4,579 ± 290	08/17/11	14,200 ± 836
		08/07/03	4,593 ± 290	09/15/11	21,600 ± 639
		08/20/03	5,288 ± 303	12/08/11	12,900 ± 579
		09/17/03	5,588 ± 308	01/06/12	15,300 ± 467
		12/12/03	4,964 ± 285	02/08/12	15,500 ± 817
		05/15/07	6,537 ± 242	03/13/12	14,200 ± 778
		10/03/07	21,674 ± 353	04/17/12	12,600 ± 435
		10/17/07	25,866 ± 364	05/10/12	14,300 ± 451
		11/14/07	14,937 ± 303	06/13/12	17,200 ± 548
		12/12/07	12,292 ± 280	07/23/12	18,800 ± 925
		01/17/08	6,525 ± 225	08/22/12	19,400 ± 1,050
		02/20/08	6,111 ± 225	09/12/12	20,000 ± 732
		03/13/08	5,574 ± 224	10/11/12	22,500 ± 1,010
		04/23/08	6,033 ± 216	11/28/12	18,700 ± 701

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
N	20.0	12/19/12	21,000 ± 980		
<i>(continued)</i>		01/14/13	20,000 ± 950		
		02/14/13	18,800 ± 935		
		03/11/13	17,200 ± 764		
		04/08/13	15,200 ± 641		
		05/17/13	16,300 ± 661		
		06/26/13	21,500 ± 544		
		07/12/13	19,300 ± 923		
		08/16/13	18,000 ± 898		
		09/20/13	18,900 ± 513		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
O	20.0	01/29/03	1,324 ± 217	10/04/05	3,719 ± 219
		02/21/03	6,453 ± 327	12/09/05	13,299 ± 464
		02/28/03	14,140 ± 455	01/16/06	23,462 ± 406
		03/04/03	7,715 ± 483	02/07/06	17,437 ± 365
		03/13/03	10,926 ± 497	03/07/06	11,210 ± 437
		03/17/03	8,072 ± 348	04/04/06	6,447 ± 254
		03/25/03	8,617 ± 445	05/02/06	8,751 ± 273
		03/31/03	6,718 ± 328	06/19/06	8,054 ± 275
		04/07/03	6,299 ± 319	07/17/06	9,178 ± 290
		04/15/03	10,012 ± 389	08/21/06	4,103 ± 238
		04/21/03	8,933 ± 372	09/18/06	3,635 ± 228
		04/29/03	8,908 ± 369	10/05/06	11,494 ± 264
		05/06/03	8,747 ± 375	11/02/06	16,826 ± 359
		05/21/03	9,059 ± 377	12/07/06	8,546 ± 253
		05/28/03	10,873 ± 406	01/13/07	27,740 ± 437
		06/03/03	10,061 ± 392	02/24/07	21,786 ± 280
		06/10/03	10,098 ± 393	03/07/07	41,342 ± 485
		06/17/03	9,440 ± 380	04/20/07	35,591 ± 441
		06/24/03	11,465 ± 407	05/05/07	12,376 ± 296
		07/09/03	7,249 ± 352	06/18/07	13,910 ± 303
		10/20/03	5,680 ± 308	07/19/07	7,352 ± 249
		01/14/04	3,325 ± 256	08/15/07	7,852 ± 245
		07/13/04	8,328 ± 363	09/19/07	1,235 ± 161
		12/13/04	13,633 ± 454	10/04/07	2,461 ± 179
		01/18/05	16,888 ± 496	11/19/07	5,285 ± 212
		02/08/05	23,395 ± 441	12/12/07	34,874 ± 430
		03/08/05	9,654 ± 375	01/16/08	22,652 ± 358
		04/11/05	6,101 ± 303	03/12/08	32,710 ± 424
		06/07/05	5,424 ± 447	04/01/08	20,988 ± 349
		07/19/05	4,198 ± 214	05/27/08	9,068 ± 264
		08/02/05	4,199 ± 214	06/23/08	7,910 ± 253
		09/07/05	4,472 ± 217	07/28/08	10,844 ± 293

