New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

BNE Background Locations
Results of Analyses for Iodine-131 in Bi-Weekly Air Samples

BNE Office (COAI01)

Collection Period			I-131 (pCi/m^3)
01/05/16	-	01/19/16	< 0.010
01/19/16	-	02/02/16	< 0.007
02/02/16	-	02/16/16	< 0.009
02/16/16	-	03/01/16	No Data[1]
03/01/16	-	03/15/16	< 0.011
03/15/16	-	03/29/16	< 0.007
03/29/16	-	04/12/16	< 0.008
04/12/16	-	04/26/16	< 0.005
04/26/16	-	05/10/16	< 0.016
05/10/16	-	05/24/16	< 0.005
05/24/16	-	06/07/16	< 0.005
06/07/16	-	06/21/16	< 0.008
06/21/16	-	07/06/16	< 0.012
07/06/16	-	07/19/16	< 0.014
07/19/16	-	08/02/16	< 0.018
08/02/16	-	08/16/16	< 0.011
08/16/16	-	08/30/16	< 0.011
08/30/16	-	09/13/16	< 0.010
09/13/16	-	09/28/16	< 0.004
09/28/16	-	10/11/16	< 0.007
10/11/16	-	10/25/16	< 0.008
10/25/16	-	11/07/16	< 0.007
11/07/16	-	11/22/16	< 0.009
11/22/16	-	12/06/16	< 0.001
12/06/16	-	12/20/16	< 0.007
12/20/16	-	01/04/17	< 0.015

Results in picoCuries per cubic meter (pCi/m^3)

[1] Air sampler pump found not running due to a loss of electrical power

New Jersey Department of Environmental Protection
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2016 Radiological Environmental Monitoring Program

BNE Background Locations
Results of Analyses for Iodine-131 in Bi-Weekly Air Samples

Brendan T. Byrne State Forest (COAI02)

Collection Period			I-131 (pCi/m^3)
01/05/16	-	01/19/16	< 0.008
01/19/16	-	02/02/16	< 0.010
02/02/16	-	02/16/16	< 0.011
02/16/16	-	03/01/16	< 0.008
03/01/16	-	03/15/16	< 0.007
03/15/16	-	03/29/16	< 0.012
03/29/16	-	04/12/16	< 0.009
04/12/16	-	04/26/16	< 0.012
04/26/16	-	05/10/16	< 0.014
05/10/16	-	05/23/16	< 0.008
05/23/16	-	06/07/16	< 0.006
06/07/16	-	06/21/16	< 0.013
06/21/16	-	07/06/16	< 0.012
07/06/16	-	07/19/16	< 0.017
07/19/16	-	08/02/16	< 0.012
08/02/16	-	08/16/16	< 0.008
08/16/16	-	08/30/16	< 0.007
08/30/16	-	09/13/16	< 0.018
09/13/16	-	09/27/16	< 0.010
09/27/16	-	10/10/16	< 0.009
10/10/16	-	10/25/16	< 0.006
10/25/16	-	11/08/16	< 0.009
11/08/16	-	11/22/16	< 0.007
11/22/16	-	12/06/16	< 0.011
12/06/16	-	12/20/16	< 0.006
12/20/16	-	01/04/17	< 0.012

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
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Oyster Creek
Results of Analyses for Iodine-131 in Bi-Weekly Air Samples

Waretown Municipal Building (OCAI01)

Collection Period			I-131 (pCi/m^3)
01/05/16	-	01/19/16	< 0.013
01/19/16	-	02/02/16	< 0.008
02/02/16	-	02/16/16	< 0.008
02/16/16	-	03/01/16	< 0.007
03/01/16	-	03/15/16	< 0.009
03/15/16	-	03/29/16	< 0.007
03/29/16	-	04/12/16	< 0.009
04/12/16	-	04/26/16	< 0.010
04/26/16	-	05/10/16	< 0.009
05/10/16	-	05/23/16	< 0.012
05/23/16	-	06/07/16	< 0.010
06/07/16	-	06/21/16	< 0.008
06/21/16	-	07/06/16	< 0.012
07/06/16	-	07/19/16	< 0.009
07/19/16	-	08/02/16	< 0.014
08/02/16	-	08/16/16	< 0.011
08/16/16	-	08/30/16	< 0.007
08/30/16	-	09/13/16	< 0.008
09/13/16	-	09/27/16	< 0.012
09/27/16	-	10/10/16	< 0.011
10/10/16	-	10/25/16	< 0.007
10/25/16	-	11/08/16	< 0.011
11/08/16	-	11/22/16	< 0.009
11/22/16	-	12/06/16	< 0.007
12/06/16	-	12/20/16	< 0.007
12/20/16	-	01/04/17	< 0.008

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Results of Analyses for Iodine-131 in Bi-Weekly Air Samples

Sands Point Harbor (OCAI02)

Collection Period			I-131 (pCi/m^3)
01/05/16	-	01/19/16	< 0.013
01/19/16	-	02/02/16	< 0.009
02/02/16	-	02/16/16	< 0.013
02/16/16	-	03/01/16	< 0.011
03/01/16	-	03/15/16	< 0.011
03/15/16	-	03/29/16	< 0.009
03/29/16	-	04/12/16	< 0.008
04/12/16	-	04/26/16	< 0.013
04/26/16	-	05/10/16	< 0.015
05/10/16	-	05/23/16	< 0.006
05/23/16	-	06/07/16	< 0.011
06/07/16	-	06/21/16	< 0.009
06/21/16	-	07/06/16	< 0.010
07/06/16	-	07/19/16	< 0.013
07/19/16	-	08/02/16	< 0.018
08/02/16	-	08/16/16	< 0.008
08/16/16	-	08/30/16	< 0.004
08/30/16	-	09/13/16	< 0.008
09/13/16	-	09/27/16	< 0.015
09/27/16	-	10/10/16	< 0.022
10/10/16	-	10/25/16	< 0.013
10/25/16	-	11/08/16	< 0.007
11/08/16	-	11/22/16	< 0.009
11/22/16	-	12/06/16	< 0.010
12/06/16	-	12/20/16	< 0.005
12/20/16	-	01/04/17	< 0.014

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
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2016 Radiological Environmental Monitoring Program

Oyster Creek
Results of Analyses for Iodine-131 in Bi-Weekly Air Samples

Forked River Marina (OCAI03)

Collection Period			I-131 (pCi/m^3)
01/05/16	-	01/19/16	< 0.006
01/19/16	-	02/02/16	< 0.009
02/02/16	-	02/16/16	< 0.009
02/16/16	-	03/01/16	< 0.008
03/01/16	-	03/15/16	< 0.012
03/15/16	-	03/29/16	< 0.011
03/29/16	-	04/12/16	< 0.013
04/12/16	-	04/26/16	< 0.010
04/26/16	-	05/10/16	< 0.013
05/10/16	-	05/23/16	< 0.008
05/23/16	-	06/07/16	< 0.005
06/07/16	-	06/21/16	< 0.008
06/21/16	-	07/06/16	< 0.010
07/06/16	-	07/19/16	< 0.011
07/19/16	-	08/02/16	< 0.019
08/02/16	-	08/16/16	< 0.006
08/16/16	-	08/30/16	< 0.003
08/30/16	-	09/13/16	< 0.015
09/13/16	-	09/27/16	< 0.004
09/27/16	-	10/10/16	< 0.008
10/10/16	-	10/25/16	< 0.006
10/25/16	-	11/08/16	< 0.008
11/08/16	-	11/22/16	< 0.010
11/22/16	-	12/06/16	< 0.007
12/06/16	-	12/20/16	< 0.007
12/20/16	-	01/04/17	< 0.010

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
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Oyster Creek
Results of Analyses for Iodine-131 in Bi-Weekly Air Samples

Lacey Township Recreation Building (OCAI04)

Collection Period			I-131 (pCi/m^3)
01/05/16	-	01/19/16	< 0.010
01/19/16	-	02/02/16	< 0.008
02/02/16	-	02/16/16	< 0.017
02/16/16	-	03/01/16	< 0.010
03/01/16	-	03/15/16	< 0.017
03/15/16	-	03/29/16	< 0.016
03/29/16	-	04/12/16	< 0.005
04/12/16	-	04/26/16	< 0.009
04/26/16	-	05/10/16	< 0.012
05/10/16	-	05/23/16	< 0.011
05/23/16	-	06/07/16	< 0.013
06/07/16	-	06/21/16	< 0.012
06/21/16	-	07/06/16	< 0.018
07/06/16	-	07/19/16	< 0.009
07/19/16	-	08/02/16	< 0.013
08/02/16	-	08/16/16	< 0.013
08/16/16	-	08/30/16	< 0.009
08/30/16	-	09/13/16	< 0.010
09/13/16	-	09/27/16	< 0.009
09/27/16	-	10/10/16	< 0.013
10/10/16	-	10/25/16	< 0.011
10/25/16	-	11/08/16	< 0.013
11/08/16	-	11/22/16	< 0.004
11/22/16	-	12/06/16	< 0.008
12/06/16	-	12/20/16	< 0.011
12/20/16	-	01/04/17	< 0.006

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Results of Analyses for Iodine-131 in Bi-Weekly Air Samples

JCP&L Substation (OCAI05)

Collection Period			I-131 (pCi/m^3)
01/05/16	-	01/19/16	< 0.008
01/19/16	-	02/02/16	< 0.014
02/02/16	-	02/16/16	< 0.010
02/16/16	-	03/01/16	< 0.014
03/01/16	-	03/15/16	< 0.009
03/15/16	-	03/29/16	< 0.012
03/29/16	-	04/12/16	< 0.010
04/12/16	-	04/26/16	< 0.013
04/26/16	-	05/10/16	< 0.010
05/10/16	-	05/23/16	< 0.016
05/23/16	-	06/07/16	< 0.009
06/07/16	-	06/21/16	< 0.005
06/21/16	-	07/06/16	< 0.004
07/06/16	-	07/19/16	< 0.010
07/19/16	-	08/02/16	< 0.015
08/02/16	-	08/16/16	< 0.009
08/16/16	-	08/30/16	< 0.006
08/30/16	-	09/13/16	< 0.009
09/13/16	-	09/27/16	< 0.007
09/27/16	-	10/10/16	< 0.008
10/10/16	-	10/25/16	< 0.006
10/25/16	-	11/08/16	< 0.008
11/08/16	-	11/22/16	< 0.011
11/22/16	-	12/06/16	< 0.006
12/06/16	-	12/20/16	< 0.012
12/20/16	-	01/04/17	< 0.008

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
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Oyster Creek
Results of Analyses for Iodine-131 in Weekly* Samples

Finninger Farm, OC Dredge Site (OCAI06)

Collection Period			I-131 (pCi/m^3)
01/06/16	-	01/13/16	< 0.020
01/13/16	-	01/21/16	< 0.018
01/21/16	-	01/28/16	< 0.043
01/28/16	-	02/03/16	< 0.044
02/03/16	-	02/10/16	< 0.042
02/10/16	-	02/17/16	< 0.034
02/17/16	-	02/23/16	< 0.039
02/23/16	-	03/02/16	< 0.042
03/02/16	-	03/11/16	No Data[2]
03/11/16	-	03/16/16	< 0.058
03/16/16	-	03/24/16	< 0.043
03/24/16	-	03/30/16	< 0.046
03/30/16	-	04/07/16	< 0.036
04/07/15	-	04/13/16	< 0.037
04/13/16	-	04/21/16	< 0.029
04/21/16	-	04/27/16	< 0.038
04/27/16	-	05/04/16	< 0.047
05/04/16	-	05/11/16	< 0.041
05/11/16	-	05/18/16	< 0.046
05/18/16	-	05/24/16	< 0.049
05/24/16	-	06/01/16	< 0.046
06/01/16	-	06/08/16	< 0.032
06/08/16	-	06/15/16	< 0.032
06/15/16	-	06/22/16	< 0.045
06/22/16	-	06/29/16	< 0.034
06/29/16	-	07/06/16	< 0.028

Results in picoCuries per cubic meter (pCi/m^3)

* Air Iodine samples are collected by the licensee on a weekly basis

[2] No sample result due to maintenance issues with equipment

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Results of Analyses for Iodine-131 in Weekly* Samples

Finninger Farm, OC Dredge Site (OCAI06) - *continued*

Collection Period			I-131 (pCi/m^3)
07/06/16	-	07/13/16	< 0.043
07/13/16	-	07/20/16	< 0.037
07/20/16	-	07/27/16	< 0.035
07/27/16	-	08/03/16	< 0.031
08/03/16	-	08/10/16	< 0.045
08/10/16	-	08/17/16	< 0.064
08/17/16	-	08/24/16	< 0.021
08/24/16	-	08/31/16	< 0.029
08/31/16	-	09/07/16	< 0.032
09/07/16	-	09/14/16	< 0.034
09/14/16	-	09/21/16	< 0.030
09/21/16	-	09/27/16	< 0.024
09/27/16	-	10/04/16	< 0.028
10/04/16	-	10/12/16	< 0.044
10/12/16	-	10/20/16	< 0.037
10/20/16	-	10/26/16	< 0.041
10/26/16	-	11/02/16	< 0.038
11/02/16	-	11/09/16	< 0.013
11/09/16	-	11/16/16	< 0.050
11/16/16	-	11/22/16	< 0.021
11/22/16	-	11/30/16	< 0.026
11/30/16	-	12/07/16	< 0.038
12/07/16	-	12/14/16	< 0.039
12/14/16	-	12/20/16	< 0.011
12/20/16	-	12/28/16	< 0.028
12/28/16	-	01/04/17	< 0.046

Results in picoCuries per cubic meter (pCi/m^3)

* Air Iodine samples are collected by the licensee on a weekly basis

New Jersey Department of Environmental Protection
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Oyster Creek
Results of Analyses for Iodine-131 in Bi-Weekly Air Samples

Access Road to Finninger Farm Property (ENE Sector) (OCAI07)

Collection Period			I-131 (pCi/m^3)
01/05/16	-	01/19/16	< 0.008
01/19/16	-	02/02/16	< 0.010
02/02/16	-	02/16/16	< 0.008
02/16/16	-	03/01/16	< 0.003
03/01/16	-	03/15/16	< 0.010
03/15/16	-	03/29/16	< 0.009
03/29/16	-	04/12/16	< 0.007
04/12/16	-	04/26/16	< 0.014
04/26/16	-	05/10/16	< 0.006
05/10/16	-	05/23/16	< 0.012
05/23/16	-	06/07/16	< 0.007
06/07/16	-	06/21/16	< 0.012
06/21/16	-	07/06/16	< 0.009
07/06/16	-	07/19/16	< 0.012
07/19/16	-	08/02/16	< 0.013
08/02/16	-	08/16/16	< 0.011
08/16/16	-	08/30/16	< 0.010
08/30/16	-	09/13/16	< 0.015
09/13/16	-	09/27/16	< 0.005
09/27/16	-	10/10/16	< 0.008
10/10/16	-	10/25/16	< 0.007
10/25/16	-	11/08/16	< 0.011
11/08/16	-	11/22/16	< 0.008
11/22/16	-	12/06/16	< 0.005
12/06/16	-	12/20/16	< 0.005
12/20/16	-	01/04/17	< 0.008

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
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Oyster Creek
Results of Analyses for Iodine-131 in Bi-Weekly Air Samples

East of US Route 9 and South of Discharge Canal Inside Fence (SE Sector) (OCAI08)*

Collection Period			I-131 (pCi/m^3)
01/22/16	-	02/02/16	< 0.019
02/02/16	-	02/16/16	< 0.008
02/16/16	-	03/01/16	< 0.010
03/01/16	-	03/15/16	< 0.012
03/15/16	-	03/29/16	< 0.008
03/29/16	-	04/12/16	< 0.009
04/12/16	-	04/26/16	< 0.012
04/26/16	-	05/10/16	< 0.011
05/10/16	-	05/23/16	< 0.012
05/23/16	-	06/07/16	< 0.011
06/07/16	-	06/21/16	< 0.009
06/21/16	-	07/06/16	< 0.007
07/06/16	-	07/19/16	< 0.006
07/19/16	-	08/02/16	< 0.015
08/02/16	-	08/16/16	< 0.013
08/16/16	-	08/30/16	< 0.009
08/30/16	-	09/13/16	< 0.012
09/13/16	-	09/27/16	< 0.002
09/27/16	-	10/10/16	< 0.013
10/10/16	-	10/25/16	< 0.005
10/25/16	-	11/08/16	< 0.006
11/08/16	-	11/22/16	< 0.011
11/22/16	-	12/06/16	< 0.005
12/06/16	-	12/20/16	< 0.006
12/20/16	-	01/04/17	< 0.007

Results in picoCuries per cubic meter (pCi/m^3)

* The air sampler was added to the ESMP in 2016 and declared operational on January 22, 2016

New Jersey Department of Environmental Protection
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2016 Radiological Environmental Monitoring Program

Salem/Hope Creek
Results of Analyses for Iodine-131 in Bi-Weekly Air Samples

Fort Elfsborg Road (AIAI01)

Collection Period			I-131 (pCi/m^3)
01/05/16	-	01/19/16	< 0.010
01/19/16	-	02/02/16	< 0.014
02/02/16	-	02/16/16	< 0.014
02/16/16	-	03/01/16	< 0.011
03/01/16	-	03/15/16	< 0.006
03/15/16	-	03/29/16	< 0.013
03/29/16	-	04/12/16	< 0.008
04/12/16	-	04/26/16	< 0.019
04/26/16	-	05/10/16	< 0.010
05/10/16	-	05/24/16	< 0.006
05/24/16	-	06/07/16	< 0.012
06/07/16	-	06/21/16	< 0.008
06/21/16	-	07/06/16	< 0.009
07/06/16	-	07/19/16	< 0.007
07/19/16	-	08/02/16	< 0.018
08/02/16	-	08/16/16	< 0.008
08/16/16	-	08/30/16	< 0.006
08/30/16	-	09/13/16	< 0.022
09/13/16	-	09/27/16	< 0.010
09/27/16	-	10/10/16	< 0.012
10/10/16	-	10/25/16	< 0.009
10/25/16	-	11/08/16	< 0.009
11/08/16	-	11/22/16	< 0.006
11/22/16	-	12/06/16	< 0.010
12/06/16	-	12/20/16	< 0.007
12/21/16[3]	-	01/04/16	< 0.012

