

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

BNE Office (COAI01)

<u>Collection Period</u>			<u>I-131</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	< 0.010
01/20/15	-	02/03/15	< 0.007
02/03/15	-	02/18/15	< 0.015
02/18/15	-	03/03/15	< 0.015
03/03/15	-	03/17/15	< 0.019
03/17/15	-	03/31/15	< 0.008
03/31/15	-	04/13/15	< 0.010
04/13/15	-	04/27/15	< 0.012
04/27/15	-	05/12/15	< 0.009
05/12/15	-	05/26/15	< 0.007
05/26/15	-	06/09/15	< 0.007
06/09/15	-	06/23/15	< 0.009
06/23/15	-	07/07/15	< 0.010
07/07/15	-	07/21/15	< 0.010
07/21/15	-	08/04/15	< 0.010
08/04/15	-	08/19/15	< 0.008
08/19/15	-	09/01/15	< 0.014
09/01/15	-	09/15/15	< 0.015
09/15/16	-	09/29/15	< 0.012
09/29/15	-	10/13/15	< 0.009
10/13/15	-	10/26/15	< 0.012
10/26/15	-	11/09/15	< 0.011
11/09/15	-	11/23/15	< 0.014
11/23/15	-	12/08/15	< 0.008
12/08/15	-	12/22/15	< 0.008
12/22/15	-	01/05/16	< 0.007

Results in picoCuries per cubic meter (pCi/m³)

**New Jersey Department of Environmental Protection
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**BNE Background Locations
Results of Analyses for Iodine-131 in Bi-Weekly Air Samples**

Brendan T. Byrne State Forest (COAI02)

<u>Collection Period</u>			<u>I-131</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	< 0.010
01/20/15	-	02/03/15	< 0.011
02/03/15	-	02/18/15	< 0.012
02/18/15	-	03/03/15	< 0.008
03/03/15	-	03/17/15	< 0.015
03/17/15	-	03/31/15	< 0.006
03/31/15	-	04/13/15	< 0.007
04/13/15	-	04/27/15	< 0.017
04/27/15	-	05/11/15	< 0.012
05/11/15	-	05/26/15	< 0.008
05/26/15	-	06/09/15	< 0.011
06/09/15	-	06/23/15	< 0.014
06/23/15	-	07/07/15	< 0.015
07/07/15	-	07/21/15	< 0.006
07/21/15	-	08/04/15	< 0.009
08/04/15	-	08/19/15	< 0.011
08/19/15	-	09/01/15	< 0.007
09/01/15	-	09/15/15	< 0.012
09/15/16	-	09/29/15	< 0.009
09/29/15	-	10/13/15	< 0.009
10/13/15	-	10/26/15	< 0.007
10/26/15	-	11/09/15	< 0.006
11/09/15	-	11/23/15	< 0.013
11/23/15	-	12/08/15	< 0.012
12/08/15	-	12/22/15	< 0.008
12/22/15	-	01/05/16	< 0.007

Results in picoCuries per cubic meter (pCi/m³)

**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)

<u>Collection Period</u>			<u>I-131</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	< 0.011
01/20/15	-	02/03/15	< 0.015
02/03/15	-	02/18/15	< 0.013
02/18/15	-	03/03/15	< 0.011
03/03/15	-	03/17/15	< 0.015
03/17/15	-	03/31/15	< 0.006
03/31/15	-	04/13/15	< 0.026
04/13/15	-	04/27/15	< 0.009
04/27/15	-	05/11/15	< 0.011
05/11/15	-	05/26/15	< 0.009
05/26/15	-	06/09/15	< 0.010
06/09/15	-	06/23/15	< 0.015
06/23/15	-	07/07/15	< 0.012
07/07/15	-	07/21/15	< 0.006
07/21/15	-	08/04/15	< 0.007
08/04/15	-	08/19/15	< 0.011
08/19/15	-	09/01/15	< 0.011
09/01/15	-	09/15/15	< 0.012
09/15/16	-	09/29/15	< 0.009
09/29/15	-	10/13/15	< 0.006
10/13/15	-	10/26/15	< 0.008
10/26/15	-	11/09/15	< 0.009
11/09/15	-	11/23/15	< 0.016
11/23/15	-	12/08/15	< 0.007
12/08/15	-	12/22/15	< 0.005
12/22/15	-	01/05/16	< 0.014

Results in picoCuries per cubic meter (pCi/m³)

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

Sands Point Harbor (OCAI02)

<u>Collection Period</u>			<u>I-131</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	< 0.013
01/20/15	-	02/03/15	< 0.015
02/03/15	-	02/18/15	< 0.006
02/18/15	-	03/03/15	< 0.014
03/03/15	-	03/17/15	< 0.015
03/17/15	-	03/31/15	< 0.014
03/31/15	-	04/13/15	< 0.013
04/13/15	-	04/27/15	< 0.007
04/27/15	-	05/11/15	< 0.014
05/11/15	-	05/26/15	< 0.009
05/26/15	-	06/09/15	< 0.010
06/09/15	-	06/23/15	< 0.008
06/23/15	-	07/07/15	< 0.012
07/07/15	-	07/21/15	< 0.011
07/21/15	-	08/04/15	< 0.010
08/04/15	-	08/19/15	< 0.015
08/19/15	-	09/01/15	< 0.016
09/01/15	-	09/15/15	< 0.012
09/15/16	-	09/29/15	< 0.005
09/29/15	-	10/13/15	< 0.013
10/13/15	-	10/26/15	< 0.010
10/26/15	-	11/09/15	< 0.012
11/09/15	-	11/23/15	< 0.014
11/23/15	-	12/08/15	< 0.011
12/08/15	-	12/22/15	< 0.006
12/22/15	-	01/05/16	< 0.009

Results in picoCuries per cubic meter (pCi/m³)

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

Forked River Marina (OCAI03)

<u>Collection Period</u>			<u>I-131</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	< 0.007
01/20/15	-	02/03/15	< 0.008
02/03/15	-	02/18/15	< 0.013
02/18/15	-	03/03/15	< 0.021
03/03/15	-	03/17/15	< 0.011
03/17/15	-	03/31/15	< 0.011
03/31/15	-	04/13/15	< 0.014
04/13/15	-	04/27/15	< 0.011
04/27/15	-	05/11/15	< 0.007
05/11/15	-	05/26/15	< 0.010
05/26/15	-	06/09/15	< 0.005
06/09/15	-	06/23/15	< 0.009
06/23/15	-	07/07/15	< 0.009
07/07/15	-	07/21/15	< 0.012
07/21/15	-	08/04/15	< 0.008
08/04/15	-	08/19/15	< 0.007
08/19/15	-	09/01/15	< 0.014
09/01/15	-	09/15/15	< 0.010
09/15/16	-	09/29/15	< 0.007
09/29/15	-	10/13/15	< 0.014
10/13/15	-	10/26/15	< 0.011
10/26/15	-	11/09/15	< 0.006
11/09/15	-	11/23/15	< 0.009
11/23/15	-	12/08/15	< 0.006
12/08/15	-	12/22/15	< 0.008
12/22/15	-	01/05/16	< 0.013

Results in picoCuries per cubic meter (pCi/m³)

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

Lacey Township Recreation Building (OCAI04)

<u>Collection Period</u>			<u>I-131</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	< 0.012
01/20/15	-	02/03/15	< 0.011
02/03/15	-	02/18/15	< 0.015
02/18/15	-	03/03/15	< 0.009
03/03/15	-	03/17/15	< 0.022
03/17/15	-	03/31/15	< 0.012
03/31/15	-	04/13/15	< 0.013
04/13/15	-	04/27/15	< 0.013
04/27/15	-	05/11/15	< 0.020
05/11/15	-	05/26/15	< 0.020
05/26/15	-	06/09/15	< 0.007
06/09/15	-	06/23/15	< 0.008
06/23/15	-	07/07/15	< 0.010
07/07/15	-	07/21/15	< 0.010
07/21/15	-	08/04/15	< 0.009
08/04/15	-	08/19/15	< 0.012
08/19/15	-	09/01/15	< 0.014
09/01/15	-	09/15/15	< 0.014
09/15/16	-	09/29/15	< 0.009
09/29/15	-	10/13/15	< 0.016
10/13/15	-	10/26/15	< 0.006
10/26/15	-	11/09/15	< 0.011
11/09/15	-	11/23/15	< 0.018
11/23/15	-	12/08/15	< 0.004
12/08/15	-	12/22/15	< 0.007
12/22/15	-	01/05/16	< 0.009

Results in picoCuries per cubic meter (pCi/m³)

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

JCP&L Substation (OCAI05)

<u>Collection Period</u>			<u>I-131</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	< 0.007
01/20/15	-	02/03/15	< 0.013
02/03/15	-	02/18/15	< 0.015
02/18/15	-	03/03/15	< 0.022
03/03/15	-	03/17/15	< 0.015
03/17/15	-	03/31/15	< 0.013
03/31/15	-	04/13/15	< 0.009
04/13/15	-	04/27/15	< 0.010
04/27/15	-	05/11/15	< 0.011
05/11/15	-	05/26/15	< 0.013
05/26/15	-	06/09/15	< 0.007
06/09/15	-	06/23/15	< 0.008
06/23/15	-	07/07/15	< 0.012
07/07/15	-	07/21/15	< 0.012
07/21/15	-	08/04/15	< 0.011
08/04/15	-	08/19/15	< 0.011
08/19/15	-	09/01/15	< 0.021
09/01/15	-	09/15/15	< 0.020
09/15/16	-	09/29/15	< 0.012
09/29/15	-	10/13/15	< 0.010
10/13/15	-	10/26/15	< 0.014
10/26/15	-	11/09/15	< 0.009
11/09/15	-	11/23/15	< 0.013
11/23/15	-	12/08/15	< 0.007
12/08/15	-	12/22/15	< 0.008
12/22/15	-	01/05/16	< 0.007

Results in picoCuries per cubic meter (pCi/m³)

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

Finninger Farm, OC Dredge Site (OCAI06)

<u>Collection Period</u>			<u>I-131</u> <u>(pCi/m³)</u>
01/07/15	-	01/15/15	< 0.037
01/15/15	-	01/22/15	< 0.049
01/22/15	-	01/29/15	< 0.039
01/29/15	-	02/04/15	< 0.046
02/04/15	-	02/11/15	< 0.048
02/11/15	-	02/19/15	< 0.048
02/19/15	-	02/25/15	< 0.023
02/25/15	-	03/04/15	< 0.060
03/04/15	-	03/11/15	< 0.030
03/11/15	-	03/18/15	< 0.015
03/18/15	-	03/25/15	< 0.053
03/25/15	-	04/01/15	< 0.044
04/01/15	-	04/08/15	< 0.039
04/08/15	-	04/16/15	< 0.034
04/16/15	-	04/22/15	< 0.046
04/22/15	-	04/30/15	< 0.044
04/30/15	-	05/07/15	< 0.050
05/07/15	-	05/13/15	< 0.032
05/13/15	-	05/20/15	< 0.037
05/20/15	-	05/27/15	< 0.039
05/27/15	-	06/03/15	< 0.034
06/03/15	-	06/10/15	< 0.025
06/10/15	-	06/17/15	< 0.054
06/17/15	-	06/24/15	< 0.029
06/24/15	-	07/01/15	< 0.016
07/01/15	-	07/08/15	< 0.043

Results in picoCuries per cubic meter (pCi/m³)

* 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 Weekly* Samples**

Finninger Farm, OC Dredge Site (OCAI06) - continued

<u>Collection Period</u>			<u>I-131</u> <u>(pCi/m³)</u>
07/08/15	-	07/16/15	< 0.026
07/16/15	-	07/22/15	< 0.034
07/22/15	-	07/29/15	< 0.058
07/29/15	-	08/05/15	< 0.034
08/05/15	-	08/12/15	< 0.043
08/12/15	-	08/19/15	< 0.039
08/19/15	-	08/25/15	< 0.045
08/25/15	-	09/02/15	< 0.019
09/02/15	-	09/10/15	< 0.012
09/10/15	-	09/17/15	< 0.045
09/17/15	-	09/23/15	< 0.043
09/23/15	-	09/30/15	< 0.057
09/30/15	-	10/07/15	< 0.037
10/07/15	-	10/14/15	< 0.038
10/14/15	-	10/22/15	< 0.045
10/22/15	-	10/29/15	< 0.028
10/29/15	-	11/04/15	< 0.050
11/04/15	-	11/11/15	< 0.030
11/11/15	-	11/18/15	< 0.015
11/18/15	-	11/24/15	< 0.051
11/24/15	-	12/02/15	< 0.048
12/02/15	-	12/09/15	< 0.049
12/09/15	-	12/16/15	< 0.047
12/16/15	-	12/22/15	< 0.042
12/22/15	-	12/29/15	< 0.023
12/29/15	-	01/06/16	< 0.039

Results in picoCuries per cubic meter (pCi/m³)

* 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)

<u>Collection Period</u>			<u>I-131</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	< 0.009
01/20/15	-	02/03/15	< 0.007
02/03/15	-	02/18/15	< 0.008
02/18/15	-	03/03/15	< 0.023
03/03/15	-	03/17/15	< 0.016
03/17/15	-	03/31/15	< 0.011
03/31/15	-	04/13/15	< 0.013
04/13/15	-	04/27/15	< 0.010
04/27/15	-	05/11/15	< 0.013
05/11/15	-	05/26/15	< 0.012
05/26/15	-	06/09/15	< 0.012
06/09/15	-	06/23/15	< 0.005
06/23/15	-	07/07/15	< 0.014
07/07/15	-	07/21/15	< 0.011
07/21/15	-	08/04/15	< 0.007
08/04/15	-	08/19/15	< 0.013
08/19/15	-	09/01/15	< 0.008
09/01/15	-	09/15/15	< 0.008
09/15/16	-	09/29/15	< 0.010
09/29/15	-	10/13/15	< 0.014
10/13/15	-	10/26/15	< 0.009
10/26/15	-	11/09/15	< 0.012
11/09/15	-	11/23/15	< 0.006
11/23/15	-	12/08/15	< 0.011
12/08/15	-	12/22/15	< 0.006
12/22/15	-	01/05/16	< 0.013

Results in picoCuries per cubic meter (pCi/m³)

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

Fort Elfsborg Road (AIAI01)

<u>Collection Period</u>			<u>I-131</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	< 0.006
01/20/15	-	02/03/15	< 0.010
02/03/15	-	02/18/15	< 0.011
02/18/15	-	03/03/15	< 0.007
03/03/15	-	03/17/15	< 0.018
03/17/15	-	03/31/15	< 0.006
03/31/15	-	04/13/15	< 0.010
04/13/15	-	04/27/15	< 0.012
04/27/15	-	05/12/15	< 0.008
05/12/15	-	05/26/15	< 0.006
05/26/15	-	06/09/15	< 0.009
06/09/15	-	06/23/15	< 0.011
06/23/15	-	07/08/15	< 0.008
07/08/15	-	07/21/15	< 0.010
07/21/15	-	08/04/15	< 0.007
08/04/15	-	08/19/15	< 0.010
08/19/15	-	09/01/15	< 0.024
09/01/15	-	09/15/15	< 0.010
09/15/16	-	09/29/15	< 0.005
09/29/15	-	10/13/15	< 0.008
10/13/15	-	10/26/15	< 0.007
10/26/15	-	11/09/15	< 0.010
11/09/15	-	11/23/15	< 0.014
11/23/15	-	12/08/15	< 0.007
12/08/15	-	12/22/15	< 0.008
12/22/15	-	01/05/16	< 0.014

Results in picoCuries per cubic meter (pCi/m³)

**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)

<u>Collection Period</u>			<u>I-131</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	< 0.010
01/20/15	-	02/03/15	< 0.013
02/03/15	-	02/18/15	< 0.015
02/18/15	-	03/03/15	< 0.012
03/03/15	-	03/17/15	< 0.013
03/17/15	-	03/31/15	< 0.008
03/31/15	-	04/13/15	< 0.010
04/13/15	-	04/27/15	< 0.007
04/27/15	-	05/12/15	< 0.011
05/12/15	-	05/26/15	< 0.006
05/26/15	-	06/09/15	< 0.012
06/09/15	-	06/23/15	< 0.011
06/23/15	-	07/08/15	< 0.009
07/08/15	-	07/21/15	< 0.007
07/21/15	-	08/04/15	< 0.012
08/04/15	-	08/19/15	< 0.012
08/19/15	-	09/01/15	< 0.015
09/01/15	-	09/15/15	< 0.009
09/15/16	-	09/29/15	< 0.013
09/29/15	-	10/13/15	< 0.011
10/13/15	-	10/26/15	< 0.006
10/26/15	-	11/09/15	< 0.012
11/09/15	-	11/23/15	< 0.020
11/23/15	-	12/08/15	< 0.011
12/08/15	-	12/22/15	< 0.008
12/22/15	-	01/05/16	< 0.009