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
O	20.0	09/02/08	9,153 ± 275	09/10/11	7,240 ± 394
<i>(continued)</i>		10/17/08	8,309 ± 246	10/20/11	2,740 ± 211
		11/18/08	23,843 ± 390	11/17/11	6,220 ± 543
		12/16/08	28,362 ± 408	01/24/12	6,910 ± 554
		01/09/09	55,353 ± 546	02/23/12	12,000 ± 565
		02/24/09	35,365 ± 443	03/13/12	14,700 ± 791
		04/01/09	86,051 ± 757	04/19/12	13,100 ± 448
		05/26/09	14,431 ± 395	05/30/12	13,300 ± 493
		06/03/09	14,036 ± 390	06/19/12	8,180 ± 622
		08/25/09	11,317 ± 329	07/23/12	4,360 ± 460
		09/23/09	13,994 ± 359	08/30/12	4,440 ± 348
		10/20/09	15,625 ± 376	09/12/12	5,190 ± 378
		11/04/09	15,850 ± 378	10/18/12	5,300 ± 429
		12/22/09	13,562 ± 355	11/30/12	22,700 ± 1,010
		01/13/10	30,676 ± 511	12/18/12	33,600 ± 1,240
		03/17/10	34,305 ± 544	01/21/13	31,100 ± 1,200
		04/22/10	20,607 ± 431	02/15/13	43,900 ± 1,410
		05/21/10	19,319 ± 345	03/15/13	33,300 ± 1,240
		06/17/10	10,066 ± 547	04/08/13	23,400 ± 785
		07/22/10	21,977 ± 718	05/17/13	17,600 ± 696
		08/25/10	8,720 ± 1,730	06/27/13	12,900 ± 431
		09/17/10	2,580 ± 215	07/10/13	9,030 ± 653
		10/18/10	8,320 ± 457	08/14/13	6,600 ± 562
		11/24/10	10,100 ± 561	09/17/13	5,740 ± 299
		12/09/10	7,000 ± 330		
		01/20/11	59,800 ± 964		
		02/04/11	46,300 ± 932		
		03/04/11	30,300 ± 695		
		04/19/11	15,100 ± 473		
		05/05/11	9,090 ± 413		
		06/16/11	3,590 ± 398		
		07/13/11	8,610 ± 612		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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² New Jersey Groundwater Quality Standards (NJGWQS) are the same as the New Jersey Surface Water Quality Standards and the US Environmental Protection Agency drinking water standards for radionuclides

State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
P	40.0	02/05/03	371 ± 151		
	60.0	02/06/03	< 145		
	80.0	02/06/03	411 ± 152		
		02/21/03	627 ± 174		
		03/13/03	416 ± 227		
		03/18/03	< 298		
		03/26/03	488 ± 210		
		04/03/03	< 242		
		04/24/03	< 253		
		04/29/03	< 241		
		05/05/03	< 279		
		05/20/03	< 266		
		05/30/03	< 262		
		06/04/03	< 260		
		06/10/03	< 270		
		06/17/03	801 ± 176		
		06/24/03	1,271 ± 184		
		08/03/04	< 220		
		05//10/05	< 210		
		01/14/07	< 264		
		01/24/08	< 229		
		01/27/09	< 250		
		01/19/10	126 ± 177		
		07/22/10	< 466		
		01/20/11	< 210		
		07/29/11	< 264		
		01/19/12	< 252		
		07/24/12	< 224		
		01/18/13	< 200		
		07/11/13	< 142		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is semi-annual

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
Q	20.0	02/06/03	385 ± 151		
	40.0	03/11/03	< 210		
	60.0	03/12/03	233 ± 216		
	80.0	03/14/03	< 219		
		03/19/03	< 292		
		03/24/03	< 274		
		04/23/03	< 253		
		04/30/03	< 251		
		05/06/03	< 278		
		05/12/03	< 267		
		05/19/03	< 265		
		05/30/03	< 259		
		06/05/03	< 259		
		06/11/03	< 267		
		06/16/03	1,360 ± 198		
		06/24/03	1,549 ± 194		
		07/17/03	< 262		
		11/09/03	< 237		
		01/08/04	< 232		
		08/02/04	< 218		
		01/08/07	< 258		
		01/28/08	< 229		
		01/27/09	< 251		
		01/26/10	194 ± 179		
		07/23/10	< 460		
		01/31/11	< 211		
		07/28/11	< 263		
		01/30/12	< 249		
		07/24/12	< 228		
		01/18/13	< 196		
		07/15/13	< 274		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is semi-annual