Results in picoCuries per cubic meter (pCi/m^3)

[3] Unit found out of service on 12/20/16 and restarted on 12/21/16

New Jersey Department of Environmental Protection
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Salem/Hope Creek
Results of Analyses for Iodine-131 in Bi-Weekly Air Samples

Plant Access Road (AIAI02)

Collection Period			I-131 (pCi/m^3)
01/05/16	-	01/19/16	< 0.011
01/19/16	-	02/02/16	< 0.013
02/02/16	-	02/16/16	< 0.008
02/16/16	-	03/01/16	< 0.004
03/01/16	-	03/15/16	< 0.009
03/15/16	-	03/29/16	< 0.009
03/29/16	-	04/12/16	< 0.011
04/12/16	-	04/26/16	< 0.016
04/26/16	-	05/10/16	< 0.010
05/10/16	-	05/24/16	< 0.006
05/24/16	-	06/07/16	< 0.009
06/07/16	-	06/21/16	< 0.012
06/21/16	-	07/06/16	< 0.017
07/06/16	-	07/19/16	< 0.010
07/19/16	-	08/02/16	< 0.017
08/02/16	-	08/16/16	< 0.015
08/16/16	-	08/30/16	< 0.008
08/30/16	-	09/13/16	< 0.012
09/13/16	-	09/27/16	< 0.009
09/27/16	-	10/10/16	< 0.016
10/10/16	-	10/25/16	< 0.008
10/25/16	-	11/08/16	< 0.009
11/08/16	-	11/22/16	< 0.006
11/22/16	-	12/06/16	< 0.004
12/06/16	-	12/20/16	< 0.005
12/20/16	-	01/04/17	< 0.011

Results in picoCuries per cubic meter (pCi/m^3)

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Salem/Hope Creek
Results of Analyses for Iodine-131 in Bi-Weekly Air Samples

Lower Alloways Creek School (AIAI03)

Collection Period			I-131 (pCi/m^3)
01/05/16	-	01/19/16	< 0.012
01/19/16	-	02/02/16	< 0.009
02/02/16	-	02/16/16	< 0.008
02/16/16	-	03/01/16	< 0.009
03/01/16	-	03/15/16	< 0.009
03/15/16	-	03/29/16	< 0.008
03/29/16	-	04/12/16	< 0.010
04/12/16	-	04/26/16	< 0.012
04/26/16	-	05/10/16	< 0.011
05/10/16	-	05/24/16	< 0.015
05/24/16	-	06/07/16	< 0.011
06/07/16	-	06/21/16	< 0.015
06/21/16	-	07/06/16	< 0.007
07/06/16	-	07/19/16	< 0.010
07/19/16	-	08/02/16	< 0.018
08/02/16	-	08/16/16	< 0.008
08/16/16	-	08/30/16	< 0.011
08/30/16	-	09/13/16	< 0.012
09/13/16	-	09/27/16	< 0.008
09/27/16	-	10/10/16	< 0.011
10/10/16	-	10/25/16	< 0.008
10/25/16	-	11/08/16	< 0.010
11/08/16	-	11/22/16	< 0.012
11/22/16	-	12/06/16	< 0.006
12/06/16	-	12/20/16	< 0.006
12/20/16	-	01/04/17	< 0.012

Results in picoCuries per cubic meter (pCi/m^3)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Salem/Hope Creek
Results of Analyses for Iodine-131 in Bi-Weekly Air Samples

SE Sector, PSE&G Owner Controlled Area (AIAI04)*

Collection Period			I-131 (pCi/m^3)
12/07/16	-	12/20/16	< 0.006
12/20/16	-	01/04/17	< 0.010

Results in picoCuries per cubic meter (pCi/m^3)

* Sample location was added to the ESMP in 2016 and declared operational on December 7, 2016

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

BNE Background Locations
Gross Beta Activity in Bi-Weekly Air Particulate Samples

BNE Office (COAP01)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/05/16	-	01/19/16	0.025 ± 0.002
01/19/16	-	02/02/16	0.018 ± 0.002
02/02/16	-	02/16/16	0.015 ± 0.002
02/16/16	-	03/01/16	No Data[4]
03/01/16	-	03/15/16	0.018 ± 0.002
03/15/16	-	03/29/16	0.016 ± 0.002
03/29/16	-	04/12/16	0.021 ± 0.002
04/12/16	-	04/26/16	0.023 ± 0.002
04/26/16	-	05/10/16	0.011 ± 0.001
05/10/16	-	05/24/16	0.020 ± 0.002
05/24/16	-	06/07/16	0.022 ± 0.002
06/07/16	-	06/21/16	0.018 ± 0.002
06/21/16	-	07/06/16	0.020 ± 0.002
07/06/16	-	07/19/16	0.023 ± 0.002
07/19/16	-	08/02/16	0.023 ± 0.002
08/02/16	-	08/16/16	0.019 ± 0.002
08/16/16	-	08/30/16	0.024 ± 0.002
08/30/16	-	09/13/16	0.023 ± 0.002
09/13/16	-	09/28/16	0.023 ± 0.002
09/28/16	-	10/11/16	0.017 ± 0.002
10/11/16	-	10/25/16	0.025 ± 0.002
10/25/16	-	11/07/16	0.023 ± 0.002
11/07/16	-	11/22/16	0.028 ± 0.002
11/22/16	-	12/06/16	0.025 ± 0.002
12/06/16	-	12/20/16	0.026 ± 0.002
12/20/16	-	01/04/17	0.024 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

[4] Air sampler pump found not running due to a loss of electrical power.

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

BNE Background Locations
Gross Beta Activity in Bi-Weekly Air Particulate Samples

Brendan T. Byrne State Forest (COAP02)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/05/16	-	01/19/16	0.022 ± 0.002
01/19/16	-	02/02/16	0.017 ± 0.002
02/02/16	-	02/16/16	0.014 ± 0.001
02/16/16	-	03/01/16	0.018 ± 0.002
03/01/16	-	03/15/16	0.019 ± 0.002
03/15/16	-	03/29/16	0.015 ± 0.002
03/29/16	-	04/12/16	0.021 ± 0.002
04/12/16	-	04/26/16	0.022 ± 0.002
04/26/16	-	05/10/16	0.010 ± 0.001
05/10/16	-	05/23/16	0.017 ± 0.002
05/23/16	-	06/07/16	0.020 ± 0.002
06/07/16	-	06/21/16	0.018 ± 0.002
06/21/16	-	07/06/16	0.021 ± 0.002
07/06/16	-	07/19/16	0.023 ± 0.002
07/19/16	-	08/02/16	0.024 ± 0.002
08/02/16	-	08/16/16	0.017 ± 0.002
08/16/16	-	08/30/16	0.022 ± 0.002
08/30/16	-	09/13/16	0.024 ± 0.002
09/13/16	-	09/27/16	0.018 ± 0.002
09/27/16	-	10/10/16	0.014 ± 0.002
10/10/16	-	10/25/16	0.020 ± 0.002
10/25/16	-	11/08/16	0.021 ± 0.002
11/08/16	-	11/22/16	0.029 ± 0.002
11/22/16	-	12/06/16	0.026 ± 0.002
12/06/16	-	12/20/16	0.024 ± 0.002
12/20/16	-	01/04/17	0.026 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Gross Beta Activity in Bi-Weekly Air Particulate Samples

Waretown Municipal Building (OCAP01)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/05/16	-	01/19/16	0.022 ± 0.002
01/19/16	-	02/02/16	0.020 ± 0.002
02/02/16	-	02/16/16	0.015 ± 0.002
02/16/16	-	03/01/16	0.018 ± 0.002
03/01/16	-	03/15/16	0.018 ± 0.002
03/15/16	-	03/29/16	0.016 ± 0.002
03/29/16	-	04/12/16	0.019 ± 0.002
04/12/16	-	04/26/16	0.024 ± 0.002
04/26/16	-	05/10/16	0.010 ± 0.001
05/10/16	-	05/23/16	0.021 ± 0.002
05/23/16	-	06/07/16	0.021 ± 0.002
06/07/16	-	06/21/16	0.019 ± 0.002
06/21/16	-	07/06/16	0.020 ± 0.002
07/06/16	-	07/19/16	0.023 ± 0.002
07/19/16	-	08/02/16	0.024 ± 0.002
08/02/16	-	08/16/16	0.019 ± 0.002
08/16/16	-	08/30/16	0.020 ± 0.002
08/30/16	-	09/13/16	0.026 ± 0.002
09/13/16	-	09/27/16	0.018 ± 0.002
09/27/16	-	10/10/16	0.015 ± 0.002
10/10/16	-	10/25/16	0.022 ± 0.002
10/25/16	-	11/08/16	0.023 ± 0.002
11/08/16	-	11/22/16	0.028 ± 0.002
11/22/16	-	12/06/16	0.025 ± 0.002
12/06/16	-	12/20/16	0.027 ± 0.002
12/20/16	-	01/04/17	0.027 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Gross Beta Activity in Bi-Weekly Air Particulate Samples

Sands Point Harbor (OCAP02)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/05/16	-	01/19/16	0.027 ± 0.002
01/19/16	-	02/02/16	0.019 ± 0.002
02/02/16	-	02/16/16	0.015 ± 0.002
02/16/16	-	03/01/16	0.021 ± 0.002
03/01/16	-	03/15/16	0.019 ± 0.002
03/15/16	-	03/29/16	0.016 ± 0.002
03/29/16	-	04/12/16	0.023 ± 0.002
04/12/16	-	04/26/16	0.023 ± 0.002
04/26/16	-	05/10/16	0.009 ± 0.001
05/10/16	-	05/23/16	0.020 ± 0.002
05/23/16	-	06/07/16	0.019 ± 0.002
06/07/16	-	06/21/16	0.016 ± 0.002
06/21/16	-	07/06/16	0.023 ± 0.002
07/06/16	-	07/19/16	0.023 ± 0.002
07/19/16	-	08/02/16	0.022 ± 0.002
08/02/16	-	08/16/16	0.018 ± 0.002
08/16/16	-	08/30/16	0.021 ± 0.002
08/30/16	-	09/13/16	0.028 ± 0.002
09/13/16	-	09/27/16	0.019 ± 0.002
09/27/16	-	10/10/16	0.014 ± 0.002
10/10/16	-	10/25/16	0.022 ± 0.002
10/25/16	-	11/08/16	0.022 ± 0.002
11/08/16	-	11/22/16	0.030 ± 0.002
11/22/16	-	12/06/16	0.027 ± 0.002
12/06/16	-	12/20/16	0.029 ± 0.002
12/20/16	-	01/04/17	0.025 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Gross Beta Activity in Bi-Weekly Air Particulate Samples

Forked River Marina (OCAP03)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/05/16	-	01/19/16	0.027 ± 0.002
01/19/16	-	02/02/16	0.019 ± 0.002
02/02/16	-	02/16/16	0.017 ± 0.002
02/16/16	-	03/01/16	0.017 ± 0.002
03/01/16	-	03/15/16	0.018 ± 0.002
03/15/16	-	03/29/16	0.015 ± 0.001
03/29/16	-	04/12/16	0.021 ± 0.002
04/12/16	-	04/26/16	0.022 ± 0.002
04/26/16	-	05/10/16	0.010 ± 0.001
05/10/16	-	05/23/16	0.018 ± 0.002
05/23/16	-	06/07/16	0.017 ± 0.001
06/07/16	-	06/21/16	0.017 ± 0.002
06/21/16	-	07/06/16	0.023 ± 0.002
07/06/16	-	07/19/16	0.022 ± 0.002
07/19/16	-	08/02/16	0.022 ± 0.002
08/02/16	-	08/16/16	0.017 ± 0.002
08/16/16	-	08/30/16	0.022 ± 0.002
08/30/16	-	09/13/16	0.024 ± 0.002
09/13/16	-	09/27/16	0.019 ± 0.002
09/27/16	-	10/10/16	0.016 ± 0.002
10/10/16	-	10/25/16	0.021 ± 0.002
10/25/16	-	11/08/16	0.022 ± 0.002
11/08/16	-	11/22/16	0.032 ± 0.002
11/22/16	-	12/06/16	0.026 ± 0.002
12/06/16	-	12/20/16	0.024 ± 0.002
12/20/16	-	01/04/17	0.024 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Gross Beta Activity in Bi-Weekly Air Particulate Samples

Lacey Twp. Recreation Building (OCAP04)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/05/16	-	01/19/16	0.025 ± 0.002
01/19/16	-	02/02/16	0.020 ± 0.002
02/02/16	-	02/16/16	0.015 ± 0.002
02/16/16	-	03/01/16	0.019 ± 0.002
03/01/16	-	03/15/16	0.017 ± 0.002
03/15/16	-	03/29/16	0.016 ± 0.002
03/29/16	-	04/12/16	0.019 ± 0.002
04/12/16	-	04/26/16	0.024 ± 0.002
04/26/16	-	05/10/16	0.012 ± 0.001
05/10/16	-	05/23/16	0.019 ± 0.002
05/23/16	-	06/07/16	0.021 ± 0.002
06/07/16	-	06/21/16	0.018 ± 0.002
06/21/16	-	07/06/16	0.022 ± 0.002
07/06/16	-	07/19/16	0.021 ± 0.002
07/19/16	-	08/02/16	0.027 ± 0.002
08/02/16	-	08/16/16	0.019 ± 0.002
08/16/16	-	08/30/16	0.024 ± 0.002
08/30/16	-	09/13/16	0.025 ± 0.002
09/13/16	-	09/27/16	0.020 ± 0.002
09/27/16	-	10/10/16	0.016 ± 0.002
10/10/16	-	10/25/16	0.022 ± 0.002
10/25/16	-	11/08/16	0.024 ± 0.002
11/08/16	-	11/22/16	0.027 ± 0.002
11/22/16	-	12/06/16	0.026 ± 0.002
12/06/16	-	12/20/16	0.028 ± 0.002
12/20/16	-	01/04/17	0.029 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Gross Beta Activity in Bi-Weekly Air Particulate Samples

JCP&L Substation (OCAP05)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/05/16	-	01/19/16	0.024 ± 0.002
01/19/16	-	02/02/16	0.020 ± 0.002
02/02/16	-	02/16/16	0.017 ± 0.002
02/16/16	-	03/01/16	0.019 ± 0.002
03/01/16	-	03/15/16	0.019 ± 0.002
03/15/16	-	03/29/16	0.015 ± 0.002
03/29/16	-	04/12/16	0.020 ± 0.002
04/12/16	-	04/26/16	0.023 ± 0.002
04/26/16	-	05/10/16	0.010 ± 0.001
05/10/16	-	05/23/16	0.020 ± 0.002
05/23/16	-	06/07/16	0.019 ± 0.002
06/07/16	-	06/21/16	0.017 ± 0.002
06/21/16	-	07/06/16	0.022 ± 0.002
07/06/16	-	07/19/16	0.021 ± 0.002
07/19/16	-	08/02/16	0.023 ± 0.002
08/02/16	-	08/16/16	0.017 ± 0.012
08/16/16	-	08/30/16	0.021 ± 0.002
08/30/16	-	09/13/16	0.024 ± 0.002
09/13/16	-	09/27/16	0.019 ± 0.002
09/27/16	-	10/10/16	0.015 ± 0.002
10/10/16	-	10/25/16	0.022 ± 0.002
10/25/16	-	11/08/16	0.021 ± 0.002
11/08/16	-	11/22/16	0.025 ± 0.002
11/22/16	-	12/06/16	0.026 ± 0.002
12/06/16	-	12/20/16	0.026 ± 0.002
12/20/16	-	01/04/17	0.023 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Gross Beta Activity in Weekly* Air Particulate Samples

Finninger Farm, OC Dredge Site (OCAP06)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/06/16	-	01/13/16	0.019 ± 0.004
01/13/16	-	01/21/16	0.028 ± 0.004
01/21/16	-	01/28/16	0.016 ± 0.004
01/28/16	-	02/03/16	0.017 ± 0.004
02/03/16	-	02/10/16	0.011 ± 0.003
02/10/16	-	02/17/16	0.015 ± 0.004
02/17/16	-	02/23/16	0.027 ± 0.005
02/23/16	-	03/02/16	0.005 ± 0.002
03/02/16	-	03/11/16	No Data[5]
03/11/16	-	03/16/16	0.010 ± 0.004
03/16/16	-	03/24/16	0.015 ± 0.003
03/24/16	-	03/30/16	0.024 ± 0.005
03/30/16	-	04/07/16	0.023 ± 0.004
04/07/16	-	04/13/16	0.024 ± 0.005
04/13/16	-	04/21/16	0.026 ± 0.004
04/21/16	-	04/27/16	0.028 ± 0.005
04/27/16	-	05/04/16	0.015 ± 0.004
05/04/16	-	05/11/16	0.012 ± 0.003
05/11/16	-	05/18/16	0.022 ± 0.004
05/18/16	-	05/24/16	0.024 ± 0.005
05/24/16	-	06/01/16	0.027 ± 0.004
06/01/16	-	06/08/16	0.018 ± 0.004
06/08/16	-	06/15/16	0.027 ± 0.005
06/15/16	-	06/22/16	0.025 ± 0.005
06/22/16	-	06/29/16	0.033 ± 0.005
06/29/16	-	07/06/16	0.020 ± 0.004