Results in picoCuries per cubic meter (pCi/m³)

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

Lower Alloways Creek School (AIAI03)

<u>Collection Period</u>			<u>I-131</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	< 0.012
01/20/15	-	02/03/15	< 0.010
02/03/15	-	02/18/15	< 0.009
02/18/15	-	03/03/15	< 0.009
03/03/15	-	03/17/15	< 0.009
03/17/15	-	03/31/15	< 0.009
03/31/15	-	04/13/15	< 0.013
04/13/15	-	04/27/15	< 0.009
04/27/15	-	05/12/15	< 0.006
05/12/15	-	05/26/15	< 0.006
05/26/15	-	06/09/15	< 0.010
06/09/15	-	06/23/15	< 0.009
06/23/15	-	07/08/15	< 0.010
07/08/15	-	07/21/15	< 0.018
07/21/15	-	08/04/15	< 0.006
08/04/15	-	08/19/15	< 0.008
08/19/15	-	09/01/15	< 0.020
09/01/15	-	09/15/15	< 0.011
09/15/16	-	09/29/15	< 0.009
09/29/15	-	10/13/15	< 0.010
10/13/15	-	10/26/15	< 0.016
10/26/15	-	11/09/15	< 0.006
11/09/15	-	11/23/15	< 0.014
11/23/15	-	12/08/15	< 0.008
12/08/15	-	12/22/15	< 0.005
12/22/15	-	01/05/16	< 0.010

Results in picoCuries per cubic meter (pCi/m³)

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

BNE Office (COAP01)

<u>Collection Period</u>			<u>Particulate Gross Beta</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	0.029 ± 0.002
01/20/15	-	02/03/15	0.022 ± 0.002
02/03/15	-	02/18/15	0.029 ± 0.002
02/18/15	-	03/03/15	0.042 ± 0.003
03/03/15	-	03/17/15	0.026 ± 0.002
03/17/15	-	03/31/15	0.023 ± 0.002
03/31/15	-	04/13/15	0.023 ± 0.002
04/13/15	-	04/27/15	0.018 ± 0.002
04/27/15	-	05/12/15	0.023 ± 0.002
05/12/15	-	05/26/15	0.024 ± 0.002
05/26/15	-	06/09/15	0.017 ± 0.002
06/09/15	-	06/23/15	0.023 ± 0.002
06/23/15	-	07/07/15	0.021 ± 0.002
07/07/15	-	07/21/15	0.024 ± 0.002
07/21/15	-	08/04/15	0.028 ± 0.002
08/04/15	-	08/19/15	0.023 ± 0.002
08/19/15	-	09/01/15	0.029 ± 0.002
09/01/15	-	09/15/15	0.032 ± 0.002
09/15/16	-	09/29/15	0.032 ± 0.002
09/29/15	-	10/13/15	0.020 ± 0.002
10/13/15	-	10/26/15	0.022 ± 0.002
10/26/15	-	11/09/15	0.025 ± 0.002
11/09/15	-	11/23/15	0.018 ± 0.002
11/23/15	-	12/08/15	0.029 ± 0.002
12/08/15	-	12/22/15	0.038 ± 0.002
12/22/15	-	01/05/16	0.018 ± 0.002

Results in picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Brendan T. Byrne State Forest (COAP02)

<u>Collection Period</u>			<u>Particulate Gross Beta</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	0.026 ± 0.002
01/20/15	-	02/03/15	0.022 ± 0.002
02/03/15	-	02/18/15	0.031 ± 0.002
02/18/15	-	03/03/15	0.037 ± 0.003
03/03/15	-	03/17/15	0.023 ± 0.002
03/17/15	-	03/31/15	0.021 ± 0.002
03/31/15	-	04/13/15	0.016 ± 0.002
04/13/15	-	04/27/15	0.016 ± 0.002
04/27/15	-	05/11/15	0.020 ± 0.002
05/11/15	-	05/26/15	0.025 ± 0.002
05/26/15	-	06/09/15	0.016 ± 0.002
06/09/15	-	06/23/15	0.021 ± 0.002
06/23/15	-	07/07/15	0.019 ± 0.002
07/07/15	-	07/21/15	0.022 ± 0.002
07/21/15	-	08/04/15	0.027 ± 0.002
08/04/15	-	08/19/15	0.023 ± 0.002
08/19/15	-	09/01/15	0.031 ± 0.002
09/01/15	-	09/15/15	0.034 ± 0.002
09/15/16	-	09/29/15	0.033 ± 0.002
09/29/15	-	10/13/15	0.018 ± 0.002
10/13/15	-	10/26/15	0.020 ± 0.002
10/26/15	-	11/09/15	0.023 ± 0.002
11/09/15	-	11/23/15	0.019 ± 0.002
11/23/15	-	12/08/15	0.027 ± 0.002
12/08/15	-	12/22/15	0.034 ± 0.002
12/22/15	-	01/05/16	0.016 ± 0.002

Results in picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Waretown Municipal Building (OCAP01)

<u>Collection Period</u>			<u>Particulate Gross Beta</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	0.030 ± 0.002
01/20/15	-	02/03/15	0.027 ± 0.002
02/03/15	-	02/18/15	0.009 ± 0.001
02/18/15	-	03/03/15	0.040 ± 0.003
03/03/15	-	03/17/15	0.025 ± 0.002
03/17/15	-	03/31/15	0.023 ± 0.002
03/31/15	-	04/13/15	0.019 ± 0.002
04/13/15	-	04/27/15	0.018 ± 0.002
04/27/15	-	05/11/15	0.020 ± 0.002
05/11/15	-	05/26/15	0.024 ± 0.002
05/26/15	-	06/09/15	0.015 ± 0.002
06/09/15	-	06/23/15	0.023 ± 0.002
06/23/15	-	07/07/15	0.019 ± 0.002
07/07/15	-	07/21/15	0.025 ± 0.002
07/21/15	-	08/04/15	0.028 ± 0.002
08/04/15	-	08/19/15	0.025 ± 0.002
08/19/15	-	09/01/15	0.033 ± 0.003
09/01/15	-	09/15/15	0.034 ± 0.003
09/15/16	-	09/29/15	0.029 ± 0.002
09/29/15	-	10/13/15	0.019 ± 0.002
10/13/15	-	10/26/15	0.021 ± 0.002
10/26/15	-	11/09/15	0.025 ± 0.002
11/09/15	-	11/23/15	0.019 ± 0.002
11/23/15	-	12/08/15	0.026 ± 0.002
12/08/15	-	12/22/15	0.034 ± 0.002
12/22/15	-	01/05/16	0.019 ± 0.002

Results in picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Sands Point Harbor (OCAP02)

<u>Collection Period</u>			<u>Particulate Gross Beta</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	0.033 ± 0.003
01/20/15	-	02/03/15	0.032 ± 0.003
02/03/15	-	02/18/15	0.031 ± 0.003
02/18/15	-	03/03/15	0.041 ± 0.003
03/03/15	-	03/17/15	0.026 ± 0.002
03/17/15	-	03/31/15	0.025 ± 0.002
03/31/15	-	04/13/15	0.020 ± 0.002
04/13/15	-	04/27/15	0.023 ± 0.002
04/27/15	-	05/11/15	0.018 ± 0.002
05/11/15	-	05/26/15	0.026 ± 0.002
05/26/15	-	06/09/15	0.014 ± 0.002
06/09/15	-	06/23/15	0.024 ± 0.002
06/23/15	-	07/07/15	0.023 ± 0.003
07/07/15	-	07/21/15	0.025 ± 0.002
07/21/15	-	08/04/15	0.026 ± 0.002
08/04/15	-	08/19/15	0.027 ± 0.002
08/19/15	-	09/01/15	0.027 ± 0.002
09/01/15	-	09/15/15	0.031 ± 0.002
09/15/16	-	09/29/15	0.029 ± 0.002
09/29/15	-	10/13/15	0.019 ± 0.002
10/13/15	-	10/26/15	0.022 ± 0.002
10/26/15	-	11/09/15	0.026 ± 0.002
11/09/15	-	11/23/15	0.019 ± 0.002
11/23/15	-	12/08/15	0.026 ± 0.002
12/08/15	-	12/22/15	0.031 ± 0.002
12/22/15	-	01/05/16	0.016 ± 0.002

Results in picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Forked River Marina (OCAP03)

<u>Collection Period</u>			<u>Particulate Gross Beta</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	0.033 ± 0.003
01/20/15	-	02/03/15	0.024 ± 0.002
02/03/15	-	02/18/15	0.030 ± 0.002
02/18/15	-	03/03/15	0.041 ± 0.003
03/03/15	-	03/17/15	0.028 ± 0.002
03/17/15	-	03/31/15	0.025 ± 0.002
03/31/15	-	04/13/15	0.020 ± 0.002
04/13/15	-	04/27/15	0.019 ± 0.002
04/27/15	-	05/11/15	0.020 ± 0.002
05/11/15	-	05/26/15	0.023 ± 0.002
05/26/15	-	06/09/15	0.014 ± 0.002
06/09/15	-	06/23/15	0.023 ± 0.002
06/23/15	-	07/07/15	0.020 ± 0.002
07/07/15	-	07/21/15	0.025 ± 0.002
07/21/15	-	08/04/15	0.025 ± 0.002
08/04/15	-	08/19/15	0.025 ± 0.002
08/19/15	-	09/01/15	0.029 ± 0.002
09/01/15	-	09/15/15	0.034 ± 0.002
09/15/16	-	09/29/15	0.033 ± 0.002
09/29/15	-	10/13/15	0.018 ± 0.002
10/13/15	-	10/26/15	0.019 ± 0.002
10/26/15	-	11/09/15	0.025 ± 0.002
11/09/15	-	11/23/15	0.019 ± 0.002
11/23/15	-	12/08/15	0.031 ± 0.002
12/08/15	-	12/22/15	0.033 ± 0.002
12/22/15	-	01/05/16	0.016 ± 0.002

Results in picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Lacey Twp. Recreation Building (OCAP04)

<u>Collection Period</u>			<u>Particulate Gross Beta</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	0.033 ± 0.003
01/20/15	-	02/03/15	0.023 ± 0.002
02/03/15	-	02/18/15	0.030 ± 0.002
02/18/15	-	03/03/15	0.038 ± 0.003
03/03/15	-	03/17/15	0.028 ± 0.002
03/17/15	-	03/31/15	0.022 ± 0.002
03/31/15	-	04/13/15	0.022 ± 0.002
04/13/15	-	04/27/15	0.017 ± 0.002
04/27/15	-	05/11/15	0.020 ± 0.002
05/11/15	-	05/26/15	0.022 ± 0.002
05/26/15	-	06/09/15	0.016 ± 0.002
06/09/15	-	06/23/15	0.024 ± 0.002
06/23/15	-	07/07/15	0.018 ± 0.002
07/07/15	-	07/21/15	0.022 ± 0.002
07/21/15	-	08/04/15	0.027 ± 0.002
08/04/15	-	08/19/15	0.021 ± 0.002
08/19/15	-	09/01/15	0.033 ± 0.003
09/01/15	-	09/15/15	0.033 ± 0.003
09/15/16	-	09/29/15	0.030 ± 0.002
09/29/15	-	10/13/15	0.019 ± 0.002
10/13/15	-	10/26/15	0.022 ± 0.002
10/26/15	-	11/09/15	0.021 ± 0.002
11/09/15	-	11/23/15	0.019 ± 0.002
11/23/15	-	12/08/15	0.027 ± 0.002
12/08/15	-	12/22/15	0.037 ± 0.003
12/22/15	-	01/05/16	0.019 ± 0.002

Results in picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

JCP&L Substation (OCAP05)

<u>Collection Period</u>			<u>Particulate Gross Beta</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	0.030 ± 0.002
01/20/15	-	02/03/15	0.021 ± 0.002
02/03/15	-	02/18/15	0.032 ± 0.002
02/18/15	-	03/03/15	0.040 ± 0.003
03/03/15	-	03/17/15	0.025 ± 0.002
03/17/15	-	03/31/15	0.024 ± 0.002
03/31/15	-	04/13/15	0.021 ± 0.002
04/13/15	-	04/27/15	0.017 ± 0.002
04/27/15	-	05/11/15	0.018 ± 0.002
05/11/15	-	05/26/15	0.023 ± 0.002
05/26/15	-	06/09/15	0.013 ± 0.002
06/09/15	-	06/23/15	0.022 ± 0.002
06/23/15	-	07/07/15	0.021 ± 0.002
07/07/15	-	07/21/15	0.024 ± 0.002
07/21/15	-	08/04/15	0.028 ± 0.002
08/04/15	-	08/19/15	0.023 ± 0.002
08/19/15	-	09/01/15	0.028 ± 0.002
09/01/15	-	09/15/15	0.035 ± 0.003
09/15/16	-	09/29/15	0.029 ± 0.002
09/29/15	-	10/13/15	0.019 ± 0.002
10/13/15	-	10/26/15	0.020 ± 0.002
10/26/15	-	11/09/15	0.024 ± 0.002
11/09/15	-	11/23/15	0.018 ± 0.002
11/23/15	-	12/08/15	0.028 ± 0.002
12/08/15	-	12/22/15	0.035 ± 0.002
12/22/15	-	01/05/16	0.016 ± 0.002

Results in picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

**Oyster Creek
Gross Beta Activity in Weekly* Air Particulate Samples**

Finninger Farm, OC Dredge Site (OCAP06)

<u>Collection Period</u>			<u>Particulate Gross Beta</u> <u>(pCi/m³)</u>
01/07/15	-	01/15/15	0.034 ± 0.005
01/15/15	-	01/22/15	0.030 ± 0.005
01/22/15	-	01/29/15	0.029 ± 0.005
01/29/15	-	02/04/15	0.031 ± 0.006
02/04/15	-	02/11/15	0.035 ± 0.006
02/11/15	-	02/19/15	0.031 ± 0.005
02/19/15	-	02/25/15	0.046 ± 0.007
02/25/15	-	03/04/15	0.037 ± 0.006
03/04/15	-	03/11/15	0.030 ± 0.005
03/11/15	-	03/18/15	0.025 ± 0.005
03/18/15	-	03/25/15	0.028 ± 0.005
03/25/15	-	04/01/15	0.024 ± 0.005
04/01/15	-	04/08/15	0.022 ± 0.004
04/08/15	-	04/16/15	0.018 ± 0.004
04/16/15	-	04/22/15	0.022 ± 0.005
04/22/15	-	04/30/15	0.013 ± 0.003
04/30/15	-	05/07/15	0.020 ± 0.004
05/07/15	-	05/13/15	0.036 ± 0.006
05/13/15	-	05/20/15	0.029 ± 0.005
05/20/15	-	05/27/15	0.025 ± 0.005
05/27/15	-	06/03/15	0.015 ± 0.004
06/03/15	-	06/10/15	0.028 ± 0.005
06/10/15	-	06/17/15	0.032 ± 0.005
06/17/15	-	06/24/15	0.019 ± 0.004
06/24/15	-	07/01/15	0.021 ± 0.004
07/01/15	-	07/08/15	0.025 ± 0.005

Results in picoCuries per cubic meter (pCi/m³) +/- 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
2015 Radiological Environmental Monitoring Program**

**Oyster Creek
Gross Beta Activity in Weekly* Air Particulate Samples**

Finninger Farm, OC Dredge Site (OCAP06) - continued

<u>Collection Period</u>			<u>Particulate Gross Beta</u> <u>(pCi/m³)</u>
07/08/15	-	07/16/15	0.020 ± 0.004
07/16/15	-	07/22/15	0.028 ± 0.005
07/22/15	-	07/29/15	0.024 ± 0.004
07/29/15	-	08/05/15	0.037 ± 0.006
08/05/15	-	08/12/15	0.022 ± 0.004
08/12/15	-	08/19/15	0.032 ± 0.005
08/19/15	-	08/25/15	0.028 ± 0.005
08/25/15	-	09/02/15	0.046 ± 0.006
09/02/15	-	09/10/15	0.039 ± 0.005
09/10/15	-	09/17/15	0.028 ± 0.005
09/17/15	-	09/23/15	0.036 ± 0.006
09/23/15	-	09/30/15	0.017 ± 0.004
09/30/15	-	10/07/15	0.013 ± 0.003
10/07/15	-	10/14/15	0.030 ± 0.005
10/14/15	-	10/22/15	0.025 ± 0.004
10/22/15	-	10/29/15	0.008 ± 0.003
10/29/15	-	11/04/15	0.029 ± 0.005
11/04/15	-	11/11/15	0.029 ± 0.005
11/11/15	-	11/18/15	0.029 ± 0.005
11/18/15	-	11/24/15	0.013 ± 0.004
11/24/15	-	12/02/15	0.020 ± 0.004
12/02/15	-	12/09/15	0.025 ± 0.004
12/09/15	-	12/16/15	0.046 ± 0.006
12/16/15	-	12/22/15	0.018 ± 0.004
12/22/15	-	12/29/15	0.013 ± 0.003
12/29/15	-	01/06/16	0.023 ± 0.004