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State of New Jersey – Bureau of Nuclear Engineering
Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
R	19.0	02/26/03	8,645 ± 151	10/20/11	5,400 ± 357
		03/03/03	7,242 ± 468	11/17/11	5,790 ± 531
		03/10/03	6,297 ± 404	12/08/11	5,080 ± 368
		03/17/03	6,608 ± 320	01/06/12	5,470 ± 308
		03/25/03	6,477 ± 400	02/08/12	5,410 ± 493
		04/01/03	5,719 ± 309	03/13/12	5,260 ± 487
		04/08/03	5,507 ± 303	04/17/12	5,410 ± 304
		04/14/03	4,872 ± 290	05/10/12	5,640 ± 309
		04/22/03	4,919 ± 294	06/13/12	5,500 ± 349
		04/30/03	4,465 ± 283	07/23/12	4,450 ± 463
		07/09/03	2,709 ± 255	08/22/12	4,760 ± 539
		10/21/03	2,273 ± 223	09/12/12	4,470 ± 352
		03/05/04	2,045 ± 224	10/11/12	4,170 ± 451
		01/13/07	3,024 ± 196	12/04/12	4,340 ± 458
		01/17/08	2,636 ± 181	12/15/12	4,410 ± 461
		01/08/09	2,876 ± 214	01/15/13	4,090 ± 451
		01/12/10	4,066 ± 245	02/12/13	3,700 ± 424
		04/12/10	4,333 ± 237	03/14/13	3,740 ± 429
		07/09/10	3,971 ± 390	04/09/13	3,350 ± 399
		08/25/10	5,710 ± 308	05/16/13	2,810 ± 292
		09/13/10	5,700 ± 278	06/26/13	3,210 ± 255
		10/11/10	6,510 ± 405	07/16/13	3,200 ± 253
		11/10/10	6,130 ± 432	08/19/13	2,980 ± 246
		12/02/10	5,840 ± 310	09/18/13	3,230 ± 239
		01/20/11	5,980 ± 443		
		02/08/11	6,140 ± 313		
		03/25/11	6,190 ± 342		
		04/19/11	5,890 ± 315		
		05/10/11	6,030 ± 349		
		06/10/11	5,790 ± 499		
		07/20/11	5,490 ± 495		
		09/01/11	6,210 ± 290		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering
Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
S	34.7	07/09/03	2,993,972 ± 14,973		
		10/17/05	56,841 ± 621		
		11/15/05	51,045 ± 620		
		04/13/10	48,498 ± 607		
		05/25/10	51,832 ± 536		
		10/12/10	50,500 ± 1,110		
		11/15/10	18,900 ± 766		
		12/16/10	51,000 ± 809		
		02/18/11	40,000 ± 810		
		03/22/11	36,900 ± 763		
		05/05/11	28,800 ± 687		
		07/13/11	37,200 ± 1,250		
		09/10/11	38,700 ± 833		
		06/20/12	< 225		
		11/30/12	23,700 ± 1,050		
		12/20/12	16,500 ± 879		
		01/18/13	17,400 ± 680		
		02/15/13	17,600 ± 913		
		03/21/13	16,300 ± 864		
		06/27/13	14,600 ± 433		
		07/16/13	12,000 ± 418		
		08/21/13	13,800 ± 425		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
T	31.2	07/10/03	< 293	09/10/11	< 179
		07/15/03	< 259	10/11/11	< 210
		10/06/03	< 239	11/08/11	< 249
		12/12/03	< 210	03/23/12	< 193
		04/12/04	< 259	06/07/12	< 230
		05/09/05	< 211	07/17/12	< 191
		07/05/05	523 ± 299	10/18/12	< 236
		10/03/05	< 267	11/27/12	< 167
		01/09/06	< 297	12/13/12	< 187
		04/03/06	< 265	01/16/13	< 197
		05/19/06	< 281	02/12/13	< 198
		07/10/06	< 274	03/13/13	< 169
		10/05/06	< 287	04/11/13	< 211
		01/23/07	208 ± 160	05/14/13	< 211
		04/11/07	< 232	06/25/13	< 220
		07/12/07	< 271	07/09/13	< 145
		10/09/07	< 246	08/15/13	< 253
		01/16/08	< 239	09/18/13	< 205
		04/22/08	< 240		
		07/16/08	< 256		
		10/21/08	< 252		
		01/19/09	< 278		
		04/01/09	991 ± 184		
		10/20/09	< 263		
		01/25/10	< 293		
		04/11/10	< 274		
		07/09/10	< 474		
		10/20/10	< 221		
		01/13/11	< 213		
		06/07/11	< 264		