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

* Air Particulate samples are collected by the licensee on a weekly basis

[5] No sample result due to maintenance issues with equipment

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Gross Beta Activity in Weekly* Air Particulate Samples

Finninger Farm, OC Dredge Site (OCAP06) - *continued*

Collection Period			Particulate Gross Beta (pCi/m^3)
07/06/16	-	07/13/16	0.020 ± 0.004
07/13/16	-	07/20/16	0.023 ± 0.004
07/20/16	-	07/27/16	0.029 ± 0.005
07/27/16	-	08/03/16	0.026 ± 0.005
08/03/16	-	08/10/16	0.023 ± 0.004
08/10/16	-	08/17/16	0.021 ± 0.004
08/17/16	-	08/24/16	0.029 ± 0.005
08/24/16	-	08/31/16	0.028 ± 0.005
08/31/16	-	09/07/16	0.028 ± 0.005
09/07/16	-	09/14/16	0.036 ± 0.005
09/14/16	-	09/21/16	0.017 ± 0.004
09/21/16	-	09/27/16	0.022 ± 0.005
09/27/16	-	10/04/16	0.017 ± 0.004
10/04/16	-	10/12/16	0.014 ± 0.003
10/12/16	-	10/20/16	0.028 ± 0.005
10/20/16	-	10/26/16	0.016 ± 0.004
10/26/16	-	11/02/16	0.030 ± 0.005
11/02/16	-	11/09/16	0.026 ± 0.005
11/09/16	-	11/16/16	0.030 ± 0.005
11/16/16	-	11/22/16	0.026 ± 0.005
11/22/16	-	11/30/16	0.032 ± 0.005
11/30/16	-	12/07/16	0.023 ± 0.005
12/07/16	-	12/14/16	0.029 ± 0.005
12/14/16	-	12/20/16	0.020 ± 0.005
12/20/16	-	12/28/16	0.030 ± 0.005
12/28/16	-	01/04/17	0.020 ± 0.004

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

* Air Particulate samples are collected by the licensee on a weekly basis

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Gross Beta Activity in Bi-Weekly Air Particulate Samples

Access Road to Finninger Farm Property (ENE Sector) (OCAP07)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/05/16	-	01/19/16	0.025 ± 0.002
01/19/16	-	02/02/16	0.018 ± 0.002
02/02/16	-	02/16/16	0.018 ± 0.002
02/16/16	-	03/01/16	0.020 ± 0.002
03/01/16	-	03/15/16	0.017 ± 0.002
03/15/16	-	03/29/16	0.015 ± 0.001
03/29/16	-	04/12/16	0.020 ± 0.002
04/12/16	-	04/26/16	0.024 ± 0.002
04/26/16	-	05/10/16	0.008 ± 0.001
05/10/16	-	05/23/16	0.018 ± 0.002
05/23/16	-	06/07/16	0.020 ± 0.002
06/07/16	-	06/21/16	0.016 ± 0.002
06/21/16	-	07/06/16	0.021 ± 0.002
07/06/16	-	07/19/16	0.021 ± 0.002
07/19/16	-	08/02/16	0.024 ± 0.002
08/02/16	-	08/16/16	0.017 ± 0.002
08/16/16	-	08/30/16	0.021 ± 0.002
08/30/16	-	09/13/16	0.025 ± 0.002
09/13/16	-	09/27/16	0.019 ± 0.002
09/27/16	-	10/10/16	0.017 ± 0.002
10/10/16	-	10/25/16	0.025 ± 0.002
10/25/16	-	11/08/16	0.022 ± 0.002
11/08/16	-	11/22/16	0.030 ± 0.002
11/22/16	-	12/06/16	0.027 ± 0.002
12/06/16	-	12/20/16	0.023 ± 0.002
12/20/16	-	01/04/17	0.023 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Gross Beta Activity in Bi-Weekly Air Particulate Samples

East of US Route 9 and South of Discharge Canal Inside Fence (SE Sector) (OCAP08)*

Collection Period			Particulate Gross Beta (pCi/m^3)
01/22/16	-	02/02/16	0.020 ± 0.002
02/02/16	-	02/16/16	0.017 ± 0.002
02/16/16	-	03/01/16	0.019 ± 0.002
03/01/16	-	03/15/16	0.019 ± 0.002
03/15/16	-	03/29/16	0.015 ± 0.002
03/29/16	-	04/12/16	0.019 ± 0.002
04/12/16	-	04/26/16	0.024 ± 0.002
04/26/16	-	05/10/16	0.011 ± 0.001
05/10/16	-	05/23/16	0.020 ± 0.002
05/23/16	-	06/07/16	0.019 ± 0.002
06/07/16	-	06/21/16	0.017 ± 0.002
06/21/16	-	07/06/16	0.022 ± 0.002
07/06/16	-	07/19/16	0.021 ± 0.002
07/19/16	-	08/02/16	0.022 ± 0.002
08/02/16	-	08/16/16	0.018 ± 0.002
08/16/16	-	08/30/16	0.025 ± 0.002
08/30/16	-	09/13/16	0.024 ± 0.002
09/13/16	-	09/27/16	0.018 ± 0.002
09/27/16	-	10/10/16	0.014 ± 0.002
10/10/16	-	10/25/16	0.024 ± 0.002
10/25/16	-	11/08/16	0.021 ± 0.002
11/08/16	-	11/22/16	0.029 ± 0.002
11/22/16	-	12/06/16	0.025 ± 0.002
12/06/16	-	12/20/16	0.026 ± 0.002
12/20/16	-	01/04/17	0.027 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

* The air sampler was added to the ESMP in 2016 and declared operational on January 22, 2016

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Salem/Hope Creek
Gross Beta Activity in Bi-Weekly Air Particulate Samples

Fort Elfsborg Road (AIAP01)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/05/16	-	01/19/16	0.026 ± 0.002
01/19/16	-	02/02/16	0.024 ± 0.002
02/02/16	-	02/16/16	0.017 ± 0.002
02/16/16	-	03/01/16	0.018 ± 0.002
03/01/16	-	03/15/16	0.018 ± 0.002
03/15/16	-	03/29/16	0.018 ± 0.002
03/29/16	-	04/12/16	0.023 ± 0.002
04/12/16	-	04/26/16	0.023 ± 0.002
04/26/16	-	05/10/16	0.012 ± 0.001
05/10/16	-	05/24/16	0.020 ± 0.002
05/24/16	-	06/07/16	0.021 ± 0.002
06/07/16	-	06/21/16	0.020 ± 0.002
06/21/16	-	07/06/16	0.020 ± 0.002
07/06/16	-	07/19/16	0.027 ± 0.002
07/19/16	-	08/02/16	0.029 ± 0.002
08/02/16	-	08/16/16	0.019 ± 0.002
08/16/16	-	08/30/16	0.023 ± 0.002
08/30/16	-	09/13/16	0.029 ± 0.002
09/13/16	-	09/27/16	0.025 ± 0.002
09/27/16	-	10/10/16	0.017 ± 0.002
10/10/16	-	10/25/16	0.025 ± 0.002
10/25/16	-	11/08/16	0.023 ± 0.002
11/08/16	-	11/22/16	0.032 ± 0.002
11/22/16	-	12/06/16	0.026 ± 0.002
12/06/16	-	12/20/16	0.028 ± 0.002
12/21/16[6]	-	01/04/17	0.027 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

[6] Unit found out of service on 12/20/16 and restarted on 12/21/16.

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Salem/Hope Creek
Gross Beta Activity in Bi-Weekly Air Particulate Samples

Plant Access Road (AIAP02)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/05/16	-	01/19/16	0.025 ± 0.002
01/19/16	-	02/02/16	0.022 ± 0.002
02/02/16	-	02/16/16	0.017 ± 0.002
02/16/16	-	03/01/16	0.019 ± 0.002
03/01/16	-	03/15/16	0.019 ± 0.002
03/15/16	-	03/29/16	0.017 ± 0.002
03/29/16	-	04/12/16	0.020 ± 0.002
04/12/16	-	04/26/16	0.023 ± 0.002
04/26/16	-	05/10/16	0.013 ± 0.001
05/10/16	-	05/24/16	0.019 ± 0.002
05/24/16	-	06/07/16	0.021 ± 0.002
06/07/16	-	06/21/16	0.019 ± 0.002
06/21/16	-	07/06/16	0.021 ± 0.002
07/06/16	-	07/19/16	0.024 ± 0.002
07/19/16	-	08/02/16	0.029 ± 0.002
08/02/16	-	08/16/16	0.018 ± 0.002
08/16/16	-	08/30/16	0.025 ± 0.002
08/30/16	-	09/13/16	0.027 ± 0.002
09/13/16	-	09/27/16	0.023 ± 0.002
09/27/16	-	10/10/16	0.017 ± 0.002
10/10/16	-	10/25/16	0.023 ± 0.002
10/25/16	-	11/08/16	0.023 ± 0.002
11/08/16	-	11/22/16	0.030 ± 0.002
11/22/16	-	12/06/16	0.028 ± 0.002
12/06/16	-	12/20/16	0.029 ± 0.002
12/20/16	-	01/04/17	0.025 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

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Salem/Hope Creek
Gross Beta Activity in Bi-Weekly Air Particulate Samples

Lower Alloways Creek School (AIAP03)

Collection Period			Particulate Gross Beta (pCi/m^3)
01/05/16	-	01/19/16	0.028 ± 0.002
01/19/16	-	02/02/16	0.022 ± 0.002
02/02/16	-	02/16/16	0.015 ± 0.002
02/16/16	-	03/01/16	0.019 ± 0.002
03/01/16	-	03/15/16	0.020 ± 0.002
03/15/16	-	03/29/16	0.015 ± 0.002
03/29/16	-	04/12/16	0.021 ± 0.002
04/12/16	-	04/26/16	0.022 ± 0.002
04/26/16	-	05/10/16	0.012 ± 0.001
05/10/16	-	05/24/16	0.020 ± 0.002
05/24/16	-	06/07/16	0.022 ± 0.002
06/07/16	-	06/21/16	0.019 ± 0.002
06/21/16	-	07/06/16	0.022 ± 0.002
07/06/16	-	07/19/16	0.026 ± 0.002
07/19/16	-	08/02/16	0.028 ± 0.002
08/02/16	-	08/16/16	0.019 ± 0.002
08/16/16	-	08/30/16	0.023 ± 0.002
08/30/16	-	09/13/16	0.026 ± 0.002
09/13/16	-	09/27/16	0.022 ± 0.002
09/27/16	-	10/10/16	0.015 ± 0.002
10/10/16	-	10/25/16	0.023 ± 0.002
10/25/16	-	11/08/16	0.024 ± 0.002
11/08/16	-	11/22/16	0.031 ± 0.002
11/22/16	-	12/06/16	0.028 ± 0.002
12/06/16	-	12/20/16	0.026 ± 0.002
12/20/16	-	01/04/17	0.026 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

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Salem/Hope Creek
Gross Beta Activity in Bi-Weekly Air Particulate Samples

SE Sector, PSE&G Owner Controlled Area (AIAP04)*

Collection Period			Particulate Gross Beta (pCi/m^3)
12/07/16	-	12/20/16	0.032 ± 0.002
12/20/16	-	01/04/17	0.026 ± 0.002

Results in picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

* The air sampler was added to the ESMP in 2016 and declared operational on December 7, 2016

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
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BNE Background Location
Results of Analyses of Gamma Emitters and Strontium in
Quarterly Composite Air Samples

BNE Office (COAP01)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
12/22/15	-	03/29/16	< 0.5	< 0.4	< 0.4	82 ± 17	< 41.2	< 11.5
03/29/16	-	06/21/16	< 0.1	< 0.3	< 0.5	141 ± 23	< 46.1	< 21.7
06/21/16	-	09/28/16	< 0.3	< 0.6	< 0.4	130 ± 19	< 59.9	< 23.1
09/28/16	-	12/20/16	< 0.3	< 0.3	< 0.3	94 ± 12	< 34.4	< 22.1

Brendan T. Byrne State Forest (COAP02)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
12/22/15	-	03/29/16	< 0.2	< 0.4	< 0.3	84 ± 18	< 33.6	< 10.5
03/29/16	-	06/21/16	< 0.3	< 0.4	< 0.3	145 ± 22	< 53.2	< 24.7
06/21/16	-	09/27/16	< 0.2	< 0.4	< 0.2	116 ± 18	< 44.6	< 16.4
09/27/16	-	12/20/16	< 0.3	< 0.3	< 0.3	96 ± 11	< 28.6	< 16.0

Results in 10^{-3} picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

Beryllium-7 (Be-7) is a naturally occurring radionuclide found in the environment.

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Oyster Creek
Results of Analyses of Gamma Emitters and Strontium in
Quarterly Composite Air Samples

Waretown Municipal Building (OCAP01)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
12/22/15	-	03/29/16	< 0.6	< 0.4	< 0.4	108 ± 20	< 38.2	< 25.5
03/29/16	-	06/21/16	< 0.3	< 0.3	< 0.4	146 ± 22	< 57.2	< 20.8
06/21/16	-	09/27/16	< 0.4	< 0.6	< 0.4	105 ± 21	< 45.2	< 12.7
09/27/16	-	12/20/16	< 0.3	< 0.2	< 0.3	91 ± 13	< 28.4	< 14.9

Sands Point Harbor (OCAP02)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
12/22/15	-	03/29/16	< 0.4	< 0.4	< 0.3	89 ± 17	< 37.1	< 13.2
03/29/16	-	06/21/16	< 0.5	< 0.5	< 0.4	152 ± 22	< 58.1	< 24.4
06/21/16	-	09/27/16	< 0.3	< 0.3	< 0.3	120 ± 16	< 67.3	< 19.0
09/27/16	-	12/20/16	< 0.3	< 0.3	< 0.2	88 ± 12	< 29.3	< 12.8

Forked River Marina (OCAP03)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
12/22/15	-	03/29/16	< 0.3	< 0.3	< 0.3	75 ± 18	< 28.5	< 12.7
03/29/16	-	06/21/16	< 0.5	< 0.4	< 0.3	148 ± 22	< 44.7	< 22.9
06/21/16	-	09/27/16	< 0.2	< 0.2	< 0.2	118 ± 13	< 50.4	< 19.2
09/27/16	-	12/20/16	< 0.3	< 0.3	< 0.3	101 ± 11	< 29.0	< 16.1

Lacey Township Recreation Building (OCAP04)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
12/22/15	-	03/29/16	< 0.6	< 0.4	< 0.4	82 ± 18	< 38.6	< 12.0
03/29/16	-	06/21/16	< 0.4	< 0.5	< 0.4	147 ± 23	< 54.9	< 25.7
06/21/16	-	09/27/16	< 0.3	< 0.2	< 0.3	131 ± 19	< 53.6	< 24.5
09/27/16	-	12/20/16	< 0.4	< 0.3	< 0.4	108 ± 13	< 34.6	< 11.5

Results in 10^{-3} picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

Beryllium-7 (Be-7) is a naturally occurring radionuclide found in the environment.

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Oyster Creek
Results of Analyses of Gamma Emitters and Strontium in
Quarterly Composite Air Samples

Jersey Central Power and Light Substation (OCAP05)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
12/22/15	-	03/29/16	< 0.4	< 0.4	< 0.3	90 ± 17	< 48.8	< 14.1
03/29/16	-	06/21/16	< 0.6	< 0.5	< 0.4	139 ± 25	< 31.9	< 27.1
06/21/16	-	09/27/16	< 0.5	< 0.3	< 0.3	116 ± 20	< 33.8	< 20.0
09/27/16	-	12/20/16	< 0.3	< 0.3	< 0.2	97 ± 13	< 32.2	< 20.2

Finninger Farm, OC Dredge Site (OCAP06)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
12/29/15	-	03/30/16	< 1.0	< 1.2	< 0.8	86 ± 26	< 99.2	< 40.9
03/30/16	-	06/29/16	< 0.8	< 0.9	< 0.5	143 ± 36	< 125.0	< 68.2
06/29/16	-	09/27/16	< 1.0	< 0.8	< 0.6	87 ± 30	< 132.0	< 56.2
09/27/16	-	12/28/16	< 0.8	< 0.7	< 0.6	89 ± 21	< 45.1	< 52.3

Access Road, Finninger Farm Property (ENE Sector) (OCAP07)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
12/22/15	-	03/29/16	< 0.5	< 0.3	< 0.4	101 ± 19	< 27.2	< 7.2
03/29/16	-	06/21/16	< 0.5	< 0.4	< 0.3	145 ± 22	< 58.1	< 24.0
06/21/16	-	09/27/16	< 0.5	< 0.5	< 0.5	118 ± 18	< 58.6	< 14.1
09/27/16	-	12/20/16	< 0.2	< 0.2	< 0.2	92 ± 12	< 34.5	< 13.5

East of US Route 9 & South of the Discharge Canal Inside Fence (SE Sector) (OCAP08)*

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
01/22/16	-	03/29/16	< 0.4	< 0.7	< 0.4	98 ± 19	< 44.0	< 12.8
03/29/16	-	06/21/16	< 0.4	< 0.4	< 0.4	150 ± 24	< 43.7	< 29.6
06/21/16	-	09/27/16	< 0.6	< 0.3	< 0.4	123 ± 22	< 56.5	< 24.4
09/27/16	-	12/20/16	< 0.3	< 0.2	< 0.2	95 ± 13	< 24.1	< 22.2

Results in 10^{-3} picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

Beryllium-7 (Be-7) is a naturally occurring radionuclide found in the environment.