Results in picoCuries per cubic meter (pCi/m³) +/- 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
2015 Radiological Environmental Monitoring Program**

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

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

<u>Collection Period</u>			<u>Particulate Gross Beta</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	0.030 ± 0.002
01/20/15	-	02/03/15	0.026 ± 0.002
02/03/15	-	02/18/15	0.031 ± 0.002
02/18/15	-	03/03/15	0.042 ± 0.003
03/03/15	-	03/17/15	0.029 ± 0.002
03/17/15	-	03/31/15	0.023 ± 0.002
03/31/15	-	04/13/15	0.019 ± 0.002
04/13/15	-	04/27/15	0.016 ± 0.002
04/27/15	-	05/11/15	0.020 ± 0.002
05/11/15	-	05/26/15	0.022 ± 0.002
05/26/15	-	06/09/15	0.014 ± 0.002
06/09/15	-	06/23/15	0.021 ± 0.002
06/23/15	-	07/07/15	0.019 ± 0.002
07/07/15	-	07/21/15	0.024 ± 0.002
07/21/15	-	08/04/15	0.025 ± 0.002
08/04/15	-	08/19/15	0.024 ± 0.002
08/19/15	-	09/01/15	0.028 ± 0.002
09/01/15	-	09/15/15	0.033 ± 0.002
09/15/16	-	09/29/15	0.028 ± 0.002
09/29/15	-	10/13/15	0.017 ± 0.002
10/13/15	-	10/26/15	0.020 ± 0.002
10/26/15	-	11/09/15	0.024 ± 0.002
11/09/15	-	11/23/15	0.018 ± 0.002
11/23/15	-	12/08/15	0.029 ± 0.002
12/08/15	-	12/22/15	0.036 ± 0.002
12/22/15	-	01/05/16	0.017 ± 0.002

Results in picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Fort Elfsborg Road (AIAP01)

<u>Collection Period</u>			<u>Particulate Gross Beta</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	0.029 ± 0.002
01/20/15	-	02/03/15	0.026 ± 0.002
02/03/15	-	02/18/15	0.034 ± 0.002
02/18/15	-	03/03/15	0.042 ± 0.003
03/03/15	-	03/17/15	0.029 ± 0.002
03/17/15	-	03/31/15	0.023 ± 0.002
03/31/15	-	04/13/15	0.018 ± 0.002
04/13/15	-	04/27/15	0.019 ± 0.002
04/27/15	-	05/12/15	0.020 ± 0.002
05/12/15	-	05/26/15	0.025 ± 0.002
05/26/15	-	06/09/15	0.015 ± 0.002
06/09/15	-	06/23/15	0.025 ± 0.002
06/23/15	-	07/08/15	0.023 ± 0.002
07/08/15	-	07/21/15	0.024 ± 0.002
07/21/15	-	08/04/15	0.029 ± 0.002
08/04/15	-	08/19/15	0.026 ± 0.002
08/19/15	-	09/01/15	0.028 ± 0.002
09/01/15	-	09/15/15	0.034 ± 0.003
09/15/16	-	09/29/15	0.035 ± 0.003
09/29/15	-	10/13/15	0.019 ± 0.002
10/13/15	-	10/26/15	0.022 ± 0.002
10/26/15	-	11/09/15	0.025 ± 0.002
11/09/15	-	11/23/15	0.023 ± 0.002
11/23/15	-	12/08/15	0.028 ± 0.002
12/08/15	-	12/22/15	0.035 ± 0.003
12/22/15	-	01/05/16	0.017 ± 0.002

Results in picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Plant Access Road (AIAP02)

<u>Collection Period</u>			<u>Particulate Gross Beta</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	0.030 ± 0.003
01/20/15	-	02/03/15	0.025 ± 0.002
02/03/15	-	02/18/15	0.034 ± 0.003
02/18/15	-	03/03/15	0.046 ± 0.003
03/03/15	-	03/17/15	0.027 ± 0.002
03/17/15	-	03/31/15	0.025 ± 0.002
03/31/15	-	04/13/15	0.019 ± 0.002
04/13/15	-	04/27/15	0.019 ± 0.002
04/27/15	-	05/12/15	0.023 ± 0.002
05/12/15	-	05/26/15	0.025 ± 0.002
05/26/15	-	06/09/15	0.015 ± 0.002
06/09/15	-	06/23/15	0.022 ± 0.002
06/23/15	-	07/08/15	0.022 ± 0.002
07/08/15	-	07/21/15	0.023 ± 0.002
07/21/15	-	08/04/15	0.028 ± 0.002
08/04/15	-	08/19/15	0.025 ± 0.002
08/19/15	-	09/01/15	0.029 ± 0.002
09/01/15	-	09/15/15	0.039 ± 0.003
09/15/16	-	09/29/15	0.031 ± 0.002
09/29/15	-	10/13/15	0.019 ± 0.002
10/13/15	-	10/26/15	0.020 ± 0.002
10/26/15	-	11/09/15	0.026 ± 0.002
11/09/15	-	11/23/15	0.020 ± 0.002
11/23/15	-	12/08/15	0.031 ± 0.002
12/08/15	-	12/22/15	0.037 ± 0.003
12/22/15	-	01/05/16	0.018 ± 0.002

Results in picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Lower Alloways Creek School (AIAP03)

<u>Collection Period</u>			<u>Particulate Gross Beta</u> <u>(pCi/m³)</u>
01/06/15	-	01/20/15	0.027 ± 0.002
01/20/15	-	02/03/15	0.026 ± 0.002
02/03/15	-	02/18/15	0.029 ± 0.002
02/18/15	-	03/03/15	0.040 ± 0.003
03/03/15	-	03/17/15	0.025 ± 0.002
03/17/15	-	03/31/15	0.024 ± 0.002
03/31/15	-	04/13/15	0.017 ± 0.002
04/13/15	-	04/27/15	0.020 ± 0.002
04/27/15	-	05/12/15	0.021 ± 0.002
05/12/15	-	05/26/15	0.028 ± 0.002
05/26/15	-	06/09/15	0.015 ± 0.002
06/09/15	-	06/23/15	0.023 ± 0.002
06/23/15	-	07/08/15	0.021 ± 0.002
07/08/15	-	07/21/15	0.024 ± 0.002
07/21/15	-	08/04/15	0.026 ± 0.002
08/04/15	-	08/19/15	0.029 ± 0.002
08/19/15	-	09/01/15	0.029 ± 0.002
09/01/15	-	09/15/15	0.033 ± 0.002
09/15/16	-	09/29/15	0.033 ± 0.002
09/29/15	-	10/13/15	0.019 ± 0.002
10/13/15	-	10/26/15	0.023 ± 0.002
10/26/15	-	11/09/15	0.026 ± 0.002
11/09/15	-	11/23/15	0.021 ± 0.002
11/23/15	-	12/08/15	0.031 ± 0.002
12/08/15	-	12/22/15	0.038 ± 0.002
12/22/15	-	01/05/16	0.015 ± 0.002

Results in picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

**BNE Background Location
Results of Analyses of Gamma Emitters and Strontium in
Quarterly Composite Air Samples**

BNE Office (COAP01)

<u>Collection Period</u>			<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
12/22/14	-	03/31/15	< 0.4	< 0.3	< 0.3	105 ± 18	< 33.8	< 12.0
03/31/15	-	06/23/15	< 0.4	< 0.4	< 0.3	103 ± 19	< 37.1	< 10.2
06/23/15	-	09/29/15	< 0.3	< 0.4	< 0.4	123 ± 22	< 33.3	< 13.9
09/29/15	-	12/22/15	< 0.5	< 0.5	< 0.4	89 ± 16	< 474.0	< 172.0

Brendan T. Byrne State Forest (COAP02)

<u>Collection Period</u>			<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
12/22/14	-	03/31/15	< 0.3	< 0.4	< 0.3	103 ± 16	< 55.1	< 12.3
03/31/15	-	06/23/15	< 0.5	< 0.4	< 0.3	102 ± 18	< 47.3	< 10.8
06/23/15	-	09/29/15	< 0.3	< 0.4	< 0.3	107 ± 17	< 73.2	< 17.0
09/29/15	-	12/22/15	< 0.4	< 0.3	< 0.3	81 ± 15	< 505.0	< 113.0

Results in 10⁻³ picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

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

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Waretown Municipal Building (OCAP01)

<u>Collection Period</u>		<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
12/22/14	- 03/31/15	< 0.3	< 0.3	< 0.4	89 ± 17	< 44.5	< 11.9
03/31/15	- 06/23/15	< 0.3	< 0.6	< 0.4	101 ± 17	< 63.8	< 19.9
06/23/15	- 09/29/15	< 0.2	< 0.3	< 0.3	115 ± 19	< 35.1	< 14.2
09/29/15	- 12/22/15	< 0.5	< 0.3	< 0.3	86 ± 15	< 471.0	< 160.0

Sands Point Harbor (OCAP02)

<u>Collection Period</u>		<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
12/22/14	- 03/31/15	< 0.4	< 0.9	< 0.7	107 ± 27	< 42.3	< 14.7
03/31/15	- 06/23/15	< 0.9	< 1.1	< 0.9	102 ± 31	< 46.2	< 16.9
06/23/15	- 09/29/15	< 0.4	< 0.4	< 0.4	119 ± 19	< 45.3	< 19.9
09/29/15	- 12/22/15	< 0.5	< 0.3	< 0.4	76 ± 15	< 334.0	< 175.0

Forked River Marina (OCAP03)

<u>Collection Period</u>		<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
12/22/14	- 03/31/15	< 0.4	< 0.4	< 0.3	90 ± 19	< 33.4	< 9.0
03/31/15	- 06/23/15	< 0.3	< 0.5	< 0.4	92 ± 19	< 38.8	< 11.7
06/23/15	- 09/29/15	< 0.5	< 0.4	< 0.4	106 ± 20	< 60.1	< 22.6
09/29/15	- 12/22/15	< 0.9	< 0.9	< 0.6	82 ± 18	< 373.0	< 106.0

Lacey Township Recreation Building (OCAP04)

<u>Collection Period</u>		<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
12/22/14	- 03/31/15	< 0.5	< 0.6	< 0.3	112 ± 22	< 40.0	< 13.6
03/31/15	- 06/23/15	< 0.6	< 0.6	< 0.4	106 ± 20	< 54.7	< 11.0
06/23/15	- 09/29/15	< 0.5	< 0.4	< 0.5	119 ± 20	< 54.3	< 19.0
09/29/15	- 12/22/15	< 0.5	< 0.5	< 0.5	94 ± 17	< 428.0	< 163.0

Results in 10⁻³ picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

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

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Jersey Central Power and Light Substation (OCAP05)

<u>Collection Period</u>			<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
12/22/14	-	03/31/15	< 0.4	< 0.4	< 0.3	109 ± 17	< 31.3	< 12.1
03/31/15	-	06/23/15	< 0.5	< 0.4	< 0.4	86 ± 15	< 64.7	< 19.4
06/23/15	-	09/29/15	< 0.4	< 0.5	< 0.2	113 ± 18	< 87.2	< 21.7
09/29/15	-	12/22/15	< 0.4	< 0.6	< 0.5	95 ± 17	< 551.0	< 160.0

Finninger Farm, OC Dredge Site (OCAP06)

<u>Collection Period</u>			<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
12/30/14	-	04/01/15	< 1.4	< 1.0	< 0.9	98 ± 31	< 87.0	< 26.0
04/01/15	-	07/01/15	< 1.0	< 1.3	< 1.1	105 ± 31	< 74.2	< 32.9
07/01/15	-	09/30/15	< 0.7	< 0.7	< 0.6	85 ± 21	< 86.7	< 44.2
09/30/15	-	12/29/15	< 0.6	< 0.7	< 1.0	81 ± 22	< 637.0	< 273.0

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

<u>Collection Period</u>			<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
12/22/14	-	03/31/15	< 0.5	< 0.5	< 0.5	91 ± 20	< 28.3	< 17.4
03/31/15	-	06/23/15	< 0.5	< 0.4	< 0.4	93 ± 18	< 53.7	< 18.9
06/23/15	-	09/29/15	< 0.5	< 0.4	< 0.3	111 ± 17	< 47.0	< 15.1
09/29/15	-	12/22/15	< 0.5	< 0.4	< 0.5	85 ± 14	< 253.0	< 131.0

Results in 10⁻³ picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

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

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Fort Elfsborg Road (AIAP01)

<u>Collection Period</u>			<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
12/22/14	-	03/31/15	< 0.4	< 0.4	< 0.3	116 ± 20	< 42.8	< 21.7
03/31/15	-	06/23/15	< 0.4	< 0.5	< 0.3	122 ± 19	< 29.8	< 20.8
06/23/15	-	09/29/15	< 0.4	< 0.4	< 0.4	119 ± 20	< 43.8	< 17.5
09/29/15	-	12/22/15	< 0.5	< 0.5	< 0.4	93 ± 15	< 563.0	< 253.0

Plant Access Road (AIAP02)

<u>Collection Period</u>			<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
12/22/14	-	03/31/15	< 0.6	< 0.6	< 0.4	125 ± 21	< 62.4	< 10.9
03/31/15	-	06/23/15	< 0.5	< 0.5	< 0.3	113 ± 20	< 64.3	< 19.5
06/23/15	-	09/29/15	< 0.4	< 0.5	< 0.3	115 ± 19	< 53.9	< 11.7
09/29/15	-	12/22/15	< 0.5	< 0.6	< 0.5	80 ± 19	< 572.0	< 148.0

Lower Alloways Creek School (AIAP03)

<u>Collection Period</u>			<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Be-7</u>	<u>Sr-89</u>	<u>Sr-90</u>
12/22/14	-	03/31/15	< 0.5	< 0.4	< 0.3	91 ± 17	< 50.2	< 11.3
03/31/15	-	06/23/15	< 0.3	< 0.4	< 0.4	94 ± 18	< 44.0	< 19.3
06/23/15	-	09/29/15	< 0.4	< 0.3	< 0.3	118 ± 20	< 42.2	< 15.5
09/29/15	-	12/22/15	< 0.4	< 0.4	< 0.3	95 ± 15	< 373.0	< 113.0

Results in 10⁻³ picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations total measurement uncertainty

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

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Stouts Creek (OCFS01)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
05/05/15 – Clams	< 3	< 3	< 4	< 3	1,920 ± 185	< 255	< 310
10/19/15 – Clams	< 3	< 3	< 3	< 3	1,470 ± 151	< 304	< 330

East of Site – Barnegat Bay (OCFS02)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
05/05/15 – Clams	< 4	< 5	< 5	< 5	2,060 ± 210	< 468	< 382
10/19/15 – Clams	< 2	< 3	< 3	< 2	1,630 ± 165	< 605	< 366
10/20/15 – White Perch	< 3	< 4	< 4	< 3	4,030 ± 389	< 526	< 391

Great Bay / Little Egg Harbor (OCFS03)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
05/06/15 – Clams	< 3	< 3	< 3	< 3	1,820 ± 186	< 331	< 288
05/06/15 – Bluefish	< 4	< 5	< 5	< 32	4,040 ± 374	< 308	< 319
10/20/15 – Clams	< 3	< 3	< 3	< 3	1,290 ± 134	< 312	< 415

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

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
03/11/15 – Sea Trout	< 5	< 6	< 5	< 5	3,740 ± 354	< 168	< 256
03/11/15 – White Perch	< 6	< 7	< 7	< 6	3,200 ± 340	< 184	< 255
05/05/15 – Striped Bass	< 3	< 3	< 3	< 9	3,790 ± 338	< 321	< 345
05/05/15 – Bluefish	< 3	< 4	< 4	< 16	3,310 ± 300	< 327	< 350
10/20/15 – Striped Bass	< 4	< 4	< 4	< 3	3,660 ± 325	< 345	< 620
10/20/15 – Bluefish	< 3	< 3	< 3	< 3	3,260 ± 315	< 270	< 288
10/21/15 – Blue Crab	< 2	< 3	< 3	< 2	2,280 ± 220	< 524	< 375

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
2015 Radiological Environmental Monitoring Program**

**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)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
04/27/15 - Catfish	< 12	< 12	< 13	< 13	3,250 ± 400	< 470	< 462
07/24/15 – Crab	< 3	< 3	< 4	< 3	2,950 ± 274	< 340	< 215
09/02/15 – Crab	< 8	< 7	< 8	< 7	3,140 ± 347	< 411	< 353
11/05/15 – Striped Bass	< 3	< 3	< 3	< 3	4,190 ± 401	< 605	< 421

Delaware River – West Bank Upstream (AIFS02)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
07/24/15 – Crab	< 4	< 4	< 4	< 4	3,020 ± 273	< 272	< 301
09/02/15 – Crab	< 4	< 4	< 4	< 4	3,140 ± 297	< 273	< 596
09/29/15 – Catfish	< 21	< 18	< 14	< 12	3,930 ± 444	< 860	< 519

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

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
04/27/15 – Striped Bass	< 14	< 15	< 17	< 16	2,840 ± 373	< 401	< 360
11/05/15 – Striped Bass	< 8	< 7	< 8	< 7	3,700 ± 356	< 604	< 540

Delaware River – 2.1 Miles SE (AIFS05¹)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
06/22/15 – Oyster	< 7	< 8	< 8	< 7	715 ± 163	< 254	< 173
10/20/15 – Oyster	< 8	< 7	< 7	< 7	979 ± 160	< 555	< 399

Delaware River (Near Benny Sands and Nantuxent Cove) – 19.1 Miles SE (AIFS06¹)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
06/22/15 – Oyster	< 7	< 7	< 7	< 7	1,740 ± 205	< 475	< 294
10/20/15 – Oyster	< 4	< 4	< 4	< 3	1,960 ± 194	< 711	< 503

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.