- Results in picoCuries per liter (pCi/L)
- Well T is part of the Industry Groundwater Protection Initiative for the Salem nuclear plant
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
U	32.2	07/10/03	374 ± 187	08/26/10	355 ± 184
		10/06/03	< 237	09/24/10	< 234
		04/12/04	< 257	10/20/10	< 217
		01/09/05	< 281	01/13/11	299 ± 149
		05/09/05	< 212	06/07/11	< 264
		07/05/05	< 487	09/10/11	291 ± 148
		10/03/05	< 265	10/11/11	331 ± 192
		01/09/06	< 281	11/08/11	< 246
		04/03/06	< 267	12/28/11	407 ± 169
		05/19/06	< 279	03/23/12	337 ± 136
		07/10/06	< 274	06/07/12	259 ± 145
		10/05/06	197 ± 169	07/17/12	294 ± 149
		01/23/07	208 ± 160	10/18/12	< 240
		04/11/07	< 232	11/27/12	438 ± 157
		07/12/07	< 270	12/13/12	397 ± 161
		10/09/07	< 244	01/15/13	330 ± 179
		01/16/08	190 ± 146	02/12/13	337 ± 168
		05/28/08	178 ± 159	03/13/13	284 ± 156
		07/16/08	202 ± 155	04/11/13	281 ± 129
		10/20/08	190 ± 146	05/14/13	348 ± 181
		01/19/09	183 ± 164	06/25/13	306 ± 148
		04/01/09	1,553 ± 190	07/08/13	227 ± 116
		10/20/09	412 ± 166	08/15/13	333 ± 162
		01/25/10	230 ± 180	09/19/13	252 ± 139
		04/07/10	366 ± 173		
		04/08/10	298 ± 168		
		04/09/10	242 ± 166		
		04/22/10	241 ± 170		
		04/28/10	339 ± 176		
		06/28/10	328 ± 275		

- Results in picoCuries per liter (pCi/L)
- Well U is part of the Industry Groundwater Protection Initiative for the Salem nuclear plant
- Current sampling frequency is monthly

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

² New Jersey Groundwater Quality Standards (NJGWQS) are the same as the New Jersey Surface Water Quality Standards and the US Environmental Protection Agency drinking water standards for radionuclides

State of New Jersey – Bureau of Nuclear Engineering
Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
V	79.5	07/16/03	< 261	10/18/12	< 240
		10/06/03	< 232	01/15/13	757 ± 228
		04/12/04	292 ± 165	02/13/13	457 ± 175
		05/09/05	375 ± 142	03/13/13	344 ± 177
		07/05/05	< 474	04/11/13	245 ± 147
		10/03/05	391 ± 164	05/14/13	333 ± 178
		01/09/06	< 281	07/08/13	168 ± 112
		04/03/06	< 286	08/15/13	365 ± 152
		07/10/06	604 ± 173	09/19/13	< 213
		10/05/06	404 ± 177		
		01/22/07	203 ± 156		
		04/11/07	< 233		
		07/12/07	< 269		
		10/09/07	190 ± 146		
		01/16/08	372 ± 146		
		05/28/08	184 ± 165		
		07/16/08	199 ± 153		
		10/20/08	191 ± 146		
		01/19/09	< 279		
		04/01/09	1,418 ± 168		
		10/20/09	457 ± 167		
		01/25/10	< 295		
		04/11/10	< 277		
		07/09/10	< 473		
		10/20/10	< 153		
		01/13/11	< 224		
		06/07/11	< 267		
		09/10/11	216 ± 133		
		12/28/11	< 255		
		03/23/12	< 207		
		06/07/12	377 ± 126		
		07/17/12	249 ± 144		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is quarter-annual

¹ The Minimum Detectable Activity (MDA) is the smallest amount of radioactivity in a sample that can be detected with a 5% probability of erroneously detecting radioactivity, when, in fact, none was present, also, a 5% probability of not detecting radioactivity, when in fact it is present.