* The air sampler was added to the ESMP in 2016 and declared operational on January 22, 2016

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Salem / Hope Creek
Results of Analyses of Gamma Emitters and Strontium in
Quarterly Composite Air Samples

Fort Elfsborg Road (AIAP01)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
12/22/15	-	03/29/16	< 0.4	< 0.4	< 0.4	96 ± 17	< 28.3	< 10.4
03/29/16	-	06/21/16	< 0.5	< 0.6	< 0.4	148 ± 22	< 44.8	< 23.0
06/21/16	-	09/27/16	< 0.4	< 0.3	< 0.3	137 ± 20	< 64.2	< 14.7
09/27/16	-	12/20/16	< 0.3	< 0.4	< 0.3	96 ± 11	< 31.6	< 13.9

Plant Access Road (AIAP02)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
12/22/15	-	03/29/16	< 0.3	< 0.5	< 0.4	104 ± 20	< 49.3	< 9.2
03/29/16	-	06/21/16	< 0.4	< 0.5	< 0.3	142 ± 23	< 41.5	< 28.3
06/21/16	-	09/27/16	< 0.3	< 0.3	< 0.2	115 ± 17	< 42.0	< 18.7
09/27/16	-	12/20/16	< 0.4	< 0.3	< 0.2	100 ± 13	< 28.3	< 16.4

Lower Alloways Creek School (AIAP03)

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
12/22/15	-	03/29/16	< 0.4	< 0.4	< 0.2	84 ± 19	< 33.9	< 10.9
03/29/16	-	06/21/16	< 0.7	< 0.5	< 0.3	156 ± 24	< 34.4	< 18.3
06/21/16	-	09/27/16	< 0.4	< 0.4	< 0.3	112 ± 19	< 48.8	< 18.5
09/27/16	-	12/20/16	< 0.4	< 0.3	< 0.3	102 ± 16	< 35.8	< 28.8

SE Sector, PSE&G Owner Controlled Area (AIAP04)*

Collection Period			Co-60	Cs-134	Cs-137	Be-7	Sr-89	Sr-90
12/07/16	-	12/20/16	< 2.2	< 1.1	< 1.3	101 ± 25	< 94.0	< 78.9

Results in 10^{-3} picoCuries per cubic meter (pCi/m^3) +/- 2 Standard Deviations total measurement uncertainty

Beryllium-7 (Be-7) is a naturally occurring radionuclide found in the environment.

* The air sampler was added to the ESMP in 2016 and declared operational on December 7, 2016

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Oyster Creek
Results of Analyses of Gamma Emitters and Strontium in Fish/Shellfish Samples

Stouts Creek (OCFS01)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
04/18/16 - Clams	< 5	< 7	< 6	< 5	1,800 ± 213	< 455	< 632
09/26/16 - Clams	< 4	< 3	< 4	< 3	1,760 ± 128	< 263	< 228

East of Site – Barnegat Bay (OCFS02)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
04/18/16 - Clams	< 5	< 6	< 7	< 5	2,010 ± 233	< 432	< 385
04/19/16 – Amer. Eel	< 7	< 8	< 8	< 7	2,370 ± 309	< 460	< 648
09/26/16 - Clams	< 6	< 7	< 6	< 5	1,620 ± 177	< 267	< 312

Great Bay / Little Egg Harbor (OCFS03)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
04/20/16 - Clams	< 7	< 7	< 8	< 7	1,960 ± 259	< 432	< 399
09/28/16 - Clams	< 5	< 5	< 5	< 5	1,730 ± 177	< 277	< 273
09/28/16 - Bluefish	< 6	< 6	< 6	< 6	3,560 ± 363	< 303	< 265

OCNGS Discharge Canal between Pump Discharges and US Route 9 (OCFS04)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
04/19/16 – Striped Bass	< 7	< 7	< 8	< 6	3,670 ± 364	< 369	< 306
04/19/16 - Bluefish	< 7	< 7	< 8	< 7	3,490 ± 361	< 385	< 383
09/25/16 – Crab	< 4	< 4	< 3	< 3	2,300 ± 225	< 287	< 314
09/27/16 – Striped Bass	< 5	< 6	< 5	< 5	3,810 ± 281	< 265	< 349
09/27/16 – Bluefish	< 3	< 3	< 3	< 3	3,610 ± 230	< 397	< 364

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations total measurement uncertainty

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

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Salem/Hope Creek
Results of Analyses of Gamma Emitters and Strontium in Fish/Shellfish Samples

Delaware River – Near Plant Discharge Outfall Area – Salem NGS (AIFS01)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
07/28/16 - Crab	< 7	< 9	< 9	< 7	2,990 ± 253	No	Data[7]
08/23/16 - Crab	< 5	< 4	< 4	< 4	3,640 ± 226	< 143	< 130

Delaware River – West Bank Upstream (AIFS02)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
04/25/16 – Striped Bass	< 5	< 5	< 5	< 4	4,250 ± 379	< 440	< 431
07/28/16 – Crab	< 8	< 8	< 8	< 8	3,540 ± 307	No	Data[7]
08/24/16 – Crab	< 3	< 3	< 3	< 3	3,190 ± 195	< 139	< 98
10/25/16 – Striped Bass	< 8	< 8	< 9	< 12	4,210 ± 411	< 719	< 705

Delaware River – One Mile West of Mad Horse Creek (AIFS03)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
10/26/16 – Striped Bass	< 10	< 12	< 8	< 11	4,370 ± 520	< 583	< 598

Delaware River – 2.1 Miles SE (AIFS05)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
06/14/16 – Oysters	< 3	< 4	< 3	< 3	1,580 ± 158	< 147	< 124
10/14/16 - Oysters	< 2	< 3	< 3	< 3	1,380 ± 99	< 568	< 945

Delaware River (Near Benny Sands and Nantuxent Cove) – 19.1 Miles SE (AIFS06)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40	Sr-89	Sr-90
06/14/16 – Oysters	< 5	< 6	< 6	< 5	2,380 ± 173	< 158	< 220
10/17/16 – Oysters	< 2	< 2	< 2	< 2	1,340 ± 98	< 602	< 494

Results in picocuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations total measurement uncertainty

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

[7] Strontium 89/90 analysis results were unavailable due to insufficient sample volume.

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Oyster Creek
Results of Analyses of Gamma Emitters in Aquatic Sediment Samples

Barnegat Bay (OCAQ01)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
04/18/16	< 156	< 15	< 18	< 20	< 17	< 18	774 ± 258
09/26/16	200 ± 123	< 12	< 12	< 19	< 13	< 14	6,860 ± 744

Oyster Creek Discharge Canal (OCAQ02)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
04/18/16	264 ± 151	< 13	< 5	< 7	26 ± 5	< 6	6,070 ± 669
09/26/16	183 ± 86	< 7	< 7	< 13	14 ± 9	< 8	4,290 ± 445

Great Bay / Little Egg Harbor (OCAQ03)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
04/20/16	< 317	< 29	< 11	< 14	< 10	< 13	16,700 ± 1,570
09/26/16	< 157	< 16	< 19	< 29	< 22	< 19	17,300 ± 1,130

Stouts Creek (OCAQ04)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
04/18/16	< 153	< 15	< 17	< 19	< 17	< 16	1,440 ± 287
09/26/16	128 ± 76	< 5	< 6	< 9	< 7	< 7	1,550 ± 163

Results in picoCuries per kilogram – DRY (pCi/kg) +/- 2 Standard Deviations total measurement uncertainty

Potassium-40 (K-40) and Beryllium-7 (Be-7) are naturally occurring radionuclides found in the environment.

New Jersey Department of Environmental Protection
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Salem/Hope Creek
Results of Analyses of Gamma Emitters in Aquatic Sediment Samples

Delaware River Near Site Helipad (AIAQ01)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
07/07/16	353 ± 145	< 17	< 16	< 20	< 17	< 16	3,240 ± 379
11/21/16	< 60	< 6	< 7	< 9	< 7	< 7	5,300 ± 359

Delaware River Near Plant Discharge Outfall Area – Salem Station NGS (AIAQ02)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
07/05/16	< 106	< 12	< 12	< 14	< 13	< 12	3,240 ± 264
11/15/16	< 89	< 10	< 11	< 13	< 11	< 11	4,670 ± 556

Delaware River - Near Hope Creek NGS Cooling Tower Blow Down Discharge Line Outfall (AIAQ03)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
07/05/16	< 191	< 21	< 23	< 26	< 22	< 21	9,670 ± 693
11/15/16	< 161	< 17	< 16	< 22	< 16	< 14	9,970 ± 1,020

Delaware River Near South Storm Drain Discharge Line (AIAQ04)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
07/05/16	< 162	< 17	< 15	< 24	< 18	< 16	4,530 ± 383
11/15/16	< 138	< 13	< 16	< 23	< 15	< 13	5,530 ± 638

West Bank of Delaware River – Upstream (AIAQ05)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
07/05/16	< 138	< 17	< 16	< 20	< 16	< 16	14,700 ± 1,500
11/15/16	< 171	< 17	< 17	< 25	< 17	< 16	16,300 ± 1,020

Delaware Riverbank – 1.0 Miles W of Mad Horse Creek (AIAQ06)

Collection Date	Be-7	Co-58	Co-60	Cs-134	Cs-137	Mn-54	K-40
07/05/16	121 ± 96	< 12	< 11	< 14	20 ± 8	< 10	11,300 ± 1,040
11/15/16	< 138	< 14	< 15	< 22	< 15	< 15	11,300 ± 741

Results in picoCuries per kilogram – DRY (pCi/kg) +/- 2 Standard Deviations total measurement uncertainty

Potassium-40 (K-40) and Beryllium-7 (Be-7) are naturally occurring radionuclides found in the environment.

New Jersey Department of Environmental Protection
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Oyster Creek
Results of Analyses of Gamma Emitters in Vegetable Samples

Oyster Creek Onsite Garden - ESE (OCVE01)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Cabbage	06/28/16	< 9	< 12	< 11	< 10	2,170 ± 292
Collards	06/28/16	< 8	< 9	< 8	< 9	2,730 ± 255
Cabbage	07/27/16	< 7	< 7	< 8	< 7	2,350 ± 201
Collards	07/27/16	< 12	< 11	< 11	< 10	3,090 ± 265
Kale	07/27/16	< 9	< 9	< 10	< 9	3,230 ± 267
Cabbage	08/24/16	< 6	< 6	< 6	< 6	1,200 ± 176
Collards	08/24/16	< 5	< 6	< 6	< 6	2,210 ± 255
Kale	08/24/16	< 7	< 9	< 9	< 7	2,900 ± 256
Cabbage	09/20/16	< 13	< 18	< 21	< 15	856 ± 286
Collards	09/20/16	< 12	< 14	< 16	< 17	1,930 ± 389
Kale	09/20/16	< 22	< 32	< 35	< 26	2,490 ± 557
Cabbage	10/19/16	< 7	< 7	< 8	< 7	1,900 ± 198
Collards	10/19/16	< 10	< 7	< 13	< 10	2,870 ± 346
Kale	10/19/16	< 12	< 13	< 12	< 11	3,340 ± 376

Private Farm – NW (OCVE02)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Cabbage	06/28/16	< 8	< 9	< 9	< 8	2,420 ± 292
Collards	06/28/16	< 8	< 9	< 9	< 8	3,920 ± 405
Kale	06/28/16	< 10	< 10	< 12	< 12	3,460 ± 295
Cabbage	07/27/16	< 8	< 8	< 8	< 8	2,610 ± 302
Collards	07/27/16	< 9	< 8	< 9	< 8	3,600 ± 267
Kale	07/27/16	< 12	< 13	< 14	< 12	3,950 ± 448
Cabbage	08/24/16	< 6	< 7	< 7	< 6	2,230 ± 209
Collards	08/24/16	< 5	< 6	< 6	< 5	2,220 ± 205
Kale	08/24/16	< 6	< 6	< 6	< 6	3,510 ± 365
Cabbage	09/20/16	< 17	< 16	< 17	< 24	2,170 ± 435
Collards	09/20/16	< 15	< 20	< 16	< 14	3,320 ± 444
Kale	09/20/16	< 15	< 14	< 16	< 16	3,500 ± 427
Cabbage	10/19/16	< 14	< 16	< 18	< 13	2,050 ± 288
Collards	10/19/16	< 10	< 9	< 11	< 10	3,440 ± 361
Kale	10/19/16	< 18	< 19	< 21	< 19	3,640 ± 561

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations total measurement uncertainty

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
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Oyster Creek
Results of Analyses of Gamma Emitters in Vegetable Samples

Oyster Creek Onsite Garden - SE (OCVE03)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Cabbage	06/28/16	< 8	< 9	< 9	< 8	2,990 ± 336
Cabbage	07/27/16	< 11	< 9	< 11	< 10	3,670 ± 312
Collards	07/27/16	< 7	< 7	< 8	< 7	3,280 ± 342
Cabbage	08/24/16	< 7	< 8	< 9	< 7	2,960 ± 380
Cabbage	09/20/16	< 16	< 22	< 17	< 20	2,490 ± 547
Collards	09/20/16	< 12	< 16	< 10	< 13	2,930 ± 471
Collards	10/19/16	< 5	< 6	< 6	< 5	2,830 ± 222

Oyster Creek Onsite Garden - E (OCVE07)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Cabbage	06/28/16	< 8	< 8	< 9	19 ± 12	1,460 ± 214
Collards	06/28/16	< 9	< 10	< 10	26 ± 10	2,110 ± 285
Cabbage	07/27/16	< 10	< 10	< 10	19 ± 16	1,390 ± 220
Collards	07/27/16	< 9	< 10	< 10	19 ± 11	3,130 ± 264
Kale	07/27/16	< 9	< 9	< 9	36 ± 9	3,360 ± 428
Cabbage	08/24/16	< 5	< 5	< 5	< 6	896 ± 122
Collards	08/24/16	< 9	< 9	< 9	16 ± 11	2,120 ± 313
Kale	08/24/16	< 8	< 9	< 9	28 ± 10	2,890 ± 281
Cabbage	09/20/16	< 17	< 20	< 17	< 15	1,720 ± 393
Collards	09/20/16	< 20	< 18	< 17	< 19	3,040 ± 465
Kale	09/20/16	< 24	< 31	< 30	< 32	2,160 ± 450
Cabbage	10/19/16	< 16	< 12	< 14	< 17	2,720 ± 390
Collards	10/19/16	< 17	< 17	< 15	< 21	3,020 ± 483
Kale	10/19/16	< 21	< 17	< 21	< 27	4,070 ± 540

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations total measurement uncertainty

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Salem/Hope Creek
Results of Analyses of Gamma Emitters in Vegetable Samples

Local Farm - NNE (AIVE04)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Asparagus	05/16/16	< 7	< 8	< 8	< 8	2,270 ± 260
Corn	08/01/16	< 6	< 7	< 7	< 6	1,910 ± 239

Farm Market – NE (AIVE11)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Corn	07/26/16	< 6	< 6	< 6	< 6	1,950 ± 220
Cabbage	07/26/16	< 8	< 8	< 9	< 9	2,230 ± 192
Peppers	07/26/16	< 6	< 5	< 6	< 6	1,830 ± 200
Tomato	07/26/16	< 5	< 6	< 5	< 5	1,840 ± 196

Onsite – N (AIVE12)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Cabbage	08/31/16	< 8	< 9	< 9	< 10	1,980 ± 231
Cabbage	10/31/16	< 27	< 28	< 20	< 26	3,030 ± 629

Onsite - NNW (AIVE14)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Kale	07/25/16	< 11	< 10	< 11	< 11	5,050 ± 352
Cabbage	08/31/16	< 11	< 13	< 12	< 13	2,420 ± 345

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations total measurement uncertainty

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

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Salem/Hope Creek
Results of Analyses of Gamma Emitters in Vegetable Samples

Private Farm – NNE (AIVE18)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Asparagus	05/02/16	< 6	< 7	< 7	< 6	2,500 ± 265

Private Farm – NW (AIVE22)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Corn	08/24/16	< 7	< 7	< 7	< 7	1,490 ± 203
Tomato	08/24/16	< 7	< 6	< 6	< 7	2,130 ± 202

Onsite - NW (AIVE26)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Collards	10/31/16	< 25	< 23	< 28	< 24	3,790 ± 620
Cabbage	11/30/16	< 12	< 14	< 12	< 12	3,680 ± 388

Private Farm - NE (AIVE27)

Sample	Collection Date	Co-58	Co-60	Cs-134	Cs-137	K-40
Peach	08/01/16	< 8	< 10	< 9	< 9	2,320 ± 295

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations total measurement uncertainty

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

New Jersey Department of Environmental Protection
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BNE Background Location
Results of Analyses of Gamma Emitters and Strontium in Milk Samples

State of New Jersey Dairy Farm (COMI01)

Collection Date	Cs-137	I-131	K-40	Sr-89	Sr-90
02/29/16	< 2.55	< 0.53	1,900 ± 176	< 0.81	< 0.99
06/06/16	< 2.63	< 0.68	1,480 ± 141	< 0.99	< 0.82
09/26/16	< 1.62	< 0.32	1,230 ± 81	< 1.24[8]	< 1.34
12/05/16	< 1.75	< 0.54	1,490 ± 95	< 0.88	< 0.90

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations total measurement uncertainty

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Salem/Hope Creek
Results of Analyses of Gamma Emitters and Strontium in Milk Samples

Private Farm – NNE (AIMI01)