¹ The Delaware River sample locations (AIFS05 and AIFS06) were added to the ESMP during calendar year 2015.

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Barnegat Bay (OCAQ01)

<u>Collection Date</u>	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Mn-54</u>	<u>K-40</u>
05/05/15	199 ± 138	< 19	< 21	< 24	< 22	< 21	7,100 ± 784
10/19/15	< 125	< 13	< 14	< 18	< 15	< 14	9,090 ± 849

Oyster Creek Discharge Canal (OCAQ02)

<u>Collection Date</u>	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Mn-54</u>	<u>K-40</u>
05/05/15	< 209	< 22	< 27	< 29	72 ± 33	< 23	6,380 ± 748
10/20/15	178 ± 66	< 7	< 7	< 9	11 ± 7	< 7	3,530 ± 343

Great Bay / Little Egg Harbor (OCAQ03)

<u>Collection Date</u>	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Mn-54</u>	<u>K-40</u>
05/06/15	< 251	< 28	< 26	< 26	< 21	< 22	5,720 ± 621
10/20/15	< 114	< 12	< 14	< 17	< 13	< 12	15,200 ± 1,350

Stouts Creek (OCAQ04)

<u>Collection Date</u>	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Mn-54</u>	<u>K-40</u>
05/05/15	255 ± 149	< 16	< 16	< 18	< 17	< 15	2,090 ± 312
10/19/15	100 ± 77	< 6	< 6	< 9	< 6	< 6	1,660 ± 186

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
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

**Salem/Hope Creek
Results of Analyses of Gamma Emitters in Aquatic Sediment Samples**

Delaware River Near Site Helipad (AIAQ01)

<u>Collection Date</u>	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Mn-54</u>	<u>K-40</u>
11/30/15	< 137	< 17	< 18	< 23	< 20	< 19	3,300 ± 462

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

<u>Collection Date</u>	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Mn-54</u>	<u>K-40</u>
06/29/15	< 107	< 13	< 14	< 14	< 13	< 12	4,050 ± 450
11/25/15	< 179	< 21	< 20	< 25	< 25	< 21	3,950 ± 499

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

<u>Collection Date</u>	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Mn-54</u>	<u>K-40</u>
06/29/15	< 150	< 18	< 20	< 23	< 18	< 17	5,690 ± 611
11/25/15	< 190	< 21	< 22	< 26	< 22	< 21	7,320 ± 744

Delaware River Near South Storm Drain Discharge Line (AIAQ04)

<u>Collection Date</u>	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Mn-54</u>	<u>K-40</u>
06/29/15	< 117	< 13	< 13	< 17	< 14	< 13	4,230 ± 439
11/25/15	< 175	< 19	< 19	< 25	< 22	< 20	3,700 ± 492

West Bank of Delaware River – Upstream (AIAQ05)

<u>Collection Date</u>	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Mn-54</u>	<u>K-40</u>
06/29/15	< 141	< 14	< 15	< 19	< 17	< 15	8,900 ± 889
11/25/15	< 243	< 28	< 28	< 34	< 29	< 30	16,800 ± 1,570

Delaware Riverbank – 1.0 Miles W of Mad Horse Creek (AIAQ06²)

<u>Collection Date</u>	<u>Be-7</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>Mn-54</u>	<u>K-40</u>
06/29/15	< 218	< 24	< 26	< 33	< 24	< 26	13,700 ± 1,320
11/25/15	< 197	< 21	< 23	< 26	< 24	< 22	11,300 ± 1,080

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.

² The Delaware Riverbank (AIAQ06) location was added to the ESMP in 2015.

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

**Oyster Creek
Results of Analyses of Gamma Emitters in Vegetable Samples**

Oyster Creek Onsite Garden - ESE (OCVE01)

<u>Sample</u>	<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Cabbage	06/30/15	< 10	< 11	< 10	< 11	2,940 ± 339
Collards	06/30/15	< 15	< 14	< 15	< 15	3,530 ± 409
Kale	06/30/15	< 11	< 13	< 12	< 11	3,410 ± 400
Cabbage	07/28/15	< 20	< 20	< 23	< 23	787 ± 413
Collards	07/28/15	< 17	< 26	< 20	< 23	3,440 ± 545
Kale	07/28/15	< 23	< 24	< 23	< 24	4,720 ± 678
Cabbage	08/27/15	< 6	< 6	< 7	< 6	1,980 ± 227
Collards	08/27/15	< 7	< 7	< 8	< 8	3,590 ± 380
Kale	08/27/15	< 12	< 12	< 13	< 13	4,760 ± 480
Cabbage	09/22/15	< 14	< 18	< 19	< 17	1,910 ± 357
Collards	09/22/15	< 17	< 22	< 20	< 19	3,460 ± 538
Kale	09/22/15	< 20	< 23	< 23	< 16	4,680 ± 670
Collards	10/27/15	< 12	< 14	< 12	< 11	3,100 ± 402
Kale	10/27/15	< 16	< 20	< 16	< 15	4,500 ± 554

Private Farm – NW (OCVE02)

<u>Sample</u>	<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Cabbage	06/30/15	< 10	< 14	< 11	< 12	1,940 ± 306
Collards	06/30/15	< 11	< 12	< 12	< 11	4,520 ± 477
Kale	06/30/15	< 13	< 11	< 14	< 12	3,860 ± 424
Cabbage	07/28/15	< 19	< 28	< 22	< 22	2,930 ± 566
Collards	07/28/15	< 23	< 26	< 18	< 16	4,100 ± 638
Kale	07/28/15	< 21	< 21	< 22	< 18	3,900 ± 596
Cabbage	08/27/15	< 6	< 7	< 7	< 7	1,800 ± 215
Collards	08/27/15	< 5	< 6	< 6	< 5	4,470 ± 428
Kale	08/27/15	< 7	< 9	< 8	< 7	3,980 ± 400
Cabbage	09/22/15	< 13	< 19	< 21	< 16	2,310 ± 398
Collards	09/22/15	< 20	< 23	< 26	< 26	3,720 ± 583
Kale	09/22/15	< 19	< 23	< 18	< 18	4,420 ± 647
Cabbage	10/27/15	< 12	< 10	< 14	< 12	2,000 ± 313
Collards	10/27/15	< 14	< 14	< 15	< 14	4,410 ± 504
Kale	10/27/15	< 15	< 19	< 20	< 16	4,340 ± 601

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
2015 Radiological Environmental Monitoring Program**

**Oyster Creek
Results of Analyses of Gamma Emitters in Vegetable Samples**

Oyster Creek Onsite Garden - SE (OCVE03)³

<u>Sample</u>	<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Cabbage	07/28/15	< 25	< 18	< 23	< 22	3,740 ± 600
Cabbage	08/27/15	< 7	< 10	< 9	< 8	3,630 ± 372
Collards	08/27/15	< 9	< 11	< 10	< 9	3,320 ± 363

Oyster Creek Onsite Garden - E (OCVE07)

<u>Sample</u>	<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Cabbage	06/30/15	< 19	< 17	< 18	< 18	3,890 ± 543
Collards	06/30/15	< 14	< 15	< 15	< 14	4,720 ± 544
Kale	06/30/15	< 17	< 14	< 17	< 14	4,350 ± 468
Cabbage	07/28/15	< 17	< 18	< 26	< 18	2,500 ± 440
Collards	07/28/15	< 20	< 26	< 21	< 22	3,660 ± 615
Kale	07/28/15	< 21	< 21	< 23	< 22	3,860 ± 582
Cabbage	08/27/15	< 6	< 7	< 6	< 6	2,400 ± 257
Collards	08/27/15	< 7	< 8	< 7	18 ± 9	2,880 ± 299
Kale	08/27/15	< 8	< 9	< 9	20 ± 8	3,840 ± 413
Cabbage	09/22/15	< 15	< 15	< 18	< 23	2,560 ± 404
Collards	09/22/15	< 25	< 28	< 30	< 31	3,260 ± 599
Kale	09/22/15	< 21	< 26	< 30	< 18	4,650 ± 705
Collards	10/27/15	< 14	< 16	< 16	< 16	3,330 ± 424
Kale	10/27/15	< 18	< 22	< 21	< 15	4,210 ± 552

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.

³ Only (3) samples from OCVE03 were available during the growing season because crops were too small or destroyed. There was insufficient medium available for a split sample with the licensee.

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Local Farm - NNE (AIVE05)

<u>Sample</u>	<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Corn	07/22/15	< 14	< 18	< 15	< 14	2,160 ± 372

Farm Market – NE (AIVE11)

<u>Sample</u>	<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Tomato	07/22/15	< 9	< 13	< 13	< 11	1,830 ± 285
Cabbage	07/22/15	< 18	< 13	< 17	< 13	2,490 ± 457
Pepper	07/22/15	< 13	< 14	< 15	< 16	1,500 ± 324
Corn	07/22/15	< 9	< 16	< 14	< 13	2,220 ± 338

Onsite – N (AIVE12)

<u>Sample</u>	<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Cabbage	08/31/15	< 13	< 15	< 15	< 15	1,930 ± 338
Cabbage	09/30/15	< 7	< 8	< 8	< 7	2,750 ± 300
Collards	09/30/15	< 7	< 9	< 8	< 8	3,320 ± 362
Collards	10/28/15	< 9	< 8	< 9	< 9	2,900 ± 302
Cabbage	11/30/15	< 15	< 15	< 15	< 14	2,970 ± 404

Onsite - NNW (AIVE14)

<u>Sample</u>	<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Cabbage	07/15/15	< 18	< 23	< 22	< 20	3,450 ± 546
Cabbage	08/31/15	< 10	< 9	< 10	< 9	1,810 ± 303
Cabbage	09/30/15	< 6	< 7	< 8	< 7	2,130 ± 248
Collards	10/28/15	< 8	< 8	< 8	< 8	3,760 ± 377
Cabbage	11/30/15	< 13	< 17	< 16	< 17	3,670 ± 468
Collards	11/30/15	< 15	< 19	< 19	< 19	2,760 ± 459

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
2015 Radiological Environmental Monitoring Program**

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

Private Farm – SSW (AIVE15)

<u>Sample</u>	<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Cabbage	07/15/15	< 9	< 9	< 9	< 9	3,520 ± 365
Collards	08/31/15	< 13	< 15	< 17	< 15	2,500 ± 399
Collards	09/30/15	< 8	< 9	< 8	< 8	1,870 ± 233
Cabbage	10/28/15	< 5	< 7	< 8	< 7	1,470 ± 181
Collards	10/28/15	< 8	< 9	< 9	< 8	2,120 ± 250
Collards	11/30/15	< 12	< 13	< 12	< 11	2,940 ± 404

Private Farm – NNE (AIVE18)

<u>Sample</u>	<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Cabbage	07/22/15	< 17	< 13	< 16	< 17	2,600 ± 419
Corn	07/22/15	< 12	< 16	< 16	< 15	2,560 ± 384

Onsite – SE (AIVE25)

<u>Sample</u>	<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Cabbage	08/31/15	< 11	< 15	< 13	< 11	2,900 ± 405
Collards	10/28/15	< 9	< 11	< 10	< 9	5,100 ± 502

Onsite - NW (AIVE26)

<u>Sample</u>	<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Kohlrabi	07/15/15	< 15	< 21	< 23	< 19	3,660 ± 525
Kohlrabi	09/30/15	< 7	< 8	< 8	< 8	2,640 ± 291

Private Farm - NE (AIVE27)

<u>Sample</u>	<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>K-40</u>
Peach	07/22/15	< 11	< 11	< 10	< 9	1,630 ± 253

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
2015 Radiological Environmental Monitoring Program**

**BNE Background Location
Results of Analyses of Gamma Emitters and Strontium in Milk Samples**

State of New Jersey Dairy Farm (COMI01)

<u>Collection Date</u>	<u>Cs-137</u>	<u>I-131</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
03/16/15	< 1.85	< 0.64	1,490 ± 136	< 0.87	< 0.91
06/22/15	< 1.94	< 0.39	1,070 ± 105	< 0.92	< 0.74
09/15/15	< 1.92	< 0.69	742 ± 76	< 0.74	< 0.84
12/07/15	< 1.91	< 0.75	1,270 ± 120	< 0.75	< 0.62

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
2015 Radiological Environmental Monitoring Program**

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

Private Farm – NNE (AIMI01)

<u>Collection Date</u>	<u>Cs-137</u>	<u>I-131</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
01/05/15	< 5.17	< 0.81	1,410 ± 190	< 0.93	< 0.91
02/02/15	< 3.56	< 0.78	1,470 ± 156	< 0.87	< 0.86
03/02/15	< 2.07	< 0.50	1,470 ± 142	< 0.77	< 0.84
04/06/15	< 1.79	< 0.75	1,380 ± 130	< 0.84	< 0.92
05/11/15	< 2.07	< 0.54	1,390 ± 132	< 0.57	< 0.55
06/08/15	< 2.76	< 0.60	1,480 ± 138	< 0.92	< 0.96
07/06/15	< 2.31	< 0.68	1,390 ± 145	< 0.86	< 0.88
08/03/15	< 2.58	< 0.40	1,370 ± 134	< 0.90	< 0.91
09/08/15	< 1.94	< 0.92	1,260 ± 119	< 0.74	< 0.69
10/06/15	< 2.47	< 0.75	1,490 ± 146	< 0.91	< 0.97
11/02/15	< 1.86	< 0.44	1,090 ± 104	< 0.78	< 0.58
12/07/15	< 1.74	< 0.60	1,750 ± 171	< 0.74	< 0.89

Private Farm – NE (AIMI02)

<u>Collection Date</u>	<u>Cs-137</u>	<u>I-131</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
01/05/15	< 5.37	< 0.55	1,360 ± 176	< 0.86	< 0.92
02/02/15	< 1.60	< 0.72	1,410 ± 128	< 0.88	< 0.87
03/02/15	< 2.41	< 0.59	1,360 ± 131	< 0.82	< 0.81
04/06/15	< 1.87	< 0.84	1,400 ± 130	< 0.90	< 0.88
05/11/15	< 2.02	< 0.70	1,430 ± 139	< 0.63	< 0.30
06/08/15	< 3.07	< 0.56	1,360 ± 134	< 0.95	< 0.93
07/06/15	< 3.13	< 0.60	1,370 ± 135	< 0.86	< 0.91
08/03/15	< 2.20	< 0.48	1,390 ± 131	< 0.94	< 0.93
09/08/15	< 1.78	< 0.83	1,190 ± 114	< 0.81	< 0.79
10/06/15	< 2.21	< 0.72	1,510 ± 142	< 0.93	< 0.78
11/02/15	< 1.94	< 0.46	949 ± 100	< 0.82	< 0.84
12/07/15	< 1.71	< 0.50	1,630 ± 147	< 0.80	< 0.93

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
2015 Radiological Environmental Monitoring Program**

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

Private Farm – WNW (AIMI03)