² New Jersey Groundwater Quality Standards (NJGWQS) are the same as the New Jersey Surface Water Quality Standards and the US Environmental Protection Agency drinking water standards for radionuclides

State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
W	35.0	07/07/03	8,882 ± 381	11/29/12	1,400 ± 275
		11/17/03	10,013 ± 392	12/15/12	1,670 ± 232
		03/03/04	4,578 ± 291	01/15/13	1,270 ± 271
		01/13/07	17,342 ± 348	02/14/13	1,780 ± 310
		01/12/10	4,592 ± 244	03/13/13	3,610 ± 365
		04/08/10	5,097 ± 251	04/09/13	1,020 ± 206
		04/09/10	5,341 ± 255	05/17/13	1,550 ± 279
		07/09/10	4,905 ± 412	06/27/13	1,420 ± 269
		08/25/10	4,680 ± 950	07/09/13	1,420 ± 213
		09/13/10	5,000 ± 265	08/19/13	1,560 ± 205
		10/18/10	4,670 ± 354	09/17/13	1,550 ± 181
		11/10/10	3,320 ± 682		
		12/02/10	3,420 ± 257		
		01/14/11	4,000 ± 373		
		02/08/11	4,090 ± 272		
		03/25/11	3,970 ± 288		
		04/19/11	3,740 ± 269		
		05/10/11	3,670 ± 290		
		06/10/11	4,070 ± 424		
		07/20/11	4,320 ± 322		
		09/01/11	5,230 ± 269		
		10/20/11	2,370 ± 268		
		11/17/11	3,050 ± 402		
		12/08/11	2,950 ± 289		
		01/06/12	3,040 ± 254		
		02/08/12	2,620 ± 360		
		03/13/12	2,820 ± 366		
		04/17/12	1,420 ± 189		
		05/10/12	1,070 ± 212		
		06/13/12	1,080 ± 236		
		08/22/12	1,380 ± 279		
		10/11/12	1,350 ± 212		

- Results in picoCuries per liter (pCi/L)
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
Y	37.0	11/24/03	< 229	05/16/07	227 ± 174
		01/06/04	< 232	06/19/07	< 285
		09/08/04	< 225	07/12/07	< 269
		12/13/04	< 233	08/16/07	< 248
		01/10/05	< 264	09/20/07	< 240
		02/01/05	< 213	10/04/07	< 240
		03/07/05	< 205	11/20/07	< 229
		04/06/05	< 206	12/20/07	< 209
		05/25/05	< 229	03/13/08	193 ± 148
		06/07/05	< 480	04/22/08	< 240
		07/20/05	< 265	05/15/08	< 272
		08/01/05	< 266	06/24/08	< 257
		09/07/05	< 251	07/17/08	180 ± 161
		10/04/05	< 286	08/19/08	198 ± 170
		01/17/06	< 279	09/03/08	< 264
		02/07/06	< 259	10/18/08	191 ± 147
		03/07/06	< 373	11/21/08	< 267
		04/04/06	< 269	12/23/08	< 247
		05/02/06	< 257	01/20/09	< 247
		05/16/06	< 280	02/25/09	< 242
		06/06/06	< 265	03/30/09	1,414 ± 168
		07/11/06	< 284	04/27/09	< 242
		08/07/06	< 312	05/20/09	< 281
		09/07/06	< 289	06/10/09	< 275
		10/09/06	< 297	08/18/09	< 269
		11/01/06	< 277	09/24/09	1,273 ± 186
		12/07/06	< 295	10/27/09	217 ± 162
		01/14/07	< 262	11/19/09	< 266
		02/20/07	< 222	12/30/09	< 270
		03/14/07	196 ± 144	01/19/10	< 294
		04/19/07	< 232	03/18/10	< 294

- Results in picoCuries per liter (pCi/L)
- Well Y is part of the Industry Groundwater Protection Initiative for the Salem nuclear plant
- Current sampling frequency is monthly

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² New Jersey Groundwater Quality Standards (NJGWQS) are the same as the New Jersey Surface Water Quality Standards and the US Environmental Protection Agency drinking water standards for radionuclides

State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
Y	37.0	04/09/10	< 274	02/12/13	< 197
<i>(continued)</i>		05/21/10	330 ± 264	03/15/13	< 197
		06/17/10	< 448	04/09/13	< 196
		07/22/10	< 462	05/16/13	< 140
		08/26/10	< 259	06/21/13	< 222
		09/09/10	< 255	07/10/13	< 272
		10/26/10	< 228	08/14/13	< 244
		11/29/10	< 131	09/17/13	< 220
		12/21/10	< 254		
		01/20/11	< 226		
		02/18/11	< 152		
		03/29/11	< 224		
		04/27/11	< 179		
		05/26/11	< 197		
		06/13/11	< 216		
		07/29/11	< 261		
		08/31/11	2,430 ± 325		
		09/27/11	< 175		
		10/07/11	< 241		
		11/03/11	< 238		
		12/13/11	< 283		
		02/23/12	< 268		
		03/23/12	< 195		
		04/19/12	< 189		
		05/30/12	< 177		
		06/19/12	< 210		
		08/30/12	< 181		
		11/30/12	< 199		
		12/14/12	< 248		
		01/21/13	< 200		