Collection Date	Cs-137	I-131	K-40	Sr-89	Sr-90
01/04/16	< 1.70	< 0.48	1,450 ± 132	< 0.85	< 0.89
02/08/16	< 2.27	< 0.77	1,900 ± 177	< 0.88	< 0.97
03/07/16	< 2.39	< 0.39	1,390 ± 135	< 0.93	< 0.65
04/04/16	< 2.65	< 0.71	1,470 ± 140	< 0.88	< 0.90
05/02/16	< 2.44	< 0.61	1,330 ± 128	< 0.92	< 0.84
06/07/16	< 2.14	< 0.62	1,410 ± 136	< 0.79	< 0.83
07/13/16	< 2.31	< 0.52	1,490 ± 138	< 0.44	< 0.62
08/08/16	< 2.42	< 0.66	1,300 ± 92	< 0.72	< 0.74
08/21/16	< 1.53	< 0.44	1,320 ± 134	< 0.86	< 1.00
09/06/16	< 2.60	< 0.59	1,390 ± 109	< 0.87	< 0.79
10/03/16	< 1.61	< 0.71	1,180 ± 80	< 0.63	< 0.79
11/15/16	< 1.80	< 0.45	1,390 ± 94	< 0.67	< 0.91
12/05/16	< 1.69	< 0.46	1,280 ± 85	< 0.91	< 0.64

Private Farm – NE (AIMI02)

Collection Date	Cs-137	I-131	K-40	Sr-89	Sr-90
01/04/16	< 1.62	< 0.52	1,350 ± 135	< 0.78	< 0.85
02/08/16	< 2.33	< 0.53	1,540 ± 150	< 0.99	< 0.95
03/07/16	< 2.07	< 0.42	1,280 ± 122	< 0.92	< 0.95
04/04/16	< 1.92	< 0.81	1,730 ± 158	< 0.94	< 0.72
05/02/16	< 2.22	< 0.56	1,390 ± 133	< 0.94	< 0.79
06/08/16	< 2.15	< 0.63	1,390 ± 130	< 0.66	< 0.85
07/13/16	< 2.14	< 0.59	1,370 ± 138	< 0.82	< 0.57
08/08/16	< 2.47	< 0.62	1,350 ± 131	< 0.83	< 0.57
08/21/16	< 2.42	< 0.49	1,140 ± 94	< 0.78	< 0.74
09/06/16	< 1.74	< 1.02*	1,270 ± 130	< 0.99	< 0.79
10/03/16	< 1.97	< 0.63	1,230 ± 92	< 0.63	< 0.75
11/15/16	< 1.99	< 0.52	1,300 ± 91	< 0.75	< 0.86
12/05/16	< 1.89	< 0.52	1,210 ± 81	< 0.75	< 0.64

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations total measurement uncertainty

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Salem/Hope Creek
Results of Analyses of Gamma Emitters and Strontium in Milk Samples

Private Farm – WNW (AIMI03)

Collection Date	Cs-137	I-131	K-40	Sr-89	Sr-90
01/04/16	< 1.59	< 0.54	1,360 ± 125	< 0.81	< 0.86
02/08/16	< 2.08	< 0.61	1,360 ± 130	< 0.81	< 0.90
03/07/16	< 2.01	< 0.53	1,540 ± 144	< 0.94	< 0.62
04/04/16	< 2.04	< 0.59	1,780 ± 162	< 0.91	< 0.89
05/02/16	< 2.15	< 0.65	1,450 ± 137	< 0.92	< 0.87
06/06/16	< 2.05	< 0.61	1,400 ± 132	< 0.89	< 0.87
07/13/16	< 2.43	< 0.46	1,450 ± 138	< 0.44	< 0.89
08/08/16	< 1.99	< 0.59	1,410 ± 133	< 0.97	< 0.99
08/21/16	< 1.51	< 0.42	1,350 ± 128	< 0.76	< 0.90
09/06/16	< 2.20	< 0.61	1,420 ± 92	< 0.99	< 0.91
10/03/16	< 1.69	< 0.59	1,320 ± 89	< 0.77	< 0.76
11/15/16	< 1.70	< 0.42	1,370 ± 93	< 0.88	< 0.86
12/05/16	< 1.61	< 0.46	1,270 ± 83	< 0.94	< 0.45

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations total measurement uncertainty

Potassium-40 (K-40) is a naturally occurring radionuclide found in the environment.

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Oyster Creek
Results of Analyses of Gamma Emitters and Tritium (H-3) in Surface Water

Barnegat Bay (OCSW01)

Collection Date*	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
04/18/16	< 1.54	< 1.79	< 1.60	< 1.65	< 181	< 0.89
09/26/16	< 1.60	< 1.61	< 1.65	< 1.50	< 240	< 0.93

Great Bay / Little Egg Harbor (OCSW02)

Collection Date**	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/07/16 – 01/28/16	< 1.46	< 1.59	< 1.48	< 1.47	< 202	< 0.95
02/04/16 – 02/24/16	< 2.03	< 1.93	< 2.26	< 2.06	< 175	< 0.77
03/03/16 – 03/31/16	< 1.56	< 1.64	< 1.47	< 1.53	< 204	< 0.68
04/08/16 – 04/27/16	< 1.44	< 1.64	< 1.50	< 1.41	< 218	< 0.97
05/04/16 – 05/24/16	< 1.55	< 1.51	< 1.54	< 1.51	< 239	< 0.84
06/02/16 – 06/29/16	< 1.74	< 1.59	< 1.74	< 1.68	< 220	< 0.80
07/08/16 – 07/27/16	< 1.75	< 1.93	< 1.83	< 1.68	< 194	< 0.97
08/05/16 – 08/31/16	< 1.18	< 1.06	< 1.27	< 1.16	< 207	< 0.86
09/09/16 – 09/26/16	< 1.73	< 1.57	< 1.82	< 1.71	< 229	< 0.76
10/04/16 – 10/26/16	< 1.19	< 1.41	< 1.19	< 1.13	< 203	< 0.86
11/03/16 – 11/30/16	< 1.39	< 1.20	< 1.48	< 1.32	< 242	< 0.94
12/09/16 – 12/28/16	< 1.35	< 1.75	< 1.50	< 1.48	< 208	< 0.51

Results in picoCuries per Liter (pCi/L)

* Samples are collected as a semi-annual grab sample

** Samples are collected as a weekly grab and composited for a monthly sample

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Oyster Creek
Results of Analyses of Gamma Emitters and Tritium (H-3) in Surface Water

Stouts Creek (OCSW03)

Collection Date*	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
04/18/16	< 1.71	< 1.83	< 1.75	< 1.72	< 184	< 0.71
09/26/16	< 1.71	< 1.67	< 1.70	< 1.79	< 234	< 0.84

Oyster Creek Discharge Canal (OCSW04)

Collection Date**	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/07/16 – 01/28/16	< 1.57	< 1.65	< 1.57	< 1.45	< 195	< 0.97
02/03/16 – 02/23/16	< 1.88	< 2.10	< 2.12	< 1.86	< 177	< 0.66
03/03/16 – 03/30/16	< 1.83	< 1.76	< 1.76	< 1.70	< 204	< 0.89
04/07/16 – 04/28/16	< 1.41	< 1.42	< 1.54	< 1.55	< 225	< 0.75
05/04/16 – 05/24/16	< 1.95	< 1.87	< 2.18	< 1.95	< 240	< 0.89
06/02/16 – 06/29/16	< 2.14	< 1.92	< 1.99	< 1.86	< 238	< 0.80
07/08/16 – 07/28/16	< 1.58	< 1.58	< 1.60	< 1.50	< 192	< 0.89
08/05/16 – 08/31/16	< 1.57	< 1.65	< 1.59	< 1.46	< 206	< 0.88
09/09/16 – 09/26/16	< 1.62	< 1.44	< 1.62	< 1.55	< 232	< 0.74
10/04/16 – 10/26/16	< 1.20	< 1.20	< 1.35	< 1.28	< 195	< 0.82
11/03/16 – 11/30/16	< 1.35	< 1.36	< 1.48	< 1.42	< 237	< 0.93
12/09/16 – 12/28/16	< 1.74	< 1.64	< 1.85	< 1.61	< 204	< 0.56

Results in picoCuries per Liter (pCi/L)

* Samples are collected as a semi-annual grab sample

** Samples are collected as a weekly grab and composited for a monthly sample

New Jersey Department of Environmental Protection
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Salem/Hope Creek
Results of Analyses of Gamma Emitters and Tritium (H-3) in Surface Water

Delaware River – Near Plant Discharge Outfall Area – Salem NGS (AISW01)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/06/16	< 2.52	< 2.69	< 3.12	< 2.77	< 208	< 0.88
01/20/16	< 1.55	< 1.74	< 1.64	< 1.72	< 228	< 0.97
02/02/16	< 2.15	< 2.17	< 2.45	< 2.36	< 248	< 0.91
02/17/16	< 1.65	< 1.64	< 1.70	< 1.61	< 236	< 0.87
03/08/16	< 1.89	< 2.34	< 2.09	< 2.02	< 222	< 0.82
03/22/16	< 1.62	< 1.80	< 1.81	< 1.78	< 193	< 0.83
04/10/16	< 1.66	< 1.81	< 1.74	< 1.74	2,980 ± 617[8]	< 0.87
04/21/16	< 1.78	< 1.83	< 2.06	< 2.05	2,340 ± 500[8]	< 0.74
05/03/16	< 1.35	< 1.40	< 1.51	< 1.47	< 245	< 0.80
05/17/16	< 2.02	< 2.26	< 2.27	< 1.96	< 293	< 0.45
06/06/16	< 1.57	< 1.69	< 1.81	< 1.72	< 221	< 0.75
06/25/16	< 1.88	< 2.31	< 2.38	< 2.17	< 223	< 0.85
07/08/16	< 2.49	< 2.77	< 2.93	< 2.63	< 223	< 0.62
07/20/16	< 1.79	< 1.94	< 1.90	< 1.87	< 230	< 0.74
08/03/16	< 1.53	< 1.44	< 1.68	< 1.96	1,040 ± 256[8]	< 0.86
08/19/16	< 1.25	< 1.30	< 1.41	< 1.42	< 237	< 0.84
09/07/16	< 1.42	< 1.63	< 1.59	< 1.57	< 259	< 0.93
09/23/16	< 1.16	< 1.37	< 1.33	< 1.15	< 263	< 0.80
10/06/16	< 1.27	< 1.33	< 1.58	< 1.37	< 234	< 0.58
10/21/16	< 1.22	< 1.53	< 1.57	< 1.55	< 241	< 0.90
11/07/16	< 1.50	< 1.30	< 1.35	< 1.17	< 206	< 0.92
11/23/16	< 1.41	< 1.39	< 1.40	< 1.24	< 211	< 0.77
12/06/16	< 1.40	< 1.45	< 1.65	< 1.68	< 218	< 0.81
12/19/16	< 1.54	< 1.94	< 1.62	< 1.41	< 199	< 0.71

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations total measurement uncertainty

[8] The Plant Discharge Outfall Area (AISW01) is in the vicinity of where liquid radioactive effluents from the Salem Station are discharged into the Delaware River. The Salem station releases liquid effluent on a routine basis below limits set forth in Federal Guidance 10CFR20, Appendix B. The New Jersey Surface Water Quality Standard for tritium is 20,000 pCi/L. The readings of 2,980 pCi/L, 2,340 pCi/L, and 1,040 pCi/L are approximately 15, 12, and 5 percent respectively of the applicable limit.

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Salem/Hope Creek
Results of Analyses of Gamma Emitters and Tritium (H-3) in Surface Water

West Bank – Delaware River (AISW02)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/06/16	< 1.80	< 2.17	< 1.86	< 1.88	< 210	< 0.86
01/20/16	< 1.54	< 1.86	< 1.89	< 1.91	< 224	< 0.87
02/02/16	< 1.80	< 2.09	< 2.09	< 1.88	< 237	< 0.86
02/17/16	< 1.60	< 1.77	< 1.78	< 1.76	< 229	< 0.86
03/08/16	< 1.57	< 1.82	< 1.74	< 1.74	< 223	< 0.83
03/22/16	< 1.72	< 1.63	< 1.89	< 1.81	< 191	< 0.78
04/10/16	< 2.24	< 2.12	< 2.75	< 2.54	< 279	< 0.84
04/21/16	< 1.59	< 1.72	< 1.66	< 1.67	< 213	< 0.57
05/03/16	< 1.59	< 1.73	< 1.74	< 1.77	< 244	< 0.91
05/17/16	< 1.61	< 1.70	< 1.71	< 1.67	< 283	< 0.44
06/06/16	< 1.72	< 1.82	< 1.77	< 2.19	< 224	< 0.83
06/25/16	< 2.02	< 1.75	< 2.20	< 2.04	< 224	< 0.84
07/08/16	< 1.62	< 1.50	< 1.58	< 1.53	< 222	< 0.58
07/20/16	< 1.68	< 1.82	< 1.67	< 1.79	< 233	< 0.58
08/03/16	< 1.69	< 1.73	< 1.83	< 1.89	< 195	< 0.87
08/19/16	< 1.28	< 1.32	< 1.36	< 1.42	< 232	< 0.82
09/07/16	< 1.63	< 1.86	< 1.96	< 1.80	< 262	< 0.92
09/23/16	< 1.18	< 1.16	< 1.26	< 1.15	< 252	< 0.87
10/06/16	< 1.68	< 1.64	< 1.66	< 1.63	< 233	< 0.56
10/21/16	< 1.52	< 1.47	< 1.51	< 1.41	< 239	< 0.83
11/07/16	< 1.86	< 1.71	< 1.91	< 1.96	< 202	< 0.92
11/23/16	< 1.40	< 1.38	< 1.57	< 1.43	< 208	< 0.75
12/06/16	< 1.42	< 1.84	< 1.66	< 1.58	< 212	< 0.86
12/19/16	< 1.78	< 1.89	< 1.89	< 2.14	< 197	< 0.58

Results in picoCuries per Liter (pCi/L

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Salem/Hope Creek
Results of Analyses of Gamma Emitters and Tritium (H-3) in Surface Water

Delaware River - One Mile West of Mad Horse Creek (AISW03)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/06/16	< 1.71	< 1.65	< 1.87	< 1.73	< 210	< 0.77
01/20/16	< 2.03	< 2.07	< 2.40	< 2.03	< 228	< 0.86
02/02/16	< 2.06	< 2.36	< 2.43	< 2.18	< 246	< 0.87
02/17/16	< 1.67	< 2.30	< 2.44	< 2.05	< 235	< 0.79
03/08/16	< 1.68	< 1.84	< 1.67	< 1.79	< 224	< 0.83
03/22/16	< 2.18	< 2.36	< 2.08	< 2.26	< 215	< 0.83
04/10/16	< 1.92	< 2.39	< 2.29	< 2.28	< 270	< 0.82
04/21/16	< 1.61	< 2.13	< 1.97	< 1.75	< 204	< 0.99
05/03/16	< 1.47	< 1.52	< 1.59	< 1.51	< 257	< 0.83
05/17/16	< 1.89	< 2.07	< 1.84	< 2.00	< 287	< 0.68
06/06/16	< 2.04	< 2.06	< 2.25	< 2.15	< 218	< 0.91
06/25/16	< 2.29	< 2.81	< 2.52	< 2.72	< 221	< 0.79
07/08/16	< 2.63	< 2.53	< 2.68	< 2.73	< 231	< 0.56
07/20/16	< 1.85	< 2.05	< 2.17	< 2.09	< 232	< 0.82
08/03/16	< 1.43	< 1.32	< 1.53	< 1.49	< 195	< 0.87
08/19/16	< 1.31	< 1.36	< 1.42	< 1.39	< 232	< 0.84
09/07/16	< 1.62	< 1.73	< 1.68	< 1.71	< 257	< 0.88
09/23/16	< 1.14	< 1.47	< 1.46	< 1.40	< 269	< 0.86
10/06/16	< 1.18	< 1.43	< 1.53	< 1.33	< 237	< 0.77
10/21/16	< 1.70	< 1.55	< 1.56	< 1.60	< 233	< 0.80
11/07/16	< 1.28	< 1.27	< 1.28	< 1.32	< 202	< 0.96
11/23/16	< 1.40	< 1.25	< 1.43	< 1.92	< 210	< 0.90
12/06/16	< 1.37	< 1.37	< 1.62	< 1.60	< 218	< 0.86
12/19/16	< 1.36	< 1.12	< 1.36	< 1.22	< 207	< 0.81

Results in picoCuries per Liter (pCi/L)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Results of Analyses of Gamma Emitters and Tritium (H-3) in Well Water

Oyster Creek Administration Building Onsite (OCWW01)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/27/16	< 2.07	< 2.22	< 2.14	< 2.13	< 199	< 0.74
04/26/16	< 2.03	< 2.23	< 2.25	< 2.30	< 207	< 0.73
07/20/16	< 1.58	< 1.77	< 1.86	< 1.72	< 257	< 0.83
10/20/16	< 1.52	< 1.80	< 1.96	< 1.74	< 215	< 0.90

Forked River Marina (OCWW02)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/27/16	< 1.96	< 1.84	< 1.79	< 1.96	< 198	< 0.87
05/04/16	< 1.45	< 1.92	< 1.78	< 1.75	< 246	< 0.81
07/20/16	< 2.22	< 1.80	< 2.16	< 2.14	< 256	< 0.89
10/20/16	< 1.45	< 1.66	< 1.54	< 1.41	< 217	< 0.88

Lacey MUA Pumping Station (OCWW03)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/27/16	< 1.77	< 1.80	< 1.83	< 1.60	< 200	< 0.88
04/27/16	< 1.89	< 2.14	< 2.06	< 2.05	< 203	< 0.65
07/20/16	< 1.56	< 1.78	< 1.93	< 1.84	< 264	< 0.88
10/20/16	< 1.43	< 1.71	< 1.69	< 1.53	< 216	< 0.91