<u>Collection Date</u>	<u>Cs-137</u>	<u>I-131</u>	<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
01/05/15	< 3.89	< 0.61	1,470 ± 190	< 0.86	< 0.83
02/02/15	< 1.63	< 0.59	1,370 ± 127	< 0.81	< 0.94
03/02/15	< 2.41	< 0.55	1,390 ± 133	< 0.79	< 0.83
04/06/15	< 1.88	< 0.87	1,470 ± 143	< 0.97	< 0.89
05/11/15	< 2.82	< 0.55	1,410 ± 137	< 0.62	< 0.28
06/08/15	< 1.93	< 0.65	1,500 ± 140	< 0.95	< 0.71
07/06/15	< 2.23	< 0.60	1,400 ± 134	< 0.90	< 0.87
08/03/15	< 1.90	< 0.45	1,420 ± 134	< 0.70	< 0.91
09/08/15	< 1.67	< 0.78	1,380 ± 127	< 0.89	< 0.88
10/06/15	< 2.47	< 0.58	2,070 ± 194	< 0.95	< 0.86
11/02/15	< 1.89	< 0.54	1,200 ± 114	< 0.86	< 0.78
12/07/15	< 1.96	< 0.60	1,840 ± 166	< 0.84	< 0.93

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
2015 Radiological Environmental Monitoring Program**

Oyster Creek

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

Barnegat Bay (OCSW01)

<u>Collection Date*</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
05/07/15	< 2.01	< 2.09	< 2.26	< 2.18	< 246	< 0.75
10/19/15	< 1.94	< 2.18	< 2.27	< 2.21	< 243	< 0.85

Great Bay / Little Egg Harbor (OCSW02)

<u>Collection Date**</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
01/09/15 - 01/29/15	< 1.86	< 1.65	< 1.87	< 1.55	< 230	< 0.90
02/06/15 - 02/25/15	< 1.87	< 1.89	< 1.94	< 1.91	< 230	< 0.82
03/04/15 - 03/25/15	< 1.58	< 1.42	< 1.59	< 1.49	< 270	< 0.10
04/01/15 - 04/30/15	< 1.47	< 1.66	< 1.60	< 1.52	< 200	< 1.90
05/06/15 - 05/27/15	< 1.84	< 1.73	< 1.93	< 1.79	< 239	< 0.86
06/05/15 - 06/24/15	< 1.79	< 1.85	< 1.87	< 2.02	< 245	< 0.92
07/01/15 - 07/29/15	< 1.61	< 1.50	< 1.57	< 1.60	< 176	< 0.83
08/07/15 - 08/25/15	< 1.74	< 1.91	< 1.87	< 1.64	< 194	< 0.91
09/02/15 - 09/30/15	< 1.56	< 1.42	< 1.47	< 1.42	< 212	< 0.60
10/09/15 - 10/28/15	< 1.53	< 1.68	< 1.53	< 1.45	< 225	< 0.98
11/06/15 - 12/02/15	< 1.84	< 1.97	< 1.95	< 1.89	< 199	< 0.92
12/11/15 - 12/29/15	< 1.69	< 1.82	< 1.78	< 1.66	< 219	< 0.54

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
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Stouts Creek (OCSW03)

<u>Collection Date*</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
05/05/15	< 1.93	< 1.86	< 2.20	< 1.71	< 249	< 0.69
10/19/15	< 2.23	< 2.21	< 2.22	< 1.99	< 241	< 0.93

Oyster Creek Discharge Canal (OCSW04)

<u>Collection Date**</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
01/09/15 - 01/29/15	< 1.90	< 1.78	< 2.03	< 1.89	< 224	< 0.89
02/04/15 - 02/25/15	< 1.46	< 1.77	< 1.83	< 1.84	< 225	< 0.80
03/04/15 - 03/25/15	< 1.90	< 1.93	< 1.95	< 1.77	< 270	< 0.95
04/01/15 - 04/30/15	< 1.87	< 1.82	< 1.85	< 1.73	< 203	< 2.47
05/05/15 - 05/27/15	< 1.64	< 1.49	< 1.55	< 1.57	< 245	< 0.88
06/05/15 - 06/24/15	< 1.86	< 1.76	< 1.95	< 1.74	< 247	< 0.91
07/01/15 - 07/29/15	< 2.08	< 1.99	< 1.86	< 1.86	< 183	< 0.85
08/05/15 - 08/25/15	< 1.84	< 1.76	< 1.77	< 1.80	< 205	< 0.88
09/02/15 - 09/30/15	< 1.66	< 1.53	< 1.59	< 1.94	< 213	< 0.65
10/09/15 - 10/28/15	< 1.89	< 1.75	< 1.82	< 1.76	< 224	< 0.92
11/04/15 - 12/02/15	< 1.78	< 1.63	< 1.62	< 1.50	< 200	< 0.92
12/09/15 - 12/29/15	< 1.79	< 1.91	< 2.07	< 1.82	< 223	< 0.91

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
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

**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)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
01/06/15	< 2.92	< 4.26	< 3.48	< 3.71	< 285	< 0.67
02/04/15	< 1.75	< 1.85	< 1.92	< 1.92	< 248	< 0.84
03/04/15	< 1.90	< 1.94	< 2.08	< 2.17	< 271	< 0.78
04/09/15	< 2.50	< 2.31	< 2.52	< 2.17	< 226	< 0.81
05/04/15	< 1.68	< 1.83	< 1.73	< 1.77	< 248	< 0.82
06/04/15	< 1.59	< 1.75	< 1.70	< 1.81	< 252	< 0.72
07/09/15	< 2.07	< 1.62	< 1.83	< 1.87	< 233	< 0.90
07/21/15	< 1.69	< 1.50	< 1.71	< 1.74	< 236	< 0.62
08/06/15	< 1.52	< 1.62	< 1.63	< 1.70	< 194	< 0.87
08/19/15	< 1.74	< 1.80	< 1.91	< 1.73	< 205	< 0.79
09/11/15	< 1.38	< 1.57	< 1.66	< 1.54	< 211	< 0.89
09/23/15	< 1.64	< 1.86	< 1.82	< 1.68	< 203	< 0.95
10/06/15	< 2.00	< 1.88	< 2.33	< 2.09	< 216	< 0.88
10/19/15	< 1.76	< 2.07	< 1.91	< 1.73	< 242	< 0.92
11/02/15	< 1.58	< 1.81	< 1.66	< 1.65	< 201	< 0.85
11/24/15	< 1.76	< 1.80	< 1.77	< 1.75	< 232	< 1.00
12/07/15	< 1.49	< 1.45	< 1.61	< 1.63	< 223	< 0.92
12/22/15	< 1.67	< 1.80	< 2.04	< 1.74	< 215	< 0.71

Results in picoCuries per Liter (pCi/L)

Note: In July 2015, Salem, and Hope Creek (PSEG) increased the frequency of surface water sampling from monthly to biweekly (every two weeks).

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

West Bank – Delaware River (AISW02)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
01/06/15	< 4.43	< 3.67	< 4.47	< 3.52	< 287	< 0.65
02/04/15	< 1.85	< 1.82	< 2.00	< 1.76	< 245	< 0.86
03/04/15	< 1.63	< 1.94	< 1.85	< 1.61	< 263	< 0.78
04/09/15	< 1.78	< 1.58	< 1.87	< 1.88	< 227	< 0.87
05/04/15	< 1.52	< 1.61	< 1.57	< 1.53	< 239	< 0.81
06/04/15	< 1.73	< 1.71	< 1.92	< 1.79	< 243	< 0.73
07/09/15	< 1.83	< 1.90	< 1.89	< 1.62	< 236	< 0.95
07/21/15	< 1.76	< 1.98	< 1.98	< 1.82	< 231	< 0.64
08/06/15	< 2.15	< 2.02	< 2.22	< 2.09	< 190	< 0.82
08/19/15	< 1.69	< 1.92	< 1.79	< 1.75	< 197	< 0.89
09/11/15	< 1.48	< 1.39	< 1.62	< 1.48	< 214	< 0.75
09/23/15	< 1.90	< 1.83	< 1.88	< 1.72	< 210	< 0.84
10/06/15	< 1.54	< 1.72	< 1.79	< 1.75	< 215	< 0.88
10/19/15	< 1.95	< 2.05	< 2.21	< 2.14	< 242	< 0.90
11/02/15	< 1.52	< 1.66	< 1.69	< 1.64	< 224	< 0.85
11/24/15	< 1.94	< 2.08	< 2.19	< 2.08	< 236	< 0.94
12/07/15	< 2.45	< 2.43	< 2.68	< 2.49	< 221	< 0.87
12/22/15	< 1.30	< 1.49	< 1.53	< 1.45	< 221	< 0.64

Results in picoCuries per Liter (pCi/L)

Note: In July 2015, Salem, and Hope Creek (PSEG) increased the frequency of surface water sampling from monthly to biweekly (every two weeks).

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 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)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
01/06/15	< 4.52	< 5.44	< 6.03	< 5.40	< 300	< 0.67
02/04/15	< 1.47	< 1.48	< 1.61	< 1.82	< 253	< 0.90
03/04/15	< 1.79	< 1.81	< 2.22	< 1.74	< 266	< 0.82
04/09/15	< 1.33	< 1.59	< 1.62	< 1.51	< 223	< 0.82
05/04/15	< 1.97	< 1.78	< 1.94	< 1.96	< 245	< 0.80
06/04/15	< 1.57	< 1.75	< 1.75	< 1.68	< 246	< 0.84
07/09/15	< 1.93	< 1.81	< 1.82	< 1.73	< 232	< 1.00
07/21/15	< 1.85	< 1.79	< 1.84	< 1.80	< 231	< 0.91
08/06/15	< 1.59	< 1.68	< 1.75	< 1.69	< 189	< 0.71
08/19/15	< 1.37	< 1.36	< 1.47	< 1.49	< 203	< 0.91
09/11/15	< 1.71	< 1.97	< 1.88	< 1.76	< 214	< 0.79
09/23/15	< 1.69	< 1.73	< 1.86	< 2.03	< 165	< 0.83
10/06/15	< 1.75	< 1.81	< 1.88	< 2.32	< 252	< 0.86
10/19/15	< 2.43	< 2.43	< 3.09	< 2.76	< 241	< 0.63
11/02/15	< 1.62	< 1.81	< 1.76	< 2.04	< 233	< 0.88
11/24/15	< 1.53	< 1.71	< 1.75	< 1.70	< 232	< 0.67
12/07/15	< 1.60	< 1.70	< 1.56	< 1.63	< 226	< 0.84
12/22/15	< 1.31	< 1.43	< 1.50	< 1.46	< 225	< 0.74

Results in picoCuries per Liter (pCi/L)

Note: The sample location AISW03 was added to the ESMP in 2015.

Note: In July 2015, Salem, and Hope Creek (PSEG) increased the frequency of surface water sampling from monthly to biweekly (every two weeks).

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 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)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
02/05/15	< 1.68	< 1.80	< 2.18	< 2.00	< 158	< 0.86
04/28/15	< 2.01	< 2.27	< 2.16	< 2.04	< 202	< 0.86
07/28/15	< 1.59	< 1.80	< 1.66	< 1.61	< 238	< 0.78
10/27/15	< 2.14	< 2.41	< 2.21	< 2.22	< 227	< 0.77

Forked River Marina (OCWW02)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
02/05/15	< 1.53	< 1.68	< 1.65	< 2.07	< 159	< 0.86
04/28/15	< 1.80	< 2.08	< 2.16	< 1.99	< 208	< 0.83
07/28/15	< 1.99	< 2.26	< 2.15	< 2.15	< 221	< 0.81
10/27/15	< 1.79	< 1.71	< 1.98	< 1.90	< 282	< 0.83

Lacey MUA Pumping Station (OCWW03)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
02/05/15	< 1.73	< 2.05	< 2.13	< 1.93	< 157	< 0.85
04/28/15	< 1.98	< 2.11	< 2.28	< 2.19	< 203	< 0.82
07/28/15	< 1.76	< 2.35	< 2.30	< 2.11	< 237	< 0.75
10/27/15	< 1.92	< 2.46	< 2.25	< 1.91	< 231	< 0.82

Ocean Township MUA Pumping Station (OCWW04)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
02/05/15	< 1.78	< 2.24	< 2.28	< 2.03	< 158	< 0.84
04/28/15	< 1.97	< 2.08	< 2.00	< 2.06	< 198	< 0.91
07/28/15	< 1.83	< 2.13	< 2.16	< 2.08	< 228	< 0.70
10/27/15	< 2.01	< 2.26	< 2.21	< 2.19	< 211	< 0.79

Results in picoCuries per Liter (pCi/L)

Note: The Lacey MUA Pumping Station (OCWW03) and Ocean Township MUA Pumping Station (OCWW04) were added to the ESMP in 2015. The first sample collection was during the first quarter of 2015.

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Elsinboro School (AIWW01)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
02/05/15	< 2.17	< 2.56	< 2.33	< 2.54	< 159	< 0.86
04/28/15	< 1.93	< 2.23	< 2.30	< 2.12	< 198	< 0.86
07/28/15	< 1.67	< 1.92	< 2.10	< 1.98	< 226	< 0.71
10/27/15	< 1.72	< 1.85	< 1.80	< 1.73	< 226	< 0.87

Lower Alloways Creek Police Station (AIWW02)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
02/05/15	< 1.57	< 1.76	< 1.86	< 1.79	< 159	< 0.89
04/28/15	< 1.74	< 1.91	< 1.99	< 2.29	< 197	< 0.81
07/28/15	< 1.53	< 1.87	< 1.85	< 1.77	< 234	< 0.78
10/27/15	< 1.72	< 1.71	< 1.93	< 1.66	< 231	< 0.84

Salem Processing Center (AIWW03)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
02/05/15	< 1.82	< 1.76	< 1.90	< 1.87	< 158	< 0.85
04/28/15	< 1.56	< 1.85	< 1.83	< 1.73	< 198	< 0.80
07/28/15	< 2.24	< 2.46	< 2.70	< 2.49	< 234	< 0.73
10/27/15	< 1.70	< 1.98	< 1.92	< 1.78	< 231	< 0.81

Lower Alloways Creek School (AIWW04)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
02/05/15	< 1.55	< 1.66	< 1.60	< 1.64	< 184	< 0.84
04/28/15	< 2.13	< 2.12	< 2.21	< 2.46	< 198	< 0.86
07/28/15	< 1.57	< 2.11	< 1.73	< 1.77	< 220	< 0.80
10/27/15	< 1.76	< 1.96	< 1.90	< 1.72	< 231	< 0.79

City of Salem Water & Sewage Department (AIWW05)

<u>Collection Date</u>	<u>Co-58</u>	<u>Co-60</u>	<u>Cs-134</u>	<u>Cs-137</u>	<u>H-3</u>	<u>I-131</u>
10/27/15	< 1.65	< 1.65	< 1.75	< 1.78	< 230	< 0.82

Results in picoCuries per Liter (pCi/L)

Note: The City of Salem Water & Sewage Department (AIWW05) sample location was added to the ESMP in 2015. The first sample collection was during the fourth quarter of 2015.

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

**BNE Background Location
Thermoluminescent Dosimetry Data
Quarterly Results**

<u>Station</u>	<u>Location</u>	<u>1st Quarter</u>		<u>2nd Quarter</u>		<u>3rd Quarter</u>		<u>4th Quarter</u>	
		<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>
CO01	BNE Office, Arctic Parkway, Ewing, NJ	13.3	1.5	12.9	3.1	13.2	1.3	13.2	4.1
CO02	Brendan T. Byrne State Forest, New Lisbon, NJ	10.0	2.2	10.1	2.4	9.9	2.1	10.7	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)

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

**Oyster Creek
Thermoluminescent Dosimetry Data
Quarterly Results**

<u>Station</u>	<u>Location</u>	<u>1st Quarter</u>		<u>2nd Quarter</u>		<u>3rd Quarter</u>		<u>4th Quarter</u>	
		<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>
1	Ocean County Vocational School	9.7	1.2	8.6	3.5	8.8	0.3	8.7	4.8
2	Ocean Twp. Municipal Building	10.1	4.4	9.5	4.4	9.8	2.4	10.3	4.9
3	Sewage Pumping Station, Forked River	11.1	1.8	10.5	1.6	10.7	2.9	10.8	3.3
4	Twin River Station, Forked River	9.3	4.4	9.0	1.8	9.3	2.8	9.8	4.9
5	Sewage Pumping Station, Ocean Twp.	9.8	3.4	9.3	1.7	9.7	2.1	9.6	3.7
6	Oyster Creek, Gate #2, Forked River	10.4	1.4	9.7	2.1	10.2	1.9	10.6	1.6
7	Finninger Farm, Forked River	8.9	5.7	8.2	2.9	8.7	3.7	9.0	4.1
8	Ocean Co. Memorial Cemetery, Waretown	9.5	4.5	8.5	2.2	8.7	2.2	9.4	5.7
9	Oyster Creek Building 17, Forked River	9.6	2.7	9.8	3.4	10.4	4.1	10.6	6.3
10	Sheffield & Derby Rd, Forked River	9.6	3.1	9.1	1.7	9.2	1.8	10.2	2.2
11	Lakeside Drive, Forked River	9.7	1.7	9.3	1.6	9.7	2.6	9.9	1.9
12	Forked River Game Farm, Forked River	10.1	4.5	9.4	6.9	10.1	0.4	9.9	5.9

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
2015 Radiological Environmental Monitoring Program**

**Oyster Creek
Thermoluminescent Dosimetry Data
Quarterly Results**

<u>Station</u>	<u>Location</u>	<u>1st Quarter</u>		<u>2nd Quarter</u>		<u>3rd Quarter</u>		<u>4th Quarter</u>	
		<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>
13	Restrooms, Lakeside Dr., Forked River	9.5	3.6	9.0	1.6	9.1	4.3	9.9	3.9
14	Sands Pt. Park, Dock Ave., Waretown	10.8	3.2	10.1	5.5	10.4	1.1	10.6	2.7
15	Recreation Center, Waretown	10.0	4.2	8.8	3.4	9.1	3.0	9.9	4.6
16	North Access Rd., Forked River	10.7	1.6	10.4	1.3	10.7	1.7	11.5	1.4
20	Third Avenue, Barnegat Light	8.7	2.5	8.3	3.5	8.6	5.2	8.3	4.6
21	Rose Hill Road & Barnegat Blvd	10.0	3.7	9.3	3.8	9.7	4.2	9.9	5.6
22	Bay Way & Clairmore Avenue	9.9	1.8	9.0	2.1	9.4	4.2	9.8	4.6
23	Island Beach State Park, Parking Lot A5	9.3	2.9	8.4	2.1	8.5	2.4	8.8	5.6

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).