- Results in picoCuries per liter (pCi/L)
- Well Y is part of the Industry Groundwater Protection Initiative for the Salem nuclear plant
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
Z	37.5	11/24/03	497 ± 156	05/16/07	214 ± 165
		12/12/03	428 ± 143	06/19/07	467 ± 162
		03/23/04	483 ± 142	07/12/07	< 272
		09/08/04	483 ± 155	08/16/07	159 ± 148
		12/13/04	248 ± 147	09/20/07	< 239
		01/10/05	212 ± 162	10/04/07	192 ± 147
		02/01/05	197 ± 135	11/20/07	< 230
		03/07/05	445 ± 142	12/20/07	< 208
		04/06/05	343 ± 136	03/13/08	191 ± 147
		05/25/05	< 231	04/22/08	< 238
		06/07/05	< 480	05/15/08	< 269
		07/20/05	< 265	06/24/08	199 ± 153
		08/01/05	187 ± 160	07/17/08	174 ± 156
		09/07/05	< 260	08/19/08	407 ± 178
		10/04/05	197 ± 162	09/03/08	181 ± 162
		01/17/06	194 ± 167	10/18/08	< 267
		03/07/06	< 369	11/21/08	< 267
		04/04/06	389 ± 163	12/23/08	197 ± 151
		05/02/06	< 251	01/20/09	195 ± 150
		05/16/06	< 279	02/25/09	379 ± 149
		06/06/06	384 ± 161	03/30/09	408 ± 153
		07/11/06	201 ± 165	04/27/09	201 ± 147
		08/07/06	< 299	05/20/09	243 ± 174
		09/07/06	198 ± 170	06/10/09	304 ± 173
		10/09/06	< 310	08/18/09	339 ± 168
		11/01/06	< 275	09/24/09	< 267
		12/07/06	156 ± 145	10/27/09	506 ± 168
		01/14/07	< 270	11/09/09	332 ± 167
		02/20/07	< 207	12/30/09	284 ± 168
		03/14/07	441 ± 165	01/19/10	< 288
		04/19/07	< 232	03/18/10	367 ± 184

- Results in picoCuries per liter (pCi/L)
- Well Z is part of the Industry Groundwater Protection Initiative for the Salem nuclear plant
- Current sampling frequency is monthly

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State of New Jersey – Bureau of Nuclear Engineering

Groundwater Monitoring of Tritium (H-3) - Salem Unit 1 Nuclear Plant

Split Sample Analytical Results

Well ID	Total Well Depth (ft)	Sample Date	Tritium (H-3) (pCi/L)	Sample Date	Tritium (H-3) (pCi/L)
MDA ¹			300		300
NJGWQS ²			20,000		20,000
Z	37.5	04/08/10	472 ± 172	02/12/13	674 ± 207
<i>(continued)</i>		04/09/10	541 ± 174	03/15/13	796 ± 220
		05/21/10	814 ± 279	04/09/13	443 ± 166
		06/17/10	321 ± 269	05/16/13	516 ± 172
		07/22/10	316 ± 277	06/21/13	627 ± 165
		08/26/10	503 ± 199	07/10/13	901 ± 181
		09/09/10	184 ± 163	08/14/13	849 ± 177
		10/26/10	269 ± 155		
		11/29/10	363 ± 130		
		12/21/10	507 ± 173		
		01/20/11	458 ± 155		
		02/18/11	361 ± 148		
		03/29/11	515 ± 160		
		04/27/11	332 ± 160		
		05/26/11	462 ± 136		
		06/13/11	285 ± 170		
		07/29/11	326 ± 182		
		08/31/11	2,450 ± 344		
		09/27/11	581 ± 172		
		10/07/11	630 ± 175		
		11/03/11	546 ± 138		
		12/13/11	441 ± 186		
		02/23/12	472 ± 180		
		03/23/12	586 ± 148		
		04/19/12	565 ± 144		
		05/30/12	494 ± 131		
		06/19/12	476 ± 143		
		08/30/12	601 ± 191		
		11/29/12	702 ± 213		
		12/14/12	553 ± 212		
		01/21/13	590 ± 209		

- Results in picoCuries per liter (pCi/L)
- Well Z is part of the Industry Groundwater Protection Initiative for the Salem nuclear plant
- Current sampling frequency is monthly

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