Ocean Township MUA Pumping Station (OCWW04)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/27/16	< 1.62	< 1.64	< 1.90	< 2.31	< 198	< 0.73
04/27/16	< 1.64	< 1.75	< 1.73	< 2.22	< 205	< 0.84
07/20/16	< 2.05	< 1.90	< 2.16	< 1.93	< 243	< 0.85
10/20/16	< 1.52	< 1.65	< 1.84	< 1.84	< 218	< 0.87

Results in picoCuries per Liter (pCi/L)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Salem/Hope Creek
Results of Analyses of Gamma Emitters and Tritium (H-3) in Well Water

Elsinboro School (AIWW01)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/27/16	< 1.70	< 1.60	< 1.80	< 1.85	< 202	< 0.90
04/27/16	< 1.50	< 1.45	< 1.64	< 1.51	< 207	< 0.51
07/20/16	< 1.61	< 1.67	< 1.71	< 1.83	< 268	< 0.89
10/20/16	< 1.43	< 1.52	< 1.66	< 2.09	< 219	< 0.89

Lower Alloways Creek Police Station (AIWW02)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/27/16	< 1.79	< 1.84	< 1.78	< 1.79	< 205	< 0.74
04/27/16	< 1.70	< 1.87	< 1.88	< 1.73	< 204	< 0.87
07/20/16	< 1.74	< 1.62	< 1.75	< 1.71	< 261	< 0.83
10/20/16	< 1.77	< 1.81	< 1.99	< 1.73	< 221	< 0.91

Salem Processing Center (AIWW03)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
02/02/16	< 1.72	< 1.73	< 1.87	< 2.01	< 237	< 0.86
04/27/16	< 1.88	< 1.87	< 2.07	< 1.82	< 200	< 0.68
07/20/16	< 1.58	< 1.78	< 1.87	< 1.72	< 254	< 0.88
10/20/16	< 1.38	< 1.40	< 1.50	< 1.41	< 208	< 0.89

Lower Alloways Creek School (AIWW04)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/27/16	< 2.13	< 2.18	< 2.24	< 2.18	< 203	< 0.88
04/27/16	< 1.73	< 1.78	< 1.74	< 1.56	< 205	< 0.77
07/20/16	< 1.59	< 1.69	< 1.68	< 1.64	< 261	< 0.89
10/20/16	< 1.36	< 1.37	< 1.55	< 1.57	< 219	< 0.85

City of Salem Water & Sewage Department (AIWW05)

Collection Date	Co-58	Co-60	Cs-134	Cs-137	H-3	I-131
01/27/16	< 2.16	< 2.37	< 2.34	< 2.22	< 194	< 0.91
04/27/16	< 1.42	< 1.53	< 1.59	< 1.51	< 204	< 0.74
07/20/16	< 1.86	< 1.82	< 2.08	< 1.96	< 248	< 0.86
10/20/16	< 1.39	< 1.41	< 1.58	< 1.41	< 215	< 0.88

Results in picoCuries per Liter (pCi/L)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

BNE Background Location
Thermoluminescent Dosimetry Data
Quarterly Results

		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
CO01	BNE Office, Arctic Parkway, Ewing, NJ	11.7	5.3	10.9	4.0	13.6	5.2	19.7	3.2
CO02	Brendan T. Byrne State Forest, New Lisbon, NJ	8.2	9.2	7.8	6.3	7.4	4.3	14.5	1.9

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean and is normally reported as a percentage.

All exposures were normalized to 90 days (a standard quarter)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Thermoluminescent Dosimetry Data
Quarterly Results

		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
1	Ocean County Vocational School	7.5	9.6	8.2	6.5	7.7	1.7	12.6	7.9
2	Ocean Twp. Municipal Building	11.0	9.1	9.2	2.8	8.5	3.7	14.9	3.4
3	Sewage Pumping Station, Forked River	8.9	8.0	9.9	0.3	8.0	6.8	14.9	0.8
4	Twin River Station, Forked River	7.6	5.4	7.3	4.5	9.1	6.4	13.2	3.9
5	Sewage Pumping Station, Ocean Twp.	8.3	2.3	9.0	2.9	11.4	4.0	14.0	2.3
6	Oyster Creek, Gate #2, Forked River	8.5	4.6	9.7	6.5	12.9	6.5	14.8	1.8
7	Finninger Farm, Forked River	7.3	2.7	8.3	6.5	10.0	4.3	12.4	2.9
8	Ocean Co. Memorial Cemetery, Waretown	7.2	3.3	8.6	3.3	10.0	4.3	12.6	2.1
9	Oyster Creek Building 17, Forked River	8.0	4.4	9.9	2.3	9.1	*	12.9	5.7
10	Sheffield & Derby Rd, Forked River	7.9	5.1	9.1	2.1	9.7	13.7	13.0	2.9
11	Lakeside Drive, Forked River	8.3	6.8	10.0	4.2	9.6	4.5	14.1	3.0
12	Forked River Game Farm, Forked River	8.7	5.0	9.4	7.0	11.0	4.9	12.8	4.6

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean and is normally reported as a percentage.

All exposures were normalized to 90 days (a standard quarter)

* CV cannot be determined from one (1) element

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Thermoluminescent Dosimetry Data
Quarterly Results

		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
13	Restrooms, Lakeside Dr., Forked River	8.4	1.4	8.6	4.5	10.3	6.4	12.0	3.7
14	Sands Pt. Park, Dock Ave., Waretown	9.4	6.9	10.2	2.2	11.9	1.6	13.8	2.4
15	Recreation Center, Waretown	6.0	5.1	9.3	1.9	9.7	5.3	11.7	10.8
16	North Access Rd., Forked River	9.6	3.3	12.5	5.4	12.1	3.5	11.9	5.0
20	Third Avenue, Barnegat Light	7.4	**	8.1	3.6	8.4	5.9	11.9	1.4
21	Rose Hill Road & Barnegat Blvd	7.8	1.6	9.8	4.0	9.2	3.7	11.6	3.8
22	Bay Way & Clairmore Avenue	8.1	**	10.3	3.2	9.4	7.9	11.5	6.7
23	Island Beach State Park, Parking Lot A5	6.9	2.4	9.1	1.9	7.4	**	10.3	2.7
24	Forked River Site Access Rd. (N)*	10.1	6.3	13.3	4.2	10.7	9.6	15.0	5.2
25	Forked River Site Access Rd. (NNW)*	11.5	1.9	16.9	7.7	13.1	6.4	16.4	9.6
26	Forked River Site Access Rd. (NW)*	11.4	1.5	15.4	3.6	13.1	2.3	14.0	2.0
27	Southern Area Stores Fence, FR Site*	13.4	6.1	23.8	2.4	17.8	5.7	19.5	3.8

Results are reported in units of milliroentgens (mR).

CV is the coefficient of variation; the ratio of the standard deviation to the mean and is normally reported as a percentage.

All exposures were normalized to 90 days (a standard quarter).

* TLD Stations 24 through 27 were added to the ESMP during 2016. Initial deployment was during the first quarter of 2016.

** CV cannot be determined from one (1) element

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Thermoluminescent Dosimetry Data
Quarterly Results

		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
28	Southern Area Stores, FR Site (WSW)*	12.3	16.5	23.5	10.8	16.7	2.5	18.8	1.9
29	Southern Area Stores Access Rd (SSW)*	8.0	9.1	17.5	2.0	12.6	1.3	13.8	4.8
30	Southern Area Stores Access Road (S)*	8.5	6.6	17.5	1.1	11.5	8.9	14.1	2.9
31	Southern Area Stores Access Road (SSE)*	7.9	20.3	13.9	1.5	10.9	6.0	14.1	6.2
32	U.S. Route 9 (ESE) Forked River., NJ*	5.5	2.7	10.3	6.2	7.7	5.9	11.6	3.4
33	U.S. Route 9 (NE) Forked River, NJ*	5.7	3.8	10.1	3.3	7.4	1.6	11.9	4.5
34	Garden St Pkwy Svc. Forked River, NJ*	6.4	9.2	11.5	5.6	8.6	7.6	12.7	4.1
35	U.S. Route 9 & Harbor Inn Rd, Bayville, NJ*	7.9	17.5	11.3	3.8	8.4	1.5	12.0	4.5
36	Orlando Dr. & Penguin Ct., Forked River, NJ*	8.8	9.4	10.4	3.9	**	**	11.5	5.1
37	Bay Pkwy, Sands Point, Waretown, NJ*	8.3	4.9	9.5	7.1	9.8	3.3	10.8	3.4
38	Hightide & Bonita Dr., Waretown, NJ*	9.8	3.6	11.7	3.8	10.0	1.7	12.8	2.1
39	Brook & School St. Barnegat, NJ*	8.5	13.9	10.9	2.1	9.2	2.0	11.9	9.6

Results are reported in units of milliroentgens (mR).

CV is the coefficient of variation; the ratio of the standard deviation to the mean and is normally reported as a percentage.

All exposures were normalized to 90 days (a standard quarter).

* TLD Stations 28 through 39 were added to the ESMP during 2016. Initial deployment was during the first quarter of 2016.

** TLD badges were lost

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek
Thermoluminescent Dosimetry Data
Quarterly Results

		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
40	County Rt. 554, Barnegat, NJ*	8.7	5.2	10.0	1.9	9.3	**	12.9	2.2
41	County Rt. 532, Waretown, NJ*	6.5	13.6	7.7	11.7	9.8	2.2	11.2	4.9
42	Lacey Rd. WEST, Forked River, NJ*	7.3	2.3	11.6	7.3	12.7	10.0	13.1	2.4
43	U.S. Route 9 (E) Forked River, NJ*	7.8	14.7	10.2	14.3	11.5	3.9	12.3	4.4

Results are reported in units of milliroentgens (mR).

CV is the coefficient of variation; the ratio of the standard deviation to the mean and is normally reported as a percentage.

All exposures were normalized to 90 days (a standard quarter)

* TLD Stations 40 through 43 were added to the ESMP during 2016. Initial deployment was during the first quarter of 2016.

** CV cannot be determined from one (1) element

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Salem/Hope Creek
Thermoluminescent Dosimetry Data
Quarterly Results

		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
1	Access Road – Security Checkpoint	10.4	2.2	7.9	0.5	11.8	5.1	11.9	6.8
2	Poplar Road, Lower Alloways	10.4	7.0	9.7	3.7	12.8	3.4	12.7	6.4
3	Money and Eagle Island Road	11.5	1.6	10.5	4.9	13.5	5.8	13.6	6.5
4	Ft. Elfsborg / Hancocks – East	12.2	1.0	10.0	6.9	14.5	6.6	13.9	2.5
5	Ft. Elfsborg / Hancocks – West	13.2	6.8	15.9	**	18.7	2.1	21.8	8.0
6	Stathems Neck Road	11.1	3.2	5.0	2.5	13.0	2.7	16.7	3.2
7	Stow Neck Road Lower Alloways	9.3	4.1	3.5	15.4	10.4	4.3	14.0	1.8
8	Alloways Creek Neck Road - Middle	9.0	2.7	2.4	12.9	11.0	2.7	14.9	1.4
9	Alloways Creek Neck Road - North	12.0	3.0	9.2	6.7	15.1	3.4	19.3	2.6
10	Abbotts Farm Road	9.0	**	6.8	4.4	9.6	3.6	14.7	1.0
11	PSEG Education Center/EOF	8.7	2.6	8.5	5.6	11.2	3.0	17.6	2.3

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean and is normally reported as a percentage.

All exposures were normalized to 90 days (a standard quarter).

** CV cannot be determined from one (1) element

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Salem/Hope Creek
Thermoluminescent Dosimetry Data
Quarterly Results

		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
12	Onsite Access Rd N Sector*	10.5	11.4	13.0	8.6	14.0	4.4	19.5	2.8
13	Onsite Laydown Area - NNE Sector*	8.7	3.8	11.4	2.6	9.9	4.4	18.2	3.5
14	Onsite Utility Pole NE Sector*	7.8	16.6	11.1	6.6	10.1	2.0	16.0	1.3
15	Onsite Hope Creek Road – ENE Sector*	9.6	1.0	12.6	2.9	10.0	5.7	16.8	3.2
16	Onsite Parking Lot ESE Sector*	11.6	9.0	14.8	12.2	12.0	4.6	20.4	6.7
18	Bayside Road Bayside, NJ*	10.7	3.6	12.3	2.8	8.6	4.4	17.2	1.3

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean and is normally reported as a percentage.

All exposures were normalized to 90 days (a standard quarter).

* TLD Stations 12 through 16 and Station 18 were added to the ESMP during 2016. Initial deployment was during the first quarter of 2016. Station 17 has currently not been established.

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Comparison of NJDEP and Mirion Technologies Thermoluminescent Dosimetry Data for Oyster Creek

Quarterly Results for Co-located Dosimeters

		1st Quarter				2nd Quarter				3rd Quarter				4th Quarter			
		NJDEP		Global		NJDEP		Global		NJDEP		Global		NJDEP		Global	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
5	Sewage Pump. Station, Ocean Township	8.3	2.3	10.9	6.5	9.0	2.9	10.1	0.0	11.4	4.0	10.7	3.5	14.0	2.3	10.3	2.6
7	Finninger Farm,OCNGS Forked River	7.3	2.7	9.6	8.7	8.3	6.5	8.6	4.1	10.0	4.3	9.3	6.1	12.4	2.9	8.8	3.6
13	Restrooms, Lakeside Dr. Forked River	8.4	1.4	9.5	2.6	8.6	4.5	9.1	0.0	10.3	6.4	10.0	4.5	12.0	3.7	10.0	5.4
21	Rose Hill and Barnegat Rd Barnegat Twp.	7.8	1.6	10.0	4.6	9.8	4.0	9.9	2.8	9.2	3.7	10.4	3.8	11.6	3.8	9.6	2.7

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage

All exposures were normalized to 90 days (a standard quarter)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Comparison of NJDEP and Mirion Technologies Thermoluminescent Dosimetry Data for Salem/Hope Creek

Quarterly Results for Co-located Dosimeters

		1st Quarter				2nd Quarter				3rd Quarter				4th Quarter			
		NJDEP		Global		NJDEP		Global		NJDEP		Global		NJDEP		Global	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
1	Access Road – Security Checkpoint	10.4	2.2	10.8	6.6	7.9	0.5	9.9	5.1	11.8	5.1	11.8	2.6	11.9	6.8	11.7	3.0
2	Poplar Road, Lower Alloways	10.4	7.0	12.4	7.9	9.7	3.7	11.0	4.4	12.8	3.4	12.5	5.1	12.7	6.4	12.0	2.9
3	Money and Eagle Island Roads	11.5	1.6	12.2	4.5	10.5	4.9	13.0	3.5	13.5	5.8	13.7	2.9	13.6	6.5	13.7	2.8
5	Ft. Elfsborg/ Hancocks - West	13.2	6.8	15.8	3.5	15.9	**	15.8	2.0	18.7	2.1	17.8	3.5	21.8	8.0	17.5	2.3

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage

All exposures were normalized to 90 days (a standard quarter)

** CV cannot be determined from one (1) element

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Comparison of NJDEP and Mirion Technologies Thermoluminescent Dosimetry for Salem/Hope Creek

Quarterly Results for Co-located Dosimeters

		1st Quarter				2nd Quarter				3rd Quarter				4th Quarter			
		NJDEP		Global		NJDEP		Global		NJDEP		Global		NJDEP		Global	
Station	**Location**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**	**Result**	**%CV**
7	Stow Neck Road-Lower Alloways	9.3	4.1	10.1	4.2	3.5	15.4	9.2	2.9	10.4	4.3	10.7	3.5	14.0	1.8	11.0	4.9
9	Alloways Creek Neck Road - North	12.0	3.0	11.9	2.6	9.2	6.7	12.4	5.1	15.1	3.4	13.8	5.5	19.3	2.6	13.4	2.1
11	PSEG Ed. Center/EOF Salem City	8.7	2.6	11.3	3.7	8.5	5.6	11.9	4.5	11.2	3.0	12.8	2.4	17.6	2.3	12.8	3.0

Results are reported in units of milliroentgens (mR)

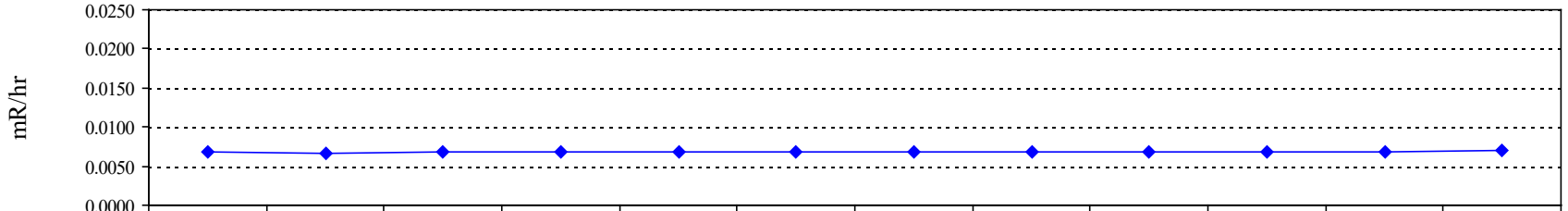
CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage

All exposures were normalized to 90 days (a standard quarter)