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

**Salem/Hope Creek
Thermoluminescent Dosimetry Data
Quarterly Results**

<u>Station</u>	<u>Location</u>	<u>1st Quarter</u>		<u>2nd Quarter</u>		<u>3rd Quarter</u>		<u>4th Quarter</u>	
		<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>
1	Access Road – Security Checkpoint	11.7	4.9	10.9	4.6	10.9	0.9	11.5	3.2
2	Poplar Road, Lower Alloways	11.7	5.2	11.3	6.1	11.4	1.9	11.6	2.2
3	Money and Eagle Island Road	12.4	3.0	12.1	1.2	12.8	1.7	12.6	4.1
4	Ft. Elfsborg / Hancocks – East	13.2	3.2	13.4	4.6	13.7	3.6	13.1	2.4
5	Ft. Elfsborg / Hancocks – West	16.5	4.0	16.1	2.5	16.9	1.9	16.5	1.6
6	Stathems Neck Road	11.5	1.6	11.3	3.3	12.6	3.5	11.9	3.6
7	Stow Neck Road Lower Alloways	10.2	4.3	9.4	1.7	10.0	5.2	10.3	2.6
8	Alloways Creek Neck Road - Middle	10.6	2.5	9.4	1.0	10.3	3.0	10.3	3.4
9	Alloways Creek Neck Road - North	13.9	2.4	12.5	2.0	12.9	1.8	13.4	3.1
10	Abbotts Farm Road	10.3	6.4	9.2	3.2	*	*	10.0	3.5
11	PSEG Education Center/EOF	11.0	2.8	10.7	3.3	11.3	2.7	11.5	2.9

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).

* TLD badges missing from site

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

Quarterly Results for Co-located Dosimeters

<u>Station</u>	<u>Location</u>	<u>1st Quarter</u>				<u>2nd Quarter</u>				<u>3rd Quarter</u>				<u>4th Quarter</u>			
		<u>NJDEP</u>		<u>Global</u>		<u>NJDEP</u>		<u>Global</u>		<u>NJDEP</u>		<u>Global</u>		<u>NJDEP</u>		<u>Global</u>	
		<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>
5	Sewage Pump. Station, Ocean Township	9.8	3.4	10.6	3.6	9.3	1.7	9.2	4.0	9.7	2.1	10.5	2.4	9.6	3.7	9.8	3.5
7	Finninger Farm,OCNGS Forked River	8.9	5.7	9.6	3.9	8.2	2.9	8.6	3.4	8.7	3.7	9.4	5.6	8.5	4.3	8.5	2.9
13	Restrooms, Lakeside Dr. Forked River	9.5	3.6	10.2	4.5	9.0	1.6	9.0	2.6	9.1	4.3	10.0	3.1	9.9	3.9	9.2	2.8
21	Rose Hill and Barnegat Rd Barnegat Twp.	10.0	3.7	10.2	4.5	9.3	3.8	9.4	2.5	9.7	4.2	10.3	4.2	9.9	5.6	10.0	3.3

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)

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

**Comparison of NJDEP and Mirion Technologies Thermoluminescent Dosimetry Data for Salem/Hope Creek
Quarterly Results for Co-located Dosimeters**

<u>Station</u>	<u>Location</u>	<u>1st Quarter</u>				<u>2nd Quarter</u>				<u>3rd Quarter</u>				<u>4th Quarter</u>			
		<u>NJDEP</u>		<u>Global</u>		<u>NJDEP</u>		<u>Global</u>		<u>NJDEP</u>		<u>Global</u>		<u>NJDEP</u>		<u>Global</u>	
		<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>
1	Access Road – Security Checkpoint	11.7	4.9	11.4	2.7	10.9	4.6	10.6	4.8	10.9	0.9	11.5	4.1	11.5	3.2	10.7	5.0
2	Poplar Road, Lower Alloways	11.7	5.2	12.0	4.8	11.3	6.1	11.6	3.0	11.4	1.9	12.4	2.1	11.6	2.2	10.8	6.4
3	Money and Eagle Island Roads	12.4	3.0	13.2	0.0	12.1	1.2	12.6	4.6	12.8	1.7	14.0	2.0	12.6	4.1	12.8	3.0
5	Ft. Elfsborg/ Hancocks - West	16.5	4.0	16.8	4.0	16.1	2.5	15.3	6.1	16.9	1.9	17.9	3.0	16.5	1.6	16.7	3.7

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)

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

Quarterly Results for Co-located Dosimeters

<u>Station</u>	<u>Location</u>	<u>1st Quarter</u>				<u>2nd Quarter</u>				<u>3rd Quarter</u>				<u>4th Quarter</u>			
		<u>NJDEP</u>		<u>Global</u>		<u>NJDEP</u>		<u>Global</u>		<u>NJDEP</u>		<u>Global</u>		<u>NJDEP</u>		<u>Global</u>	
		<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>	<u>Result</u>	<u>%CV</u>
7	Stow Neck Road-Lower Alloways	10.2	4.3	10.2	4.5	9.4	1.7	9.7	3.3	10.0	5.2	10.5	4.4	10.3	2.6	9.3	0.0
9	Alloways Creek Neck Road - North	13.6	2.4	13.2	3.7	12.5	2.0	12.4	6.3	12.7	1.8	14.0	2.0	13.4	3.1	13.2	2.2
11	PSEG Ed. Center/EOF Salem City	11.0	2.8	12.0	2.6	10.7	3.3	10.8	2.9	11.3	2.7	11.9	2.8	11.5	2.9	10.5	4.7

Results are reported in units of milliroentgens (mR)

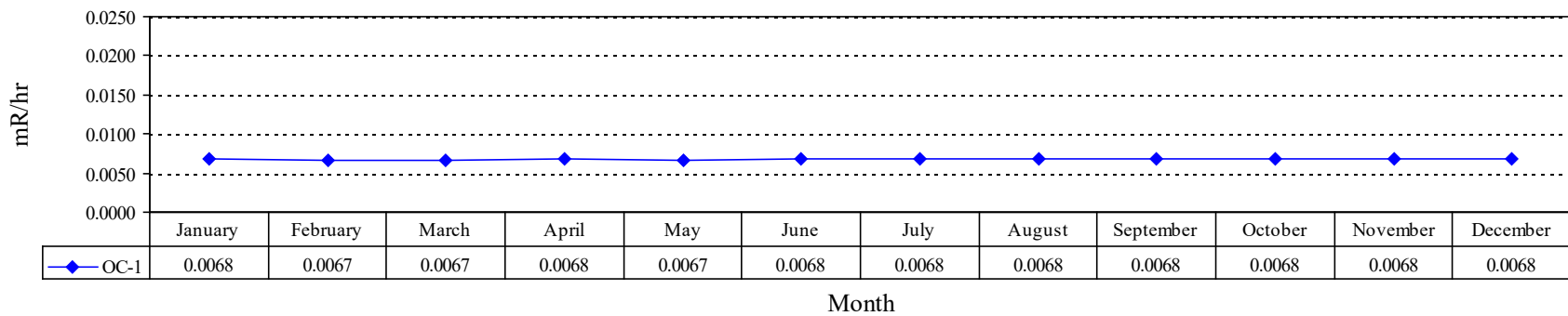
CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage

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

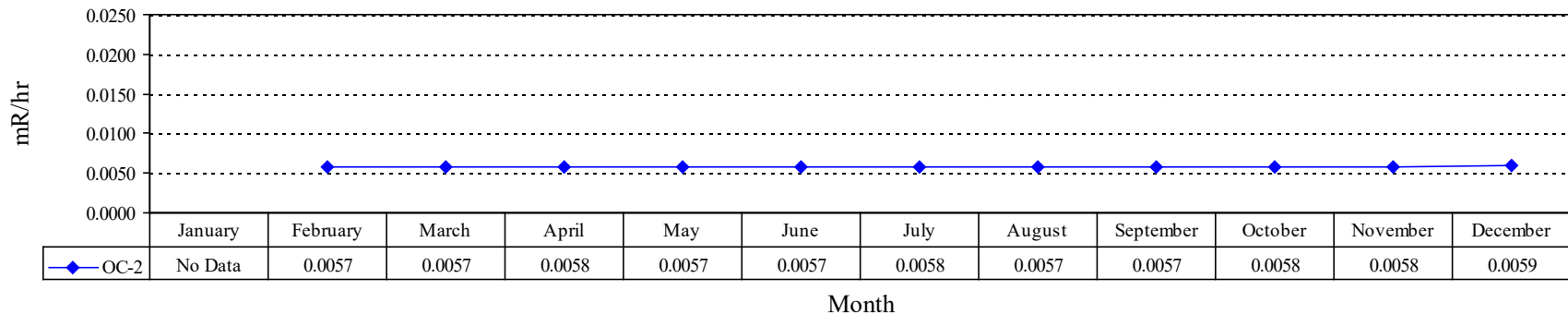
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Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

**OC 1
2015 Ambient Radiation Levels**



**OC 2
2015 Ambient Radiation Levels**

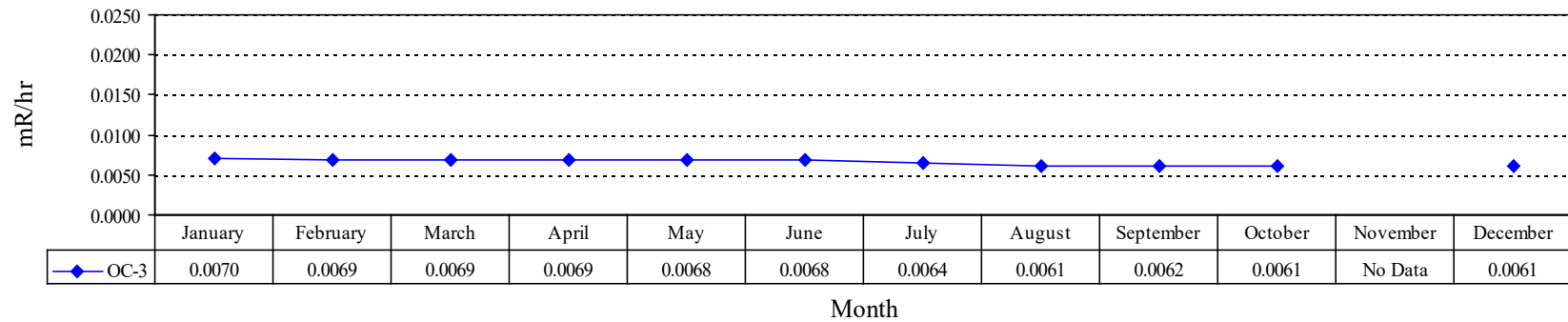


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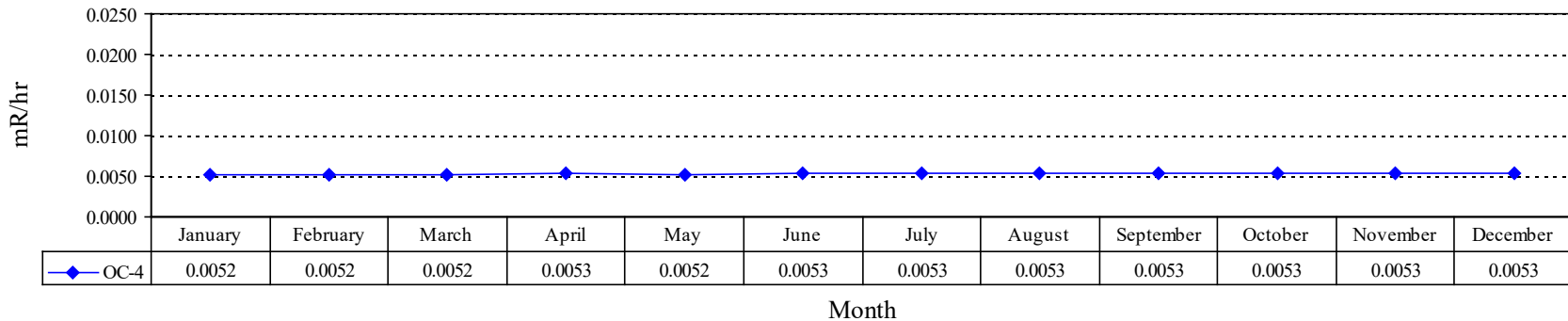
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Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

**OC 3
2015 Ambient Radiation Levels**



**OC 04
2015 Ambient Radiation Levels**

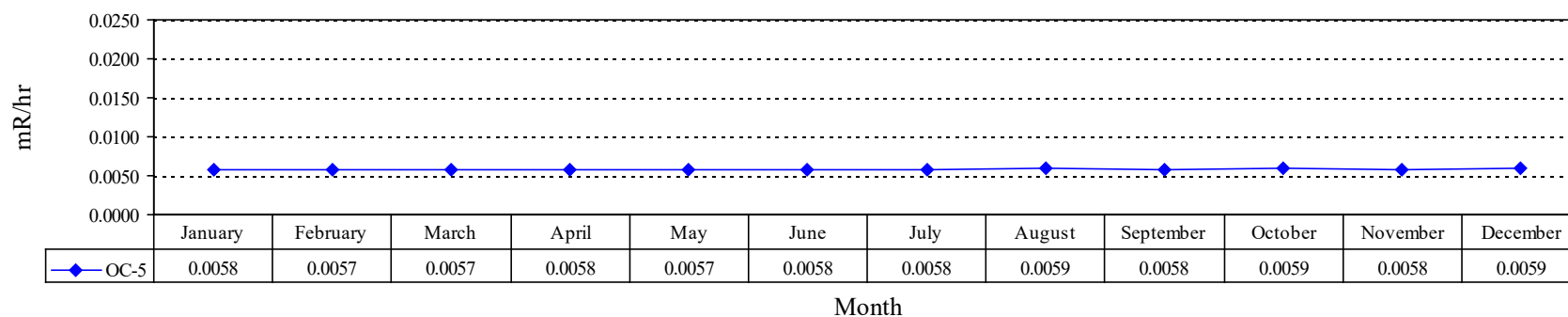


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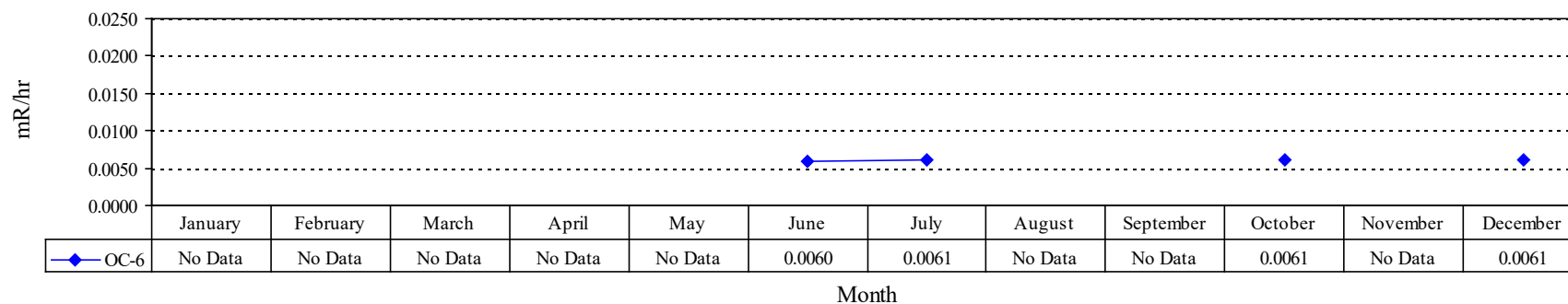
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2015 Radiological Environmental Monitoring Program**