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

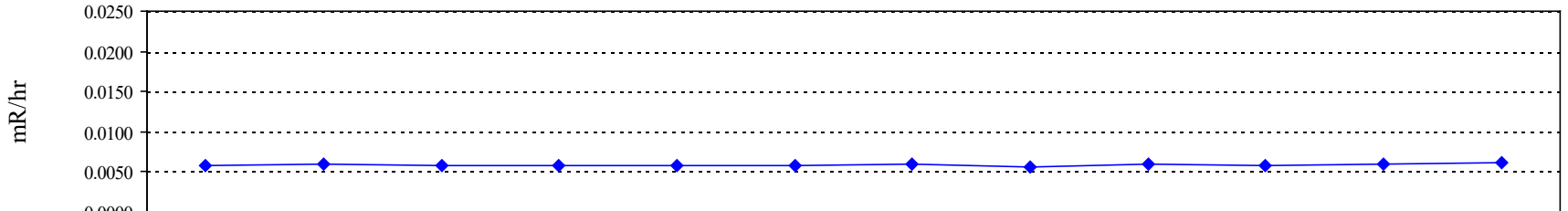
OC 1
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-1	0.0068	0.0067	0.0068	0.0068	0.0068	0.0068	0.0069	0.0068	0.0068	0.0068	0.0069	0.0071

Month

OC 2
2016 Ambient Radiation Levels



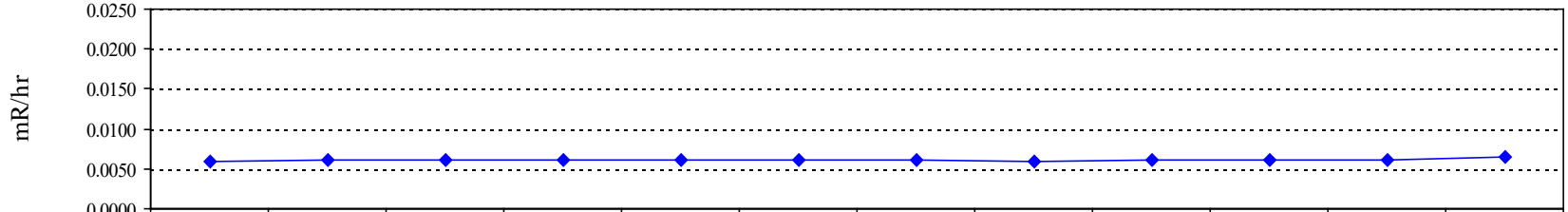
	January	February	March	April	May	June	July	August	September	October	November	December
OC-2	0.0058	0.0059	0.0058	0.0058	0.0058	0.0058	0.0059	0.0057	0.0059	0.0058	0.0059	0.0061

Month

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

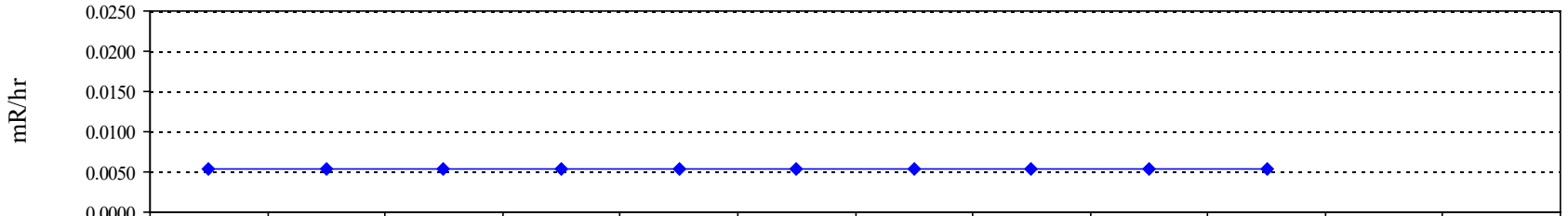
OC 3
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-3	0.0060	0.0061	0.0061	0.0061	0.0061	0.0061	0.0062	0.0060	0.0061	0.0061	0.0062	0.0064

Month

OC 04
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-4	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0054	0.0053	0.0054	0.0053	No Data	No Data

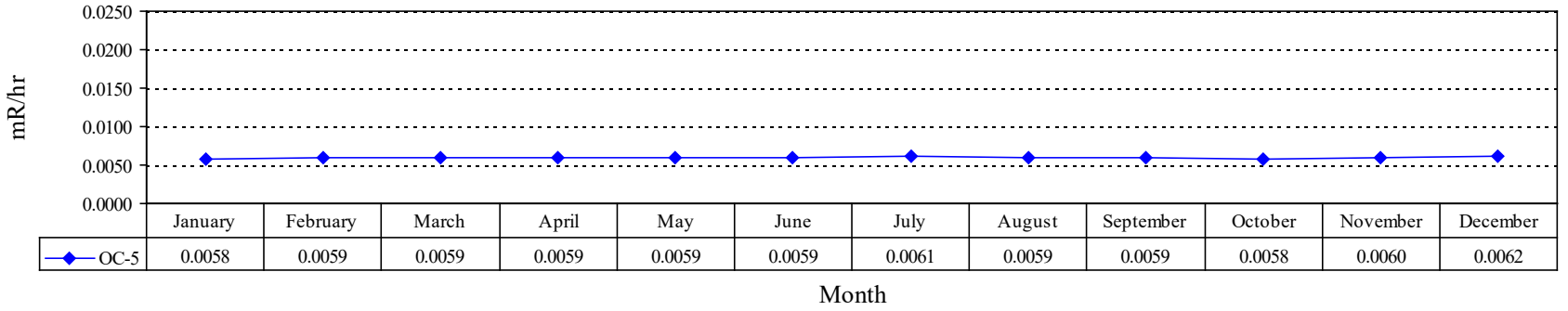
Month

Blank months indicate "No Data Available"

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

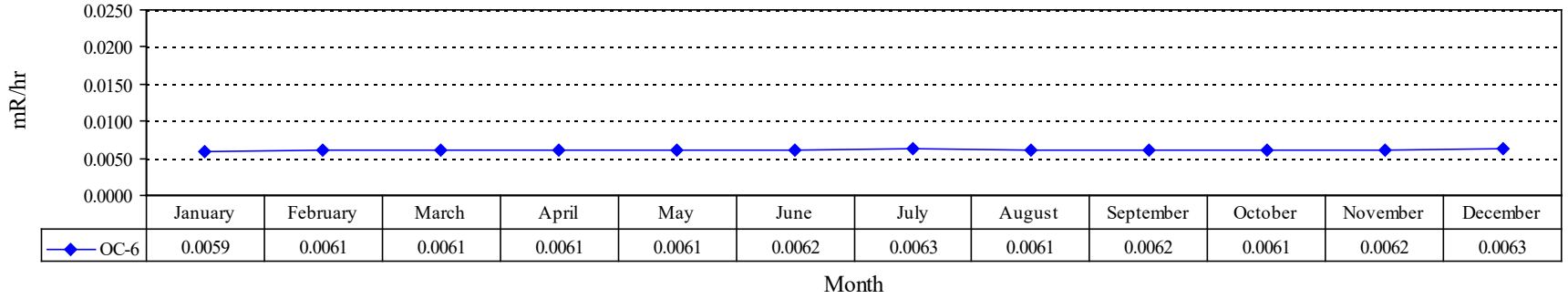
Oyster Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

OC 5
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-5	0.0058	0.0059	0.0059	0.0059	0.0059	0.0059	0.0061	0.0059	0.0059	0.0058	0.0060	0.0062

OC 6
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-6	0.0059	0.0061	0.0061	0.0061	0.0061	0.0062	0.0063	0.0061	0.0062	0.0061	0.0062	0.0063

New Jersey Department of Environmental Protection
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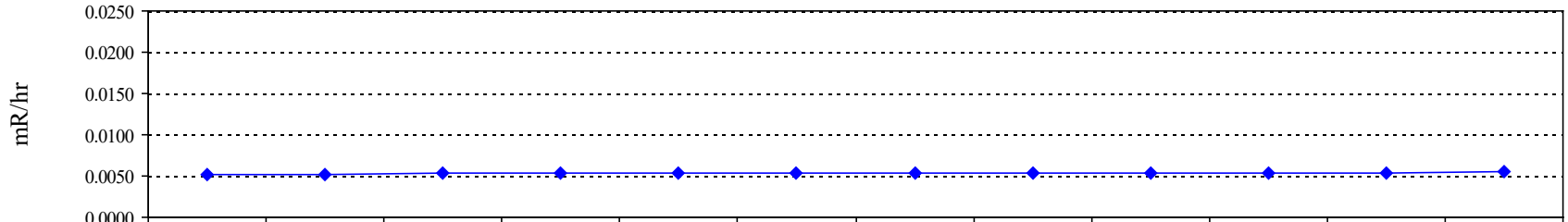
2016 Radiological Environmental Monitoring Program

Oyster Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

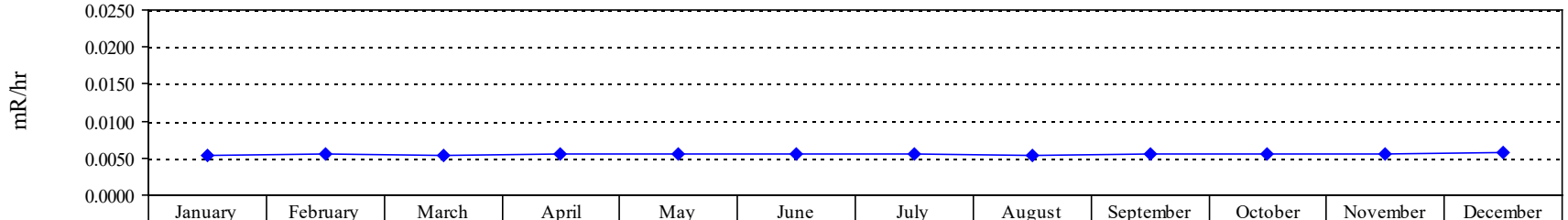
OC 7
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-7	0.0052	0.0052	0.0053	0.0053	0.0053	0.0054	0.0054	0.0053	0.0053	0.0053	0.0054	0.0055

Month

OC 8
2016 Ambient Radiation Levels



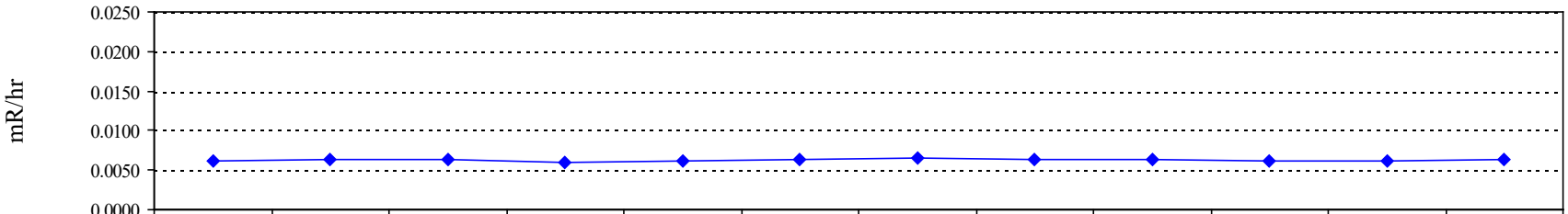
	January	February	March	April	May	June	July	August	September	October	November	December
OC-8	0.0054	0.0055	0.0054	0.0056	0.0055	0.0055	0.0055	0.0054	0.0055	0.0055	0.0056	0.0057

Month

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

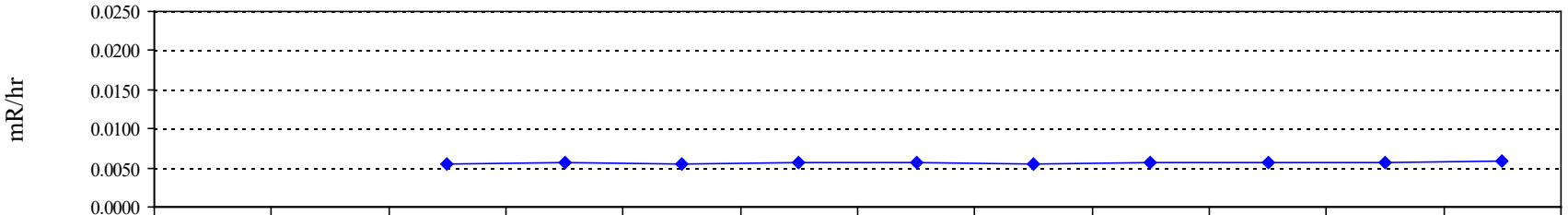
Oyster Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

OC 9
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-09	0.0061	0.0063	0.0063	0.0060	0.0062	0.0064	0.0065	0.0064	0.0063	0.0061	0.0062	0.0064

OC 10
2016 Ambient Radiation Levels



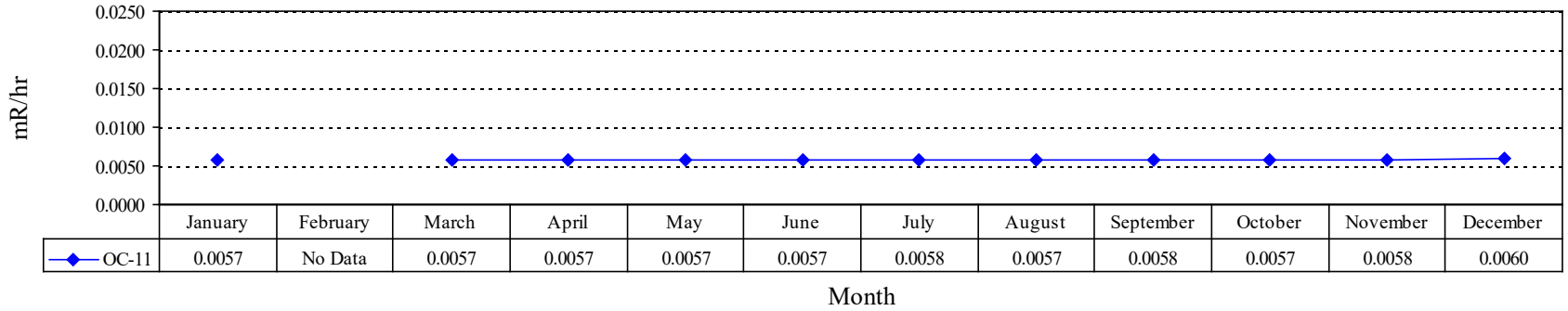
	January	February	March	April	May	June	July	August	September	October	November	December
OC-10	No Data	No Data	0.0055	0.0056	0.0055	0.0056	0.0057	0.0055	0.0056	0.0056	0.0057	0.0059

Blank months indicate "No Data Available"

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

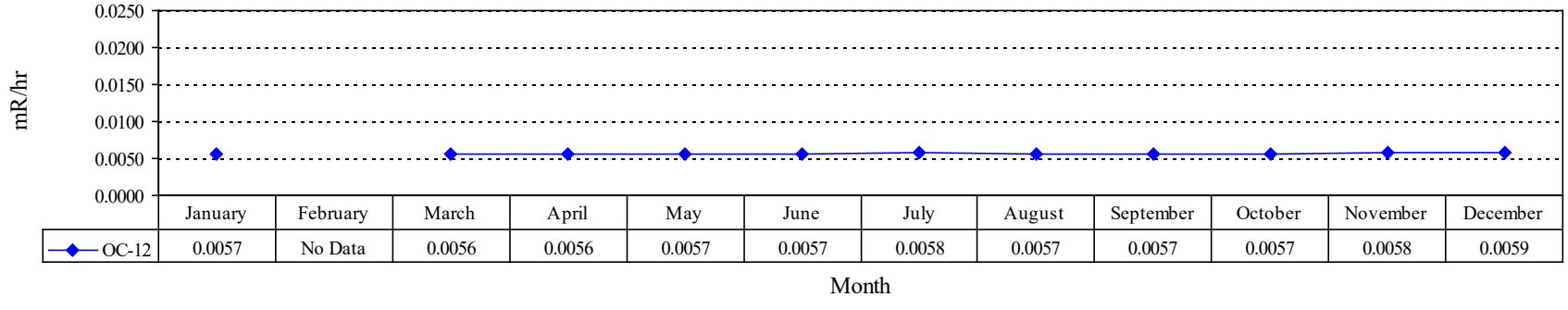
OC 11
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-11	0.0057	No Data	0.0057	0.0057	0.0057	0.0057	0.0058	0.0057	0.0058	0.0057	0.0058	0.0060

Month

OC 12
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-12	0.0057	No Data	0.0056	0.0056	0.0057	0.0057	0.0058	0.0057	0.0057	0.0057	0.0058	0.0059

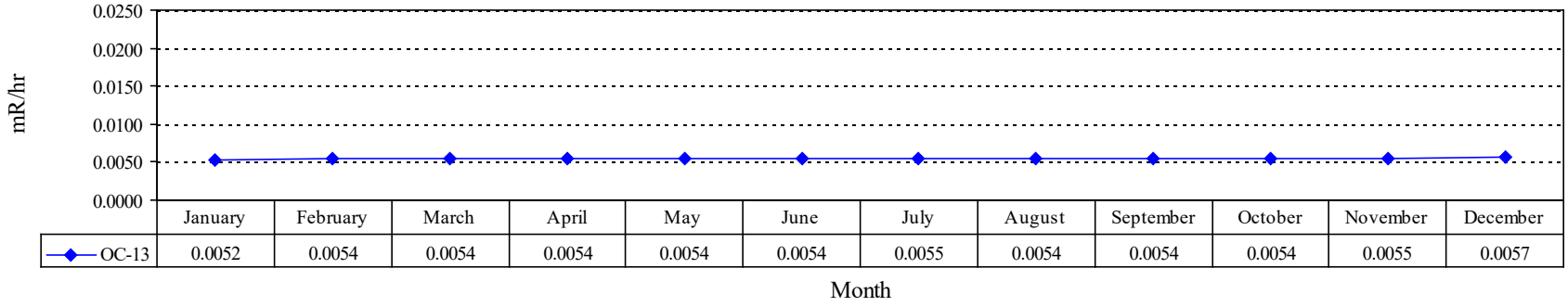
Month

Blank months indicate "No Data Available"