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

**OC 5
2015 Ambient Radiation Levels**



**OC 6
2015 Ambient Radiation Levels**



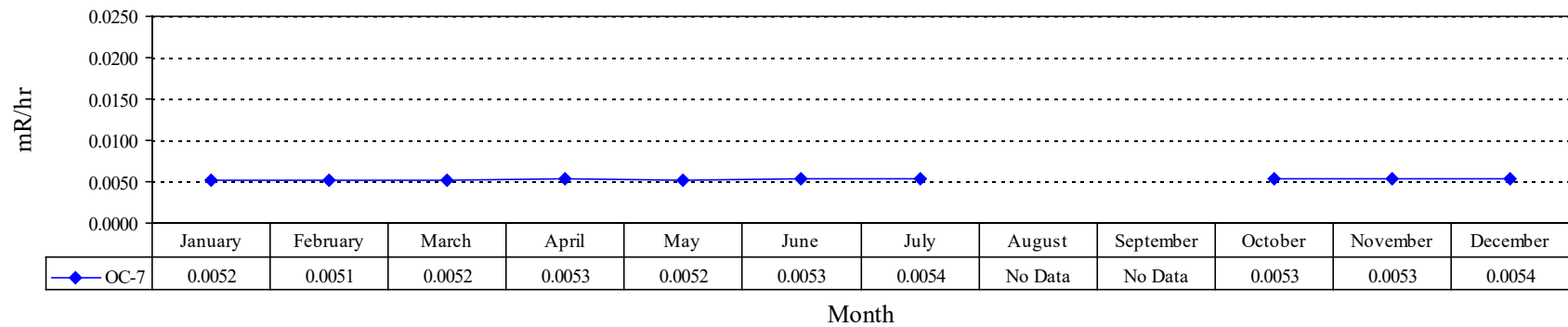
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2015 Radiological Environmental Monitoring Program**

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

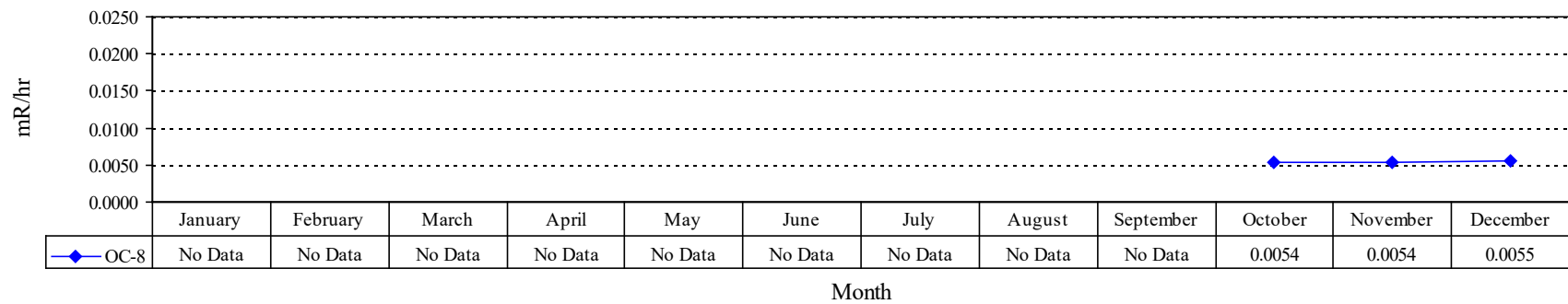
OC 7

2015 Ambient Radiation Levels



OC 8

2015 Ambient Radiation Levels

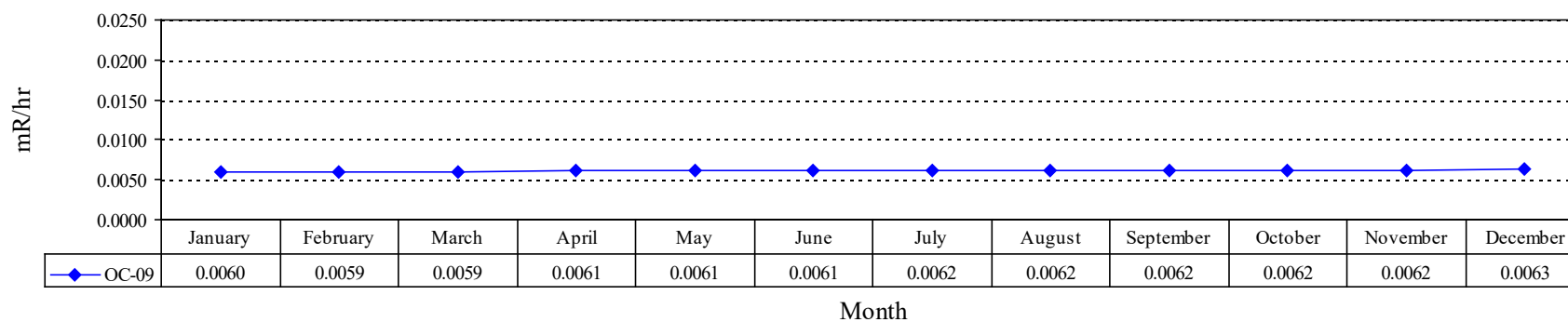


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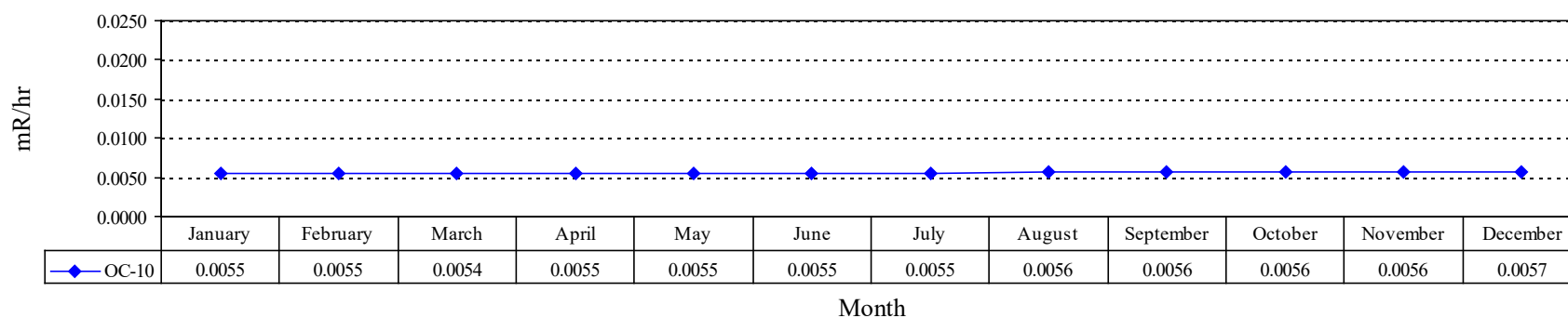
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Oyster Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

**OC 9
2015 Ambient Radiation Levels**



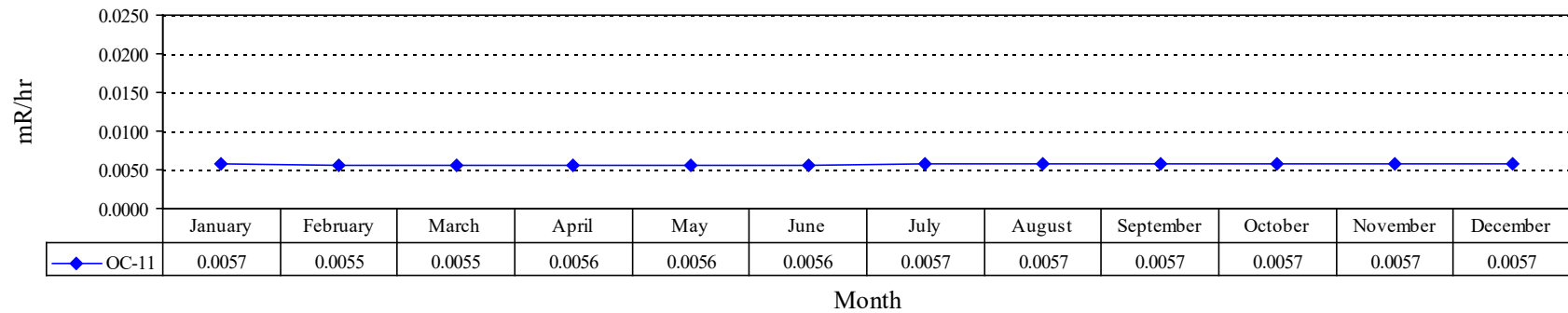
**OC 10
2015 Ambient Radiation Levels**



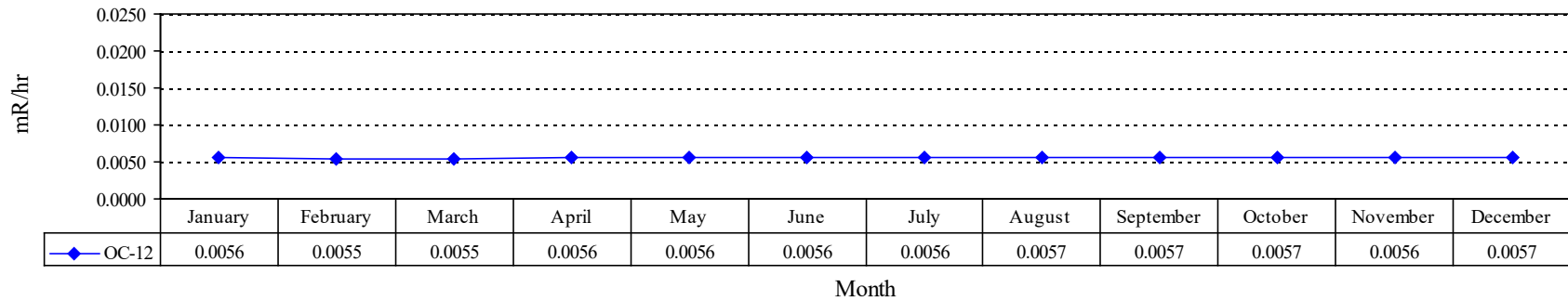
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2015 Radiological Environmental Monitoring Program**

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

**OC 11
2015 Ambient Radiation Levels**



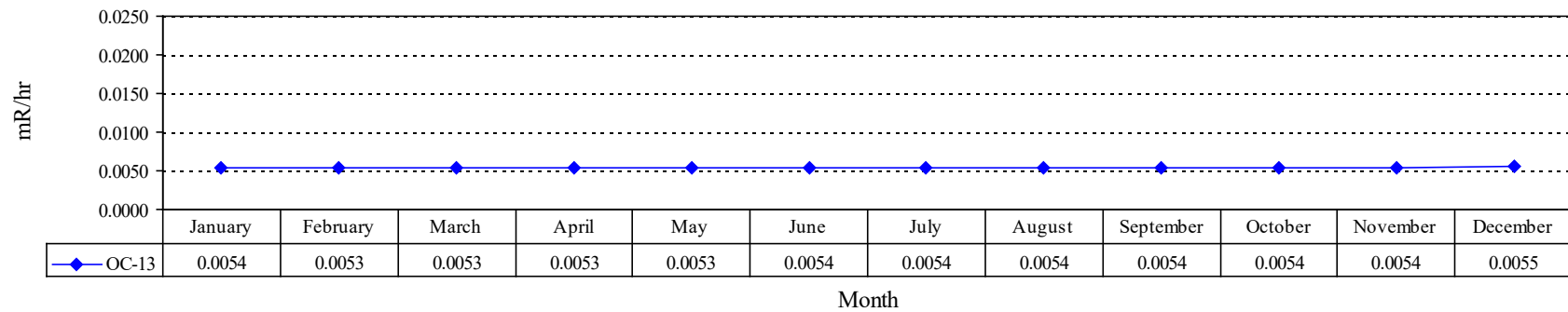
**OC 12
2015 Ambient Radiation Levels**



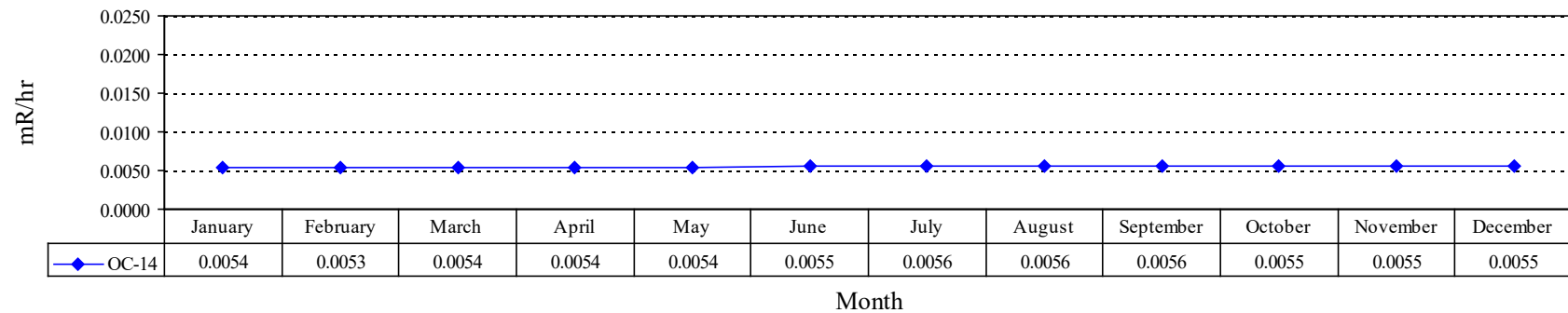
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2015 Radiological Environmental Monitoring Program**

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

**OC 13
2015 Ambient Radiation Levels**



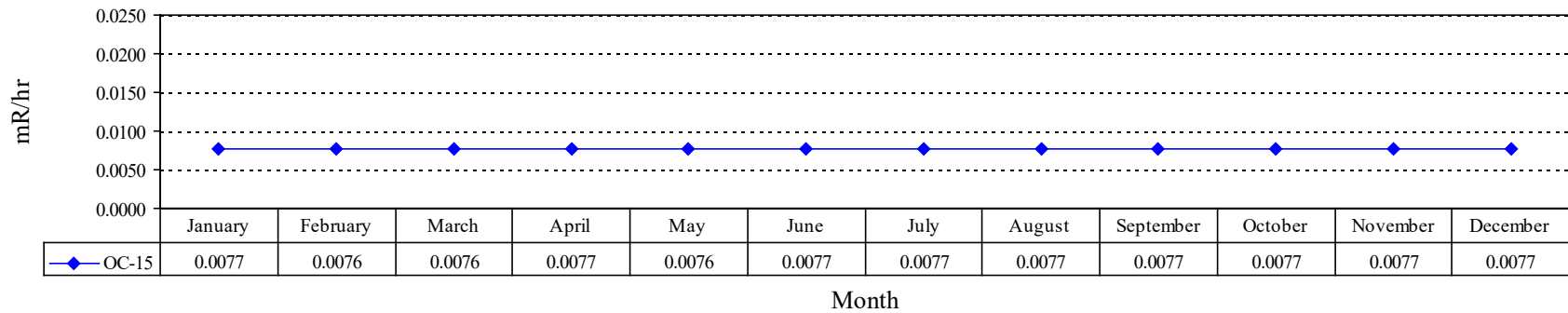
**OC 14
2015 Ambient Radiation Levels**



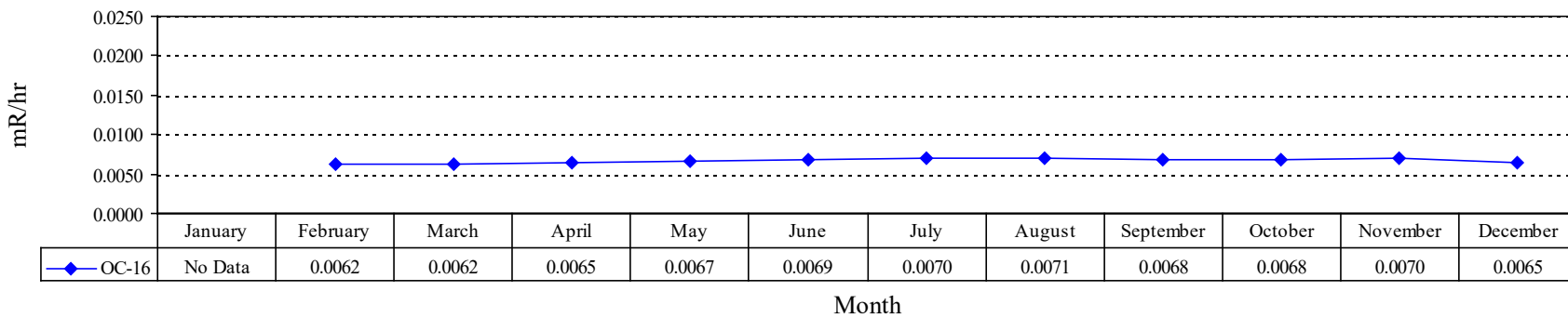
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2015 Radiological Environmental Monitoring Program**