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

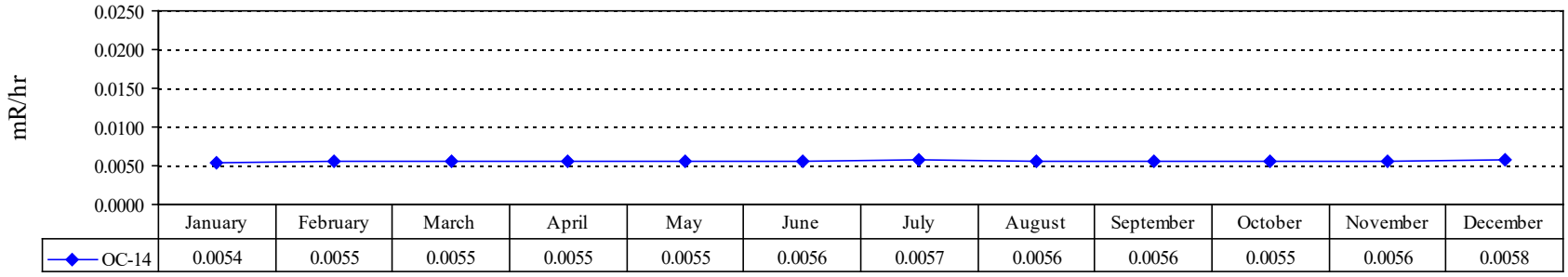
OC 13
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-13	0.0052	0.0054	0.0054	0.0054	0.0054	0.0054	0.0055	0.0054	0.0054	0.0054	0.0055	0.0057

Month

OC 14
2016 Ambient Radiation Levels



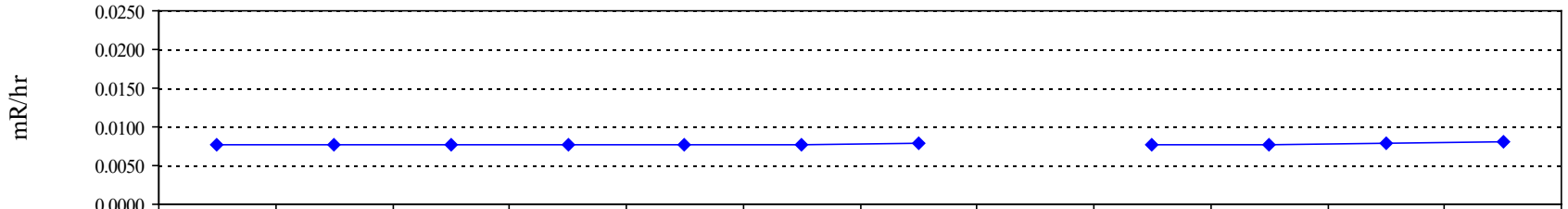
	January	February	March	April	May	June	July	August	September	October	November	December
OC-14	0.0054	0.0055	0.0055	0.0055	0.0055	0.0056	0.0057	0.0056	0.0056	0.0055	0.0056	0.0058

Month

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Oyster Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

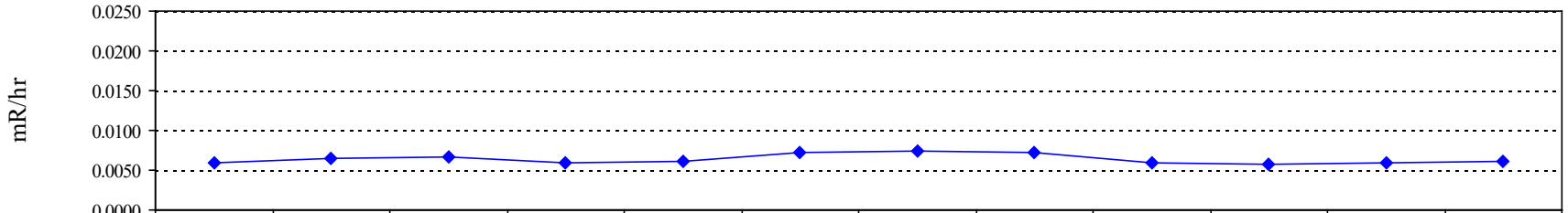
OC 15
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-15	0.0077	0.0077	0.0077	0.0077	0.0077	0.0077	0.0078	No Data	0.0077	0.0077	0.0078	0.0080

Month

OC 16
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
OC-16	0.0060	0.0065	0.0066	0.0060	0.0061	0.0072	0.0074	0.0072	0.0059	0.0057	0.0059	0.0062

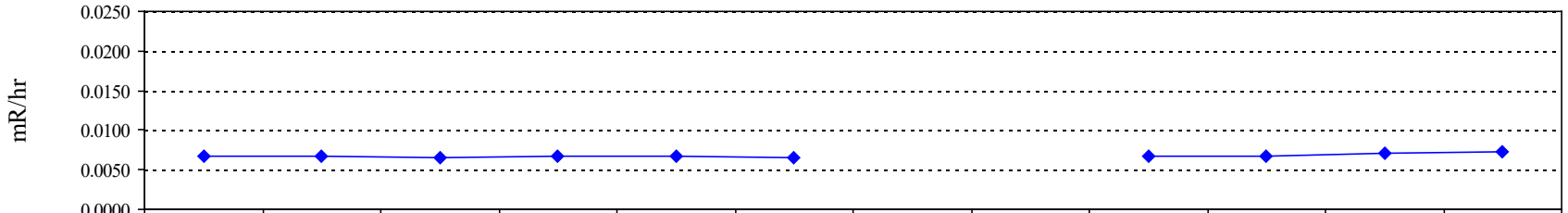
Month

Blank months indicate "No Data Available"

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Salem/Hope Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

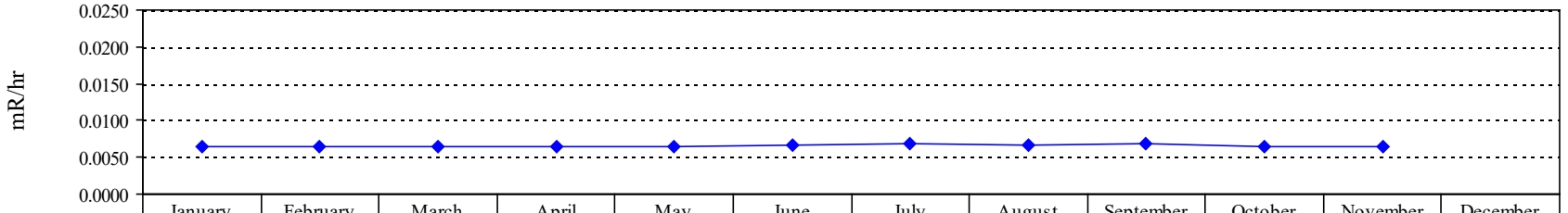
AI 1
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-1	0.0067	0.0067	0.0066	0.0067	0.0067	0.0065	No Data	No Data	0.0068	0.0067	0.0070	0.0072

Month

AI 2
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-2	0.0064	0.0064	0.0065	0.0065	0.0065	0.0067	0.0068	0.0066	0.0068	0.0065	0.0065	No Data

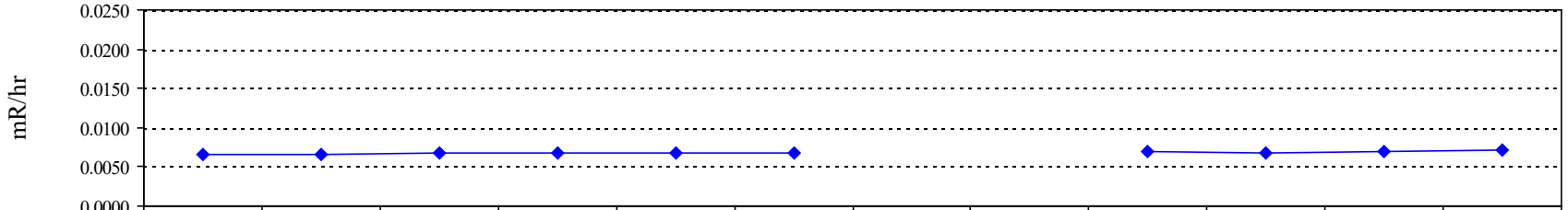
Month

Blank months indicate 'No Data Available'

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Salem/Hope Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

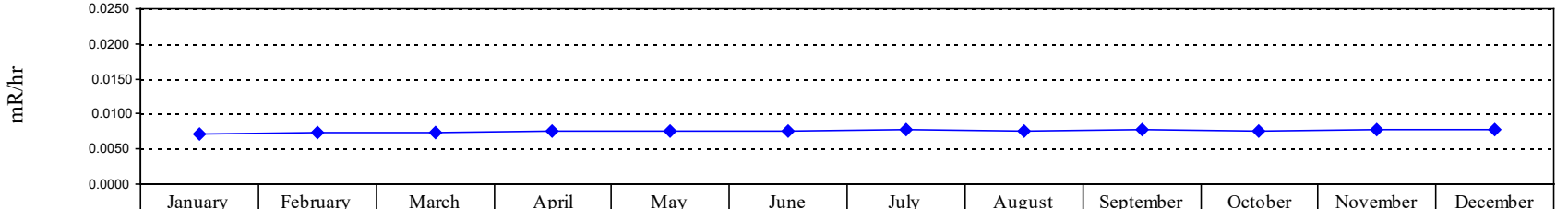
AI 3
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-3	0.0066	0.0066	0.0067	0.0068	0.0067	0.0067	No Data	No Data	0.0070	0.0068	0.0070	0.0071

Month

AI 4
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-4	0.0072	0.0073	0.0074	0.0076	0.0075	0.0076	0.0077	0.0076	0.0078	0.0075	0.0077	0.0078

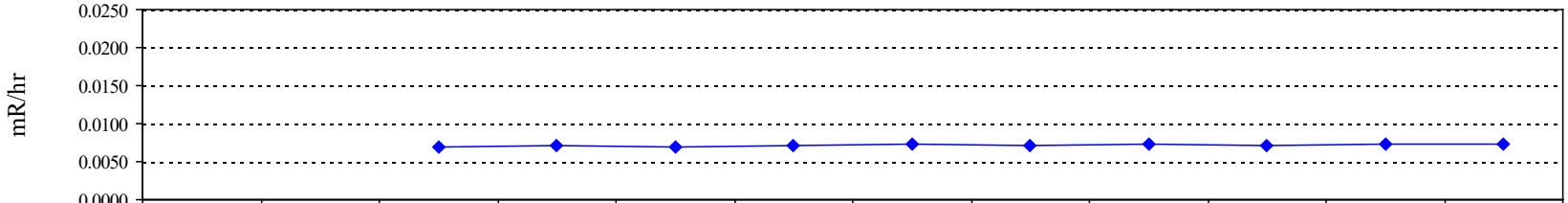
Month

Blank months indicate 'No Data Available'

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Salem/Hope Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

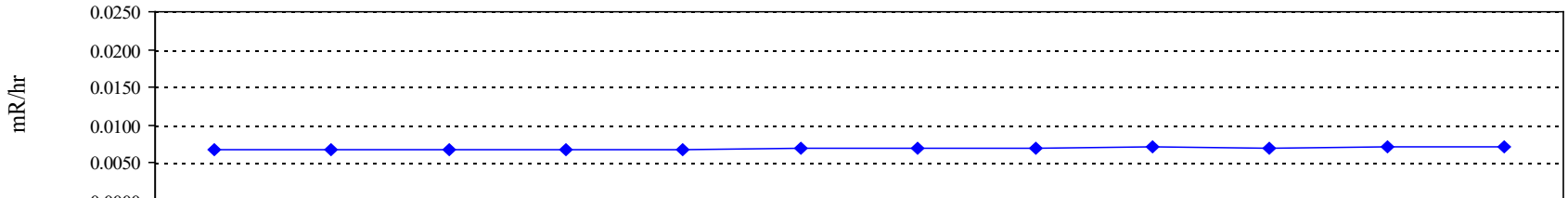
AI 5
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-5	No Data	No Data	0.0070	0.0071	0.0070	0.0071	0.0073	0.0072	0.0073	0.0071	0.0073	0.0074

Month

AI 6
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-06	0.0067	0.0068	0.0068	0.0068	0.0068	0.0069	0.0070	0.0070	0.0071	0.0069	0.0071	0.0072

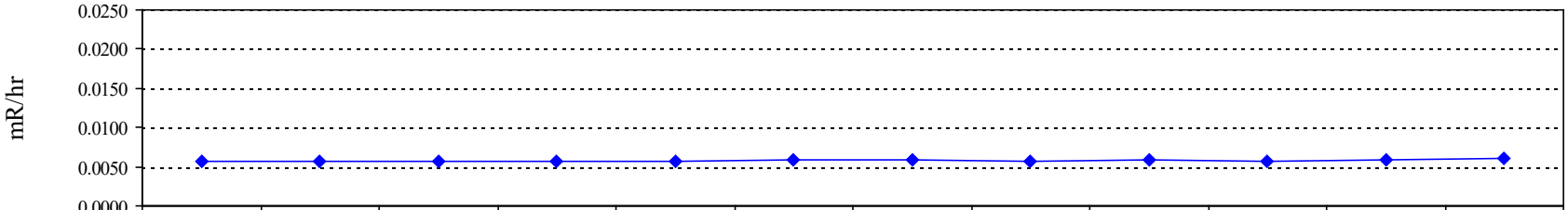
Month

Blank months indicate 'No Data Available'

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Salem/Hope Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

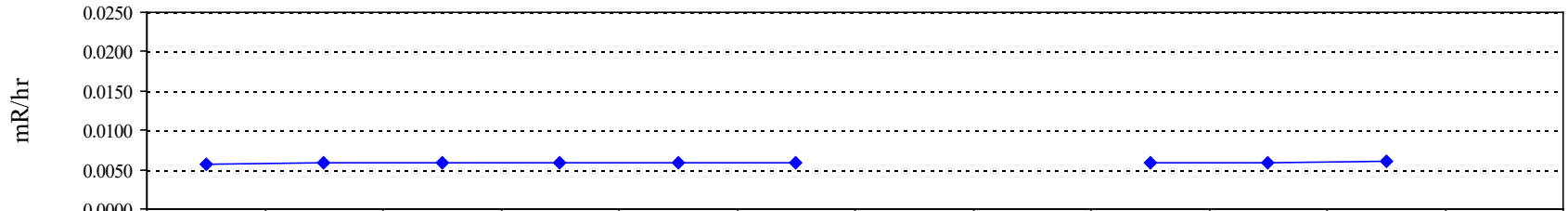
AI 7
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-7	0.0057	0.0057	0.0057	0.0057	0.0057	0.0058	0.0058	0.0057	0.0058	0.0057	0.0059	0.0061

Month

AI 8
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-8	0.0057	0.0059	0.0058	0.0058	0.0058	0.0058	No Data	No Data	0.0059	0.0058	0.0060	No Data

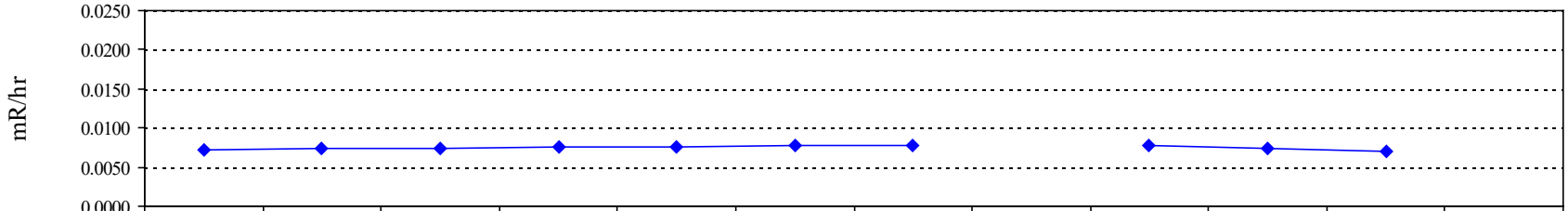
Month

Blank months indicate 'No Data Available'

New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2016 Radiological Environmental Monitoring Program

Salem/Hope Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

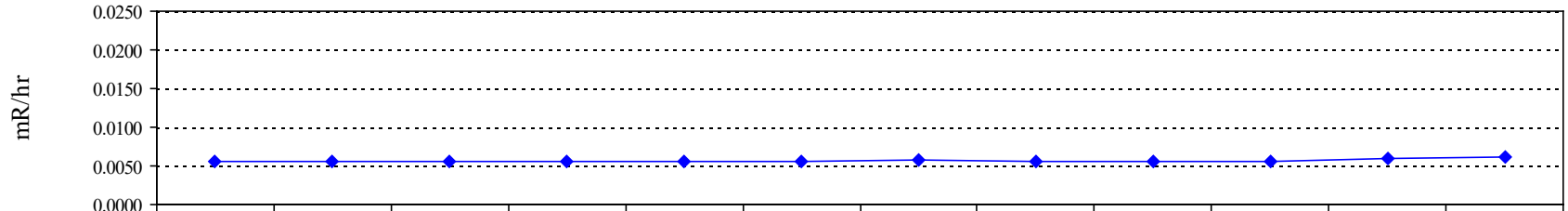
AI 9
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-9	0.0072	0.0074	0.0074	0.0075	0.0075	0.0077	0.0078	No Data	0.0077	0.0073	0.0070	No Data

Month

AI 10
2016 Ambient Radiation Levels



	January	February	March	April	May	June	July	August	September	October	November	December
AI-10	0.0056	0.0056	0.0056	0.0056	0.0056	0.0056	0.0058	0.0056	0.0056	0.0056	0.0059	0.0061

Month

Blank months indicate 'No Data Available'