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

**OC 15
2015 Ambient Radiation Levels**



**OC 16
2015 Ambient Radiation Levels**

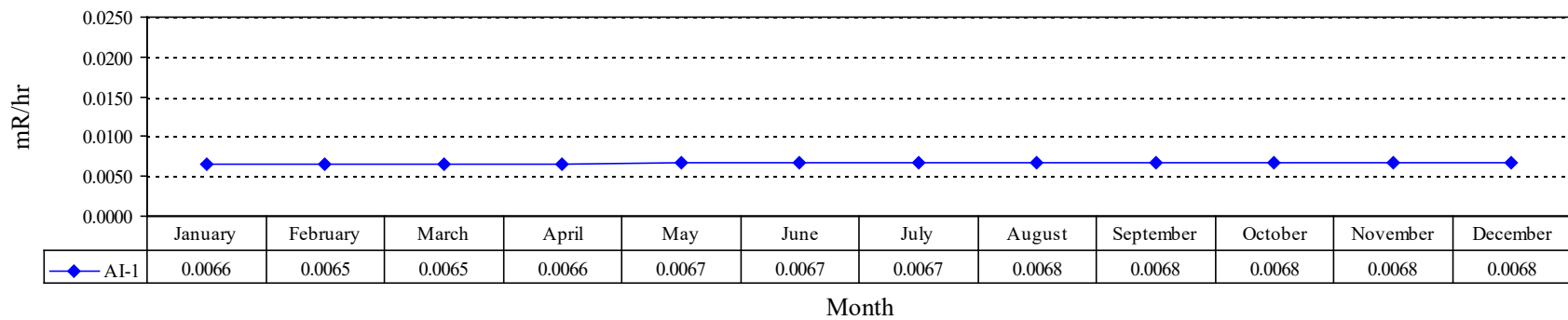


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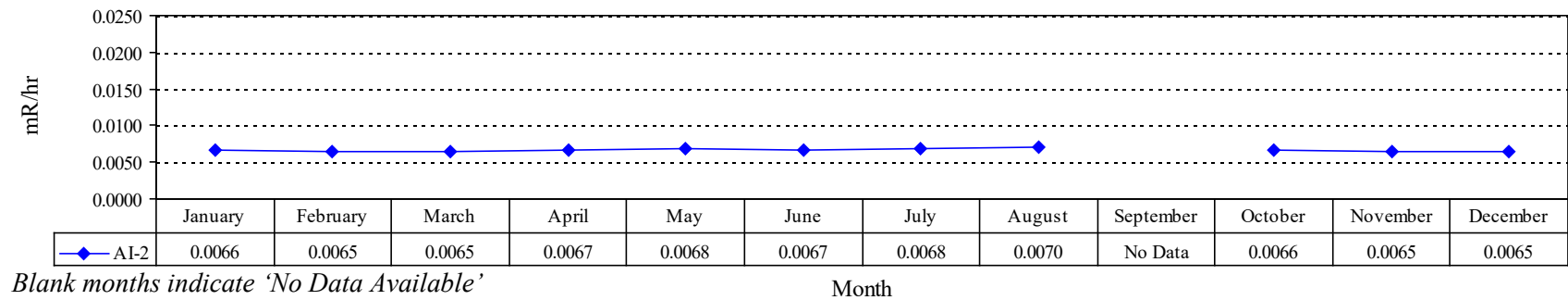
**New Jersey Department of Environmental Protection
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2015 Radiological Environmental Monitoring Program**

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

**AI 1
2015 Ambient Radiation Levels**



**AI 2
2015 Ambient Radiation Levels**

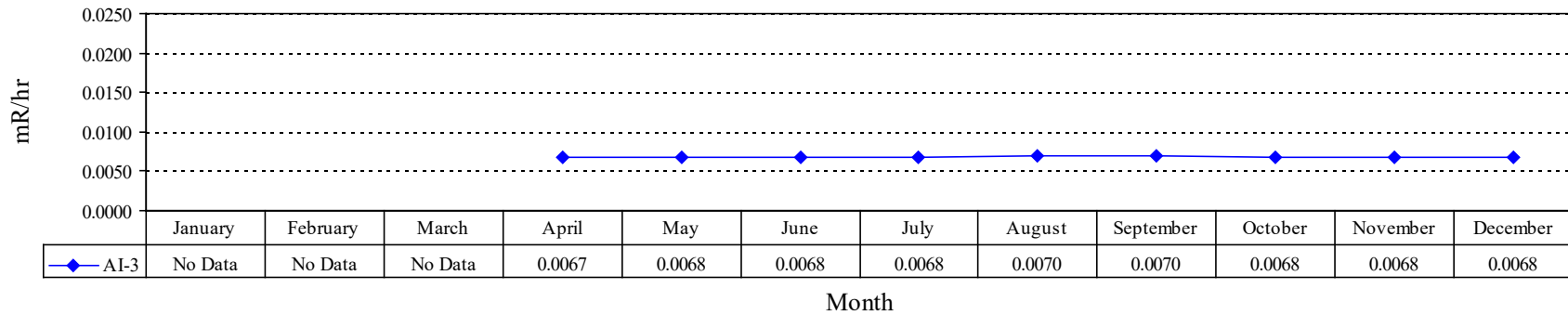


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**New Jersey Department of Environmental Protection
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2015 Radiological Environmental Monitoring Program**

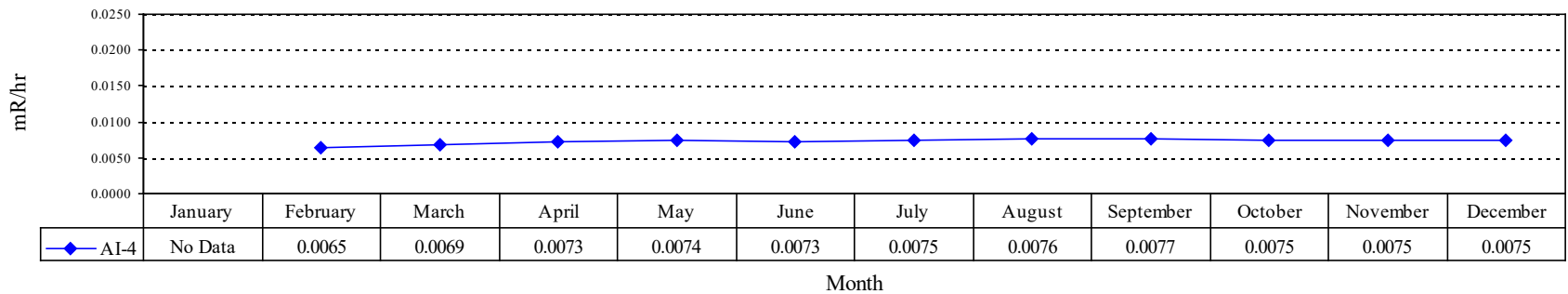
**Salem/Hope Creek – Continuous Radiological Environmental Surveillance Telemetry (CREST) Data
AI 3**

2015 Ambient Radiation Levels



AI 4

2015 Ambient Radiation Levels

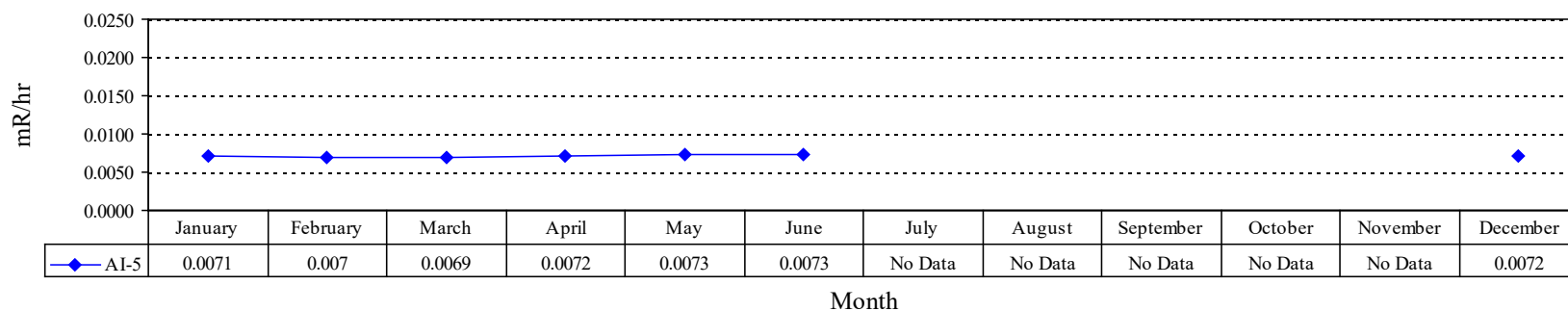


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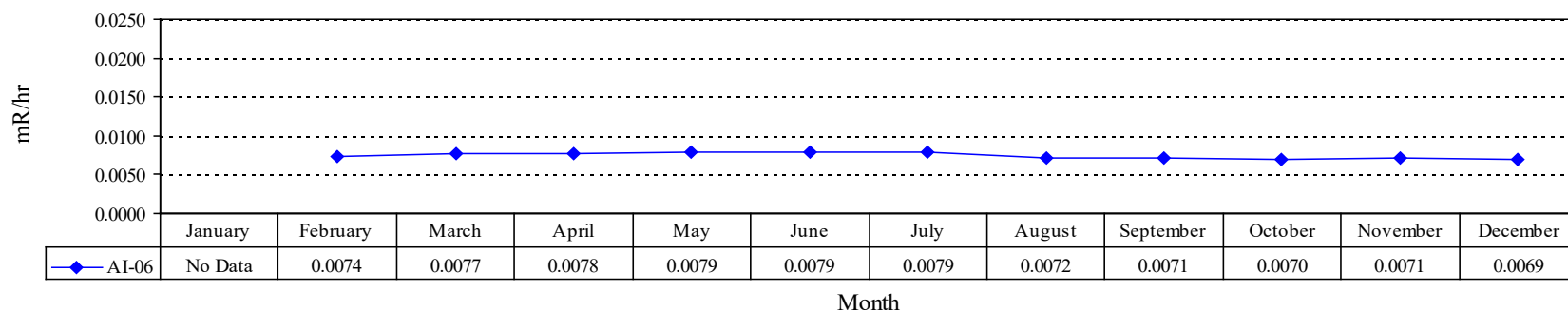
**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

**AI 5
2015 Ambient Radiation Levels**



**AI 6
2015 Ambient Radiation Levels**

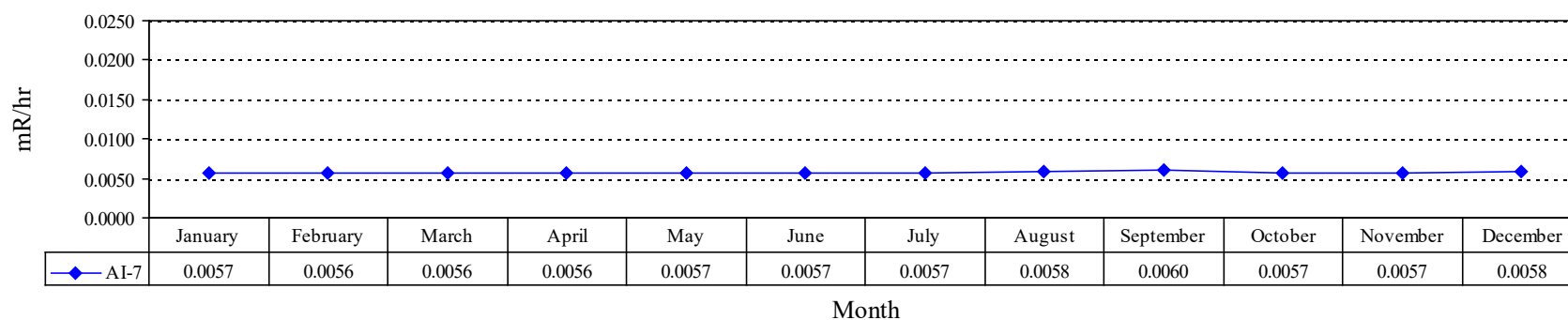


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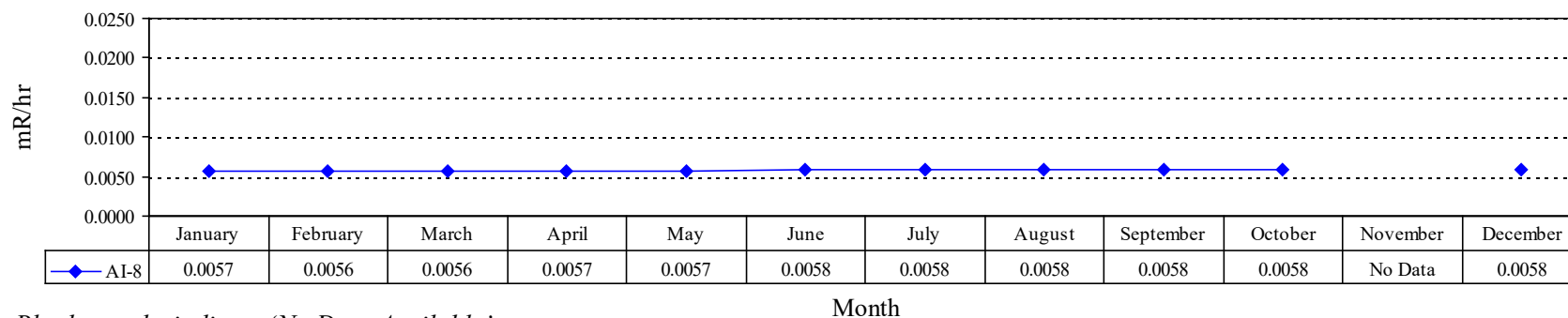
**New Jersey Department of Environmental Protection
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2015 Radiological Environmental Monitoring Program**

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

**AI 7
2015 Ambient Radiation Levels**



**AI 8
2015 Ambient Radiation Levels**

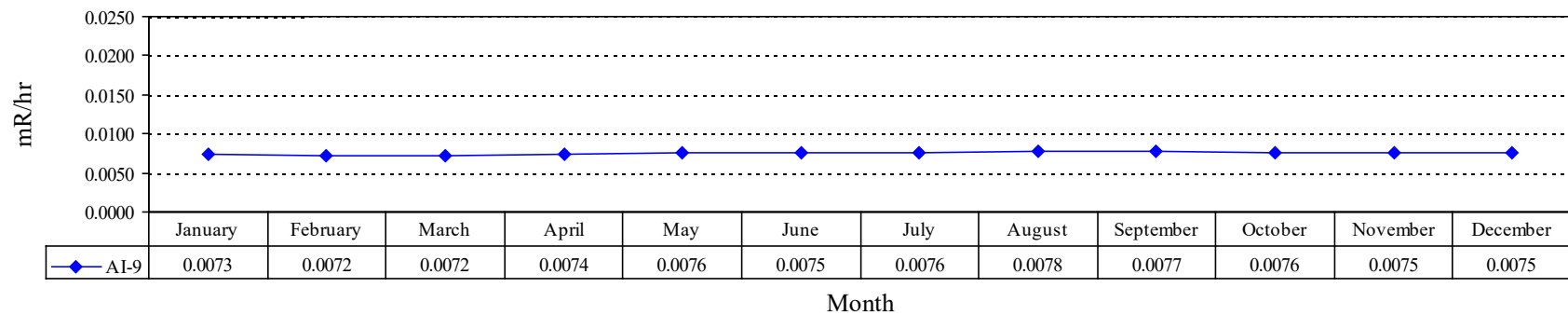


Blank months indicate 'No Data Available'

**New Jersey Department of Environmental Protection
Bureau of Nuclear Engineering
2015 Radiological Environmental Monitoring Program**

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

**AI 9
2015 Ambient Radiation Levels**



**AI 10
2015 Ambient Radiation Levels**

